SUPPLEMENT DATED JANUARY 4, 2019



TO

THE COMMONWEALTH OF MASSACHUSETTS

INFORMATION STATEMENT

DATED NOVEMBER 29, 2018

Except as specifically provided herein, the Commonwealth Information Statement, dated November 29, 2018 (the "Information Statement"), has not been updated or supplemented. The Information Statement contains information only through its date, except as specifically set forth in this Supplement. The Information Statement, together with this Supplement, should be read in its entirety.

The Information Statement is supplemented as of the date hereof as set forth below.

COMMONWEALTH REVENUES - Tax Revenue Forecasting

Under the heading, "COMMONWEALTH REVENUES - Tax Revenue Forecasting," the following two paragraphs are added to the end of the section:

On December 31, 2018, a fiscal 2020 consensus tax revenue estimate of \$29.299 billion was agreed upon by the Secretary of Administration and Finance and the chairs of the House and Senate Committees on Ways and Means. Also on December 31, 2018, the Secretary certified a revised fiscal 2019 tax revenue estimate of \$28.529 billion, as further discussed below. The fiscal 2020 consensus tax revenue estimate represents revenue growth of 2.7% from the revised fiscal 2019 estimate of \$28.529 billion. The \$29.299 billion figure for fiscal 2020 includes transfers of \$2.841 billion for pension funding, \$1.077 billion in dedicated sales tax receipts for the MBTA, \$917 million in dedicated sales tax receipts for the MSBA, and \$25 million for the Workforce Training Fund. The total amount of off-budget transfers was \$5.080 billion. Accordingly, after taking into account these off-budget allocations the Secretary and Committee chairs agreed that \$24.219 billion would be the maximum amount of tax revenue available for the fiscal 2020 budget. Both the fiscal 2020 consensus tax revenue estimate and the revised fiscal 2019 tax revenue projection do not include any revenue from marijuana sales or excise taxes. The consensus tax revenue estimate for fiscal 2020 assumes that another income tax trigger will go into effect on January 1, 2020, lowering the state personal income tax rate on most classes of taxable income to 5.00% from 5.05%.

The Secretary of Administration and Finance and the chairs of the House and Senate Committees on Ways and Means also agreed upon a PGSP estimate of 3.6% for calendar year 2019, which is identical to the PGSP figure that was adopted for calendar years 2016 through 2018. The PGSP growth benchmark is to be used by the Health Policy Commission to establish the Commonwealth's health care cost growth benchmark for calendar year 2019. See "Commonwealth Expenditures – Medicaid and the Health Connector; *Health Care Cost Containment*."

COMMONWEALTH REVENUES - Fiscal 2018 and Fiscal 2019 Tax Revenues

Under the heading "COMMONWEALTH REVENUES - Fiscal 2018 and Fiscal 2019 Tax Revenues," the subsection captioned "Fiscal 2019" is deleted and replaced with the following subsection:

Fiscal 2019. The fiscal 2019 General Appropriations Act was based on estimated tax collections of \$28.392 billion, including revenues dedicated to the MBTA, the MSBA and the Workforce Training Fund, excluding large tax-related settlements and judgments. On December 31, 2018, the Secretary of Administration and Finance revised the tax revenue projection of \$28.329 billion (i.e., the benchmark estimate of \$28.392 billion minus \$63 million estimated revenues from marijuana sales and excise taxes) upward by \$200 million to \$28.529 billion based on then current year-to-date revenues and economic data.

The following table shows the tax collections for the first six months of fiscal 2019 and the change from tax collections in the same period in the prior year, both in dollars and as a percentage. The table also notes the amount of tax collections during the fiscal year that are dedicated to the MBTA and the MSBA.

Fiscal 2019 Tax Collections (in millions)

| Month | Tax Collections | Change from <u>Prior Year</u> | Percentage <u>Change</u> | MBTA Portion | MSBA Portion | Tax Collections: Net of MBTA and MSBA |
|--------------|-------------------|----------------------------------|-----------------------------|----------------|-----------------|---------------------------------------|
| July | \$1,914.0 | \$116.9 | 6.5% | \$86.5 | \$73.2 | \$1,754.3 |
| August | 1,842.3 | 130.4 | 7.6 | 88.0 | 74.7 | 1,679.6 |
| September | 3,262.6 | 417.2 | 14.7 | 84.9 | 71.6 | 3,106.0 |
| October | 1,913.5 | 86.9 | 4.8 | 87.5 | 74.2 | 1,751.7 |
| November | 1,856.5 | 120.7 | 7.0 | 87.5 | 74.2 | 1,694.8 |
| December (1) | <u>2,571.7</u> | (435.7) | (14.5) | <u>87.5</u> | 74.2 | <u>2,410.0</u> |
| Total (2) | <u>\$13,360.5</u> | <u>\$436.2</u> | <u>3.4%</u> | <u>\$522.1</u> | <u>\$442.1</u> | <u>\$12,396.4</u> |

SOURCE: Executive Office for Administration and Finance.

The year-to-date net tax revenue increase of approximately \$436.2 million through December 31, 2018 over the same period in fiscal 2018 is attributable, in large part, to an increase of approximately \$229.3 million, or 3.7%, in withholding collections, an increase of approximately \$39.8 million, or 13.0%, in income tax payments with bills and returns, a decrease of approximately \$45.1 million, or 13.7%, in income tax cash refunds, an increase of approximately \$221.7 million, or 21.2%, in corporate and business tax collections, an increase of approximately \$177.1 million, or 5.5%, in sales and use tax collections, and a net increase of approximately \$193.5 million, or 17.1%, in all other taxes, offset by a decrease of approximately \$470.2 million, or 35.1%, in income tax estimated payments. Excluding one-time tax related settlements and judgments exceeding \$10 million each, fiscal 2019 year to date tax collections were approximately \$13.312 billion, \$108 million below the year-to-date benchmark associated with the original fiscal 2019 tax revenue estimate of \$28.392 billion.

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⁽¹⁾ Figures are preliminary.

⁽²⁾ Totals may not add due to rounding.

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INFORMATION STATEMENT

Dated November 29, 2018



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THE COMMONWEALTH OF MASSACHUSETTS



CONSTITUTIONAL OFFICERS

| Charles D. Baker | Governor |
|------------------|--------------------------------|
| Karyn E. Polito | Lieutenant Governor |
| • | Secretary of the Commonwealth |
| Maura Healey | Attorney General |
| • | Treasurer and Receiver-General |
| G | Auditor |

LEGISLATIVE OFFICERS

| Karen E. Spilka | President of the Senate |
|-----------------|-------------------------|
| Robert A. DeLeo | Speaker of the House |



THE COMMONWEALTH OF MASSACHUSETTS

INFORMATION STATEMENT

November 29, 2018

This Information Statement, together with its Exhibits (included by reference as described below), is furnished by The Commonwealth of Massachusetts (the Commonwealth). It contains certain fiscal, financial and economic information concerning the Commonwealth and its ability to meet its financial obligations. This Information Statement contains information only through its date, or as otherwise provided for herein, and should be read in its entirety.

The ability of the Commonwealth to meet its obligations will be affected by future social, environmental and economic conditions, among other things, as well as by legislative policies and the financial condition of the Commonwealth. Many of these conditions are not within the control of the Commonwealth.

Exhibit A to this Information Statement is the Statement of Economic Information as of July 12, 2018. Exhibit A sets forth certain economic, demographic and statistical information concerning the Commonwealth.

Exhibits B and C, respectively, are the Commonwealth's Statutory Basis Financial Report for the year ended June 30, 2018 and the Commonwealth's Comprehensive Annual Financial Report (reported in accordance with generally accepted accounting principles (GAAP)) for the year ended June 30, 2017.

Specific reference is made to Exhibits A, B and C, copies of which are attached hereto and have also been filed with the Municipal Securities Rulemaking Board (MSRB) through its Electronic Municipal Market Access System (EMMA). The financial statements are also available at the home page of the Comptroller of the Commonwealth located at http://www.macomptroller.org by clicking on "Financial Reports" on the Comptroller's homepage.

THE GOVERNMENT

The government of the Commonwealth is divided into three branches: the Executive, the bicameral Legislature and the Judiciary.

Executive Branch

Governor. The Governor is the chief executive officer of the Commonwealth. Other elected members of the executive branch are the Lieutenant Governor (elected with the Governor), the Treasurer and Receiver-General (State Treasurer), the Secretary of the Commonwealth (State Secretary), the Attorney General and the State Auditor. All are elected to four-year terms. The terms of the current office holders began in January, 2015.

The Executive Council, also referred to as the "Governor's Council," consists of eight members who are elected to two-year terms in even-numbered years. The Executive Council is responsible for the confirmation of certain gubernatorial appointments, particularly judges, and must approve all warrants prepared by the Comptroller for payment by the State Treasurer.

Also within the Executive Branch are certain independent offices, each of which performs a defined function, such as the Board of Library Commissioners, the Office of Campaign and Political Finance, the Office of the Comptroller, the Office of the Inspector General and the State Ethics Commission.

Governor's Cabinet. The Governor's Cabinet, which assists the Governor in administration and policy making, comprises the secretaries who head the eight Executive Offices, which are the Executive Office for Administration and Finance, the Executive Office of Health and Human Services, the Executive Office of Public Safety and Security, the Executive Office of Housing and Economic Development, the Executive Office of Labor and Workforce Development, the Executive Office of Energy and Environmental Affairs, the Executive Office of Education, and the Executive Office of Technology Services and Security. In addition, the Secretary of Transportation, who is the chief executive of the Massachusetts Department of Transportation (MassDOT) and chairs MassDOT's board of directors, is a member of the Governor's Cabinet. (MassDOT has a legal existence separate from the Commonwealth but houses several departments of state government.) Cabinet secretaries and executive department chiefs, including the Secretary of Transportation, serve at the pleasure of the Governor. Most other agencies are grouped under one of the eight Executive Offices for administrative purposes.

The Governor's chief fiscal officer is the Secretary of Administration and Finance. The activities of the Executive Office for Administration and Finance fall within five broad categories: (i) administrative and fiscal supervision, including supervision of the implementation of the Commonwealth's operating budget and capital investment plan, and monitoring of all agency expenditures during the fiscal year; (ii) enforcement of the Commonwealth's tax laws and collection of tax revenues through the Department of Revenue; (iii) human resource management, including administration of the state personnel system, civil service system and employee benefit programs, and negotiation of collective bargaining agreements with certain of the Commonwealth's public employee unions; (iv) capital facilities management, including coordinating and overseeing the construction, management and leasing of all state facilities; and (v) administration of general services, including procurement management services. The Secretary of Administration and Finance serves on numerous state boards and commissions.

State Treasurer. The State Treasurer has four primary statutory responsibilities: (i) oversight of the collection of all state revenues by state agencies, including tax revenues remitted by the Department of Revenue (other than small amounts of funds held by certain agencies); (ii) the management of both short-term and long-term investment of Commonwealth funds (other than the state employee and teacher pension funds), including all cash receipts; (iii) the disbursement of Commonwealth moneys and oversight of reconciliation of the state's accounts; and (iv) the issuance of most debt obligations of the Commonwealth, including notes, commercial paper and long-term bonds.

In addition to these responsibilities, the State Treasurer chairs the Massachusetts Lottery Commission, the State Retirement Board, the Pension Reserves Investment Management Board, the Massachusetts Clean Water Trust, and the Massachusetts School Building Authority, and appoints the members of the Alcoholic Beverages Control Commission. The State Treasurer also serves as a member of numerous other state boards and commissions.

State Auditor. The State Auditor is charged with improving the efficiency of state government by auditing the administration and expenditure of public funds and reporting the findings to the public. The State Auditor reviews the activities and operations of approximately 750 state entities and potentially thousands of private contractors doing business with the Commonwealth. See "COMMONWEALTH BUDGET AND FINANCIAL MANAGEMENT CONTROLS."

Attorney General. The Attorney General represents the Commonwealth in all legal proceedings in both the state and federal courts, including defending the Commonwealth in actions in which a state law or executive action is challenged. The Attorney General also brings actions to enforce environmental and consumer protection statutes, among others, and represents consumer interests in public utility rate-setting proceedings and in proceedings before the Division of Insurance and other administrative bodies. The Attorney General works in conjunction with the general counsel of the various state agencies and executive departments to coordinate and monitor all pending litigation.

State Secretary. The Secretary of the Commonwealth is responsible for collection and storage of public records and archives, securities regulation, state elections, administration of state lobbying laws, and the registration of and reporting by corporations.

State Comptroller. Accounting policies and practices, publication of official financial reports, and oversight of fiscal management functions are the responsibility of the Comptroller. The Comptroller also administers the Commonwealth's annual state single audit and manages the state accounting system. The Comptroller serves as a member of the Massachusetts Lottery Commission, the Inspector General Council, the Records Conservation Board, and the State Retiree Benefits Trust. The Comptroller is appointed by the Governor for a term coterminous with the Governor's and may be removed by the Governor only for cause. The annual financial reports of the Commonwealth, single audit reports, and any rules and regulations promulgated by the Comptroller must be reviewed by an advisory board. This board is chaired by the Secretary of Administration and Finance and includes the State Treasurer, the Attorney General, the State Auditor, the Court Administrator of the Trial Court, and two persons with relevant experience appointed by the Governor for three-year terms.

The Commonwealth's annual reports include financial statements on the statutory basis of accounting (the Statutory Basis Financial Report, or SBFR) and financial statements on a GAAP basis (the Comprehensive Annual Financial Report, or CAFR). The Statutory Basis Financial Report for the year ended June 30, 2018, attached hereto as Exhibit B, was reviewed, and the Comprehensive Annual Financial Report for the year ended June 30, 2017, attached hereto as Exhibit C, was audited, by KPMG LLP, as stated in its reports appearing therein. KPMG LLP has not been engaged to perform, and has not performed, since the respective dates of its reports included herein, any procedures on the financial statements addressed in such reports, nor has it performed any procedures relating to the official statement of which this Information Statement is a part. See "COMMONWEALTH BUDGET AND FINANCIAL MANAGEMENT CONTROLS."

Legislative Branch

The Legislature (formally called the General Court) is the bicameral legislative body of the Commonwealth, consisting of a Senate of 40 members and a House of Representatives of 160 members. Members of both the Senate and the House are elected to two-year terms in even-numbered years. The Legislature meets every year. The joint rules of the House and Senate require all formal business to be concluded by the end of July in even-numbered years and by the third Wednesday in November in odd-numbered years.

All enacted bills are presented to the Governor for approval or veto. The Legislature may override the Governor's veto of any bill by a two-thirds roll-call vote of each house. The Governor also has the power to return a bill to the chamber of the Legislature in which it originated with a recommendation that certain amendments be made; such a bill is then before the Legislature and is subject to amendment or re-enactment by each branch, at which point the Governor has no further right to return the bill a second time with a recommendation to amend but may still veto the bill. The House of Representatives must originate any bill that imposes a tax. Once a tax bill is originated by the House and forwarded to the Senate for consideration, the Senate may amend it. Any member of the House of Representatives or the Senate also may propose an amendment to the state constitution. Any such proposed amendment must receive a majority of approving votes from members of the House of Representatives

and the Senate jointly assembled in a constitutional convention in two successive biennial legislative sessions before being submitted to the voters for approval.

Judicial Branch

The judicial branch of state government is composed of the Supreme Judicial Court, the Appeals Court and the Trial Court. The Supreme Judicial Court has original jurisdiction over certain cases and hears appeals from both the Appeals Court, which is an intermediate appellate court, and in some cases, directly from the Trial Court. The Supreme Judicial Court is authorized to render advisory opinions on certain questions of law to the Governor, the Legislature and the Governor's Council. Judges of the Supreme Judicial Court, the Appeals Court and the Trial Court are appointed by the Governor, with the advice and consent of the Governor's Council, to serve until the mandatory retirement age of 70 years.

Independent Authorities and Agencies

The Legislature has established a number of independent authorities and agencies within the Commonwealth, the budgets of which are not included in the Commonwealth's annual budget. The Governmental Accounting Standards Board (GASB) Statements No. 14 and No. 34, as amended by Statement No. 61, *The Financial Reporting Entity: Omnibus - an amendment of GASB Statements No. 14 and No. 34*, articulate standards for determining significant financial or operational relationships between the primary government and its independent entities. In fiscal 2017, the Commonwealth had significant operational or financial relationships, or both, as defined by GASB Statements No. 14 and No. 34, as amended by Statement No. 61, with 40 of these authorities. A discussion of these entities and the relationship to the Commonwealth is included in footnote 1 to the fiscal 2017 Basic Financial Statements in the CAFR, attached hereto as Exhibit C.

Local Government

The Commonwealth has 351 incorporated cities and towns that exercise the functions of local government, which include public safety, fire protection and public construction. Cities and towns or regional school districts established by them also provide elementary and secondary education. Cities are governed by several variations of the mayor-and-council or manager-and-council form. Most towns place executive power in a board of three or five selectmen elected to one- or three-year terms and retain legislative powers in the voters themselves, who assemble in periodic open or representative town meetings. Various local and regional districts exist for schools, water and wastewater administration, and certain other governmental functions.

Municipal revenues consist of taxes on real and personal property, distributions from the Commonwealth under a variety of programs and formulas, local receipts (including motor vehicle excise taxes, local option taxes, fines, licenses and permits, charges for utility and other services, and investment income) and appropriations from other available funds (including general and dedicated reserve funds). See "COMMONWEALTH EXPENDITURES – Local Aid."

The cities and towns of the Commonwealth are also organized into 14 counties, but county government has been abolished in nine of those counties. The county governments that remain are responsible principally for the operation of courthouses and registries of deeds. Where county government has been abolished, the functions, duties and responsibilities of the government have been transferred to the Commonwealth, including all employees, assets, valid liabilities and debts.

Initiative Petitions

Under the Massachusetts constitution, legislation may be enacted in the Commonwealth pursuant to a voter initiative process. Initiative petitions which have been certified by the Attorney General as to proper form and as to which the requisite number of voter signatures has been collected are submitted to the Legislature for consideration. If the Legislature fails to enact the measure into law as submitted, the petitioner may place the initiative on the ballot for the next statewide general election by collecting additional voter signatures. If approved by a majority of the voters at the general election, the petition becomes law 30 days after the date of the election. Initiative petitions so approved by the voters do not constitute constitutional amendments and may be subsequently amended or repealed by the Legislature. Initiative petitions may not make appropriations.

Constitutional amendments also may be initiated by citizens, but they follow a longer adoption process, which includes gaining at least 25% of the votes of the House of Representatives and Senate jointly assembled in constitutional convention in two successive biennial legislative sessions before being decided by the voters.

COMMONWEALTH BUDGET AND FINANCIAL MANAGEMENT CONTROLS

Operating Fund Structure

The Commonwealth's operating fund structure satisfies the requirements of state finance law and is in accordance with GAAP, as defined by GASB. The General Fund and other funds that are appropriated in the annual state budget receive most of the non-bond and non-federal grant revenues of the Commonwealth. These funds are referred to in this Information Statement as the "budgeted operating funds" of the Commonwealth. Budgeted operating funds are created and repealed from time to time through the enactment of legislation, and existing funds may become inactive when no appropriations are made from them. Budgeted operating funds do not include the capital projects funds of the Commonwealth, into which the proceeds of Commonwealth bonds are deposited. See "Capital Investment Process and Controls" below.

Two of the budgeted operating funds account for most of the Commonwealth's appropriated spending: the General Fund and the Commonwealth Transportation Fund (formerly the Highway Fund), from which approximately 98.6% of the budgeted operating fund outflows in fiscal 2018 were made. The remaining approximately 1.4% of budgeted operating fund outflows occurred in other operating funds: the Commonwealth Stabilization Fund, the Intragovernmental Service Fund, the Inland Fisheries and Game Fund, the Marine Recreational Fisheries Development Fund, the Public Safety Training Fund, the Community First Trust Fund, the Gaming Local Aid Fund, the Local Aid Stabilization Fund and the Marijuana Regulation Fund. A number of budgeted funds were authorized by law but had no activity in fiscal 2018.

At the end of a fiscal year, undesignated balances in the budgeted operating funds, unless excluded by law, are used to calculate the consolidated net surplus. Under state finance law, balances in the Stabilization Fund, the Tax Reduction Fund, the Inland Fisheries and Game Fund, the Marine Recreational Fisheries Fund, the Public Safety Training Fund, the Community First Trust Fund, and the Local Aid Stabilization Fund are excluded from the consolidated net surplus calculation. According to state finance law, deficits in any funds included in the consolidated net surplus calculation are eliminated by transfers from other consolidated net surplus funds that have surplus balances, and any undesignated or unreserved balances remaining in the consolidated net surplus funds are transferred to the Commonwealth Stabilization Fund.

Overview of Operating Budget Process

Generally, funds for the Commonwealth's programs and services must be appropriated by the Legislature. The process of preparing a budget begins with the executive branch early in the fiscal year preceding the fiscal year for which the budget will take effect. The legislative budgetary process begins in late January (or, in the case of a newly elected Governor, not later than early March) with the Governor's budget submission to the Legislature for the fiscal year commencing in the ensuing July. The Massachusetts constitution requires that the Governor recommend to the Legislature a budget which contains a statement of all proposed expenditures of the Commonwealth for the upcoming fiscal year, including those already authorized by law, and of all taxes, revenues, loans and other means by which such expenditures are to be defrayed. State finance law requires the Legislature and the Governor to approve a balanced budget for each fiscal year, and the Governor may approve no supplemental appropriation bills that would result in an unbalanced budget. However, this is a statutory requirement that may be superseded by an appropriation act.

The House Committee on Ways and Means considers the Governor's budget recommendations and, with revisions, proposes a budget to the full House of Representatives. Once approved by the House, the budget is considered by the Senate Committee on Ways and Means, which in turn proposes a budget, with revisions, to be considered by the full Senate. In recent years, the legislative budget review process has included joint hearings by the Ways and Means Committees of the Senate and the House. After Senate action, a legislative conference committee develops a joint budget recommendation for consideration by both houses of the Legislature, which upon adoption is sent to the Governor. Under the Massachusetts constitution, the Governor may veto the budget in whole or disapprove or reduce specific line items (line item veto). The Legislature may override the Governor's veto or specific line-item vetoes by a two-thirds roll-call vote of both the House and Senate. The annual budget legislation, as finally enacted, is known as the general appropriations act.

In years in which the general appropriations act is not approved by the Legislature and the Governor before the beginning of the applicable fiscal year, the Legislature and the Governor generally approve a temporary budget under which funds for the Commonwealth's programs and services are appropriated based upon the level of appropriations from the prior fiscal year budget, adjusted for any known changes in the level of spending during the first month or months of the current fiscal year.

State finance law requires the Commonwealth to monitor revenues and expenditures during a fiscal year. For example, the Comptroller publishes a quarterly report of planned and actual revenues. See "COMMONWEALTH REVENUES – Tax Revenue Forecasting." Department heads are required to notify the Secretary of Administration and Finance and the House and Senate Committees on Ways and Means of any anticipated decrease in estimated revenues for their departments from the federal government or other sources or if it appears that any appropriation will be insufficient to meet all expenditures required in the fiscal year by any law, rule, regulation or order not subject to administrative control. The Secretary of Administration and Finance must notify the Governor and the House and Senate Committees on Ways and Means whenever the Secretary determines that revenues will be insufficient to meet authorized expenditures. The Secretary of Administration and Finance is then required to compute projected deficiencies and, under Section 9C of Chapter 29 of the General Laws, the Governor is required to reduce allotments, to the extent lawfully permitted to do so, or submit proposals to the Legislature to raise additional revenues or to make appropriations from the Stabilization Fund to cover such deficiencies. The Supreme Judicial Court has ruled that, under current law, the Governor's authority to reduce allotments of appropriated funds extends only to appropriations of funds to state agencies under the Governor's control.

Cash and Budgetary Controls

The Commonwealth has in place controls designed to ensure that (i) sufficient cash is available to meet the Commonwealth's obligations, (ii) state expenditures are consistent with periodic allotments of annual appropriations, and (iii) moneys are expended consistently with statutory and public purposes. Two independently elected Executive Branch officials, the State Treasurer and the State Auditor, conduct the cash management and audit functions, respectively. Regarding periodic allotments, at the beginning of each fiscal year the Executive Office for Administration and Finance schedules the rate at which agencies will have access to funds included in their appropriation through a published periodic allotment calendar. Under state finance law, monthly appropriation allotments are ordinarily one-twelfth of the annual amount, but the Executive Office for Administration and Finance may provide for greater or lesser monthly allotments in appropriate cases. This calendar is reviewed regularly, and depending on the fiscal climate, the Executive Office for Administration and Finance may choose to adjust the allotment schedule in order to tighten spending controls. In some cases agencies may request an ad hoc allotment in order to gain access to funds faster than the existing periodic allotment schedule would allow (e.g., exceptional cases where unique payment concerns must be considered); such requests are carefully reviewed by the Executive Office for Administration and Finance before they are approved. The Comptroller conducts the expenditure control function.

Capital Investment Process and Controls

Capital expenditures are primarily financed with debt proceeds and federal reimbursements. Authorization for capital spending requires approval by the Legislature, and the issuance of debt must be approved by a two-thirds roll-call vote of each house of the Legislature. The state constitution requires the Governor to recommend the terms of the authorized debt. The State Treasurer issues authorized debt at the request of the Governor, and the Governor, through the Secretary of Administration and Finance, controls the amount of capital expenditures through the allotment of funds pursuant to such authorizations. The Executive Office for Administration and Finance establishes a capital investment plan on or before July 1 each year pursuant to state law. The capital investment plan is an administrative guideline and is subject to amendment from time to time. See "COMMONWEALTH CAPITAL INVESTMENT PLAN."

The Comptroller has established various funds to account for financial activity related to the acquisition or construction of capital assets. In addition, accounting procedures and financial controls have been instituted to limit agency capital spending to the levels approved by the Governor. Capital spending is tracked against the capital investment plan on both a cash and encumbrance accounting basis on the state's accounting system, and federal reimbursements are budgeted and monitored against anticipated receipts.

Cash Management Practices of State Treasurer

The State Treasurer is responsible for ensuring that all Commonwealth financial obligations are met on a timely basis. The Massachusetts constitution requires that all payments by the Commonwealth (other than debt service) be made pursuant to a warrant approved by the Governor's Council. The Comptroller prepares certificates which, with the advice and consent of the Governor's Council and approval of the Governor, become the warrant to the State Treasurer. Once the warrant is approved, the State Treasurer's office disburses the money. Debt service is specifically exempted by the state constitution from the warrant requirement, but requires an appropriation to be paid.

The Cash Management Division of the State Treasurer's office utilizes approximately 900 operating accounts to track cash collections and disbursements for the Commonwealth. The Division relies primarily upon electronic receipt and disbursement systems.

The State Treasurer, in conjunction with the Executive Office for Administration and Finance, is required to submit quarterly cash flow projections for the then current fiscal year to the House and Senate Committees on Ways and Means on or before the last day of August, November, February and May. The projections must include estimated sources and uses of cash, together with the assumptions from which such estimates were derived and identification of any cash flow gaps. See "FISCAL 2019 – Cash Flow." The State Treasurer's office, in conjunction with the Executive Office for Administration and Finance, is also required to develop quarterly and annual cash management plans to address any gap identified by the cash flow projections and variance reports. The State Treasurer's office oversees the issuance of short-term debt to meet cash flow needs, including the issuance of commercial paper and revenue anticipation notes. See "LONG-TERM LIABILITIES – General Obligation Debt."

Cash that is not needed for immediate funding needs is invested in the Massachusetts Municipal Depository Trust. The State Treasurer serves as trustee of the Trust and has sole authority pertaining to rules, regulations and operations of the Trust. The Trust has two investment options: a short-term liquidity vehicle or "cash portfolio" structured similarly to a money market fund and a short-term bond fund. For additional detail on the Massachusetts Municipal Depository Trust, see "FISCAL 2019 – Cash Flow."

Fiscal Control, Accounting and Reporting Practices of the Comptroller

The Comptroller is responsible for oversight of fiscal management functions, establishment of accounting policies and practices, and publication of official financial reports. The Comptroller maintains the Massachusetts Management Accounting and Reporting System (MMARS), the centralized state accounting system, that is used by all state agencies and departments for processing of all financial transactions. The University of Massachusetts, the state universities and the community colleges process only some transactions on MMARS, and the independent state authorities do not use the system. MMARS provides a ledger-based system of revenue and expenditure accounts enabling the Comptroller to control obligations and expenditures effectively and to ensure that appropriations are not exceeded during the course of the fiscal year. The Commonwealth's statewide accounting system also has various modules for receivables, payables, capital assets and other processes management.

Expenditure Controls. The Comptroller requires that the amount of all obligations under purchase orders, contracts and other commitments for the expenditures of moneys be recorded as encumbrances. Once encumbered, these amounts are not available to support additional spending commitments. As a result of these encumbrances, spending agencies can use MMARS to determine at any given time the amount of their appropriations available for future commitments.

The Comptroller is responsible for compiling expenditure requests into the certificates for approval by the Governor's Council. The Council approves an estimated warrant giving the Treasurer authority to issue payments up to the amount on the warrant, as long as those payments are otherwise determined by the Comptroller to comply with state finance law. In preparing these certificates, which become the warrant, the Comptroller's office has systems in place to ensure that the necessary moneys for payment have been both appropriated by the Legislature and allotted by the Governor in each account and sub-account. By law, certain obligations may be placed upon the warrant even if the supporting appropriation or allotment is insufficient. These obligations include Medicaid payments, which are mandated by federal law.

Although state finance law generally does not create priorities among types of payments to be made by the Commonwealth in the event of a cash shortfall, the Comptroller has developed procedures, in consultation with the State Treasurer and the Executive Office for Administration and Finance, for prioritizing payments based upon state finance law and sound fiscal management practices.

Internal Controls. The Comptroller establishes internal control policies and procedures in accordance with state finance law. Agencies are required to adhere to such policies and procedures. All unaccounted-for variances, losses, shortages or thefts of funds or property must be reported to the State Auditor, who is authorized to investigate and recommend corrective action.

Statutory Basis of Accounting. In accordance with state law, the Commonwealth adopts its budget and maintains financial information on a statutory basis of accounting. Under the statutory basis, tax and departmental revenues are accounted for on a modified cash basis by reconciling revenue to actual cash receipts confirmed by the State Treasurer. Certain limited revenue accruals are also recognized, including receivables from federal reimbursements with respect to paid expenditures. Expenditures are measured on a modified cash basis, including actual cash disbursements and encumbrances for goods or services received prior to the end of a fiscal year.

For certain programs, such as Medicaid, expenditures are recognized under the statutory basis of accounting only to the extent of disbursements supported by current-year appropriations. Some prior year services billed after the start of a fiscal year have been paid from the new fiscal year's appropriation, in an amount determined by the specific timing of billings and the amount of prior year funds that remained after June 30 to pay the prior year's accrued billings, though this practice may vary from year to year.

GAAP Basis of Accounting. The Comptroller also prepares Commonwealth financial statements on a GAAP basis. In addition to the primary government, certain independent authorities and agencies of the Commonwealth are included as component units within the Commonwealth's reporting entity.

GAAP employs an economic resources management focus and a current financial resources management focus as two bases for accounting and reporting. Under the economic resources management focus (also called the "government-wide perspective") revenues and expenses (different from expenditures) are presented similarly to private-sector entities. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of cash flows. Grants and similar items are recognized as revenues as soon as all eligibility requirements imposed by the provider have been met. Capital assets, including infrastructure assets net of depreciation, and the long-term portion of all liabilities are reported on the statement of net position.

Under the current financial resources management focus of GAAP (also called the "fund perspective" or "modified accrual" basis), the primary emphasis is to demonstrate inter-period equity. Revenues are reported in the period in which they become both measurable and available. Revenues are considered available when they are expected to be collected within the current period or soon enough thereafter to be used to pay liabilities of the current period.

Significant revenues susceptible to accrual include income, sales and use, corporation and other taxes, federal revenues (including both grants and reimbursements) and reimbursements for the use of materials and services. Tax accruals, which include the estimated amounts due to the Commonwealth on previous filings, overand under-withholdings, estimated payments on income earned and tax refunds and abatements payable, are all recorded as adjustments to statutory basis tax revenues.

Major expenditure accruals are recorded for the cost of Medicaid claims that have been incurred but not paid, claims and judgments and workers' compensation claims incurred but not reported and contract assistance and amounts due to municipalities and state authorities. See Exhibit C – Comprehensive Annual Financial Report for the year ended June 30, 2017; Page 3 and Notes to the Basic Financial Statements.

Audit Practices of State Auditor

The State Auditor is mandated under state law to conduct an audit at least once every three years of the accounts of all departments, offices, commissions, institutions and activities of the Commonwealth. This audit encompasses hundreds of state entities, including the court system and independent authorities. The State Auditor also has the authority to audit federally aided programs and vendors and their subcontractors under contract with the Commonwealth as well as to conduct special audit projects. Further, the State Auditor upon a ratified majority vote by the board of selectmen or school committee, may, in the Auditor's discretion, audit the accounts, programs, activities and other public functions of a town, district, regional school district, city or county. The State Auditor conducts both compliance and performance audits in accordance with generally accepted government auditing standards issued by the Comptroller General of the United States.

Within the State Auditor's office is the Division of Local Mandates, which evaluates proposed and actual legislation to determine the financial impact on the Commonwealth's cities and towns. In accordance with state law, the Commonwealth is required to reimburse cities and towns for any costs incurred through mandated programs established after the passage of Proposition 2½, the statewide tax limitation enacted by the voters in 1980, unless expressly exempted from those provisions, and the State Auditor's financial analysis is used to establish the amount of reimbursement due to the Commonwealth's cities and towns. See "COMMONWEALTH EXPENDITURES – Local Aid; *Property Tax Limits.*"

Also within the State Auditor's office is the Bureau of Special Investigations, which is charged with the responsibility of investigating fraud within public assistance programs.

COMMONWEALTH REVENUES

This section contains a description of the major categories of Commonwealth revenues. See "COMMONWEALTH EXPENDITURES" for a description of the major categories of Commonwealth expenditures. All percentages and amounts for fiscal 2018 are unaudited, and for fiscal 2019 are projected.

In order to fund its programs and services, the Commonwealth collects a variety of taxes and receives revenues from other non-tax sources, including the federal government and various fees, fines, court revenues, assessments, reimbursements, interest earnings and transfers from its non-budgeted funds, which are deposited in the General Fund, the Commonwealth Transportation Fund (formerly the Highway Fund) and other budgeted operating funds. Revenues deposited in such funds are referred to as budgeted operating revenues in this Information Statement. In fiscal 2018, on a statutory basis, approximately 57.5% of the Commonwealth's budgeted operating revenues and other financing sources were derived from state taxes. In addition, the federal government provided approximately 25.3% of such revenues, with the remaining 17.2% provided from departmental revenues and transfers from non-budgeted funds.

The Commonwealth's executive and legislative branches establish the Commonwealth's budget using the statutory basis of accounting, which differs from a GAAP basis. See "SELECTED FINANCIAL DATA – Statutory Basis Distribution of Budgetary Revenues and Expenditures" and "- GAAP Basis."

State Taxes

The major components of state taxes are the income tax, which accounted for approximately 57.6% of total budgeted tax revenues in fiscal 2018, the sales and use tax, which accounted for approximately 23.0% of total budgeted tax revenues in fiscal 2018, and the corporations and other business and excise taxes (including taxes on insurance companies and financial institutions), which accounted for approximately 10.1% of total budgeted tax revenues in fiscal 2018. Other tax and excise sources accounted for the remaining 9.2% of total budgeted tax revenues in fiscal 2018.

The Governor annually files a "tax expenditure budget" that provides a list, description and revenue estimates of various tax credits, deductions and exemptions that represent departures from the basic provisions of the state tax code. See "Tax Credits and Other Incentives" below.

On December 22, 2017, President Trump signed into law Public Law 115-97, making major changes to the federal Internal Revenue Code, most of which are effective in the 2018 tax year, including extensive changes to federal personal income taxes, corporate income taxes, and estate taxes, and the deductibility of various taxes and interest costs. Because the Commonwealth's tax system interacts with the federal system, the changes to the federal Internal Revenue Code have flow-through effects on the Commonwealth's tax system and revenues. The Department of Revenue has been reviewing the implications of the federal changes for the Commonwealth's tax administration, and revenues. Legislation adjusting the Commonwealth's income tax laws and corporation tax laws in response to the new forms of income that are recognized and new federal tax expenditures that are created under Public Law 115-97 was enacted on October 23, 2018.

Income Tax. The Commonwealth assesses personal income taxes at flat rates, according to classes of income, after specified deductions and exemptions. A rate of 5.3% was applied to most types of income from January 1, 2002 to January 1, 2012. Under current law, the state personal income tax rate on most classes of taxable income is scheduled to be reduced gradually to 5.0%, contingent upon "baseline" state tax revenue growth (i.e., revenue growth after factoring out the impact of tax law and administrative processing changes). Pursuant to this law, the state income tax rate on most classes of taxable income has been gradually reduced from 5.3% to its current rate of 5.1%. In order to trigger a reduction, fiscal year-over-fiscal year growth in baseline revenues must increase by at least 2.5 percentage points more than the rate of inflation, as measured by the consumer price index for all urban consumers in Boston. Inflation-adjusted baseline revenues must also demonstrate positive growth for consecutive three-month periods, beginning in August and ending in November, in comparison with the same three-month periods in the prior calendar year. If these triggers are met, the personal income tax rate on most classes of taxable income is reduced by 0.05% on the following January 1. The state income tax rate on most classes of taxable income was reduced from 5.15% to 5.10%, effective January 1, 2016, as a result of satisfying these triggers.

On August 30, 2017, the Department of Revenue certified that the fiscal 2017 inflation-adjusted baseline tax revenue growth over fiscal 2016 was 0.059%, and, therefore, the 2.5% fiscal 2017 growth threshold needed to trigger a further tax rate reduction effective January 1, 2018 was not met.

The Department of Revenue is in the process of determining whether the state income tax rate will be reduced further from 5.10% to 5.05%, effective January 1, 2019. On August 30, 2018, the Commissioner of Revenue certified that fiscal 2018 inflation-adjusted baseline revenues grew by 5.485% from fiscal 2017, which exceeds the initial trigger (2.5%) for the income tax rate reduction. The Commissioner is further required to make four certifications, with respect to each consecutive three-month period starting in August and ending in November, 2018, as compared to the same consecutive three-month period in calendar 2017, to determine if there will be positive inflation-adjusted baseline revenue growth for each such three-month period. The first three such certifications on September 14, 2018, October 15, 2018 and November 15, 2018, indicated that there was such positive inflation-adjusted baseline revenue growth. The Commissioner will issue one more "three-month period" certification by December 17, 2019, at which point the Commissioner will determine whether all of the statutory triggers have been met. The Department of Revenue estimates that the revenue impact of a rate reduction from 5.10% to 5.05% for fiscal 2019 would be approximately \$84 million. The fiscal 2019 benchmark revenue estimate of \$28.392 billion assumes that this rate reduction will occur. The revenue impact for fiscal 2020 (assuming no further rate reduction in calendar year 2020) would be approximately \$175 million.

Current law requires that in the tax year following that in which the personal income tax rate is reduced to 5.0%, the charitable deduction, which was in effect for tax year 2000 but subsequently suspended, will be restored.

The following table shows the Department of Revenue's estimated impacts on income tax revenue of the state income tax rate reductions described above in fiscal years 2013 through 2020, inclusive.

Impact of Income Tax Rate Reductions (millions)

| Decrease from: | Fiscal 2013 | Fiscal 2014 | Fiscal 2015 | Fiscal 2016 | Fiscal 2017 | Fiscal 2018 | Fiscal 2019 (1) | FY2020 (1) |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|------------|
| 5.3% to 5.25% | \$114 | \$119 | \$124 | \$130 | \$136 | \$142 | \$148 | \$155 |
| 5.25% to 5.20% | = | 65 | 133 | 138 | 145 | 151 | 158 | 165 |
| 5.20% to 5.15% | = | = | 70 | 145 | 152 | 158 | 165 | 173 |
| 5.15% to 5.10% | - | - | - | 74 | 152 | 159 | 166 | 173 |
| 5.10% to 5.05% | - | - | - | - | - | - | 84 | 175 |

Source: Department of Revenue.

(1) Income tax revenue impacts in fiscal 2019 and fiscal 2020 are projected and subject to change.

Capital Gains Component of the Income Tax. The tax rate on gains from the sale of capital assets held for one year or less and from the sale of collectibles is 12%. The tax rate on gains from the sale of capital assets owned more than one year is currently 5.10% (effective January 1, 2016), and is equal to the state personal income tax rate. The 5.10% rate could further decline through the statutory mechanism for adjusting the personal income tax rate described above. Current state finance law provides for tax revenues collected from capital gains income during a fiscal year that exceed a specified threshold to be transferred to the Commonwealth's Stabilization Fund, with 5% of the amount so deposited then transferred to the State Retiree Benefits Trust Fund and an additional 5% transferred to the Commonwealth's Pension Liability Fund. Each quarter, the Department of Revenue certifies the amount of tax revenues estimated to have been collected during the preceding quarter from capital gains income, and, once the threshold has been exceeded, the excess is transferred to the Commonwealth Stabilization Fund. The final certification of capital gains tax revenues is done in November following the end of the fiscal year, but no adjustment is made to Stabilization Fund transfers if the final amount of capital gains taxes certified differs from the amount certified in the preceding July. The threshold is subject to annual adjustment to reflect the average annual rate of growth in U. S. gross domestic product over the preceding five years and is certified annually by the Department of Revenue each December for the ensuing fiscal year as part of the consensus revenue process.

In fiscal years 2015 and 2016, the Commonwealth temporarily suspended the requirement to transfer capital gains tax collections above the threshold to the Stabilization Fund, with all capital gains tax collections to remain in the General Fund.

On December 28, 2016, the Department of Revenue certified that the fiscal 2018 capital gains tax collections threshold was approximately \$1.169 billion. On July 24, 2018, the Department of Revenue certified that tax revenues estimated to have been collected from capital gains income during fiscal 2018 were \$1.683 billion. Accordingly, a total of approximately \$514 million has been transferred to the Commonwealth Stabilization Fund, with 5%, or approximately \$26 million of that total, transferred to the State Retiree Benefits Trust Fund and 5%, or approximately \$26 million of that total, transferred to the Commonwealth's Pension Liability Fund, and 90%, or \$463 million, remaining in the Commonwealth Stabilization Fund. See "SELECTED FINANCIAL DATA – Stabilization Fund."

On December 22, 2017, the Department of Revenue certified that the fiscal 2019 capital gains tax collections threshold is approximately \$1.212 billion. On October 15, 2018, the Department of Revenue issued a letter indicating that the year-to-date (July 1, 2018 through September 30, 2018) certification amount was \$261.3 million.

Sales and Use Tax. The sales tax rate imposed on retail sales of certain tangible property (including retail sales of meals) transacted in the Commonwealth and a corresponding use tax rate on the storage, use or other consumption of like tangible properties brought into the Commonwealth is 6.25%. Food, clothing, prescribed medicine, materials and produce used in food production, machinery, materials, tools and fuel used in certain industries and property subject to other excises (except for cigarettes) are exempt from sales taxation. The sales and use tax is also applied to sales of electricity, gas and steam for certain nonresidential use and to nonresidential and a portion of residential use of telecommunications services.

Certain sales tax receipts are required to be credited to the Convention Center Fund. The Convention Center Fund is not included in the calculation of revenues for budgeted operating funds. See "LONG-TERM LIABILITIES – Special Obligation Debt; *Convention Center Fund*."

A portion of the Commonwealth's receipts from the sales tax (other than the tax on meals) is dedicated through non-budgeted special revenue funds to the Massachusetts Bay Transportation Authority (MBTA) and the Massachusetts School Building Authority (MSBA). The amount dedicated to the MSBA is the amount raised by a 1% sales tax (not including meals). The amount dedicated to the MBTA is a comparable amount, subject to an inflation-adjusted floor, plus \$160 million annually. Effective commencing in fiscal 2015, the \$160 million adjustment was integrated into the inflation-adjusted floor, which was reset at \$970.6 million. The floor grows by the allowable base revenue growth (the lesser of sales tax growth or inflation, but not greater than 3% and not less than 0%) thereafter.

The Commonwealth's receipts from the sales tax on account of motor vehicle sales (net of amounts required to be credited to the Convention Center Fund or dedicated to the MBTA or MSBA) are dedicated to the Commonwealth Transportation Fund.

Legislation approved by the Governor in June, 2018 established an annual two-day sales and meals tax holiday in August of each year, commencing August, 2019. Legislation was also approved by the Governor in August, 2018 to establish a two-day sales tax holiday in August, 2018. In June, 2018, the Supreme Court of the United States issued a ruling in *South Dakota v. Wayfair* that effectively removes earlier constraints on states seeking to require out-of-state sellers to collect and remit sales tax. However, because the Commonwealth had previously established collect-and-remit agreements covering the majority of sales by out-of-state sellers to Massachusetts residents, and has proactively asserted the obligation to collect sales taxes from out-of-state sellers with economic scale in Massachusetts, the incremental impact of *South Dakota v. Wayfair* on Commonwealth tax revenues is expected to be limited. The revenue projections for budgeting purposes, as described under the heading "Tax Revenue Forecasting" below, include both existing and incremental collections on internet sales as a component of overall sales tax revenue.

Business Corporations Tax. Business corporations doing business in the Commonwealth, other than banks and other financial institutions, insurance companies, railroads and safe deposit companies, are subject to an excise

that has a property measure and an income measure. The value of Massachusetts tangible property (not taxed locally) or net worth allocated to the Commonwealth is taxed at \$2.60 per \$1,000 of value. The net income assigned to Massachusetts, which is based on net income for federal taxes, is taxed at 8.0%. The minimum tax is \$456.

In general, corporations apportion their income to Massachusetts based on the proportion of payroll, property and sales within the Commonwealth, with sales being double-weighted. This general rule does not apply to manufacturing companies or to mutual fund service corporations. The net income of such entities is apportioned only by the percentage of their Massachusetts sales.

Financial Institutions Tax. Financial institutions (which include commercial and savings banks) are subject to an excise tax. The net income assigned to Massachusetts is taxed at 9.0%. In general, financial institutions apportion their income to Massachusetts based on the proportion of receipts, payroll and property within the Commonwealth.

Insurance Taxes. Life insurance companies are subject to a 2% tax on gross premiums. Property and casualty insurance companies are subject to a 2.28% tax on gross premiums. Domestic property and casualty insurance companies also pay a 1% tax on gross investment income.

Other Taxes. Other tax revenues are derived by the Commonwealth from excise taxes on motor fuels, cigarettes and other tobacco products, alcoholic beverages, deeds, and hotel/motel room occupancy, as well as taxes on estates, among other tax sources. On November 8, 2016, voters approved an initiative petition that, among other things, imposes an excise tax, in addition to the regular sales tax, on retail sales of recreational marijuana and marijuana products, which that petition legalized. Legislation approved by the Governor on December 30, 2016 delayed the effective date of the new tax, and the first tax collections are now expected to occur in fiscal 2019. Legislation approved by the Governor on July 28, 2017 increased the maximum combined state and local tax rate on recreational marijuana from 12% to 20%. In late 2017, the Department of Revenue estimated that the Commonwealth's portion of the taxes (not including local option) from retail sales of recreational marijuana in fiscal 2019 may range from \$44 million to \$82 million, with a midpoint of \$63 million. However, due to delays in licensing, actual collections of marijuana tax revenues may be lower than originally projected.

Tax Credits and Other Incentives. Massachusetts law provides for a variety of tax credits that may be applied against corporate excise or personal income taxes due, as applicable under relevant law. These credits are designed as benefits for specified economic activities as a means to encourage such business in the state. Certain of these credits, to the extent not used to reduce a current tax liability, may be carried forward, transferred or refunded, as specified in the applicable statute. In addition, certain statutory provisions may also provide an exemption from sales and use taxes for qualifying expenditures, or other specified tax benefits.

The Governor annually publishes a "tax expenditure budget" that provides a list, description and revenue estimate of various tax credits, deductions and exemptions that represent departures from the basic provisions of the state tax code. A summary of the tax expenditure budget published on January 24, 2018 appears below.

Fiscal 2019 Tax Expenditure Budget Summary (in millions)

| Tax Type | Fiscal 2015 | Fiscal 2016 | Fiscal 2017 | Fiscal 2018 | Fiscal 2019 |
|--|----------------|----------------|----------------|-------------|----------------|
| Personal Income Tax | \$6,721.0 | \$7,090.0 | \$7,397.2 | \$7,754.2 | \$8,283.9 |
| Corporate and Other Business Excise | 1,826.4 | 2,039.0 | 2,089.9 | 2,129.6 | 2,158.8 |
| Sales and Use Tax | <u>4,686.3</u> | <u>4,557.3</u> | <u>4,705.0</u> | 4,903.8 | <u>5,085.9</u> |
| Total | \$13,233.7 | \$13,686.3 | \$14,192.1 | \$14,787.6 | \$15,528.6 |

Under legislation approved June 15, 2018, in support of the life sciences industry, up to \$30 million per year in tax incentives is available to certified life sciences companies over a 10-year period, commencing January 1, 2019 and ending on December 31, 2028, for an aggregate amount of \$300 million. The Department of Revenue estimates that this program, which previously had an annual cap of \$25 million, resulted in revenue reductions of \$16.5 million in fiscal 2013, \$16.5 million in fiscal 2014, \$12.9 million in fiscal 2015, \$15.9 million in fiscal 2016, \$16.9 million in fiscal 2017, and \$20.3 million in fiscal 2018. The Massachusetts Life Sciences Center board approved \$20 million in tax incentives that were expected to be utilized in fiscal 2019.

Tax Revenue Forecasting

Under state law, on or before October 15 of each year, the Secretary of Administration and Finance is required to submit to the Governor and to the House and Senate Committees on Ways and Means estimates of revenues available to meet appropriations and other needs in the current fiscal year and the following fiscal year.

On or before January 15 of each year (January 31 in the first year of a new Governor), the Secretary is required to develop jointly with the House and Senate Committees on Ways and Means a consensus tax revenue forecast for the following fiscal year. State finance law requires that the consensus tax revenue forecasts be net of the amounts necessary to fully fund the pension system according to the applicable funding schedule, and to fulfill statutory commitments to the MBTA and the MSBA. These amounts are to be transferred without further appropriation from the General Fund. See "Sales and Use Tax," above and "PENSION AND OPEB FUNDING."

An additional component of the consensus revenue process is the requirement that the consensus tax revenue forecast joint resolution include a benchmark for the estimated growth rate of Massachusetts potential gross state product, or PGSP. Health care cost control legislation requires that the Secretary and the House and Senate Committees on Ways and Means include a PGSP growth benchmark for the ensuing calendar year. PGSP is a measure of the "full employment" output of the Commonwealth's economy. The PGSP growth benchmark is used by the Massachusetts Health Policy Commission to establish the Commonwealth's health care cost growth benchmark. See "COMMONWEALTH EXPENDITURES – Medicaid and the Health Connector; *Health Care Cost Containment*."

The following table compares actual budgeted tax revenues to consensus tax revenue forecasts for fiscal 2014 to 2018. Figures for fiscal 2019 are projected. The figures include sales tax receipts dedicated to the MBTA and the MSBA and amounts transferred to the state pension system.

Tax Revenue Forecasting (in millions)

| | Fiscal 2014 | Fiscal 2015 | Fiscal 2016 | Fiscal 2017 | <u>Fiscal 2018</u> (4) | Projected Fiscal 2019 |
|--|-------------|-------------|-------------|-------------|------------------------|--------------------------|
| Consensus forecast | \$22,334 | \$24,337 | \$25,479 | \$26,860 | \$27,072 | \$27,594 |
| GAA assumption of tax-related settlements and judgments exceeding \$10 million | | | | | | |
| | - | 204 | 100 | 125 | 125 | 25 |
| Total taxes per enacted budget | \$22,797 | \$24,591 | \$25,711 | \$26,356 | <u>\$26,604</u> (2) | \$28,392 |
| October revision | - | - | - | 26,056 | - | |
| January revision | 23,200 | 24,325 | 25,751 | - | 26,761 (2)(3) | |
| Actual budgeted operating tax revenues (1) | | | | | | |
| | \$23,370 | \$24,932 | \$25,425 | \$25,662 | \$27,787 | |
| Actual revenues as a percentage of consensus forecast | 105% | 102% | 99.8% | 95.5% | 102.6% | |
| Actual revenues as a percentage of total taxes per enacted budget | 103% | 102% | 98.7% | 98.5% | 104.4% | |

SOURCE: Executive Office for Administration and Finance; actual budgeted operating tax revenues, Office of the Comptroller.

- (1) Actual revenues include tax-related settlements exceeding \$10 million each.
- (2) See discussion below. In fiscal 2018, the Commonwealth collected \$11 million in tax-related settlements and judgments exceeding \$10 million each.
- (3) Revised on January 12, 2018, including \$100 million for tax-related settlements and judgments exceeding \$10 million each.
- (4) Unaudited

On January 12, 2018, a fiscal 2019 consensus tax revenue estimate of \$27.594 billion was agreed upon by the Secretary of Administration and Finance and the chairs of the House and Senate Committees on Ways and Means. The fiscal 2019 consensus tax revenue estimate represented revenue growth of 3.5% from the revised fiscal 2018 estimate of \$26.661 billion certified by the Secretary also on January 12, 2018. The \$27.594 billion figure for fiscal 2019 included allocations of \$2.609 billion for pension funding, \$1.032 billion in dedicated sales tax receipts for the MBTA, \$858.9 million in dedicated sales tax receipts for the MSBA, and \$24.0 million for the Workforce Training Fund. The total amount of off-budget allocations was \$4.612 billion. Accordingly, after taking into account these off-budget allocations the Secretary and Committee chairs agreed that \$22.982 billion would be the maximum amount of tax revenue available for the fiscal 2019 budget. The consensus tax revenue estimate for fiscal 2019 assumed that another income tax reduction will be triggered, effective January 1, 2019, lowering the state personal income tax rate on most classes of taxable income to 5.05% from 5.10%. On July 26, 2018, the Governor approved the fiscal 2019 budget, which assumed tax revenues of \$28.392 billion (excluding tax-related settlements and judgments), based on the consensus estimate of \$27.594 billion, adjusted upwards by \$798.3 million, including an increase of \$131 million for the incremental impact of various tax law changes.

The Secretary of Administration and Finance and the chairs of the House and Senate Committees on Ways and Means also agreed upon a potential gross state product (PGSP) estimate of 3.6% for calendar 2019, which is identical to the PGSP figure that was adopted for calendar 2016 through 2018. The PGSP growth benchmark is to be used by the Health Policy Commission to establish the Commonwealth's health care cost growth benchmark. See "COMMONWEALTH EXPENDITURES – Medicaid and the Health Connector; *Health Care Cost Containment*."

Fiscal 2018 and Fiscal 2019 Tax Revenues

Fiscal 2018. Tax revenues for fiscal 2018 (including tax revenues allocated to pensions, the MBTA, the MSBA and the Workforce Training Fund, but excluding other non-budgeted tax revenues) totaled approximately \$27.787 billion, including \$11.0 million in one-time tax-related settlements and judgments, exceeding \$10 million each, an increase of approximately \$2.126 billion, or 8.3%, over fiscal 2017.

The following table shows the tax collections for fiscal 2018 and the change from tax collections in the prior year, both in dollars and as a percentage. The table also notes the amount of tax collections during the fiscal year that are dedicated to the MBTA and the MSBA.

Fiscal 2018 Tax Collections (in millions)

| Month July | Tax Collections \$1,797.1 1.711.9 | Change from Prior Year \$91.7 (25.2) | Percentage <u>Change</u> 5.4% (1.4) | MBTA <u>Portion</u> \$83.5 82.8 | MSBA <u>Portion</u> \$70.2 69.4 | Tax Collections: Net of MBTA and MSBA \$1,643.4 1.559.7 |
|---------------------|---|--------------------------------------|-------------------------------------|---------------------------------|--|---|
| August September | 2.845.4 | (23.2) 88.5 | 3.2 | 85.4 | 69.4 69.6 | 2.690.3 |
| October | 1.826.6 | 34.4 | 1.9 | 84.1 | 70.8 | 1.671.8 |
| November | 1.735.8 | 245.4 | 16.5 | 81.7 | 68.3 | 1,585.9 |
| December | 3.007.5 | 517.9 | 20.8 | 86.0 | 70.2 | 2.851.3 |
| January | 2,967.6 | 247.5 | 9.1 | 96.0 | 82.6 | 2,789.0 |
| February | 1,269.1 | 96.7 | 8.2 | 77.2 | 63.9 | 1,127.9 |
| March | 2,241.2 | (48.9) | (2.1) | 78.5 | 63.1 | 2,099.7 |
| April | 3,304.2 | 449.8 | 15.8 | 80.9 | 67.5 | 3,155.8 |
| May | 1,942.1 | 21.0 | 1.1 | 86.0 | 72.7 | 1,783.4 |
| June | 3,138.8 | 406.7 | 14.9 | 86.0 | 79.6 | 2,973.2 |
| Total (1) | <u>\$27,787.2</u> | <u>\$2,125.5</u> | <u>8.3%</u> | <u>\$1,007.9</u> | <u>\$847.9</u> | <u>\$25,931.3</u> |

SOURCE: Executive Office for Administration and Finance.

The tax revenue increase of approximately \$2.126 billion from fiscal 2017 to fiscal 2018 is attributable, in large part, to an increase of approximately \$761.9 million, or 6.4%, in withholding collections, an increase of approximately \$764.8 million, or 32.2%, in income tax estimated payments, an increase of approximately \$205.4 million, or 10.6%, in income tax payments with bills and returns, an increase of approximately \$217.9 million, or 8.5%, in corporate and business tax collections, an increase of approximately \$242.7 million, or 3.9%, in sales and use tax collections, and a net increase of approximately \$109.1 million, or 4.9%, in all other taxes, which were partly offset by an increase of approximately \$175.9 million, or 11.0%, in income tax cash refunds. Fiscal 2018 collections from one-time tax related settlements and judgments exceeding \$10 million each totaled \$11.0 million. Excluding these payments, fiscal 2018 tax collections were approximately \$1.115 billion above the benchmark associated with the revised fiscal 2018 tax revenue estimate of \$26.661 billion.

A provision in the fiscal 2018 budget required that the Comptroller record in fiscal 2018 on the statutory basis of accounting certain sales tax revenues received in July, 2018, that under Massachusetts General Law and the Comptroller's revenue recognition policy would normally be recorded as fiscal 2019 revenue. The result of this provision was that 13 months of such sales tax revenue would be recorded in fiscal 2018. This requirement was repealed. See "COMMONWEALTH BUDGET AND FINANCIAL MANAGEMENT CONTROLS – Fiscal Control, Accounting and Reporting Practices of the Comptroller; *Statutory Basis of Accounting*."

Fiscal 2019. The fiscal 2019 General Appropriations Act was based on estimated tax collections of \$28.392 billion, including revenues dedicated to the MBTA, the MSBA and the Workforce Training Fund, excluding large tax-related settlements and judgments.

The following table shows the tax collections for the first four months of fiscal 2019 and the change from tax collections in the same period in the prior year, both in dollars and as a percentage. The table also notes the amount of tax collections during the fiscal year that are dedicated to the MBTA and the MSBA.

⁽¹⁾ Totals may not add due to rounding.

Fiscal 2019 Tax Collections (in millions)

| Month | Tax Collections | Change from <u>Prior Year</u> | Percentage <u>Change</u> | MBTA Portion | MSBA Portion | Tax Collections: Net of MBTA and MSBA |
|-------------|------------------|----------------------------------|-----------------------------|----------------|-----------------|---------------------------------------|
| July | \$1,914.0 | \$116.9 | 6.5% | \$86.5 | \$73.2 | \$1,754.3 |
| August | 1,842.3 | 130.4 | 7.6 | 88.0 | 74.7 | 1,679.6 |
| September | 3,262.6 | 417.2 | 14.7 | 84.4 | 71.1 | 3,107.0 |
| October (1) | 1,913.5 | 86.9 | 4.8 | 74.2 | 74.2 | 1,765.1 |
| Total (2) | <u>\$8,932.3</u> | <u>\$751.3</u> | <u>9.2%</u> | <u>\$333.2</u> | <u>\$293.2</u> | <u>\$8,306.0</u> |

SOURCE: Executive Office for Administration and Finance.

The year-to-date tax revenue increase of approximately \$751.3 million through October 31, 2018 from the same period in fiscal 2017 is attributable, in large part, to an increase of approximately \$124.3 million, or 3.2%, in withholding collections, an increase of approximately \$105.8 million, or 17.2%, in income tax estimated payments, an increase of approximately \$38.8 million, or 17.4%, in income tax payments with bills and returns, a decrease of approximately \$30.3 million, or 12.8%, in income tax cash refunds, an increase of approximately \$162.4 million, or 23.3%, in corporate and business tax collections, an increase of approximately \$106.8 million, or 4.9%, in sales and use tax collections, and a net increase of approximately \$182.9 million, or 23.9%, in all other taxes. Excluding one-time tax related settlements and judgments exceeding \$10 million each, fiscal 2019 year to date tax collections were approximately \$8.888 billion, \$362 million above the benchmark associated with the fiscal 2019 tax revenue estimate of \$28.392 billion.

Federal and Other Non-Tax Revenues

Federal revenues are collected through reimbursements for the federal share of entitlement programs such as Medicaid and through block grants for programs such as Transitional Assistance to Needy Families (TANF). The amount of federal reimbursements to be received is determined by state expenditures for these programs. The Commonwealth receives reimbursement for approximately 50% of its spending for Medicaid programs. Block grant funding for TANF is received quarterly and is contingent upon a maintenance-of-effort spending level determined annually by the federal government. Budgeted fund federal reimbursements were \$11.377 billion in fiscal 2018 and are projected to be \$11.575 billion in fiscal 2019.

Departmental and other non-tax revenues are derived from a large number of sources, including but not limited to fees and assessments for services, licenses, and reimbursements. For fiscal 2018, budgeted fund departmental and other non-tax revenues were \$5.179 billion. The largest budgeted departmental revenues, assessments and miscellaneous revenues in fiscal 2018 included \$1.355 billion in drug rebates, recoveries and other fees, \$880 million in reimbursements from cities, towns and non-state entities for retiree benefits, \$613 million for Registry of Motor Vehicles fees, fines and assessments, and \$245 million from filing, registration and other fees paid to the Secretary of State's office. Budgeted fund departmental and other non-tax revenues are projected to be \$5.116 billion in fiscal 2019.

Lottery Revenues. For the budgeted operating funds, inter-fund transfers include transfers of net operating revenues from the State Lottery and Gaming Fund and the Arts Lottery Fund and reimbursements for the budgeted costs of the State Lottery Commission, which accounted for transfers from the Lottery of \$1.069 billion, \$1.086 billion, \$1.092 billion, \$1.136 billion and \$1.097 billion in fiscal 2014 through 2018, respectively.

The following table shows Lottery revenues and profits for fiscal 2019.

⁽¹⁾ Figures are preliminary.

⁽²⁾ Totals may not add due to rounding.

Fiscal 2019 Monthly Lottery Revenues and Profits (in thousands) (1)

| <u>Month</u> | Revenues | <u>Prizes</u> | Subtotal Operating <u>Expenses</u> | Operating <u>Revenues</u> | Administrative <u>Expenses</u> | Net Profit before <u>Distributions</u> |
|-------------------|-------------|---------------|--|---------------------------|-----------------------------------|---|
| July | \$404,534 | \$296,140 | \$23,319 | \$85,075 | \$4,106 | \$ 80,969 |
| August | 494,492 | 350,556 | 28,299 | 115,637 | 6,854 | 108,783 |
| September | 394,967 | 287,978 | 22,602 | 84,387 | 6,928 | 77,459 |
| October | 479,393 | 327,649 | 26,813 | 124,931 | 7,202 | 117,729 |
| Total | \$1,773,387 | \$1,262,324 | \$101,033 | \$410,031 | \$25,090 | \$384,941 |
| YTD prize accrual | - | 3,645 | - | (3,645) | - | (3,645) |
| Adj Totals | \$1,773,387 | \$1,265,969 | \$101,033 | \$406,386 | \$25,090 | \$381,296 |

Source: State Lottery Commission; Monthly values from the State Lottery Commission Statement of Operations. (1) Preliminary and subject to change.

A five-year history of Lottery revenues and profits is shown in the following table as well as current projections for fiscal 2019.

Lottery Revenues and Profits (in thousands)

| Fiscal Year | Net Operating | | | | | |
|-------------|---------------|-------------|-------------|--|--|--|
| | Revenues | Revenues | Net Profits | | | |
| 2019 (1) | \$5,181,733 | \$1,076,744 | \$ 965,037 | | | |
| 2018 | 5,291,951 | 1,097,398 | 997,057 | | | |
| 2017 | 5,097,765 | 1,136,203 | 1,039,697 | | | |
| 2016 | 5,233,931 | 1,092,130 | 989,411 | | | |
| 2015 | 5,014,535 | 1,086,469 | 985,879 | | | |
| 2014 | 4,863,373 | 1,069,958 | 974,562 | | | |
| | | | | | | |

Source: State Lottery Commission

Fiscal 2019 figures are projected. These numbers are under review and may be adjusted.
 Minor adjustments to Lottery revenues are reported several times a year based upon trends.

Tobacco Settlement. In November, 1998, the Commonwealth joined with other states in a master settlement agreement that resolved the Commonwealth's and other states' litigation against the cigarette industry. Under the agreement, cigarette companies have agreed to make both annual payments (in perpetuity) and five initial payments (for calendar 1999 to 2003, inclusive) to the settling states. Each payment amount is subject to applicable adjustments, reductions and offsets, including upward adjustments for inflation and downward adjustments for decreased domestic cigarette sales volume.

The Commonwealth's allocable share of the base amounts payable under the master settlement agreement is approximately 4.04%, which equals more than \$8.962 billion through fiscal 2024, subject to adjustments, reductions and offsets. However, since fiscal 2006 certain amounts have been withheld from each year's payments by tobacco manufacturers who claim that because of certain developments they are entitled to reduce such payments under the master settlement agreement. Those withheld amounts ranged from \$21 million to \$35 million to the Commonwealth in the period from 2006 through 2012, inclusive. A smaller amount has been withheld for 2013 through 2016, inclusive. The Commonwealth believes it is due the full amount and is pursuing its claim to unreduced payments. See "Legal Matters – Other Revenues." The Commonwealth was also awarded \$414.3 million from a separate Strategic Contribution Fund established under the master settlement agreement to reward certain states' particular contributions to the national tobacco litigation effort. This additional amount, also subject to a number of adjustments, reductions and offsets, was payable in equal annual installments during the years 2008 through 2017, inclusive. Massachusetts received its final Strategic Contribution Fund payment in April, 2017.

From fiscal 2003 through fiscal 2012, all payments received by the Commonwealth pursuant to the master settlement agreement were deposited in the General Fund. Since fiscal 2012, state law has stipulated that a portion of annual tobacco settlement revenues be deposited into the State Retiree Benefits Trust Fund. See "PENSION AND OPEB FUNDING – Other Post-Employment Benefit Obligations (OPEB)."

The following table sets forth the tobacco settlement amounts received by the Commonwealth to date.

Payments Received Pursuant to the Tobacco Master Settlement Agreement (in millions) (1)

| Fiscal Year | Initial Payments | Annual Payments | Total Payments |
|-------------|-------------------------|------------------------|-----------------------|
| 2000 | \$186.6 (2) | \$139.6 | \$326.2(2) |
| 2001 | 78.2 | 164.2 | 242.4 |
| 2002 | 82.8 | 221.7 | 304.5 |
| 2003 | 86.4 | 213.6 | 300.0 |
| 2004 | - | 253.6 | 253.6 |
| 2005 | - | 257.4 | 257.4 |
| 2006 | - | 236.3 | 236.3 |
| 2007 | - | 245.4 | 245.4 |
| 2008 | - | 288.5 | 288.5 |
| 2009 | - | 315.2 | 315.2 |
| 2010 | - | 263.7 | 263.7 |
| 2011 | - | 248.7 | 248.7 |
| 2012 | - | 253.6 | 253.6 |
| 2013 | - | 253.5 | 253.5 |
| 2014 | - | 282.1 | 282.1 |
| 2015 | - | 245.8 | 245.8 |
| 2016 | - | 257.6 | 257.6 |
| 2017 | - | 254.5 | 254.5 |
| 2018 | Ξ | 243.3 | <u>243.3</u> |
| Total | <u>\$434. 0</u> | <u>\$4,638.3</u> | <u>\$5,072.3</u> |

SOURCE: Office of the Comptroller.

Settlements and Judgments. State finance law provides that any one-time settlement or judgment exceeding \$10 million is to be deposited in the Stabilization Fund to the extent that the total of all such one-time settlements and judgments in a fiscal year exceeds the average of such totals for the five preceding fiscal years. The amount of such one-time settlements and judgments totaled approximately \$436.5 million in fiscal 2014, \$226.1 million in fiscal 2015, \$155.3 million in fiscal 2016, \$111.6 million in fiscal 2017 and \$36.6 million in fiscal 2018. The threshold applicable in fiscal 2019 is \$193.2 million (average of fiscal 2014 through fiscal 2018).

⁽¹⁾ Amounts are approximate. Totals may not add due to rounding.

⁽²⁾ Payments received for both 1999 and 2000.

On November 2, 2018, the Commissioner of Revenue and the Attorney General certified that the Commonwealth had received \$38.7 million in one-time settlement and judgment payments exceeding \$10 million (all of which were tax-related) during the first four months of fiscal 2019.

In fiscal 2013 and fiscal 2014, projected tax-related settlements or judgments exceeding \$10 million were included as part of the consensus revenue estimate. Beginning in fiscal 2015, such settlements or judgments have been counted separately from the consensus revenue estimate in the General Appropriations Act.

Gaming. On November 22, 2011, the Governor approved legislation that authorized the licensing of up to three regional resort casinos (one per region) and one slot facility (up to 1,250 slots) in the Commonwealth. The legislation established an appointed, independent state Gaming Commission to oversee the implementation of the law and the regulation of the resultant gaming facilities. The legislation also provided that licensing fees collected by the Gaming Commission are to be applied to a variety of one-time state and local purposes, and gaming revenues received by the Commonwealth are to be applied to various funds created by the legislation. The legislation stipulates that initial licensing fees, which are set by the Gaming Commission, must be at least \$85 million per casino (Category 1 license) and \$25 million for the slot facility (Category 2 license). According to the Gaming Commission, aggregate state tax revenues from gaming licenses are expected to total approximately \$300 million per year once the facilities are operational.

The Gaming Commission entered into agreements with the Category 1 licensees in two of the three regions, pursuant to which the licensees each received a license effective on November 7, 2014. The \$85 million license fees were paid by each licensee in November, 2014. The facility in Springfield (Region B) opened on August 24, 2018; the facility in Everett (Region A) is expected to be operational in calendar 2019.

The Category 2 slot facility opened on June 24, 2015. In fiscal 2017, the facility generated approximately \$158.3 million in gross gaming revenue, resulting in \$63.4 million in budgetary fund taxes collected by the Commonwealth. In fiscal 2018, the facility generated approximately \$170 million in gross gaming revenue, resulting in \$68.0 million in budgetary fund taxes collected by the Commonwealth.

Fiscal 2019 Monthly Gaming Revenues (in thousands) (1)

| | Category 1 Gross Gaming | Category 1 Total Collected State | Category 2 Slot Gross Gaming | Category 2 Total Collected State | Category 2 Race Horse | Statewide Gross Gaming | Statewide Budgetary Taxes & Race Horse |
|--------------|-------------------------------|---|------------------------------------|---|--------------------------|------------------------------|---|
| <u>Month</u> | Revenue (2) | <u>Taxes</u> (3) | Revenue (2) | <u>Taxes</u> (4) | Assessments (5) | Revenue (6) | Assessments (6) |
| July | \$ - | \$ - | \$ 15,150 | \$ 6,060 | \$ 1,365 | \$ 15,150 | \$ 7,425 |
| August | 9,457 | 2,364 | 15,380 | 6,152 | 1,384 | 24,837 | 9,900 |
| September | 26,952 | 6,738 | 14,319 | 5,728 | 1,289 | 41,271 | 13,755 |
| October | 22,243 | 5,561 | 13,526 | 5,410 | 1,217 | 35,769 | 12,188 |
| Total (6) | \$58,659 | \$14,663 | \$58,374 | \$23,350 | \$5,255 | \$117,027 | \$43,268 |

Source: Massachusetts Gaming Commission, Revenue Reports through October 2018.

- (1) Preliminary and subject to change.
- (2) "Gross gaming revenue" is the total of all sums actually received from gaming operations, less the total of all sums paid out as winnings.
- (3) Each Category 1 licensee pays a tax of 25% of gross gaming revenues.
- (4) Each Category 2 licensee pays a tax of 40% of gross gaming revenues.
- (5) Each Category 2 licensee pays an assessment of 9% of gross gaming revenue.
- (6) Totals may not sum due to rounding.

In March, 2016, the Mashpee Wampanoag tribe announced that it would commence construction of a tribal resort casino in the third region (Region C), based upon the assumed power of the U. S. Secretary of the Interior to take land into trust for the tribe. On April 28, 2016, the Gaming Commission voted to deny an application for a Category 1 license in Region C. On July 28, 2016, in the case of *Littlefield v. the U. S. Department of the Interior*, the U. S. District Court held that the Secretary of the Interior lacked the authority to take land into trust for the Mashpee Wampanoag tribe and remanded the matter back to the Secretary of the Interior for further proceedings consistent with the opinion as well as the declaratory judgment entered. The U.S. Bureau of Indian Affairs filed a

motion for reconsideration, which was denied by the District Court, and the Mashpee Wampanoag filed a motion to intervene, which was granted. In December, 2016, the U. S. Department of the Interior and the Mashpee Wampanoag each filed a notice of appeal to the U. S. Court of Appeals for the First Circuit. On April 24, 2017, the Mashpee Wampanoag filed an assent to motion to stay briefing pending the revised decision from the Department of the Interior. On May 8, 2017, the Department of the Interior moved to withdraw its appeal. The Mashpee Wampanoag have asked the Court of Appeals to stay the matter further pending a decision from the Department of the Interior, and the Court has agreed to the requested stay. On July 25, 2018, the U.S. House of Representative Subcommittee on Indian, Insular and Alaska Native Affairs held a hearing on proposed legislation (H.R. 5244) that would allow the Mashpee Wampanoag land to remain in trust. No action has yet been taken on this legislation. On September 7, 2018, the Department of the Interior issued a revised land-in-trust decision concluding that the Mashpee Wampanoag did not meet the statutory requirements to have land taken into trust. The Mashpee Wampanoag filed an appeal of this decision in the U.S. District Court for the District of Columbia; they have asked the First Circuit Court of Appeals to further extend the stay in the appeal currently pending before the First Circuit. The Gaming Commission will continue to monitor this matter.

On June 6, 2018, the unsuccessful applicant in Region C sent a letter to the Gaming Commission requesting that the Gaming Commission reconsider its unsuccessful application filed in 2015 and denied by the Gaming Commission on April 28, 2016. The Gaming Commission acknowledged the applicant's letter at its July 26, 2018 meeting and subsequently requested public comments on the issues raised therein. The comment period will conclude on November 30, 2018. Once the comment period closes, the Gaming Commission will review any comments and consider next steps.

Various municipalities have filed suit contesting certain aspects of the Gaming Commission's issuance of the Region A Category 1 license. Certain of these claims have been dismissed, either voluntarily or by order of the Massachusetts Superior Court. The Gaming Commission currently is defending the remaining intervenor claim filed by Mohegan Sun and the appeals filed by the City of Revere and the individuals who filed an open meeting law claim as part of the City of Revere litigation. That claim and those appeals were argued before the Massachusetts Supreme Judicial Court in November, 2016. On March 10, 2017, the Supreme Judicial Court issued a decision affirming Mohegan Sun's intervenor claim, reversing the Superior Court's dismissal of the open meeting law claim, and remanding the case to the Superior Court for further proceedings. Briefing on Mohegan Sun's intervenor claim was completed in January, 2018; arguments before the Superior Court should occur in 2019. Since the completion of the briefing on Mohegan Sun's intervenor claim, Mohegan Sun has filed a motion to amend its complaint. The Gaming Commission opposed this motion and, on July 16, 2018, the Superior Court allowed Mohegan Sun's motion in part and denied it in part, thus granting Mohegan Sun the right to add additional information to its existing complaint. Discovery on the open meeting law claim has concluded; however, the open meeting law plaintiffs have requested that the Superior Court allow further discovery. The motion will be argued in December, 2018. It is anticipated that motions for summary judgment on the open meeting law claim will be argued in March, 2019. The Gaming Commission is proceeding with its defense of these claims.

On November 14, 2016, the Gaming Commission was sued for tortious interference with respect to the plaintiff's agreement to sell property to the licensee for the Region A Category 1 facility. The plaintiff is requesting damages as determined at trial. On April 7, 2017, the Gaming Commission filed a motion to dismiss the suit, which was granted by the Massachusetts Superior Court on June 7, 2017; however, the plaintiff filed an amended complaint while the Superior Court was in the process of issuing its decision. The Superior Court's decision stands and the Gaming Commission filed a motion to dismiss the claims in the amended complaint. The Gaming Commission's motion to dismiss was argued in October, 2017. The Superior Court denied the Gaming Commission's motion in part and asked for further briefing on a jurisdictional issue from both parties. In lieu of a briefing on the jurisdictional issue, the case was transferred by agreement of the parties from Suffolk County to Middlesex County. The case was reargued on March 23, 2018. On May 14, 2018, the Superior Court granted the Gaming Commission's motion to dismiss on two of three remaining claims. The Gaming Commission filed a motion asking the Superior Court to reconsider its decision not to dismiss the remaining claim. That motion was denied. The plaintiff has served the Gaming Commission with its initial discovery on the remaining claim. The Gaming Commission is proceeding with its defense of this claim. On July 5, 2018, the Gaming Commission filed a third party complaint against the Region A Category 1 licensee for unjust enrichment and indemnification on the remaining claim. The Region A Category 1 licensee has until December 31, 2018 to file its response to the third party complaint.

In January, 2018, the Gaming Commission instituted an investigation into certain public allegations related to the former chief executive officer of the parent company of the Region A Category 1 licensee. Since the commencement of the investigation, the president of the parent company has been named its chief executive officer and president, and the general counsel of the parent company has resigned. In April, 2018, the parent company elected three new directors to replace directors who had resigned or elected not to stand for re-election to the board of directors. In July 2018, the parent company appointed a new general counsel. The investigation is ongoing. Once the investigation is complete, the Gaming Commission will hold an adjudicatory hearing on the results of the investigation and issue a written decision.

Limitations on Tax Revenues

Chapter 62F of the General Laws establishes a state tax revenue growth limit for each fiscal year equal to the average positive rate of growth in total wages and salaries in the Commonwealth, as reported by the federal government, during the three calendar years immediately preceding the end of such fiscal year. The growth limit is used to calculate "allowable state tax revenue" for each fiscal year. Chapter 62F also requires that allowable state tax revenues be reduced by the aggregate amount received by local governmental units from any newly authorized or increased local option taxes or excises. Any excess in state tax revenue collections for a given fiscal year over the prescribed limit, as determined by the State Auditor, is to be applied as a credit against the then-current personal income tax liability of all taxpayers in the Commonwealth in proportion to the personal income tax liability of all taxpayers in the Commonwealth for the immediately preceding tax year. The law does not exclude principal and interest payments on Commonwealth debt obligations from the scope of its tax limit. However, the preamble contained in Chapter 62F provides that "although not specifically required by anything contained in this chapter, it is assumed that from allowable state tax revenues as defined herein the Commonwealth will give priority attention to the funding of state financial assistance to local governmental units, obligations under the state governmental pension systems and payment of principal and interest on debt and other obligations of the Commonwealth."

The following table sets forth the Commonwealth's net state tax revenues and allowable state tax revenues, as defined in Chapter 62F, for fiscal 2013 through fiscal 2017.

| | Net State Tax Revenues | Allowable State Tax Revenues | Net State Tax Revenues (under) Allowable State Tax Revenues |
|------|------------------------|------------------------------|---|
| 2017 | \$26,044,206,400 | \$31,095,184,910 | (\$5,050,978,510) |
| 2016 | 25,801,807,368 | 29,477,204,724 | (3,675,397,356) |
| 2015 | 25,239,065,862 | 28,071,638,151 | (2,832,572,289) |
| 2014 | 23,666,801,084 | 27,048,676,153 | (3,381,875,070) |
| 2013 | 22,397,185,749 | 26,074,941,366 | (3,677,755,617) |
| | | | |

SOURCES: State Auditor's Office.

COMMONWEALTH EXPENDITURES

This section contains a description of the major categories of Commonwealth expenditures. All percentages and amounts for fiscal 2018 are unaudited, and for fiscal 2019 are projected.

Local Aid

Commonwealth Financial Support for Local Governments. The Commonwealth makes substantial payments to its cities, towns and regional school districts (local aid) to mitigate the impact of local property tax limits on local programs and services. See "Property Tax Limits" below. Local aid payments to cities, towns and regional school districts take the form of both direct and indirect assistance. Direct local aid consists of general revenue sharing funds and specific program funds sent directly to local governments and regional school districts. The Commonwealth's budget for fiscal 2019 provides \$6.354 billion of state-funded direct and indirect local aid to municipalities.

A large portion of general revenue sharing funds is earmarked for public education and is distributed through a formula designed to ensure that each district reaches at least a minimum level of "foundation" spending per public education pupil. The fiscal 2019 budget includes state funding for so-called "Chapter 70" public education aid of \$4.907 billion. This level of funding brings all school districts to the foundation level, ensures that all local educational authorities receive an increase of funding of at least \$30 per pupil, and is an increase of \$160.6 million over fiscal 2018.

The other major component of direct local aid is unrestricted general governmental aid, which provides unrestricted funds for municipal use. The fiscal 2019 budget provides for \$1.099 billion in unrestricted general government aid, which was allocated to provide a 3.5% increase over fiscal 2018 levels to all municipalities.

Property Tax Limits. In November, 1980, voters in the Commonwealth approved a statewide tax limitation initiative petition, commonly known as Proposition 2½, to constrain levels of property taxation and to limit the charges and fees imposed on cities and towns by certain governmental entities, including county governments. Proposition 2½ is not a provision of the state constitution and accordingly is subject to amendment or repeal by the Legislature. Proposition 2½, as amended to date, limits the property taxes that may be levied by any city or town in any fiscal year to the lesser of (i) 2.5% of the full and fair cash valuation of the real estate and personal property therein or (ii) 2.5% over the previous year's levy limit plus any growth in the tax base from certain new construction and parcel subdivisions. The law contains certain voter override provisions and, in addition, permits debt service on specific bonds and notes and expenditures for identified capital projects to be excluded from the limits by a majority vote at a general or special municipal election. Between fiscal 1981 and fiscal 2018, the aggregate property tax levy across all cities and towns grew from \$3.347 billion to \$16.541 billion, a compound annual growth rate of 4.36%.

Medicaid and the Health Connector

Many of the Commonwealth's healthcare programs and expenditures are governed by the federal Affordable Care Act (ACA), to which strong opposition has been expressed by President Trump, the Secretary of the U. S. Department of Health and Human Services, and the current legislative leaders in Congress. In December, 2017, Congress eliminated the financial penalty under the ACA's individual shared responsibility provision, otherwise known as the individual mandate. In February, 2018, Congress enacted legislation that both deferred the commencement and accelerated the full implementation of reductions in federal reimbursement for hospitals that treat a disproportionate number of Medicaid recipients. To date, such measures have not had or are not expected to have a material adverse impact on the Commonwealth and its health care programs; however, additional measures have been proposed which, if enacted into law, could have a material adverse impact on the Commonwealth. While it is not possible to predict with any certainty the impact of the recent federal elections on the ACA, and whether or when any other provisions of the ACA may be, in whole or in part, modified, repealed, or withdrawn, any such measures could have a material adverse effect on the Commonwealth's healthcare programs and expenditures. Accordingly, the following discussion should be read with the understanding that significant additional changes could occur in the near future and beyond with respect to many of the programs discussed. See "FISCAL 2018 AND FISCAL 2019 – Fiscal 2018."

MassHealth. The Commonwealth's Medicaid program, called MassHealth, provides health care to 1.9 million low-income children and families, low-income adults, disabled individuals and low-income elders. The program, administered by the Office of Medicaid within the Executive Office of Health and Human Services, generally receives 50% in federal reimbursement on most expenditures for adults, and 88% in federal reimbursement on most expenditures for children's benefits reimbursable under the Children's Health Insurance Program (CHIP). On February 9, 2018, CHIP was reauthorized through federal fiscal 2027. For Massachusetts, the CHIP matching rate is 88% for federal fiscal 2019, then drops to 76.5% in federal fiscal 2020 and 65% for federal fiscal 2021 and beyond. Under the ACA, beginning January 1, 2014, MassHealth began receiving enhanced federal reimbursement for spending on the new adult group (generally, childless adults with incomes under 133% of the federal poverty limit). In calendar 2018, the federal reimbursement rate for this group is 90%. The reimbursement rate for this group is scheduled to increase to 93% in calendar 2019, and then to level off at 90% in calendar 2020 and beyond.

The fiscal 2019 budget as approved in July, 2018 and amended in October, 2018 includes \$17.0 billion in funding for non-administrative spending for the MassHealth program. The \$17.0 billion includes \$16.2 billion in programmatic spending, including costs related to the settlement of a claim against the Commonwealth. See "LEGAL MATTERS – Programs and Services; *Hutchinson et al. v. Patrick et al.*" The \$17.0 billion also includes approximately \$754 million to support supplemental payments to providers. Fiscal 2019 estimated programmatic spending as of September, 2018 is \$16.4 billion, which exceeds the fiscal 2019 budget by \$21 million net.

Budgeted Operating Funds Medicaid Expenditures and Enrollment (in millions)

| | <u>Fiscal 2014</u> (1) | <u>Fiscal 2015</u> (2) | Fiscal 2016 | Fiscal 2017 | <u>Fiscal 2018</u> (3),(6) | <u>Projected</u> Fiscal 2019 (7) |
|--|------------------------|------------------------|-------------|-------------|----------------------------|-------------------------------------|
| Medicaid program expenses | \$11,900.8 | \$13,681.9 | \$14,851.0 | \$15,251.7 | \$15,744.5 | \$16,356.3 |
| Medicaid administrative expenses | \$86.7 | \$87.3 | \$93.0 | \$97.3 | \$98.3 | \$104.1 |
| Total expenditures (4) | \$11,987.5 | \$13,769.2 | \$14,944.0 | \$15,349.0 | \$15,842.8 | \$16,460.4 |
| Annual percentage growth in total expenditures | 10.1% | 14.9% | 8.5% | 2.7% | 3.2% | 3.9% |
| Enrollment (in average member months) (5) | 1,592,050 | 1,907,366 | 1,861,298 | 1,892,195 | 1,856,737 | 1,875,954 |
| Annual percentage growth in enrollment | 13.5% | 19.8% | (2.4%) | 1.7% | (1.8%) | 1.0% |

SOURCE: Fiscal 2014-2018 (excluding Medicaid administrative expense and enrollment), Office of the Comptroller; fiscal 2014-2018 (Medicaid administrative expense and enrollment only) and fiscal 2019, Executive Office of Health and Human Services.

Commonwealth Health Insurance Connector Authority. State health care reform legislation enacted in 2006 created the Commonwealth Health Insurance Connector Authority (Health Connector). The Health Connector is governed by a board, of which the Secretary of Health and Human Services is the chairperson and the Secretary of Administration and Finance is also a member, each *ex officio*. Most of the funding to support the Health Connector and its programs is paid from the Commonwealth Care Trust Fund (CCTF), which is supported by dedicated revenue sources. The Health Connector is also responsible for policy development relative to the Affordability

⁽¹⁾ Fiscal 2014 figures include spending and enrollment growth for a half year of ACA implementation; enrollment figures include the temporary Medicaid coverage population starting January 1, 2014 through the end of the fiscal year.

⁽²⁾ Fiscal 2015 figures include spending and enrollment coverage for a full year of ACA implementation; enrollment figures include the temporary Medicaid coverage population through February 23, 2015.

⁽³⁾ Reflects final fiscal 2018 spending as of September, 2018; account restructuring in fiscal 2018 budget shifted spending for the Choices program (\$214 million in fiscal 2017) from MassHealth to Elder Affairs.

⁽⁴⁾ Total expenditures exclude supplemental payments to providers.

⁽⁵⁾ Enrollment in prior fiscal years changes due to the effects of redeterminations, retroactive eligibility, application verification, and eligibility appeals.

⁽⁶⁾ Unaudited.

⁽⁷⁾ Reflects fiscal 2019 estimated spending as of September, 2018.

Schedule and Minimum Credible Coverage rules and public education and outreach, including the ACA-required Navigator program.

The Health Connector administers the Commonwealth's Health Insurance Marketplace under the ACA. As the Commonwealth's Marketplace, the Health Connector offers qualified health plans to individuals and small businesses. Individuals with incomes under 400% of the federal poverty level (FPL) are eligible for federal tax credits, and certain small businesses shopping through the Marketplace can access federal small business health care tax credits for up to two years. Individuals with incomes between 133% and 300% FPL, as well as certain Aliens with Special Status (AWSS) with incomes between 0% and 300% FPL, have access to additional state and federal subsidies through a program called ConnectorCare. The state provides additional state subsidies via ConnectorCare to ensure that the premiums and point-of-service cost sharing for certain low-income members, after factoring in federal subsidies, are similar to what was available through the Commonwealth Care program.

Total Health Connector gross spending in fiscal 2018 is estimated to have been \$279.9 million, an increase of \$43.0 million from fiscal 2017 gross spending of \$236.9 million. Fiscal 2018 spending for the Health Connector, net of federal revenue, is estimated to have been \$174.6 million, an increase of \$21.3 million compared to \$153.4 million in fiscal 2017.

The fiscal 2019 budget for the Health Connector reflects \$347 million in gross spending. Net of federal revenue, fiscal 2019 expenditures are estimated to be \$210 million, an increase of \$34.9 million compared to fiscal 2018. The fiscal 2019 budget for the Health Connector is expected to be fully funded from dedicated revenues in the CCTF.

Federal 1115 MassHealth Demonstration Waiver. Section 1115 of the Social Security Act gives the U. S. Secretary of Health and Human Services authority to waive provisions of major health and welfare programs, including certain Medicaid requirements, and to allow a state to use federal Medicaid funds in ways that are not otherwise allowed under federal rules. The Commonwealth's 1115 waiver was renewed on November 4, 2016. The renewal consisted of an amendment to the current 1115 waiver, which was effective through June 30, 2017, as well as a five-year waiver extension. This waiver extension is authorized from July 1, 2017 through June 30, 2022. The waiver extension is a \$52.4 billion agreement that supports a restructuring of the MassHealth program and is expected to bring in significant federal investment to support health care delivery system reforms. The agreement also extends eligibility and benefit provisions authorized under the waiver, such as coverage for diversionary behavioral health benefits and for individuals with HIV. The waiver extension includes more than \$29 billion in revenue to the Commonwealth through federal financial participation. Additionally, the waiver extension expands services for substance use disorder treatment.

The 1115 waiver extension also preserves and maintains the stability of the Safety Net Care Pool (SNCP) for the full five years of the waiver period with an \$8 billion authorization. This authorization includes a \$1.8 billion investment of new Delivery System Reform Incentive Program (DSRIP) funding that will support MassHealth's payment reform objectives. The SNCP renews authority for the Health Safety Net program, which makes payments to hospitals and community health centers for providing certain health care services to their low-income patients who are not eligible for health insurance or cannot afford it. Under the new SNCP, supplemental payments for safety net hospitals have been restructured and linked to delivery system reform participation. The number of hospitals eligible for these payments increased from seven in the previous waiver to 14 in the waiver extension. In addition, the SNCP expands authority for federal match to include cost-sharing affordability subsidies and enrollment gap coverage for Health Connector enrollees up to 300% FPL. Lastly, the SNCP establishes non-state public hospital payments and incentive programs for Cambridge Health Alliance, tied to delivery system reform performance.

Health Care Cost Containment. The Center for Health Information and Analysis (CHIA) is an independent state agency, funded through an industry assessment, to monitor the Massachusetts health care system through data collection and research and to release reliable information and meaningful analysis to a wide variety of audiences.

The Health Policy Commission (HPC) is an independent agency within, but not subject to the control of, the Executive Office for Administration and Finance. The HPC's mission is to advance a more transparent, accountable, and innovative health care system through independent policy leadership and investment programs, to

achieve better health and better care at a lower cost across the Commonwealth. Beginning in fiscal 2017, the HPC is funded through an annual assessment on the health care industry, similar to CHIA's assessment.

As required by statute, the health care cost growth benchmark has been equal to PGSP, or 3.6%, for calendar 2013 to 2017. Each year, the HPC, in collaboration with CHIA, releases a report on the Commonwealth's performance under the benchmark. The 2017 Cost Trends Report provides that total health care expenditures in the Commonwealth grew in 2016 by 2.8%, compared to 4.1% growth in 2015. Pursuant to statute, the benchmark in calendar 2018 was set at PGSP minus a half of a percent, or 3.1%.

The statutory cost growth target from 2019 through 2022 will be equal to the growth rate of PGSP minus 0.5%, and from 2023 on, will be equal to the growth rate of PGSP. However, the HPC and the Legislature have some ability to change those growth targets beginning in calendar year 2018.

Other Health and Human Services Other Health and Human Services - Budgeted Operating Funds (in millions)

| Expenditure Category | Fiscal 2014 | Fiscal 2015 | <u>Fiscal 2016</u> | Fiscal 2017 | Fiscal 2018 (1) | Projected Fiscal 2019 |
|--|-------------|-------------|-----------------------|-------------|-----------------|--------------------------|
| Office of Health Services | | | | | | |
| Department of Mental Health | \$663.0 | \$682.4 | \$712.5 | \$739.2 | \$749.1 | \$881.7 |
| Department of Public Health | 547.7 | 518.7 | 525.2 | 553.8 | 586.4 | 652.0 |
| Sub Total | \$1,210.7 | \$1,201.2 | \$1, 237.7 | \$1,293.0 | \$1,335.5 | \$1,533.7 |
| Office of Children, Youth, and Family Services | | | | | | |
| Department of Children and Families | \$795.5 | \$876.4 | \$920.0 | \$958.9 | \$974.2 | \$1,023.1 |
| Department of Transitional Assistance | 693.8 | 660.9 | 630.2 | 608.1 | 593.7 | 658.1 |
| Department of Youth Services | 160.6 | 168.3 | 169.2 | 171.7 | 169.1 | 180.1 |
| Office for Refugees and Immigrants | 0.9 | <u>1.1</u> | <u>1.1</u> | <u>1.3</u> | <u>1.1</u> | 0.5 |
| Sub Total | \$1,650.8 | \$1,706.7 | \$1,720.5 | \$1,740.0 | \$1,738.1 | \$1,861.7 |
| Office of Disabilities and Community Services | | | | | | |
| Department of Developmental Services | \$1,466.8 | \$1,678.9 | \$1,735.4 | \$1,813.5 | \$1,858.3 | \$1,966.5 |
| Other (2) | 124.1 | 129.9 | <u>79.5</u> | 86.0 | <u>82.0</u> | <u>92.8</u> |
| Sub Total | \$1,590.9 | \$1,808.8 | \$1,814.9 | \$1,899.5 | \$1,940.4 | \$2,059.3 |
| Executive Office of Elder Affairs (3) Executive Office of Health and | \$260.1 | \$291.7 | \$312.0 | \$308.2 | \$527.4 | \$548.2 |
| Human Services (4) | 254.6 | 278.1 | 283.5 | 295.2 | 323.7 | 293.8 |
| Department of Veterans' Services (5) | 12.6 | 14.4 | 64.4 | 65.5 | <u>65.3</u> | 72.1 |
| Sub Total | \$527.2 | \$584.2 | \$659.9 | 668.9 | \$916.4 | \$914.1 |
| Budgeted Expenditures and Other Uses | \$4,979.5 | \$5,300.8 | \$5,433.0 | \$5,601.4 | \$5,930.5 | \$6,368.8 |

SOURCES: Fiscal 2014-2018 Office of the State Comptroller; fiscal 2019, Executive Office for Administration and Finance.

Office of Health Services. The Office of Health Services encompasses programs and services from the Department of Public Health and the Department of Mental Health. Its goal is to promote healthy people, families, communities and environments through coordinated care. The departments work in unison to determine that individuals and families can live and work in their communities self-sufficiently and safely. The following are a few examples of programs and services provided by this office: substance abuse programs, immunization services, early intervention programs, environmental health services, youth violence programs, supportive housing and residential services for the mentally ill of all ages, and emergency and acute hospital services.

⁽¹⁾ Unaudited.

⁽²⁾ Includes Massachusetts Rehabilitation Commission, Massachusetts Commission for the Blind, Massachusetts Commission for the Deaf and Hard of Hearing, and, prior to fiscal 2016, the Chelsea Soldiers' Home, and the Holyoke Soldiers' Home.

⁽³⁾ Account restructuring in fiscal 2018 budget shifted spending for the Choices program from MassHealth to Elder Affairs.

⁽⁴⁾ Includes Medicaid program administration.

⁽⁵⁾ The fiscal 2015 budget transferred the Chelsea Soldiers' Home and the Holyoke Soldiers' Home from the Office of Disabilities and Community Services to Veterans' Services. Fiscal 2016 and later years include the Chelsea Soldiers' Home and the Holyoke Soldiers' Home. Beginning in fiscal 2014, Veterans' Services spending does not include veterans' annuities spending, which is captured under local aid spending.

Office of Children, Youth and Family Services. The Office of Children, Youth and Family Services works to provide services to children and their families through a variety of programs and services. The programs and services are offered through the Department of Children and Families, the Department of Youth Services, the Department of Transitional Assistance and the Office of Refugees and Immigrants. The collaborative goal of this office is to work to ensure that individuals, children and families are provided with public assistance needed as well as access to programs that will allow for them to be safe and self-sufficient.

The Department of Children and Families (DCF) is charged with protecting children from abuse and neglect, and in partnership with families and communities, ensuring that children are able to grow and thrive in a safe and nurturing environment. DCF serves approximately 47,000 children at any given time, primarily children through age 18, and youth ages 18-22 who are transitioning from DCF custody to independent living. DCF is currently undergoing an agency improvement initiative to implement new programmatic policies, review agency management structure, and strengthen workforce capacity.

Through the Department of Transitional Assistance (DTA), the Commonwealth funds three major programs of public assistance for eligible state residents: Transitional Aid to Families with Dependent Children (TAFDC); Emergency Aid to the Elderly, Disabled and Children; and the State Supplemental Program (SSP) for individuals enrolled in the federal Supplemental Security Income program. In addition, DTA is responsible for administering the entirely federally funded Supplemental Nutrition Assistance Program, as well as other smaller programs that assist DTA clients with completing their education, gaining career skills and finding employment.

Disabilities and Community Services. Programs and services provided by the Massachusetts Rehabilitation Commission, the Massachusetts Commission for the Deaf and Hard of Hearing, the Massachusetts Commission for the Blind and the Department of Developmental Services assist some of the most disadvantaged residents of the Commonwealth. These agencies provide assistance to this population and create public awareness in the citizens of the Commonwealth, as well as promote inter-agency collaboration which attend to the needs of the community, disabled and multi-disabled population. This holistic approach is designed to ensure that those of all ages with disabilities are able to lead functionally equivalent lives despite limitations that they may face.

Executive Office of Elder Affairs. The Executive Office of Elder Affairs provides a variety of services and programs to eligible seniors and their families. The office administers supportive and congregate housing programs, regulates assisted living residences, and provides home care and caregiver support services and nutrition programs. Eligibility for services is based largely on age, income, and disability status. The Executive Office of Elder Affairs also administers a state-supported prescription drug program for seniors.

Department of Veterans' Services. The Department of Veterans' Services provides a variety of services, programs and benefits to eligible veterans and their families. The Department of Veterans' Services provides outreach services to help eligible veterans enroll in a variety of programs, administers supportive housing and homeless services, and provides approximately 26,000 veterans, veterans' spouses and parents with annuity and benefit payments. The Department also oversees the Chelsea Soldiers' Home and the Holyoke Soldiers' Home, state-owned facilities providing long-term health care and domiciliary services to veterans.

Education

Executive Office of Education. The Executive Office of Education encompasses the Department of Early Education and Care, the Department of Elementary and Secondary Education (previously the Department of Education), the Department of Higher Education (previously the Board of Higher Education) and the University of Massachusetts system. The office is committed to advancing actions and initiatives that will improve achievement for all students, close persistent achievement gaps, and to create a 21st century public education system that prepares students for higher education, work and life in a world economy and global society.

Department of Elementary and Secondary Education. The Department of Elementary and Secondary Education (DESE) serves the student population from kindergarten through 12th grade by providing support for students, educators, schools and districts and by providing state leadership for elementary, secondary, vocational-technical, and adult basic education. There are 322 school districts in the Commonwealth, serving over 950,000 students. DESE is governed by the Board of Elementary and Secondary Education, which includes 11 members. The

Board of Elementary and Secondary Education nominates, and the Secretary of Education appoints, a Commissioner of Elementary and Secondary Education, who is responsible for carrying out the policies established by the Board.

Department of Higher Education. The Commonwealth's system of higher education includes the five-campus University of Massachusetts, nine state universities and 15 community colleges. The higher education system is coordinated by the Department of Higher Education, which is governed by the Board of Higher Education. Each institution of higher education is governed by a separate board of trustees; the University of Massachusetts has one board that governs its five campuses. The Board of Higher Education appoints, subject to the approval of the Secretary of Education, a Commissioner of Higher Education, who is responsible for carrying out the policies established by the board at the Department of Higher Education.

The operating revenues of each institution consist primarily of state appropriations and of student fees that are set by the board of trustees of each institution. Tuition levels are set by the Board of Higher Education for the state universities and community colleges, while the University of Massachusetts board of trustees has the authority to set and retain tuition for its campuses. The Massachusetts College of Art and Design and the Massachusetts Maritime Academy also have authority to retain tuition from all students. The other institutions have authority to retain tuition received from out-of-state students and tuitions from self-supporting programs, such as colleges of continuing education and evening schools. Otherwise, tuition revenue is required to be remitted to the State Treasurer by each institution.

The board of trustees of each institution submits annually audited financial statements to the Comptroller and the Board of Higher Education. The Department of Higher Education prepares annual operating budget requests on behalf of all institutions, which are submitted to the Executive Office of Education and subsequently to the Executive Office for Administration and Finance and to the House and Senate Committees on Ways and Means. The Legislature appropriates funds for the higher education system in the Commonwealth's annual operating budget in various line items for each institution.

Department of Early Education and Care. The Department of Early Education and Care (EEC) is the agency responsible for all early education and care services and funding in the Commonwealth, including licensing and oversight of and technical assistance to programs for infants, toddlers, preschoolers, and school age children during out-of-school time; group homes; foster care and adoption placement agencies; and residential schools for children with special needs. EEC also oversees community-based family engagement networks that provide literacy and other developmental activities for children and parents in libraries and adult education centers. EEC licenses approximately 9,000 child care programs, residential facilities, and foster care/adoption placement agencies that have the capacity to serve an estimated 230,000 children. EEC supports an average of 55,000 children from low-income or at-risk families to attend family or group child care programs, including referrals from the Commonwealth's Department of Children and Families and Department of Transitional Assistance.

Public Safety

Eleven state agencies fall under the umbrella of the Executive Office of Public Safety and Security. The largest is the Department of Correction, which operates 18 correctional facilities and centers across the Commonwealth. Other public safety agencies include the State Police, the Parole Board, the Department of Fire Services, the Military Division, the Office of the Chief Medical Examiner, and five other public safety related agencies.

Energy and Environmental Affairs

The Executive Office of Energy and Environmental Affairs is responsible for policy development, environmental law enforcement services, and oversight of agencies and programs. Six state agencies and numerous boards fall under the umbrella of the Executive Office of Energy and Environmental Affairs. The largest is the Department of Conservation and Recreation, which operates public parkland, recreational facilities, watersheds and forests across the Commonwealth. Other environmental agencies include the Department of Agricultural Resources, responsible for the state's agricultural and food safety programs, the Department of Environmental Protection, responsible for clean air, water, recycling and environmental remediation programs, and the Department of Fish and Game, responsible for the management and protection of endangered species, fisheries and habitat. Additional agencies include the Department of Public Utilities, responsible for oversight of electric, gas, water and

transportation utilities, and the Department of Energy Resources, responsible for energy planning, management and oversight.

Debt Service

Debt service expenditures relate to general obligation bonds and notes, special obligation bonds and federal grant anticipation notes issued by the Commonwealth. See "LONG-TERM LIABILITIES."

Employee Benefits

Group Insurance. The Group Insurance Commission (GIC) provides health insurance benefits to more than 440,000 people, including state and participating municipalities' employees, retirees, their spouses and dependents, and certain retired municipal teachers, their spouses and dependents. State employee contributions are currently based on date of hire; employees hired on or before June 30, 2003 contribute 20% of total premium costs, and employees hired after June 30, 2003 contribute 25% of premium costs. Similarly, state retirees contribute either 10%, 15% or 20%, depending on their retirement date. The GIC also provides health insurance benefits for the employees and retirees of participating municipalities; the municipalities reimburse the state for their enrollees' premium costs. The contribution ratio(s) for municipal enrollees is set through a collective bargaining process within each community. As of July 1, 2018, the GIC provides health insurance to employees and retirees of 52 municipal entities: 10 cities, 31 towns, eight regional school districts, two regional districts and one educational collaborative.

Fiscal 2019 GIC appropriations total \$1.715 billion, approximately \$569 million of which is offset by municipal revenue and \$214 million of which is offset by non-state agency revenue to reimburse the state for providing health insurance benefits to the participating governmental units, including municipalities. In addition, the fiscal 2019 budget authorizes transfers of up to \$441 million to the State Retiree Benefits Trust Fund for the purpose of making expenditures for current state retirees and their dependents.

In keeping with the GIC's commitment to cost containment, the GIC approved a package of benefit changes effective in fiscal 2018 that was designed to encourage greater use of primary care physicians in lower-cost provider systems and to lower the utilization of higher-cost services (the highest-cost hospitals, physician groups and prescription drugs). The aggregate fiscal 2019 premium rates for GIC state and municipal members did not increase over the aggregate premium rates in fiscal 2018.

Pensions. The Commonwealth is responsible for the payment of pension benefits for Commonwealth employees and for teachers of the cities, towns and regional school districts throughout the state. See "PENSION AND OPEB FUNDING."

Other Post-Employment Benefit Obligations (OPEB). The Commonwealth is required under state law to provide certain health care and life insurance benefits for retired employees of the Commonwealth and certain other governmental agencies. See "PENSION AND OPEB FUNDING – Other Post-Employment Benefit Obligations (OPEB)."

The fiscal 2019 budget is consistent with the requirements of Government Accounting Standards Board (GASB) Statements No. 45 and No. 75, that spending for current retirees be accounted for separately, and that deposits towards the Commonwealth's non-pension retiree liability be made into an irrevocable trust.

Other Program Expenditures

The remaining expenditures on other programs and services for state government include constitutional officers, the judiciary and district attorneys, sheriffs, the Executive Office for Administration and Finance, the Executive Office for Housing and Economic Development, the Executive Office of Labor and Workforce Development, the Executive Office of Technology Services and Security, and various other programs.

SELECTED FINANCIAL DATA

The table below in this section presents combined revenues and expenditures in the budgeted operating funds. The measurement of revenues for the budgeted operating funds is on a statutory basis and differs from governmental revenues on a GAAP basis. See "Statutory Basis Distribution of Budgetary Revenues and Expenditures" and "GAAP Basis" below.

Statutory Basis Distribution of Budgetary Revenues and Expenditures

The revenues and expenditures of the budgeted operating funds presented in the following table are derived from the Commonwealth's Statutory Basis Financial Reports (SBFR) for fiscal 2014 through 2018. Projections for fiscal 2019 have been prepared by the Executive Office for Administration and Finance.

The following table sets forth the Commonwealth's budgeted operating funds revenues and expenditures for fiscal 2014 through fiscal 2018 and projected revenues and expenditures for fiscal 2019. Projected revenues and expenditures for fiscal 2019 are based on the fiscal 2019 budget and on (i) the Executive Office for Administration and Finance's most recent estimate of tax revenue (as officially issued) and non-tax revenue, (ii) enacted appropriations adjusted for projected reversions, and (iii) other spending the Executive Office for Administration and Finance reasonably projects. See "FISCAL 2019."

Budgeted Operating Funds – Statutory Basis (in millions) (1)

| | <u>Fiscal 2014 (2)</u> | <u>Fiscal 2015</u> | <u>Fiscal 2016</u> | Fiscal 2017 | Fiscal 2018 (12) | Projected Fiscal 2019 |
|---|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------------|
| Beginning Fund Balances | \$207.1 | ¢100.0 | ¢226.0 | ¢126.0 | ¢117.4 | ¢271 £ |
| Reserved or Designated Stabilization Fund | \$297.1 1,556.7 | \$190.0 1,248.4 | \$226.0 1,252.4 | \$126.0 1,291.5 | \$117.4 1,300.7 | \$371.5 2,001.3 |
| Undesignated | 20.6 | 12.1 | 92.3 | 64.5 | 29.7 | 13.9 |
| Total | \$1,874.4 | \$1,450.5 | \$1,570.7 | \$1,482.0 | \$1,447.8 | \$2,386.7 |
| Revenues and Other Sources | | | | | | |
| Alcoholic Beverages | 78.8 | 80.8 | 83.4 | 85.4 | 85.8 | 88.1 |
| Banks | 135.8 | 51.9 | 23.5 | (0.1) | 17.4 | 0.3 |
| Cigarettes | 520.7 | 510.3 | 505.6 | 490.3 | 471.2 | 475.0 |
| Corporations | 2,049.1 | 2,172.1 | 2,312.0 | 2,196.7 | 2,392.2 | 2,338.6 |
| Deeds | 223.1 | 238.3 | 281.9 | 297.2 | 284.5 | 327.3 16.632.4 |
| Income Inheritance and Estate | 13,201.6 401.5 | 14,448.7 340.9 | 14,393.7 399.4 | 14,683.7 336.6 | 16,239.6 473.0 | 350.1 |
| Insurance and Estate | 368.1 | 391.4 | 429.6 | 421.9 | 430.9 | 473.5 |
| Marijuana Excise | - | 371.4 | - | | -30.7 | 40.0 |
| Motor Fuel | 732.2 | 756.1 | 766.6 | 769.4 | 769.1 | 767.3 |
| Public Utilities (3) | 9.8 | 3.4 | (1.6) | (0.1) | (0.7) | 0.0 |
| Room Occupancy | 138.3 | 150.7 | 162.2 | 156.7 | 158.7 | 165.3 |
| Sales: | | | | | | |
| Regular | 3,810.6 | 3,986.6 | 4,156.9 | 4,226.1 | 4,433.2 | 4,635.0 |
| Meals | 948.9 | 998.8 | 1,063.8 | 1,132.5 | 1,154.4 | 1,207.0 |
| Motor Vehicles | <u>736.4</u> | <u>789.1</u> | <u>833.9</u> | <u>852.5</u> | <u>866.3</u> | <u>878.0</u> |
| Sub-Total-Sales | 5,495.9 | 5,774.4 | 6,054.6 | 6,211.1 | 6,453.9 | 6,720.0 |
| Miscellaneous Settlements and Judgments (4) | 15.1 | 12.8 | 13.6 | 12.9 | 11.5 | 14.4 49.0 |
| Total Tax Revenues | <u>\$23,370.0</u> | <u>\$24,932.2</u> | <u>\$25,424.5</u> | <u>\$25,661.7</u> | <u>\$27,787.2</u> | \$28,441.3 |
| MBTA Transfer (5) | (799.3) | (970.6) | (986.2) | (992.2) | (1,007.9) | (1,042.1) |
| MSBA Transfer | (727.5) | (764.1) | (798.5) | (816.8) | (847.9) | (882.1) |
| Workforce Training Fund Transfer (6) | (21.2) | (23.6) | (22.8) | (24.4) | (24.7) | (24.0) |
| Total Budgeted Operating Tax Revenues | | | | | , , | |
| Tax Revenues | <u>\$21,822.0</u> | <u>\$23,173.8</u> | <u>\$23,616.9</u> | <u>\$23,828.3</u> | <u>\$25,906.7</u> | <u>\$26,493.1</u> |
| Federal Reimbursements Departmental and Other | 8,372.1 | 9,480.4 | 10,642.7 | 10,857.8 | 11,376.9 | 11,574.7 |
| Revenues | 3,712.4 | 3,852.8 | 4,257.2 | 4,382.1 | 4,742.2 | 5,115.5 |
| Inter-fund Transfers from Non-budgeted Funds and | 1 555 2 | 1 720 5 | 1 0 4 0 7 | 2,000,1 | 1 702 4 | 1.055.0 |
| other sources (7) | <u>1,555.2</u> | <u>1,729.5</u> | 1,848.7 | <u>2,099.1</u> | <u>1,793.4</u> | <u>1,955.8</u> |
| Budgeted Revenues and Other Sources | <u>\$35,461.7</u> | <u>\$38,236.5</u> | <u>\$40,365.5</u> | <u>\$41,167.3</u> | <u>\$43,819.2</u> | <u>\$45,139.2</u> |
| Inter-fund Transfers Total Budgeted Revenues | <u>1,757.0</u> | <u>735.4</u> | <u>472.9</u> | <u>617.4</u> | <u>1,217.0</u> | <u>1,148.1</u> |
| and Other Sources | <u>\$37,218.7</u> | <u>\$38,971.9</u> | <u>\$40,838.4</u> | <u>\$41,784.7</u> | <u>\$45,036.2</u> | <u>\$46,287.3</u> |
| Expenditures and Uses | | | | | | |
| Direct Local Aid | 5,292.5 | 5,420.4 | 5,567.7 | 5,703.0 | 5,885.5 | 6,090.7 |
| Medicaid | 11,900.8 | 13,655.2 | 14,851.0 | 15,251.7 | 15,744.5 | 16,356.3 |
| Other Health and Human | 4.070.5 | £ 200 C | 5 422 0 | E (01 4 | £ 020 0 | (260.0 |
| Services Group Insurance | 4,979.5 | 5,300.8 | 5,433.0 | 5,601.4 | 5,930.0 1,634.0 | 6,368.8 |
| Department of Elementary and | 1,402.9 | 1,665.1 | 1,629.7 | 1,662.5 | , | 1,670.9 |
| Secondary Education | 515.3 | 514.9 | 539.3 | 523.2 | 552.3 | 625.3 |
| Higher Education | 1,091.5 | 1,161.6 | 1,194.3 | 1,168.3 | 1,173.4 | 1,221.1 |
| Department of Early Education and Care | 509.6 | 537.7 | 547.6 | 540.0 | 564.3 | 636.4 |
| Public Safety | 1,010.4 | 1,040.7 | 1,065.6 | 1,059.6 | 1,102.0 | 1,218.8 |
| | -,010 | -,0 .0., | 1,000.0 | -,007.0 | -, | -,210.0 |

| Energy and Environmental | Fiscal 2014 (2) | Fiscal 2015 | Fiscal 2016 | Fiscal 2017 | <u>Fiscal 2018</u> (12) | Projected Fiscal 2019 |
|---|-------------------|-------------------|-------------------|-------------------|-------------------------|---------------------------|
| Affairs | 215.0 | 225.0 | 221.4 | 222.1 | 229.6 | 263.2 |
| Debt Service (8) | 2,122.0 | 2,190.4 | 2,174.3 | 2,284.7 | 2,323.4 | 2,453.3 |
| Post -Employment Benefits | _, | _,, | _,_, | _, | _, | _, |
| (9) | 2,050.4 | 2,213.4 | 2,503.4 | 2,659.7 | 2,891.5 | 3,049.6 |
| Other Program Expenditures | <u>3,293.7</u> | 3,113.1 | 3,240.7 | 3,235.0 | <u>3,316.0</u> | 3,702.1 |
| Total - Programs and | | | | | | |
| Services before transfers to | #24.202. 6 | #2 = 020.2 | # 30 0<0 0 | #20.011.2 | 0.41.046.5 | 4.0 (5 () |
| Non-budgeted funds | <u>\$34,383.6</u> | <u>\$37,038.3</u> | <u>\$38,968.0</u> | <u>\$39,911.2</u> | <u>\$41,346.5</u> | <u>\$43,656.6</u> |
| Inter-fund Transfers to Non- budgeted Funds Commonwealth Care Trust Fund (10) | 390.1 | - | - | _ | - | - |
| Medical Assistance Trust | 205.0 | 71.0 | ((5.6 | 402.4 | 570.0 | 5066 |
| Fund Massachusetts Transportation | 395.0 | 71.0 | 665.6 | 403.4 | 579.9 | 586.6 |
| Trust Fund | 270.1 | 588.6 | 566.8 | 484.7 | 634.7 | 603.2 |
| Other | 446.7 | 418.4 | 253.8 | 402.3 | 319.2 | 214.5 |
| Total Inter-Fund Transfers | | | | | | |
| to Non-Budgeted Funds | <u>\$1,501.9</u> | <u>\$1,078.0</u> | <u>\$1,486.2</u> | <u>\$1,290.4</u> | <u>\$1,533.8</u> | <u>\$1,404.2</u> |
| Budgeted Expenditures and | | | | | | |
| Other Uses | <u>\$35,885.5</u> | <u>\$38,116.3</u> | <u>\$40,454.2</u> | <u>\$41,201.6</u> | <u>\$42,880.3</u> | <u>\$45,060.8</u> |
| Inter-fund Transfers | <u>1,757.0</u> | 735.4 | <u>472.9</u> | 617.4 | <u>1,217.0</u> | <u>1,148.1</u> |
| Total Budgeted Expenditures and Other Uses | <u>\$37,642.5</u> | <u>\$38,851.7</u> | <u>\$40,927.1</u> | <u>\$41,819.0</u> | <u>\$44,097.3</u> | <u>\$46,208.9</u> |
| Excess (Deficiency) of Revenues and Other Sources Over Expenditures and Other Uses | <u>(\$423.8)</u> | <u>\$120.2</u> | <u>(\$88.7)</u> | (\$34.3) | <u>\$938.9</u> | <u>\$78.4</u> |
| Ending Fund Balances | | | | | | |
| Reserved or Designated (11) | 190.0 | 226.0 | 126.0 | 117.4 | 371.5 | 86.2 |
| Stabilization Fund | 1,248.4 | 1,252.4 | 1,291.5 | 1,300.7 | 2,001.3 | 2,405.4 |
| Undesignated | 12.1 | 92.3 | <u>64.5</u> | <u>29.7</u> | 13.9 | (26.5) |
| Total | <u>\$1,450.5</u> | <u>\$1,570.7</u> | <u>\$1,482.0</u> | <u>\$1,447.8</u> | <u>\$2,386.7</u> | <u>\$2,465.1</u> |

SOURCES: Fiscal 2014-2018, Office of the Comptroller; fiscal 2019, Executive Office for Administration and Finance.

- (1) Totals may not add due to rounding.
- (2) Some fiscal 2014 amounts were reclassified to conform to the fiscal 2015 presentation in the Statutory Basis Financial Report.
- (3) Prior to January 1, 2014, public utility corporations were subject to an excise tax of 6.5% on net income. Legislation enacted in 2013 repealed the separate excise tax for utility corporations, which are now subject to the corporate excise imposed on business corporations.
- (4) For fiscal 2014 through 2018, tax and non-tax revenue from judgments and settlements in excess of \$10 million is included in specific tax and non-tax revenue categories. See "COMMONWEALTH REVENUES Federal and Other Non-Tax Revenues; Settlements and Judgments."
- (5) Beginning in fiscal 2015, the annual amount of sales tax receipts statutorily credited to the MBTA was increased by \$160 million. See "COMMONWEALTH REVENUES AND EXPENDITURES – State Taxes; Sales and Use Tax."
- (6) The Workforce Training Fund is not subject to annual appropriation, and employer contributions are deposited directly in the Workforce Training Fund after their collection.
- (7) Inter-fund Transfers from Non-budgeted Funds and Other Sources include profits from the State Lottery, abandoned property proceeds and other inter-fund transfers.
- (8) Fiscal 2016 budgeted Debt Service excluded \$113 million in payments made from a non-budgeted fund that was made from budgeted funds in other years.
- (9) Post-Employment Benefits include all budgeted pension transfers and transfers to the State Retiree Benefits Trust Fund (SRBTF). See "PENSION AND OPEB FUNDING Other Post-Employment Benefit Obligations (OPEB)."
- (10) Starting in fiscal 2015, transfers of funding for the Health Connector have not occurred because increased dedicated revenues, federal grants and self-generated revenues have been able to cover the full program and administrative costs.
- (11) Consists largely of appropriations authorized to be expended in the following year.
- (12) Unaudited.

Stabilization Fund

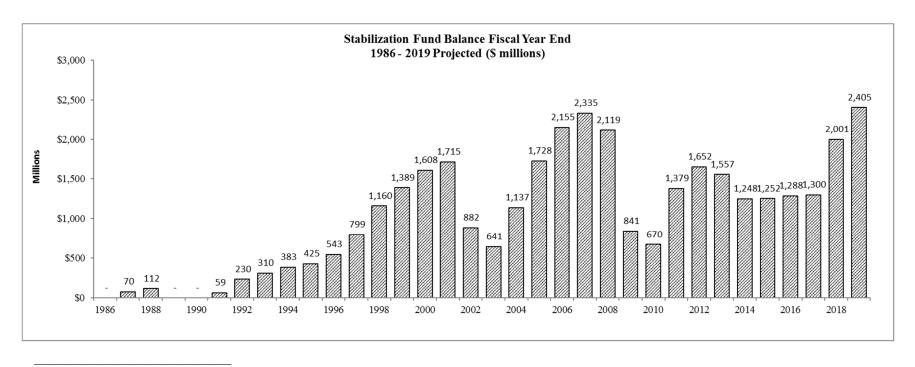
The Stabilization Fund is established by state finance law as a reserve of surplus revenues to be used for the purposes of covering revenue shortfalls, covering state or local losses of federal funds or for any event which threatens the health, safety or welfare of the people or the fiscal stability of the Commonwealth or any of its political subdivisions. The fund is sometimes referred to as the state's "rainy day fund," serving as a source of financial support for the state budget in times of slow revenue growth or revenue declines and as the primary source of protection against having to make drastic cuts in state services in periods of economic downturns.

Required Deposits and Allowable Stabilization Fund Balance. From fiscal 2005 through fiscal 2013, state finance law provided that (i) 0.5% of current year net tax revenues be deposited into the Stabilization Fund at fiscal year-end, (ii) 0.5% of current-year net tax revenues be made available for the next fiscal year and (iii) any remaining amount of the year-end statutorily defined surplus be transferred to the Stabilization Fund. Since fiscal 2014, state finance law has required that the entire year-end statutorily defined surplus be transferred to the Stabilization Fund. Since fiscal 2011, state finance law has required that tax revenue from capital gains exceeding \$1 billion in a fiscal year (adjusted annually, beginning in fiscal 2014, for U. S. gross domestic product growth) be deposited into the Stabilization Fund, with 5% of such amount then transferred to the State Retiree Benefits Trust Fund and, beginning in fiscal 2013, with an additional 5% of such amount then transferred to the Commonwealth's Pension Liability Fund. However, all of these requirements may be modified or superseded by individual appropriation acts. Legislative enactments in 2015 retained all fiscal 2015 and fiscal 2016 capital gains tax revenues in the General Fund. The fiscal 2017 budget required the Comptroller to transfer all capital gains tax collections that were above \$1.278 billion to the Stabilization Fund in fiscal 2017; however, capital gains tax collections for fiscal 2017 did not exceed this amount. The fiscal 2018 budget required the Comptroller to transfer all capital gains tax collections that were above \$1.169 billion to the Stabilization Fund in fiscal 2018. On June 29, 2018, the Comptroller transferred approximately \$322 million to the Stabilization Fund, representing excess capital gains tax revenue through May 2018, with equal \$16 million transfers from the Stabilization Fund to the State Retiree Benefits Trust Fund and the Pension Liability Fund. On July 24, 2018, the Comptroller transferred approximately \$192 million to the Stabilization Fund, representing excess capital gains tax revenue for the month of June 2018, with equal transfers of approximately \$10 million from the Stabilization Fund to the State Retiree Benefits Trust Fund and the Pension Liability Fund, bringing the total fiscal 2018 transfers to the Stabilization Fund to approximately \$514 million and approximately \$26 million to each of the State Retiree Benefits Trust Fund and the Pension Liability Fund. See "COMMONWEALTH REVENUES – State Taxes – Capital Gains Component of the Income Tax."

State finance law requires the Comptroller to transfer 75% of the growth in unclaimed property net revenue relative to the prior year to the Stabilization Fund. During fiscal 2018, this resulted in a transfer of approximately \$13 million to the Stabilization Fund.

The allowable Stabilization Fund balance at fiscal year-end is 15% of total budgeted revenues for that year. If the Stabilization Fund balance exceeds the allowable limit, the excess amounts are to be transferred to the Tax Reduction Fund.

The following chart shows the Stabilization Fund balance from fiscal 1986 through fiscal 2018 (actual) and fiscal 2019 (projected).



SOURCE: Fiscal 1986-fiscal 2018, Office of the Comptroller; fiscal 2019 (projected), Executive Office for Administration and Finance.

Note: Fiscal 2018 is unaudited.

The following table shows the sources and uses of the Stabilization Fund during fiscal 2014 through fiscal 2018:

Stabilization Fund Sources and Uses (in thousands)

| | Fiscal <u>2014</u> | Fiscal <u>2015</u> | Fiscal <u>2016</u> | Fiscal <u>2017</u> | Fiscal <u>2018</u> (5) |
|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Beginning fund balances | \$1,556,657 | \$1,248,435 | \$1,252,429 | \$1,291,514 | \$1,300,678 |
| Revenues and Other Sources | | | | | |
| Deposit of the remaining consolidated net surplus | - | 123,507 | - | - | 209,287 |
| Deposits made directly during fiscal year | - | 20,000 (1) | 27,100 (2) | - | 13,450 (2) |
| Capital gains tax transfers in excess of threshold (3) | 45,457 | - | - | - | 513,908 |
| Deposits due to judgments and settlements in excess of \$10 million | 414,310 | - | - | - | - |
| Lottery transfer taxes | 867 | 647 | 744 | 377 | 272 |
| Investment income | 7,259 | 4,646 | 11,241 | 8,787 | 15,094 |
| Excess permissible tax revenue | - | - | - | - | - |
| Total Revenues and Other Sources | 467,893 | 148,800 | 39,085 | 9,164 | 752,011 |
| Total Expenditures and Other Uses | 776,115 | 144,806 | Ξ | Ξ | 51,390 (4) |
| Excess (Deficiency) of Revenues and Other Sources Over Expenditures and Other Uses | (308,222) | <u>3,994</u> | <u>39,085</u> | <u>9,164</u> | 700,621 |
| Ending fund balances Allowable Stabilization Fund Balance | \$1,248,435 \$5,320,973 | \$1,252,429 \$5,735,471 | \$1,291,514 \$6,047,764 | \$1,300,678 \$6,175,099 | \$2,001,299 \$6,572,883 |

SOURCE: Office of the Comptroller.

GAAP Basis

The Commonwealth's GAAP financial statements for the year ended June 30, 2017, attached as Exhibit C, are prepared in accordance with reporting standards first established by GASB Statements 34 and 35, as amended. See "COMMONWEALTH BUDGET AND FINANCIAL MANAGEMENT CONTROLS - Fiscal Control, Accounting and Reporting Practices of the Comptroller." The GAAP financial statements are presented on both a "fund perspective" (or short-term accrual) basis and a "government-wide perspective" basis, which includes debt, capital assets and accrual activity on a comprehensive statement of net position, similar to a balance sheet. All capital assets, including road and bridge infrastructure and all long-term liabilities, including outstanding debt and commitments of long-term assistance to municipalities and authorities, are part of the government-wide statements. The Commonwealth's statement of revenues, expenditures and changes in fund balances are presented as a statement of activities, similar to an income statement.

⁽¹⁾ Represents repayment of Massachusetts Gaming Commission start-up funds.

⁽²⁾ Represents transfer equal to 75% of the growth in abandoned property receipts from the prior fiscal year.

⁽³⁾ Threshold adjusted annually for U.S. gross domestic product growth.

⁽⁴⁾ Represents transfers of excess capital gains tax revenue to the State Pension Fund and OPEB Trust Fund per statute.

⁽⁵⁾ Unaudited.

The table below presents the transition from the Commonwealth's statutory basis budgetary fund balance to the "fund perspective" balance, as depicted in the fund financial statements, and then to the Commonwealth's "government-wide" financial position. Differences between statutory and the "fund perspective" GAAP basis can be summarized in five major adjustments. Those adjustments are for Medicaid (as well as the somewhat related liability for uncompensated care), taxes, projected amounts due to the Commonwealth in the next fiscal year under the master tobacco settlement agreement, claims and judgments, and amounts due to authorities. As evidenced in the trend line of fund balance (deficit) over time, however, these adjustments connect the GAAP basis measurement when viewed using a fund perspective under GAAP and the statutory basis measurement. While the difference in fund balances may vary in a given fiscal year, both balances generally trend in the same direction. To convert to a full accrual basis, further major adjustments are made for the net book value of the Commonwealth's capital assets, inclusive of infrastructure, the realizable value of long-term deferred revenues (largely from tax payment plans) and the amount of the Commonwealth's outstanding long-term debt, the Commonwealth's unfunded pension and OPEB liabilities, and other liabilities.

Governmental Funds-Statutory to GAAP-Fund Perspective and to Governmental Net Position

(in millions)

| Governmental Funds-Statutory Basis, June 30, 2017 | |
|---|---------------------|
| Budgeted Fund Balance | \$1,447.7 |
| Non-budgeted special revenue fund balance | 1,891.3 |
| Capital Projects Fund Balance | 150.6 |
| Governmental Fund Balance-Statutory Basis, June 30, 2017 Plus: Expendable Trust and similar fund statutory balances that are considered | \$3,489.6 |
| governmental funds for GAAP reporting purposes | 640.6 |
| Less: Massachusetts Department of Transportation Funds | (1,191.4) |
| Less. Wassachuseus Department of Transportation Funds | (1,171.4) |
| Adjusted Statutory Governmental Fund Balance | \$2,938.8 |
| Short term accruals, net of allowances and deferrals for increases/(decreases): | |
| Taxes, net of refunds and abatements | 1,697.3 |
| Tobacco settlement agreement receivable | 125.6 |
| Medicaid | (559.5) |
| Assessments and other receivables | 213.1 |
| Amounts due to authorities and municipalities, net | (606.8) |
| Claims, judgments and other risks | (12.5) |
| Amounts due to healthcare providers and insurers | (43.7) |
| Workers' compensation and group insurance | (154.2) |
| Compensated absences | (11.1) |
| Other accruals, net | 297.3 |
| Net increase to governmental funds balances | \$945.5 |
| Massachusetts School Building Authority fund balance | 1,712.6 |
| Total changes to governmental funds | \$2,658.1 |
| Governmental fund balance (fund perspective) | 5,596.9 |
| Plus: Capital assets including infrastructure, net of accumulated depreciation | 4,793.1 |
| Deferred revenue, net of other eliminations | 655.1 |
| Long term accruals: | |
| Net pension liability | (36,941.9) |
| Net deferred (inflows)/outflows related to pensions | 8,002.2 |
| Post-employment benefits other than pensions cumulative over/(under) funding | (7,581.0) |
| Environmental remediation liability | (533.1) |
| Massachusetts School Building Authority debt and school construction payables | (7,540.9) |
| Long term debt, unamortized premiums and deferred losses on debt refundings | (28,438.2) |
| Compensated absences | (593.2) |
| Capital leases | (30.9) |
| Accrued interest on bonds | (388.8) |
| Other long term liabilities | (386.3) |
| Total governmental net position/(deficit) (government-wide perspective) | <u>(\$63,387.0)</u> |

SOURCE: Office of the Comptroller

The deficit of \$63.387 billion in government-wide net position can be largely attributed to two factors: first, the Commonwealth's net (or unfunded) pension liability, which, starting in fiscal 2015, has been placed on the Commonwealth's books in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions. This Statement required, among other things, the Commonwealth to include the long-term net pension liability on the Government-wide Statement of Net Position. As of June 30, 2017 the Commonwealth reported a net pension liability of approximately \$36.942 billion. Also contributing to the deficit was the Commonwealth's policy decision to finance the construction of assets owned by other governmental entities, particularly Commonwealth roads and bridges, which as a result of transportation reform completed during fiscal 2010 shifted these assets from the books of the Commonwealth to the Massachusetts Department of Transportation (MassDOT), a component unit of the Commonwealth. At the end of fiscal 2017, MassDOT held \$34.944 billion in road, bridge and other transportation-related assets (excluding assets of the MBTA), net of related depreciation, the vast majority of which were formerly held by the Commonwealth. Those assets were financed by the Commonwealth, and the debt remains a long-term obligation of the Commonwealth. In addition, the Commonwealth has a net liability of \$7.541 billion in debt and grant obligations for the school building assistance program that finances construction of schools for the Commonwealth's cities and towns and a liability of \$7.581 billion for cumulative underfunding of the Commonwealth's OPEB liability.

Change in Statement of Net Position

(in thousands)

| Total net position: | Governmental <u>Activities</u> | Business Type <u>Activities</u> | Government <u>Wide</u> |
|------------------------|-----------------------------------|---------------------------------|---------------------------|
| Fiscal 2016 | (\$58,639,945) | \$5,736,165 | (\$52,903,780) |
| Fiscal 2017 | (63,387,033) | 6,082,464 | (57,304,569) |
| Change in net position | (\$4,747,088) | <u>\$346,299</u> | <u>(\$4,400,789)</u> |

SOURCE: Office of the Comptroller

As of June 30, 2017, approximately \$1.473 billion in restricted net position was set aside for unemployment benefits and approximately \$1.021 billion was restricted for debt retirement.

Revenues – GAAP Basis. The measurement of revenues for the budgeted operating funds on a statutory basis differs from governmental revenues on a GAAP basis in that certain revenues that are not included on a statutory basis are included on a GAAP basis, including revenue accruals for Medicaid and taxes. In addition, internal transfers are eliminated under GAAP on a government-wide perspective. The following table shows the distribution of major sources of revenue in fiscal 2017:

Comparison of Fiscal 2017 Governmental Revenues (in millions)

| | Governmental Funds | GAAP Basis – Governmental | | | | |
|-----------------------|--------------------|---------------------------|--------------------------------|--|--|--|
| | Statutory Basis | Fund Perspective | Government-wide Perspective | | | |
| Taxes | \$26,042 | \$25,828 | \$25,950 | | | |
| Federal Revenue | 14,171 | 15,567 | 15,578 | | | |
| Departmental and | | | | | | |
| Miscellaneous Revenue | <u>21,613</u> | <u>27,042</u> | <u>11,368</u> | | | |
| Total | <u>\$61,826</u> | <u>\$68,437</u> | <u>\$52,896</u> | | | |

SOURCE: Office of the Comptroller

The following table provides financial results on a GAAP fund perspective basis for all governmental funds of the Commonwealth for fiscal 2013 through fiscal 2017.

Governmental Fund Operations – GAAP Basis – Fund Perspective (in millions)

| | Fiscal 2013 | Fiscal 2014 | Fiscal 2015 | Fiscal 2016 | Fiscal 2017 |
|--|------------------|------------------|------------------|------------------|------------------|
| Beginning fund balances | \$6,318.9 | \$4,869.9 | \$4,619.4 | \$5,305.2 | \$5,273.3 |
| Revenues and Financing Sources | 55,289.9 | 57,210.0 | 60,658.6 | 67,749.6 | 68,437.1 |
| Expenditures and Financing Uses | 56,738.9 | 57,460.5 | 59,972.8 | 67,781.5 | 68,113.5 |
| Excess/(deficit) | (1,449.0) | (250.5) | <u>685.8</u> | (31.9) | <u>323.6</u> |
| Ending fund balances—GAAP fund perspective | <u>\$4,869.9</u> | <u>\$4,619.4</u> | <u>\$5,305.2</u> | <u>\$5,273.3</u> | <u>\$5,596.9</u> |

SOURCE: Office of the Comptroller.

Financial Reports. The Commonwealth issues annual financial reports, including a report on the statutory basis of accounting (which is reviewed, but not audited) and GAAP basis audited financial statements. These financial statements are issued as two separate reports, the Statutory Basis Financial Report (SBFR) and the Comprehensive Annual Financial Report (CAFR). The SBFR is usually published by the Comptroller on or before October 31 and the CAFR is usually published by the Comptroller by the second Wednesday in January. The SBFR for the year ended June 30, 2017 are attached hereto as Exhibits B and C, respectively. Copies of these financial reports are also available at the address provided under "CONTINUING DISCLOSURE." The SBFR for fiscal 1997 through fiscal 2018 and the CAFR for fiscal 1995 through fiscal 2017 are also available on the web site of the Comptroller of the Commonwealth at https://www.macomptroller.org/financial-reports.

For each year beginning in fiscal 1990, the Commonwealth CAFRs, from which certain information contained in this Information Statement has been derived, have been awarded the Certificate of Achievement for Excellence in Financial Reporting by the Government Finance Officers Association of the United States and Canada (GFOA). The Certificate of Achievement is the highest form of recognition for excellence in state and local government financial reporting. Fiscal 2017 marked the 28th consecutive year that the Commonwealth has received this award.

The Comptroller retains an independent certified public accounting firm to audit the Commonwealth's financial statements and issue certain other reports required by the Uniform Guidance. As part of the Uniform Guidance, the independent auditors render a report on all programs involving federal funding for compliance with federal and state laws and regulations and assess the adequacy of internal control systems. For fiscal 1990 through 2017 the independent auditors' opinions on the CAFR were unqualified or unmodified, indicating that the Commonwealth's financial statements presented fairly, in all material respects, the financial position of the Commonwealth, in accordance with generally accepted accounting principles.

Discussion of Financial Condition

As the annual operating budget of the Commonwealth is adopted in accordance with the statutory basis of accounting, public and governmental discourse on the financial affairs of the Commonwealth has traditionally followed the statutory basis. Consequently, the financial information set forth in this document follows the statutory basis, except where otherwise noted. Since fiscal 1990, the Commonwealth has prepared separate financial reports on the statutory basis (reviewed) and on a GAAP basis (audited). See "COMMONWEALTH BUDGET AND FINANCIAL MANAGEMENT CONTROLS – Fiscal Control, Accounting and Reporting Practices of the Comptroller; *Financial Reports*." Without limiting the generality of the references to the SBFR for the year ended June 30, 2018 and the

CAFR for the year ended June 30, 2017, attention is called in particular to the portion of the CAFR under the heading "Management's Discussion and Analysis."

Auditors' Report on Fiscal 2017 CAFR

The basic financial statements included in the CAFR of the Commonwealth for the year ended June 30, 2017 were audited by KPMG LLP (KPMG). The KPMG audit report dated January 10, 2018 on the general purpose financial statements included in the CAFR for the year ended June 30, 2017 contained an unmodified opinion. A copy of the audit report of KPMG dated January 10, 2018 has been filed with EMMA and is included within Exhibit C to this Information Statement. KPMG has not been engaged to perform, and has not performed, since the respective dates of its reports included herein, any procedures on the financial statements addressed in such reports, nor has said independent auditor performed any procedures relating to any official statement of which this Information Statement may be a part.

FISCAL 2019

On January 12, 2018, a fiscal 2019 consensus tax revenue estimate of \$27.594 billion was agreed upon by the Secretary of Administration and Finance and the chairs of the House and Senate Committees on Ways and Means. This estimate reflected a projection of 3.5% tax revenue growth over the then-projected fiscal 2018 tax revenues (as revised), and also assumed that the state income tax rate would decrease from 5.1% to 5.05% on January 1, 2019, in accordance with the statutory mechanism. After accounting for the statutorily required transfer for pensions and allocations to the MBTA, the MSBA and the Workforce Training Fund, the Secretary and Committee chairs agreed that \$22.982 billion would be the maximum amount of tax revenue available for the fiscal 2019 budget.

On January 24, 2018, the Governor filed his fiscal 2019 budget recommendation, providing for a total of \$40.904 billion in state spending, excluding \$452 million in projected transfers to the Medical Assistance Trust Fund, which represented an increase of 2.6% over projected fiscal 2018 spending. The budget proposal anticipated a deposit of \$96 million to the Commonwealth Stabilization Fund in fiscal 2019.

An interim budget of \$5 billion for the first month of fiscal 2019 was approved by the Governor on June 28, 2018. The interim budget was superseded by the fiscal 2019 budget when the latter was approved by the Governor on July 26, 2018.

The fiscal 2019 budget, as approved by the Governor on July 26, 2018, totals approximately \$41.232 billion, after accounting for \$37.6 million in net line-item vetoes, and excluding transfers to the Medical Assistance Trust Fund, the pension liabilities trust fund, and other interfund transfers. The fiscal 2019 budget is approximately \$1.26 billion, or 3.2%, greater than fiscal 2018 estimated spending levels as of the time of the Governor's approval. The fiscal 2019 budget is based on a projection of \$28.392 billion in tax revenue, excluding one-time tax-related settlements and judgments in excess of \$10 million. The fiscal 2019 budget also projects a net deposit of \$368 million to the Stabilization Fund.

Subsequently, the Legislature passed overrides to the Governor's vetoes with an aggregate net budgetary impact of \$37.6 million.

Current estimates indicate that the variance between revenues and spending in fiscal 2019 is less than 1%. The Executive Office for Administration and Finance will continue to monitor revenues and spending and implement measures as necessary to ensure that the Commonwealth's budget for fiscal 2019 will achieve statutory balance. See the "Fiscal 2019" column of the table entitled "Budgeted Operating Funds – Statutory Basis" in "SELECTED FINANCIAL DATA – Statutory Basis Distribution of Budgetary Revenues and Expenditures."

Cash Flow

The State Treasurer is responsible for cash management and ensuring that all Commonwealth financial obligations are met on a timely basis. See "COMMONWEALTH BUDGET AND FINANCIAL MANAGEMENT CONTROLS – Cash Management Practices of State Treasurer." The Commonwealth does not engage in inter-fund borrowing, but pools its non-segregated (primarily non-Stabilization Fund) cash. Cash flow management incorporates the periodic use of short-term borrowing to meet cash flow needs for both capital and operating expenditures. All revenue anticipation notes, including those issued as commercial paper, must be repaid by the end of the fiscal year. The state currently has liquidity support for a \$400 million commercial paper program for general obligation notes. The Commonwealth has utilized the commercial paper program for additional liquidity, as necessary, since 2002.

The Commonwealth ended fiscal 2018 with a non-segregated cash balance of approximately \$3.608 billion. Fiscal 2019 is projected to end with a non-segregated cash balance of approximately \$3.286 billion.

The fiscal 2018 and fiscal 2019 cash flow statements released on September 6, 2018 are summarized in the table below. Quarterly cash flow statements, as submitted by the State Treasurer to the House and Senate Committees on Ways and Means, are posted on the cash management page of the State Treasurer's website at https://www.mass.gov/lists/quarterly-cash-flow-letters.

Commonwealth cash deposits are held in insured or collateralized bank accounts and with the Massachusetts Municipal Depository Trust (MMDT), the Commonwealth's investment pool for governmental entities. MMDT consists of two portfolios, professionally managed by Federated Investors Inc., the Cash Portfolio and the Short-Term Bond Fund. Cash Portfolio investments are carried at amortized cost, which approximates fair value. Short-Term Bond Fund investments are carried at fair value. General operating cash is invested in the cash portfolio, and moneys in the Stabilization Fund, which are not used by the Commonwealth for liquidity, are invested in both the Cash Portfolio and the Short-Term Bond Fund.

The Cash Portfolio invests in a diversified portfolio of high quality U. S. dollar-denominated money market instruments (eligible under GASB Statement No. 79) of domestic and foreign issuers, United States government securities and repurchase agreements. As of September 30, 2018, the Cash Portfolio holdings were made up of Asset Backed Commercial Paper (37.3%), Certificates of Deposit (20.1%), Financial Company Commercial Paper (14.6%), Non-Negotiable Time Deposits (6.9%), Other Instruments (0.3%), Non-Financial Company Commercial Paper (2.4%), Other Asset Back Securities (0.4%), Tender Option Bonds (0.6%), U.S. Government Agency Repurchase Agreements (16.9%) and Variable Rate Demand Notes (0.5%). As of October 31, 2018, the Cash Portfolio's monthly weighted average life was 67 days, and the monthly weighted average maturity was 41 days. The three objectives for the Cash Portfolio are safety, liquidity and yield. The Cash Portfolio maintains a stable net asset value of one dollar and is marked to market daily. The Cash Portfolio is fully compliant with GASB 79 as of July 1, 2016.

The Short Term Bond Fund invests in a diversified portfolio of investment grade debt securities. As of September 30, 2018, the Short Term Bond Fund holdings were made up of U. S. Treasury Securities (61.0%), Financial Institutions – Banking (4.8%), FHLMC MBS (2.3%), Technology (2.8%), Utility – Electric (3.1%), Consumer Non-Cyclical Pharmaceuticals (2.5%), FNMA MBS (2.6%), Consumer Non-Cyclical Food/Beverage (1.9%), Consumer Cyclical – Services (1.6%), Consumer Cyclical – Automotive (1.1%) and Other (16.3%). The Short-Term Bond Fund seeks to obtain the highest possible level of current income consistent with preservation of capital and liquidity. The portfolio is required to maintain an average credit rating of A-. The duration of the portfolio is managed to within +/- one-half year duration of the benchmark. The benchmark for the Short-Term Bond Fund is the Barclays Capital 1-to-5-year Government/Credit Index, which includes all medium and larger issues of United States government, investment-grade corporate and investment-grade international dollar-denominated bonds.

For cash flow needs for fiscal 2019, the State Treasurer issued \$1.5 billion in revenue anticipation notes in August, 2018. As in previous years, the notes will be repaid in April, May and June, 2019.

In May, 2018, the Governor announced the five-year capital investment plan for fiscal 2019 through fiscal 2023. The plan projects \$4.51 billion of spending on capital projects, including \$2.34 billion of bond capital spending, \$1.093 billion of spending from other sources including special obligation bonds, anticipated savings or revenues generated by the projects, and other non-Commonwealth sources such as contributions from campuses, and \$1.076 billion of spending supported by federal reimbursements and grants.

The following table provides General Fund ending cash balances by month for fiscal 2015 through fiscal 2019.

Month End General Fund Cash Balances (in millions)

| | <u>Fiscal 2015</u> | <u>Fiscal 2016</u> | Fiscal 2017 | Fiscal 2018 | Fiscal 2019 (1) |
|-----------|--------------------|--------------------|--------------------|--------------------|------------------------|
| July | \$ 768.9 | \$1,380.2 | \$1,885.9 | \$1,307.3 | \$2,643.2 |
| August | 948.9 | 551.4 | 2,414.1 | 2,304.1 | 3,000.0 |
| September | 1,762.7 | 1,951.6 | 2,670.8 | 2,328.6 | 3,597.9 |
| October | 1,453.2 | 1,421.0 | 2,437.6 | 2,147.2 | 2,935.2 |
| November | 1,240.7 | 787.7 | 2,146.4 | 1,841.5 | 2,229.2 |
| December | 991.5 | 1,029.8 | 1,766.5 | 1,897.8 | 2,610.6 |
| January | 953.9 | 1,487.5 | 1,835.7 | 2,582.3 | 3,037.1 |
| February | 414.1 | 862.0 | 1,432.7 | 2,165.8 | 2,227.6 |
| March | 743.0 | 1,280.0 | 1,332.0 | 1,775.8 | 2,886.3 |
| April | 1,860.9 | 2,044.2 | 2,074.6 | 2,897.4 | 3,552.1 |
| May | 1,691.2 | 2,276.6 | 1,647.1 | 2,666.2 | 2,755.6 |
| June | 2,140.5 | 2,397.8 | 2,058.0 | 3607.9 | 3,285.9 |
| | | | | | |

SOURCE: Office of the Treasurer and Receiver-General.

The tables on the following pages provide cash flow detail for fiscal 2018 and fiscal 2019.

⁽¹⁾ Fiscal 2019 ending balances for August through June are estimated.

Overview of Fiscal 2018 Non-Segregated Operating Cash Flow (in millions) (1)

| | Jul-17 | Aug-17 | Sep -17 | Oct-17 | Nov -17 | Dec-17 | Jan-18 | Feb-18 | Mar-18 | Apr-18 | May-18 | Jun-18 | Total FY <u>2018</u> |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|---------------|----------------------|
| Opening Non-Segregated Operating Cash Balance | \$2,058.0 | \$1,307.3 | \$2,304.1 | \$2,328.6 | \$2,147.2 | \$1,841.5 | \$1,897.8 | \$2,582.3 | \$2,165.8 | \$1,775.8 | \$2,897.4 | \$2,666.2 | \$2,058.0 |
| Operating Activities: | | | | | | | | | | | | | |
| Budgetary Funds: | | | | | | | | | | | | | |
| Transfer from/(to) Stabilization Fund | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Budgetary Revenue/Inflows | 3,443.5 | 3,135.6 | 4,243.8 | 2,884.8 | 3,198.0 | 4,075.2 | 4,593.3 | 3,147.2 | 4,252.6 | 5,359.6 | 3,466.9 | 4,761.3 | 46,561.8 |
| Total Budgetary Expenditures/Outflows | 4,009.6 | 3,802.5 | 3,039.0 | 3,275.4 | 3,335.4 | 3,534.3 | 3,278.3 | 3,531.5 | 3,669.3 | 3,564.4 | 3,071.1 | 3,179.4 | 41,290.2 |
| Net Budgetary Funds Non Budgetary Funds (Non Budgetary, Higher Ed and Trust Funds): | (566.1) | (667.0) | 1,204.8 | (390.6) | (137.4) | 540.9 | 1,315.0 | (384.3) | 583.3 | 1,795.2 | 395.8 | 1,582.0 | 5,271.6 |
| Total Non Budgetary Revenue/Inflows | 1,037.1 | 1,516.3 | 1,052.3 | 1,363.4 | 881.0 | 874.5 | 676.4 | 1,003.3 | 234.1 | 797.2 | 1,226.0 | 1,271.9 | 11,933.6 |
| Total Non Budgetary Expenditures/Outflows | 1,177.4 | 1,281.9 | 2,276.6 | 1,176.6 | 1,206.1 | 1,377.7 | 1,312.8 | 1,126.6 | 1,255.9 | 936.3 | 1,317.6 | 1,559.0 | 16,004.5 |
| Net Non Budgetary Funds Net Undesignated Revenue/Inflows and | (140.4) | 234.4 | (1,224.2) | 186.8 | (325.0) | (503.3) | (636.4) | (123.3) | (1,021.8) | (139.1) | (91.7) | (287.1) | (4,070.9) |
| Expenditures/Outflows | 3.2 | 18.6 | 5.2 | 6.7 | 6.2 | 6.0 | 7.2 | 7.8 | 7.5 | 9.2 | 9.9 | 25.0 | 112.4 |
| Net Operating Activities | (\$703.3) | (\$414.0) | (\$14.3) | (\$197.1) | (\$456.2) | \$43.6 | \$685.8 | (\$499.8) | (\$430.9) | \$1,665.3 | \$314.1 | \$1,319.9 | \$1,313.1 |
| Federal Grants: | | | | | | | | | | | | | |
| Total Federal Grants Revenue/Inflows | 167.8 | 162.4 | 176.7 | 141.4 | 195.8 | 201.0 | 245.9 | 188.6 | 244.6 | 197.2 | 192.5 | 292.1 | 2,406.0 |
| Total Federal Grants Expenditures/Outflows | 199.2 | 206.5 | 128.8 | 185.0 | 176.3 | 248.7 | 204.8 | 203.0 | 198.8 | 214.4 | 193.3 | 240.2 | 2,398.9 |
| Net Federal Grants | (\$31.4) | (\$44.1) | \$47.9 | (\$43.7) | \$19.5 | (\$47.7) | \$41.2 | (\$14.4) | \$45.8 | (\$17.1) | (\$0.8) | \$51.9 | \$7.1 |
| Capital Funds: | | | | | | | | | | | | | |
| Total Capital Revenue/Inflows | 327.2 | 386.7 | 222.2 | 312.4 | 411.6 | 322.7 | 199.9 | 270.1 | 148.0 | 168.3 | 193.6 | 388.6 | 3,351.4 |
| Total Capital Expenditures/Outflows | 343.2 | 431.9 | 231.3 | 253.0 | 280.6 | 262.3 | 242.3 | 172.5 | 152.8 | 187.9 | 230.3 | 310.0 | 3,098.1 |
| Net Capital Funds | (\$16.0) | (\$45.2) | (\$9.1) | \$59.4 | \$131.0 | \$60.4 | (\$42.4) | \$97.7 | (\$4.9) | (\$19.6) | (\$36.6) | \$78.6 | \$253.2 |
| Financing Activities: | | | | | | | | | | | | | |
| Cash Flow Financing Activities Inflows: | | | | | | | | | | | | | |
| Commercial Paper | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Revenue Anticipation Notes (RANS) | 0.0 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,500.0 |
| Total Cash Flow Financing Activities Inflows | 0.0 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,500.0 |
| Cash Flow Financing Activities Outflows: | | | | | | | | | | | | | |
| $Commercial\ Paper-(Principal+Interest)$ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RANS - (Principal + Interest) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 507.0 | 507.8 | 508.7 | 1,523.5 |
| Total Cash Flow Financing Activities Outflows | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 507.0 | 507.8 | 508.7 | 1,523.5 |
| Net Financing Activities | \$0.0 | \$1,500.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | (\$507.0) | (\$507.8) | (\$508.7) | (\$23.5) |
| Ending Non-Segregated Operating Cash Balance | \$1,307.3 | \$2,304.1 | \$2,328.6 | \$2,147.2 | \$1,841.5 | \$1,897.8 | \$2,582.3 | \$2,165.8 | \$1,775.8 | \$2,897.4 | \$2,666.2 | \$3,607.9 | \$3,607.9 |

SOURCE: Office of the Treasurer and Receiver-General.
(1) Totals may not add due to rounding.

Overview of Fiscal 2019 Non-Segregated Operating Cash Flow (in millions) (1)

| | Jul-18 | Aug-18 (2) | Sep -18 (2) | Oct-18 (2) 1 | Nov -18 (2) | Dec-18 (2) | Jan-19 (2) | Feb-19 (2) | Mar-19 (2) | Apr-19 (2) | May-19 (2) | Jun-19 (2) | Total FY 2019 (2) |
|---|-----------|-------------|-------------|--------------|-------------|------------|------------|------------|------------|------------|------------|------------|----------------------|
| Opening Non-Segregated Operating Cash Balance | \$3,607.9 | \$2,643.2 | \$3,000.0 | \$3,597.9 | \$2,935.2 | \$2,229.2 | | \$3,037.1 | \$2,227.6 | \$2,886.3 | \$3,552.1 | \$2,755.6 | \$3,607.9 |
| Operating Activities: | . , | . , | . , | . , | . , | . , | . , | . , | . , | . , | . , | . , | . , |
| Budgetary Funds: | | | | | | | | | | | | | |
| Transfer from/(to) Stabilization Fund | (513.9) | 0.0 | 0.0 | 0.0 | (15.7) | (0.7) | (0.7) | (0.7) | (0.7) | (0.7) | (0.7) | (0.7) | (534.5) |
| Total Budgetary Revenue/Inflows | 2,759.1 | 3,013.5 | 4,601.1 | 3,388.4 | 3,420.3 | 4,420.1 | 4,434.5 | 3,316.7 | 4,045.6 | 5,324.9 | 3,686.8 | 4,500.3 | 46,911.3 |
| Total Budgetary Expenditures/Outflows | 3,393.4 | 4,964.2 | 3,537.6 | 3,598.3 | 3,717.4 | 3,498.1 | 3,687.0 | 3,817.2 | 3,087.4 | 3,724.2 | 3,626.6 | 3,087.6 | 43,739.2 |
| Net Budgetary Funds Non Budgetary Funds (Non Budgetary, Higher Ed and Trust Funds): | (634.4) | (1,950.7) | 1,063.5 | (209.9) | (297.1) | 922.0 | 747.5 | (500.5) | 958.2 | 1,600.7 | 60.2 | 1,412.7 | 3,172.0 |
| Total Non Budgetary Revenue/Inflows | 1,057.5 | 1,971.8 | 807.7 | 810.7 | 910.3 | 935.6 | 801.1 | 802.2 | 849.7 | 824.3 | 972.6 | 837.0 | 11,580.8 |
| Total Non Budgetary Expenditures/Outflows | 1,240.2 | 1,158.6 | 1,205.6 | 1,132.5 | 1,251.6 | 1,411.9 | 1,124.3 | 1,180.3 | 1,158.3 | 1,190.2 | 1,365.3 | 1,189.0 | 14,607.7 |
| Net Non Budgetary Funds Net Undesignated Revenue/Inflows and | (182.8) | 813.2 | (397.8) | (321.8) | (341.3) | (476.2) | , , | (378.0) | (308.6) | (365.9) | (392.7) | (351.9) | (3,026.9) |
| Expenditures/Outflows | 7.7 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 68.2 |
| Net Operating Activities | (\$809.5) | (\$1,132.0) | \$671.1 | (\$526.2) | (\$632.9) | \$451.2 | \$429.9 | (\$873.1) | \$655.2 | \$1,240.3 | (\$327.0) | \$1,066.3 | \$213.3 |
| Federal Grants: | | | | | | | | | | | | | |
| Total Federal Grants Revenue/Inflows | 156.8 | 170.0 | 175.0 | 140.0 | 180.0 | 195.0 | 185.0 | 190.0 | 180.0 | 200.0 | 185.0 | 220.0 | 2,176.8 |
| Total Federal Grants Expenditures/Outflows | 208.8 | 175.5 | 139.9 | 179.5 | 174.8 | 220.0 | | 181.0 | 203.0 | 184.0 | 187.0 | 219.0 | 2,266.4 |
| Net Federal Grants | (\$52.0) | (\$5.5) | \$35.1 | (\$39.5) | \$5.2 | (\$25.0) | (\$8.9) | \$9.0 | (\$23.0) | \$16.0 | (\$2.0) | \$1.0 | (\$89.6) |
| Capital Funds: | | | | | | | | | | | | | |
| Total Capital Revenue/Inflows | 243.1 | 371.9 | 330.8 | 300.5 | 325.4 | 212.5 | 291.3 | 258.2 | 259.6 | 192.4 | 268.2 | 223.8 | 3,277.6 |
| Total Capital Expenditures/Outflows | 346.2 | 377.6 | 439.2 | 397.4 | 403.7 | 257.3 | 285.8 | 203.6 | 233.1 | 269.9 | 221.1 | 244.6 | 3,679.5 |
| Net Capital Funds | (\$103.2) | (\$5.7) | (\$108.4) | (\$96.9) | (\$78.3) | (\$44.8) | \$5.5 | \$54.6 | \$26.5 | (\$77.5) | \$47.1 | (\$20.8) | (\$401.9) |
| Financing Activities: | | | | | | | | | | | | | |
| Cash Flow Financing Activities Inflows: | | | | | | | | | | | | | |
| Commercial Paper | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Revenue Anticipation Notes (RANS) | 0.0 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,500.0 |
| Total Cash Flow Financing Activities Inflows | 0.0 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1,500.0 |
| Cash Flow Financing Activities Outflows: | | | | | | | | | | | | | |
| $Commercial\ Paper-(Principal\ +\ Interest)$ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| RANS-(Principal+Interest) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 513.0 | 514.6 | 516.1 | 1,543.7 |
| Total Cash Flow Financing Activities Outflows | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 513.0 | 514.6 | 516.1 | 1,543.7 |
| Net Financing Activities | \$0.0 | \$1,500.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | \$0.0 | (\$513.0) | (\$514.6) | (\$516.1) | (\$43.7) |
| Ending Non-Segregated Operating Cash Balance | \$2,643.2 | \$3,000.0 | \$3,597.9 | \$2,935.2 | \$2,229.2 | \$2,610.6 | \$3,037.1 | \$2,227.6 | \$2,886.3 | \$3,552.1 | \$2,755.6 | \$3,285.9 | \$3,285.9 |

SOURCE: Office of the Treasurer and Receiver-General.

(1) Totals may not add due to rounding.

(2) Figures are estimated.

STATE WORKFORCE

The following table sets forth information regarding the Commonwealth's full-time equivalent (FTE) workforce as of the end of the last five fiscal years.

State Workforce (1)

| | June 2014 | <u>June 2015</u> | June 2016 (2) | June 2017 | <u>June 2018</u> |
|---|---------------|------------------|---------------|---------------|------------------|
| Executive Office | 70 | 75 | 75 | 74 | 77 |
| Executive Departments | | | | | |
| Administration and Finance | 2,872 | 2,979 | 2,593 | 2,274 | 2,214 |
| Energy and Environmental Affairs | 1,900 | 1,907 | 1,773 | 1,736 | 1,725 |
| Health and Human Services | 19,675 | 20,088 | 19,560 | 19,849 | 20,162 |
| Board of Library Commissioners | 10 | 11 | - | - | - |
| Housing and Economic Development | 702 | 699 | 673 | 640 | 748 |
| Labor and Workforce Development | 250 | 234 | 236 | 231 | 234 |
| Executive Office of Education | 715 | 582 | 569 | 507 | 523 |
| Public Safety and Security | 8,808 | 8,620 | 8,373 | 7,994 | 8,042 |
| Elder Affairs | 39 | 36 | - | - | - |
| Technology Services and Security | - | - | - | 333 | 354 |
| Federal Grant, Trust and Capital Funded (3) | 9,317 | 9,472 | 8,847 | 8,139 | <u>8,133</u> |
| Subtotal under Governor's Authority | 44,358 | 44,703 | 42,699 | 41,777 | 42,212 |
| Judiciary | 7,196 | 7,264 | 7,263 | 7,208 | 7,229 |
| Higher Education | 24,026 | 24,783 | 25,212 | 25,283 | 24,887 |
| Other (4) | _10,910 | 11,010 | _11,040 | _11,092 | _11,048 |
| Total (5) | <u>86,490</u> | <u>87,760</u> | 86,213 | <u>85,360</u> | <u>85,376</u> |

SOURCE: Office of the Comptroller.

- (1) This table has been revised from prior presentations to conform to the presentation in the Statutory Basis Financial Reports.
- (2) Figures for June, 2016 and thereafter include the Board of Library Commissioners in Other and Elder Affairs in Health and Human Services.
- (3) The Massachusetts Department of Transportation is included in Federal Grant, Trust, and Capital Funded.
- (4) Other includes members of the Legislature and their staff, constitutional officers, other independently elected officials and other independent state agencies.
- (5) Totals may not add due to rounding.

Unions and Labor Negotiations

Under Massachusetts law, all employees of the Commonwealth, with the exception of managerial and confidential employees and employees of the Legislature, have the right to bargain collectively with the Commonwealth through certified employee organizations recognized as exclusive bargaining representatives for appropriate bargaining units. The Human Resources Division of the Executive Office for Administration and Finance conducts the collective bargaining negotiations with all employees of the Commonwealth (except those noted below). Such negotiations may cover wages, hours and other terms and conditions of employment, but may not include the levels of pension and group insurance benefits. All labor agreements negotiated by the Human Resources Division are subject to approval by the Secretary of Administration and Finance and, once approved, are forwarded to the Legislature for funding approval. Labor contracts are often funded by supplemental appropriations or advance-funded through reserve accounts.

MassDOT, the Trial Court, the Lottery Commission, the Alcohol Beverage Control Commission, state sheriffs, the Registries of Deeds under the control of the Secretary of the Commonwealth, state universities and community colleges through the Board of Higher Education, the Personal Care Attendant Workforce Council and the Department of Early Education and Care (EEC) (for bargaining with family child care providers) negotiate directly with their respective employee representatives, but wage increases and other economic provisions contained in such agreements are subject to the review of the Governor and to funding approval by the Legislature. Also, if the Governor does not recommend the requested appropriation to fund contractual increases, he may refer the contracts back to the parties for further negotiation.

The University of Massachusetts submits 22 of its collective bargaining agreements for approval under the process described above, but also uses some of its retained revenue to fund other collective bargaining agreements.

Approximately 35,334 executive branch full-time-equivalent state employees are organized in 13 bargaining units, the employees of the Commonwealth's colleges and universities are organized in 47 bargaining units, and the employees of the judicial branch, MassDOT, the Lottery Commission, the Registries of Deeds, the state sheriffs, Personal Care Attendants at MassHealth, and family child care providers at the Department of Early Education and Care are organized in 67 bargaining units. Public employees of the Commonwealth do not have a legal right to strike or otherwise withhold services.

The following is a description of certain terms of the most recent agreements with the collective bargaining units within the responsibility of the Human Resources Division.

- 1. The contract with the National Association of Government Employees (NAGE), representing Units 1, 3 and 6, runs from July 1, 2017 through June 30, 2020, and provides salary increases of 1% (2% if fiscal 2018 revenues exceed \$27.072 billion) in 2017, 2% in 2018, and 2% in 2019, effective July 1 of each year. The total estimated incremental cost of the contract is \$65.7 million.
- 2. The contract with the American Federation of State, County and Municipal Employees, representing Unit 2, runs from July 1, 2017 through June 30, 2020, and provides a salary increase of 1% in July, 2017 (2% if fiscal 2018 revenues exceed \$27.072 billion). The agreement also provides semi-annual increases of 1% in January and July of calendar 2019 and 2020, respectively (equal to an annualized increase of 2% in the years of 2019 and 2020). The total estimated incremental cost of the contract is \$36.8 million.
- 3. The contract with the Massachusetts Correction Officers Federated Union, representing Unit 4, ran from July 1, 2015 through June 30, 2018 and provided annual increases of 2%, 3.75% and 3.75%, effective July 1, 2015, 2016 and 2017, respectively. The total estimated incremental cost of the contract was \$46.9 million. This contract has expired, and negotiations are ongoing.
- 4. The contract with the New England Police Benevolent Association (NEPBA), representing Unit 4A, runs from July 1, 2017 through June 30, 2020, and provides for salary increases of 1% (2% if fiscal 2018 revenues exceed \$27.072 billion) in 2017, 2% in 2018, and 2% in 2019, effective July 1 of each year. The total estimated incremental cost of the contract is \$0.9 million.
- 5. The contract with the Coalition of Public Safety, representing Unit 5, ran from July 1, 2015 through June 30, 2018, and provided annual increases of 2%, 3%, and 3%. The total estimated incremental cost of the contract was \$2.3 million. This contract has expired, and negotiations are ongoing.
- 6. The contract with the State Police Association of Massachusetts, representing Unit 5A, ran from January 1, 2015 through December 31, 2017, and provided annual increases of 2%, 3.75%, and 3.75%. The total estimated incremental cost of the contract was \$38.5 million. This contract has expired, and negotiations are ongoing.
- 7. The contract with the Massachusetts Nurses Association, representing Unit 7, runs from January 1, 2018 through December 31, 2020, and provides salary increases of 1% (2% if fiscal 2018 revenues exceed \$27.072 billion) in 2017, 2% in 2018, and 2% in 2019, effective July 1 of each year. The total estimated incremental cost of the contract is \$20.3 million.
- 8. The contract with the Service Employees International Union, representing Units 8 and 10, runs from January 1, 2017 through December 31, 2019 and provides a salary increase of 1% in January 2017 (2% if fiscal 2018 revenues exceed \$27.072 billion). The agreement also provides increases of 2% in January 2018 and 2019. The total estimated incremental cost of the contract is \$74.1 million.
- 9. The contract with the Massachusetts Organization of State Engineers and Scientists (MOSES), representing Unit 9, runs from July 1, 2017 through June 30, 2020, and provides salary increases of 1% (2% if fiscal 2018 revenues exceed \$27.072 billion) in 2017, 2% in 2018, and 2% in 2019, effective July 1 of each year. The total estimated incremental cost of the contract is \$9.9 million.

10. The contract with the International Association of Fire Fighters, representing Unit 11, ran from January 1, 2015 through December 31, 2017, and provided annual increases of 2%, 3.5%, and 3.5%. The total estimated incremental cost of the contract was \$0.5 million. This contract has expired, and negotiations are ongoing.

The following table sets forth information regarding the 13 bargaining units that are within the responsibility of the Human Resources Division.

Human Resources Division Bargaining Units (1)

| Contract <u>Unit</u> | Bargaining Union | Type of Employee | <u>FTEs</u> | Contract Expiration Dates |
|-------------------------|---|--|-------------|------------------------------|
| 1, 3, 6 | National Association of Government Employees | Clerical, Skilled Trades, Administrative Professionals | 9,613 | 6/30/20 |
| 2 | Alliance/American Federation of State, County & Municipal Employees and Service Employees International Union | Institutional services | 7,925 | 6/30/20 |
| 4 | Massachusetts Correction Officers Federated Union | Corrections | 3,470 | 6/30/18 (2) |
| 4A | New England Police Benevolent Association | Corrections | 81 | 6/30/20 |
| 5 | Coalition of Public Safety | Law enforcement | 182 | 6/30/18 (2) |
| 5A | State Police Association of Massachusetts | State Police | 2,122 | 12/31/17 (2) |
| 7 | Massachusetts Nurses Association | Health professionals | 1,565 | 12/31/20 |
| 8, 10 | Alliance/Service Employees International Union | Social workers, Secondary Education | 8,561 | 12/31/19 |
| 9 | Massachusetts Organization of State Engineers and Scientists | Engineers/scientists | 1,750 | 6/30/20 |
| 11 | International Association of Fire Fighters | Fire fighters | 64 | 12/31/17 (2) |
| | | Total | 35,334 | |

SOURCE: Executive Office for Administration and Finance.

⁽¹⁾ Numbers represent full-time equivalent filled positions (FTEs) in the standard workforce as of November 10, 2018 whose positions are established in accounts funded by all sources (the annual operating budget, capital projects funds, direct federal grants and expendable trusts and other non-appropriated funds).

(2) This contract has expired, and negotiations are ongoing.

PENSION AND OPEB FUNDING

Retirement Systems

Almost all non-federal public employees in the Commonwealth participate in defined-benefit pension plans administered pursuant to state law by 104 public retirement systems. The Commonwealth is responsible for the payment of pension benefits for Commonwealth employees (members of the state employees' retirement system) and for teachers of the cities, towns and regional school districts throughout the state (including members of the Massachusetts teachers' retirement system and teachers in the Boston public schools, who are members of the Boston Retirement System but whose pensions are also the responsibility of the Commonwealth). The Commonwealth is also responsible for cost-of-living adjustments (COLAs) granted by local systems from 1981 to 1996.

The members of the retirement system do not participate in the Social Security System. Employees of certain independent authorities and agencies, such as the Massachusetts Water Resources Authority, and of counties, cities and towns (other than teachers) are covered by 102 separate retirement systems and the Commonwealth is not responsible for making contributions towards the funding of these retirement systems. Pension benefits for state employees are administered by the State Retirement Board, and pension benefits for teachers are administered by the Massachusetts Teachers' Retirement Board. Investment of the assets of the state employees' and Massachusetts teachers' retirement systems is managed by the Pension Reserves Investment Management (PRIM) Board. In the case of all other retirement systems, the retirement board for the system administers pension benefits and manages investment of assets. Retirement board members are required to complete 18 hours of training and to file annual statements of financial interest with the Public Employee Retirement Administration Commission (PERAC). Many such retirement boards invest their assets with the PRIM Board, and the PRIM Board may take over the assets of local retirement systems that are less than 65% funded and have failed to come within 2% of the PRIM Board's performance over the previous 10-year period. With a very small number of exceptions, the members of these state and local retirement systems do not participate in the federal Social Security System.

The Massachusetts State Employees' Retirement System (MSERS) and the Massachusetts Teachers' Retirement System (MTRS) are the two largest plans of the public contributory retirement systems operated in the Commonwealth. Membership in MSERS and MTRS as of January 1, 2018, the date of the most recent combined valuation, is as follows:

Retirement Systems Membership

| | MSERS | MTRS |
|--|-------------------------|------------------|
| Retirees and beneficiaries currently receiving benefits | 63,194 | 66,078 |
| Terminated employees entitled to benefits but not yet receiving them | 4,424 | <u>N/A</u> |
| Subtotal Current Members | 67,618 <u>87,822</u> | 66,078 93,119 |
| Total | 155,440 | 159,197 |

SOURCE: Public Employee Retirement Administration Commission

The MSERS is a cost sharing, multiple-employer defined-benefit public employee retirement system. The MTRS is a defined-benefit public employee retirement system managed by the Commonwealth on behalf of municipal teachers and municipal teacher retirees. The Commonwealth is a non-employer contributor and is responsible for all contributions and future benefits of the MTRS. Members become vested after 10 years of creditable service. For members who joined the system prior to April 2, 2012 superannuation retirement allowance may be received upon the completion of 20 years of service or upon reaching the age of 55 with 10 years of service. Normal retirement for those employees who were system members before April 2, 2012 occurs at age 65; for certain hazardous duty and public safety positions, normal retirement is at age 55. Most members who joined the system after April 1, 2012 cannot retire prior to age 60.

The Commonwealth's retirement systems' funding policies have been statutorily established. The Legislature has the authority to amend these policies. The annuity portion of the MSERS and the MTRS retirement allowance is funded by employees, who contribute a percentage of their regular compensation. Costs of administering the plan are funded out of plan assets. The policies provide for uniform benefit and contribution requirements for all contributory public employee retirement systems. These requirements generally provide for superannuation retirement allowance benefits up to a maximum of 80% of a member's highest three-year average annual rate of regular compensation. For employees hired after April 1, 2012, retirement allowances are calculated on the basis of the last five years or any five consecutive years, whichever is greater in terms of compensation. Benefit payments are based upon a member's age, length of creditable service and group creditable service, and group classification.

Boston teachers are not included in the membership data shown above for the MTRS. Legislation approved in May, 2010 changed the methodology for the Commonwealth's funding of pension benefits paid to Boston teachers. Prior to this change, the Commonwealth reimbursed the City of Boston for pension benefits paid to Boston teachers as certified by the Boston Retirement System (BRS). Those costs were funded one fiscal year in arrears. The cost of pension benefits of the other participants of the BRS is the responsibility of the City of Boston. The BRS is a cost-sharing multiple-employer pension system that is not administered by the Commonwealth and is not part of the reporting entity of the Commonwealth for accounting purposes. The 2010 legislation clarified that the Commonwealth is responsible for all employer contributions and future benefit requirements for Boston teachers that are members of the BRS. The Commonwealth's actuarially determined contribution (or ADC, defined as a target or recommended contribution to a defined benefit pension plan for the reporting period, determined in conformity with Actuarial Standards of Practice) to the BRS for fiscal 2019 has been determined to be \$143.1 million.

Subject to legislative approval, annual increases in cost-of-living allowances are provided in an amount equal to the lesser of 3% or the previous year's percentage increase in the United States consumer price index on the first \$13,000 of benefits for members of the MSERS and MTRS. The Legislature approved the 3% increase in cost-of-living allowances for fiscal 2019. The Commonwealth pension funding schedule (discussed below) assumes that annual increases of 3% will be approved for its retirees.

The MSERS and the MTRS, in conjunction with the Commonwealth, are evaluating whether certain of the statutes or practices governing the systems may have been in conflict with the exclusive benefit rule of Section 401(a)(2) of the Internal Revenue Code or other federal tax law requirements relating to operation of taxexempt pension plans. The activities being reviewed include (i) the statutorily directed funding of the budget for PERAC solely from the investment income accounts of MSERS and MTRS, (ii) the statutorily directed contributions made from the MSERS account in the PRIT Fund to a separate optional retirement plan available to certain employees of the Commonwealth's higher education system, (iii) the statutorily mandated reimbursements paid by the MSERS to local retirement systems for local cost-of-living allowances for certain participants of those systems, (iv) the deposit of reimbursement revenues received from local retirement systems to the Commonwealth's General Fund rather than to the MTRS and MSERS accounts in the PRIT Fund, and (v) the deposit of federal grant fringe payments to the General Fund rather than to the MTRS and MSERS accounts in the PRIT Fund. The Commonwealth, PERAC, MSERS and the MTRS have each engaged outside tax counsel to review these activities. On March 28, 2017, the Governor approved legislation to address prospectively certain aspects of the issues described above. Additional corrective legislation was approved as part of the Commonwealth's General Appropriations Act for fiscal 2018, approved on July 17, 2017. The Executive Office for Administration and Finance has submitted to the Internal Revenue Service for its consideration a request for a closing agreement in which the Commonwealth describes the activities listed above, explains the corrective actions already taken by legislation, and requests an affirmation that these activities do not adversely affect the tax qualification of the MSERS and MTRS in light of the corrections already made.

Employee Contributions

The MSERS and MTRS are partially funded by employee contributions of regular compensation. The following tables indicate current employee contribution rates (figures are approximate):

Employee Contribution Rates

| <u>MTRS (1)</u> | | | |
|----------------------|------------------|---------------|---------------|
| | % of | Active | % of Total |
| Hire Date | Compensation (1) | Members | Active |
| Pre-1975 | 5% | 100 | 0.1% |
| 1975-1983 | 7 | 442 | 0.5 |
| 1984-June 30, 1996 | 8 | 6,018 | 6.5 |
| July 1, 1996-Present | 9 | 15,463 | 16.6 |
| July 1, 2001-Present | 11 | 71,096 | <u>76.3</u> |
| Totals | | <u>93,119</u> | <u>100.0%</u> |

SOURCE: Public Employee Retirement Administration Commission. Membership data from Teachers' Retirement System January 1, 2018 Actuarial Valuation.

(1) Employees hired after January 1, 1979 (except those contributing 11%) contribute an additional 2% of any regular compensation in excess of \$30,000 annually. Legislation enacted in fiscal 2000 established an alternative superannuation retirement benefit program for teachers hired on or after July 1, 2001 (and others who opt in) with an 11% contribution requirement for a minimum of five years. The contribution rate for most employees hired after April 1, 2012 will be reduced to 6% after 30 years of creditable service.

| <u>MSERS (1)</u> | | | |
|---------------------------|------------------|----------------|---------------|
| | % of | Active | % of Total |
| <u>Hire Date</u> | Compensation (1) | Members | Active |
| Pre-1975 | 5% | 382 | 0.4% |
| 1975-1983 | 7 | 2,956 | 3.4 |
| 1984-June 30, 1996 | 8 | 15,766 | 17.9 |
| July 1, 1996-Present | 9 | 67,942 | 77.4 |
| State Police 1996-Present | 12 | <u>776</u> | 0.9 |
| Totals | | <u>87,822</u> | <u>100.0%</u> |

SOURCE: Public Employee Retirement Administration Commission. Membership data from State Retirement Board January 1, 2018 Actuarial Valuation.

Funding Schedule

The retirement systems were originally established as "pay-as-you-go" systems, meaning that amounts were appropriated each year to pay current benefits, and no provision was made to fund currently the future liabilities already incurred. In fiscal 1988, the Commonwealth began to address the unfunded liabilities of the two state systems by making appropriations to pension reserves. Under current law such unfunded liability is required to be amortized to zero by June 30, 2040. The law also requires that the Secretary of Administration and Finance file a proposed funding schedule with the legislature every three years identifying the appropriations or transfers required to amortize the unfunded liability to zero, to meet the normal cost of all future benefits for which the Commonwealth is obligated and to meet any other component of the Commonwealth's pension liability. Previously designated amounts can be adjusted based on a new funding schedule so long as the adjustments represent an increase in the scheduled amounts for those years. The law requires the funding schedule submitted by the Secretary to be based on actuarial valuation reports and requires the Secretary to provide the actuarial, economic and demographic assumptions upon which the reports are based. The funding schedule is filed with the House Committee on Ways and Means and is deemed approved if no action is taken by the committee within 45 days.

The most recent funding schedule for payments into the Commonwealth's Pension Liability Fund was filed by the Secretary of Administration and Finance on January 13, 2017. The assumptions underlying the funding schedule include valuation of assets and liabilities as of January 1, 2016, an annual rate of return on assets of 7.5%, and appropriation increases of 8.94% per year until the final amortization payment in fiscal 2036 (four years before the statutory requirement). The funding schedule also fully amortizes by fiscal 2027 the liabilities attributable to the employee retirement incentive program approved by the Governor on May 4, 2015.

⁽¹⁾ Employees hired after January 1, 1979 contribute an additional 2% of any regular compensation in excess of \$30,000 annually.

Current Funding Schedule for Pension Obligations (in thousands)

| Fiscal Year | Payments | Fiscal Year | Payments |
|-------------|-----------------|-------------|-----------------|
| 2018 | 2,394,498 | 2028 | 5,635,069 |
| 2019 | 2,608,453 | 2029 | 6,138,577 |
| 2020 | 2,841,525 | 2030 | 6,687,075 |
| 2021 | 3,095,422 | 2031 | 7,284,583 |
| 2022 | 3,372,006 | 2032 | 7,935,479 |
| 2023 | 3,673,304 | 2033 | 8,644,535 |
| 2024 | 4,001,523 | 2034 | 9,416,947 |
| 2025 | 4,359,070 | 2035 | 10,258,375 |
| 2026 | 4,748,564 | 2036 | 11,174,988 |
| 2027 | 5,172,860 | 2037 | 1,370,935 |

SOURCE: Executive Office for Administration and Finance

Actuarial Valuations

The most recent valuation report for the Commonwealth's total pension obligation is dated September 21, 2018. In this report, the unfunded actuarial accrued liability for the Commonwealth's total pension obligation as of January 1, 2018, based on the plan provisions in effect at the time and on member data and asset information as of December 31, 2017, was approximately \$41.399 billion, including approximately \$14.208 billion for MSERS, \$24.596 billion for MTRS, \$2.463 billion for Boston teachers that are members of the BRS, and \$132.0 million for cost-of-living increases reimbursable to local systems. This valuation estimates the total actuarial accrued liability as of January 1, 2018 to be approximately \$96.317 billion (comprising \$40.457 billion for MSERS, \$51.653 billion for MTRS, \$4.075 billion for Boston teachers and \$132.0 million for cost-of-living increases reimbursable to local systems).

Differences each year between the actual experience of the plan and the experience projected by the actuarial assumptions are reflected by adjustments to the unfunded actuarial accrued liability. An experience difference which increases the unfunded actuarial accrued liability is an actuarial loss and one which decreases the unfunded actuarial accrued liability is an actuarial gain.

Total assets were valued on an actuarial basis at approximately \$54.918 billion based on a five-year average valuation method, which equaled 94.6% of the December 31, 2017 total asset market value. During 2017 there was an overall actuarial gain of \$1.26 billion. There was a non-investment related gain on actuarial liability of approximately \$93 million. There was a gain of approximately \$1.17 billion on the actuarial value of assets.

The January 1, 2018 valuation report reflects a 7.35% investment return assumption, reduced from the 7.50% assumption used in the January 1, 2017 valuation. The investment return assumption had previously decreased several times, from 8.25% as of January 1, 2012 to 7.50% as of January 1, 2016. The change in the investment return assumption from 7.50% to 7.35% increased the total actuarial accrued liability by \$1.52 billion.

For the January 1, 2015 valuation, a fully generational mortality assumption was adopted that reflected expected future mortality improvements (increasing life expectancy). This assumption was adopted based on a review of retiree mortality in 2012, 2013 and 2014. PERAC performed an updated analysis of retiree mortality in 2015 and 2016 and, based on this review, the generational mortality assumption was adjusted in the January 1, 2017 valuation. PERAC maintained this assumption in the January 1, 2018 valuation for most retired members. There was a small adjustment to the mortality assumption for disability retirees of MSERS that increased the actuarial liability by \$9.0 million.

PERAC issued detailed experience analyses in 2014 for MSERS and MTRS. These experience studies encompassed the years 2006-2011 and reviewed salary increases and rates of retirement, disability, turnover and mortality. As detailed above, PERAC performed an analysis of mortality for retirees of MSERS and MTRS in 2015 and 2017.

The Actuarial Cost Method which is used to determine pension liabilities in the Commonwealth's valuations is known as the Entry Age Normal Cost Method. Under this method, the Normal Cost for each active member on the valuation date is determined as the level percent of salary, which, if paid annually from the date the

employee first became a retirement system member, would fully fund by retirement, death, disability or termination, the projected benefits which the member is expected to receive. The actuarial accrued liability for each member is determined as the present value as of the valuation date of all projected benefits which the member is expected to receive, minus the present value of future annual Normal Cost payments expected to be made to the fund. Since only active members have a Normal Cost, the actuarial accrued liability for inactive members, retirees and survivors is simply equal to the present value of all projected benefits. The unfunded actuarial accrued liability is the actuarial accrued liability less current assets.

The Normal Cost for a member will remain a level percent of salary for each year of membership, except for changes in provisions of the plan or the actuarial assumptions employed in projection of benefits and present value determinations. The Normal Cost for the entire system will also be changed by the addition of new members or the retirement, death, disability, or termination of members. The actuarial accrued liability for a member will increase each year to reflect the additional accrual of Normal Cost. It will also change if the plan provisions or actuarial assumptions change.

The actuarial value of assets is determined in accordance with the deferred recognition method, under which 20% of the gains or losses occurring in the prior year are recognized, 40% of those occurring two years prior are recognized, etc., so that 100% of gains and losses occurring five years ago are recognized. This has the effect of smoothing the short-term volatility of market values over a five-year period. The actuarial value of assets is adjusted, if necessary, in order to remain between 90% and 110% of market value. (In valuations prior to 1998, plan assets were determined at market value.) The actuarial value of assets as of January 1, 2018 was 94.6% of the market value. This figure was 101.7% as of January 1, 2017.

The following table shows, with respect to the Commonwealth's aggregate pension obligations, a 10-year comparison of the actuarial value of assets to the market values, the ratio of the actuarial value to market value, and the funded ratio based on actuarial value compared to the funded ratio based on the market value of assets:

Ten Year Comparison of Actuarial and Market Values of Pension Assets (in millions)

| Valuation Date (Jan. 1) | Actuarial Value of Assets (1) | Market Value of Assets | % of Actuarial Value to Market Value | Funded Ratio (Actuarial Value) | Funded Ratio (Market Value) |
|----------------------------|-------------------------------------|------------------------------|--|---|--------------------------------------|
| 2018 | \$54,918 | \$58,038 | 94.6% | 57.0% | 60.3% |
| 2017 | 51,952 | 51,107 | 101.7 | 56.7 | 55.8 |
| 2016 | 49,535 | 48,943 | 101.2 | 56.7 | 56.0 |
| 2015 | 48,106 | 50,290 | 95.7 | 59.0 | 61.7 |
| 2014 | 45,894 | 48,351 | 94.9 | 61.2 | 64.5 |
| 2013 | 43,517 | 43,760 | 99.4 | 60.6 | 60.9 |
| 2012 | 43,942 | 39,947 | 110.0 | 65.1 | 59.1 |
| 2011 | 45,631 | 41,482 | 110.0 | 71.1 | 64.6 |
| 2010 | 41,589 | 37,809 | 110.0 | 67.5 | 61.4 |
| 2009 | 37,058 | 33,689 | 110.0 | 62.7 | 57.0 |
| | , | , | | | |

SOURCE: Public Employee Retirement Administration Commission.

(1) Based on five-year average smoothing methodology.

The following tables show, for each of the MSERS and the MTRS and for Commonwealth obligations in the aggregate (including Boston teachers and cost-of-living allowances as well as MSERS and MTRS), the historical funded status for the most recent ten years, based on actuarial values and market values of assets:

Historical Pension Funding Progress for the Last Ten Fiscal Years - Actuarial Value (in thousands, except for percentages)

| | Actuarial Value of <u>Plan Assets</u> | Actuarial Accrued <u>Liability</u> | Unfunded Actuarial Accrued Liability (UAAL) | Funded <u>Ratio</u> | Annual Covered <u>Payroll</u> | UAAL as % of Covered <u>Payroll</u> |
|---|---|--|---|------------------------|-------------------------------------|--|
| MSERS Actuarial Valuation as of Jan. 1 | | | | | | |
| 2018 | \$26,248,250 | \$40,456,611 | \$14,208,361 | 64.9% | \$6,155,194 | 230.8% |
| 2017 | 24,773,042 | 38,316,719 | 13,543,677 | 64.7 | 5,927,012 | 228.6 |
| 2017 | 23,465,963 | 36,966,278 | 13,500,315 | 63.5 | 5,792,288 | 233.1 |
| 2015 | 22,720,160 | 33,679,150 | 10,958,990 | 67.5 | 5,591,911 | 196.0 |
| 2014 | 21,581,133 | 30,679,600 | 9,098,467 | 70.3 | 5,344,510 | 170.2 |
| 2013 | 20,317,389 | 29,385,442 | 9,068,053 | 69.1 | 5,183,195 | 175.0 |
| 2012 | 20,507,604 | 27,784,731 | 7,277,127 | 73.8 | 4,922,388 | 185.7 |
| 2011 | 21,244,900 | 26,242,776 | 4,997,876 | 81.0 | 4,808,250 | 103.9 |
| 2010 | 19,019,062 | 24,862,421 | 5,843,359 | 76.5 | 4,711,563 | 124.0 |
| 2009 | 16,992,214 | 23,723,240 | 6,731,026 | 71.6 | 4,712,655 | 142.8 |
| MTRS Actuarial Valuation | | | | | | |
| as of Jan. 1 | | | | | | |
| 2018 | \$27,057,700 | \$51,653,285 | \$24,595,585 | 52.4% | \$6,829,012 | 360.2% |
| 2017 | 25,638,136 | 49,193,503 | 23,555,367 | 52.1 | 6,583,871 | 357.8 |
| 2016 | 24,593,787 | 46,562,807 | 21,969,020 | 52.8 | 6,388,732 | 343.9 |
| 2015 | 23,946,759 | 44,115,769 | 20,169,010 | 54.3 | 6,204,274 | 325.1 |
| 2014 | 22,940,196 | 40,741,695 | 17,801,499 | 56.3 | 5,962,650 | 298.6 |
| 2013 | 21,787,470 | 39,135,218 | 17,347,748 | 55.7 | 5,783,294 | 300.0 |
| 2012 | 22,141,475 | 36,483,027 | 14,341,552 | 60.7 | 5,655,353 | 253.6 |
| 2011 | 23,117,952 | 34,890,991 | 11,773,039 | 66.3 | 5,558,311 | 211.8 |
| 2010 | 21,262,462 | 33,738,966 | 12,476,504 | 63.0 | 5,509,698 | 226.4 |
| 2009 | 18,927,731 | 32,543,782 | 13,616,051 | 58.2 | 5,389,895 | 252.6 |
| Aggregate Commonwealth Pension Obligations (1) Actuarial Valuation as of Jan. 1 | | | | | | |
| 2018 | \$54,918,125 | \$96,316,894 | \$41,398.769 | 57.0% | \$13,531,845 | 305.9% |
| 2017 | 51,952,206 | 91,573,998 | 39,621,792 | 56.7 | 13,059,709 | 303.4 |
| 2016 | 49,535,323 | 87,401,722 | 37,866,399 | 56.7 | 12,702,727 | 298.1 |
| 2015 | 48,105,862 | 81,535,003 | 33,429,141 | 59.0 | 12,302,162 | 271.7 |
| 2014 | 45,894,034 | 74,936,994 | 29,042,960 | 61.2 | 11,793,788 | 246.3 |
| 2013 | 43,517,498 | 71,865,832 | 28,348,334 | 60.6 | 11,408,407 | 248.5 |
| 2012 | 43,941,682 | 67,546,587 | 23,604,905 | 65.1 | 11,011,466 | 214.4 |
| 2011 | 45,630,507 | 64,219,135 | 18,588,628 | 71.1 | 10,811,975 | 171.9 |
| 2010 | 41,589,706 | 61,575,676 | 19,985,970 | 67.5 | 10,655,881 | 187.6 |
| 2009 | 37,057,703 | 59,142,155 | 22,084,452 | 62.7 | 10,537,212 | 209.6 |
| | | | | | | |

SOURCE: Public Employee Retirement Administration Commission.

⁽¹⁾ Aggregate Commonwealth pension obligations include obligations with respect to MSERS, MTRS, Boston teachers, and local cost-of-living adjustments from 1981 to 1996.

$\begin{array}{c} \textbf{Historical Pension Funding Progress for the Last Ten Fiscal Years - Market Value} \\ \textbf{(in thousands, except for percentages)} \end{array}$

| | Market Value of <u>Plan Assets</u> | Actuarial Accrued <u>Liability</u> | Unfunded Actuarial Accrued Liability (UAAL) | Funded <u>Ratio</u> | Annual Covered <u>Payroll</u> | UAAL as % of Covered <u>Payroll</u> |
|--|--|--|---|------------------------|-------------------------------------|--|
| MSERS | | | | | | |
| Actuarial Valuation as | | | | | | |
| of Jan. 1 2018 | \$27,735,916 | \$40,456,611 | \$12,720,695 | 68.6% | \$6,155,194 | 206.7% |
| 2017 | 24,366,420 | 38,316,719 | 13,950,299 | 63.6 | 5,927,012 | 235.4 |
| 2016 | 23,176,451 | 36,966,278 | 13,789,827 | 62.7 | 5,792,288 | 238.1 |
| 2015 | 23,739,487 | 33,679,150 | 9,939,663 | 70.5 | 5,591,911 | 177.8 |
| 2014 | 22,721,053 | 30,679,600 | 7,958,547 | 74.1 | 5,344,510 | 148.9 |
| 2013 | 20,405,004 | 29,385,442 | 8,980,438 | 69.4 | 5,183,195 | 173.3 |
| 2012 | 18,643,313 | 27,784,731 | 9,141,418 | 67.1 | 4,922,388 | 147.8 |
| 2011 | 19,313,545 | 26,242,776 | 6,929,231 | 73.6 | 4,808,250 | 144.1 |
| 2010 | 17,290,056 | 24,862,421 | 7,572,365 | 69.5 | 4,711,563 | 160.7 |
| 2009 | 15,447,467 | 23,723,240 | 8,275,773 | 65.1 | 4,712,655 | 175.6 |
| 2008 | 22,538,610 | 22,820,502 | 281,892 | 98.8 | 4,574,233 | 6.2 |
| MTRS Actuarial Valuation as of Jan. 1 | | | | | | |
| 2018 | \$28,597,562 | \$51,653,285 | \$23,055,723 | 55.4% | \$6,829,012 | 337.6% |
| 2017 | 25,225,451 | 49,193,503 | 23,968,052 | 51.3 | 6,583,871 | 364.0 |
| 2016 | 24,308,553 | 46,562,807 | 22,254,254 | 52.2 | 6,388,732 | 348.3 |
| 2015 | 25,046,692 | 44,115,769 | 19,069,077 | 56.8 | 6,204,274 | 307.4 |
| 2014 | 24,183,391 | 40,741,695 | 16,558,304 | 59.4 | 5,962,650 | 277.7 |
| 2013 | 21,934,211 | 39,135,218 | 17,201,007 | 56.0 | 5,783,294 | 297.4 |
| 2012 | 20,128,614 | 36,483,027 | 16,354,413 | 55.2 | 5,655,353 | 289.2 |
| 2011 | 21,016,320 | 34,890,991 | 13,874,671 | 60.2 | 5,558.311 | 249.6 |
| 2010 | 19,329,511 | 33,738,966 | 14,409,455 | 57.3 | 5,509,698 | 261.5 |
| 2009 | 17,207,028 | 32,543,782 | 15,336,754 | 52.9 | 5,389,895 | 284.5 |
| 2008 | 25,316,044 | 30,955,504 | 5,639,460 | 81.8 | 5,163,498 | 109.2 |
| Aggregate Commonwealth Pension <u>Obligations</u> (1) | | | | | | |
| Actuarial Valuation as of Jan. 1 | | | | | | |
| 2018 | \$58,037,680 | \$96,316,894 | \$38,279,214 | 60.3% | \$13,531,845 | 282.9% |
| 2017 | 51,107,139 | 91,573,998 | 40,466,859 | 55.8 | 13,059,709 | 309.9 |
| 2016 | 48,943,080 | 87,401,722 | 38,458,642 | 56.0 | 12,702,727 | 302.8 |
| 2015 | 50,289,770 | 81,535,003 | 31,245,233 | 61.7 | 12,302,162 | 254.0 |
| 2014 | 48,350,920 | 74,936,994 | 26,586,074 | 64.5 | 11,793,788 | 225.4 |
| 2013 2012 | 43,760,381 | 71,865,832 67,546,587 | 28,105,451 | 60.9 59.1 | 11,408,407 11,011,466 | 246.4 250.6 |
| 2012 2011 | 39,946,984 41,482,279 | 64,219,135 | 27,599,603 22,736,856 | 59.1 64.6 | 10,811,975 | 210.3 |
| 2011 | 37,808,823 | 61,575,676 | 23,766,853 | 61.4 | 10,655,881 | 223.0 |
| 2009 | 33,688,821 | 59,142,155 | 25,453,334 | 57.0 | 10,537,212 | 241.3 |
| 2008 | 49,234,569 | 56,636,710 | 7,402,141 | 86.9 | 10,156,252 | 72.9 |

SOURCE: Public Employee Retirement Administration Commission.

(1) Aggregate Commonwealth pension obligations include obligations with respect to MSERS, MTRS, Boston teachers, and local cost-of-living adjustments from 1981-1996.

Annual Required Contributions

The following table sets forth the annual required contribution (ARC) by the Commonwealth for each of the fiscal years indicated and the actual contributions made. The ARC was determined annually through fiscal 2014, based on the most recent Commonwealth valuation, under Governmental Accounting Standards Board (GASB) Statement No. 27. GASB 27 is no longer applicable with the implementation of GASB 67/68, as described below, but the Commonwealth expects to continue calculating the ARC under GASB 27 principles for comparison. Actuarial valuations have been performed annually since January 1, 2000. As noted above, the Commonwealth also develops a revised funding schedule by statute at least every three years, and the Commonwealth made the full contribution required, under the then-current funding schedule, for each year displayed in the table. The decrease from fiscal 2016 to fiscal 2017 shown below in the percentage of the ARC funded reflects the assumptions and plan changes described in the January 1, 2016 valuation report that increased plan liabilities. Similarly, assumption changes made in the 2017 and 2018 valuations affect the percentage of the ARC funded in fiscal 2018 and fiscal 2019; if there had been no assumption changes in the 2018 valuation, the percentage of the ARC funded would have been 78%.

The calculation of the Commonwealth's ARC assumes amortization of the unfunded actuarial liability on a 4.0% annual increasing basis to fiscal 2040. (This is the minimum allowable funding schedule for local systems under state pension law.) The amount shown in the table below for contributions made in the current fiscal year is the amount required by the current funding schedule. The amounts shown for contributions made in fiscal 2016 and fiscal 2017 include the costs associated with the early retirement incentive program (ERIP).

Annual Required Contributions and Other Pension Contributions

(in thousands, except for percentages)

| | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> |
|---|-------------|-------------|-------------|-------------|-------------|
| Annual required contribution (ARC) (1) | \$2,217,130 | \$2,600,000 | \$3,060,000 | \$3,292,000 | \$3,500,000 |
| Contributions made | \$1,793.000 | \$2,001,093 | \$2,198,093 | \$2,394,000 | \$2,608,000 |
| % of ARC funded for the fiscal year | 75% | 77% | 72% | 73% | 75% |
| ARC as ratio of total government expenditures (2) | 5.7% | 6.4% | 7.2% | 7.6% | 7.6% |

SOURCE: Public Employee Retirement Administration Commission.

On June 25, 2012, GASB voted to approve two new standards that modify the accounting and financial reporting of the Commonwealth's pension obligations, GASB Statement No. 67, Financial Reporting for Pension Plans, which was effective for the Commonwealth's fiscal 2014 CAFR, and GASB Statement No. 68, Accounting and Financial Reporting for Pensions, which was effective for the Commonwealth's fiscal 2015 CAFR. GASB 67 established new standards for defined benefit pension plan accounting and reporting, while GASB 68 required changes to governments' reporting of and inclusion of pension assets and liabilities in their annual CAFRs. GASB 68 requires governments to report in their statements of net position (or balance sheet) a net pension liability, defined as the difference between the total pension liability (the present value of projected benefit payments to employees based on their past service) and the assets (mostly investments reported at fair value) set aside in a trust and restricted to paying benefits to current employees, retirees, and their beneficiaries. The new standard requires recognition in the financial statements of pension expense, unlike GASB 27. The rate used to discount projected benefit payments to their present value is based on a single rate that reflects (a) the long-term expected rate of return on plan investments as long as the plan net position is projected under specified conditions to be sufficient to pay pensions of current employees and retirees and the pension plan assets are expected to be invested using a strategy to achieve that return and (b) a yield or index rate on tax-exempt 20-year AA-or-higher rated municipal bonds to the extent that the conditions for use of the long-term expected rate of return are not met. Under the new standards, as noted above, the ARC calculation, and the requirement to recognize a GAAP liability to the extent that the ARC was not funded, have been eliminated.

The ARC calculation for fiscal 2016 does not include costs associated with the ERIP because such costs had not yet been identified at the time the calculation was made.

⁽²⁾ Based on Total Budgeted Expenditures and Other Uses.

The tables that follow show pension-related information for both the MTRS and the MSERS as required by GASB 67 and GASB 68 and as shown in the Commonwealth's fiscal 2017 CAFR. The MTRS and MSERS tables subtitled "Schedule of Changes in the Net Pension Liability and Related Ratios" show the beginning and ending liabilities and assets for the MTRS and MSERS, as well as both systems' unfunded pension liability, or net pension liability (NPL), with the NPL being the amount that the Commonwealth records on its Statement of Net Position as its unfunded pension liability. The table also shows the components of the change in the NPL between the beginning (July 1) and end (June 30) for fiscal years 2014 through 2017.

The tables subtitled "Pension Expense and Deferred Outflows/Inflows of Resources," "Deferred Outflows/Inflows of Resources," "Deferred Outflows/Inflows of Resources" and "Projected Recognition of Deferred Outflows/Inflows)" show pension expenses that, under GASB 68, are recognized in the fiscal 2017 CAFR as well as the inflows and outflows that under GASB 68 are recognized either in the fiscal 2017 CAFR or are deferred and projected to be recognized in future fiscal year CAFRs.

The methodology required by GASB 68 to calculate the Commonwealth's NPL and other pension-related measures (as reflected in the tables below) is in several respects different from the methodology used by PERAC in calculating the Commonwealth's unfunded pension liability in its annual actuarial valuation. The most important difference between the two methodologies is that GASB 68 requires the value of pension plan assets be recorded at market value as of June 30 of each fiscal year, meaning that investment gains and losses are recognized immediately, while the actuarial value of assets used by PERAC in calculating the Commonwealth's unfunded liability is measured using a five-year smoothing methodology, meaning that investment gains and losses are amortized over five years. GASB 68 also requires governments to defer certain amounts to the extent that actual experience differs from the assumptions used to calculate pension liabilities, actual investment returns differ from projected earnings, or assumption changes result in changes in pension liabilities. Therefore, the NPL information set out in the tables below based on GASB 68 requirements is not strictly comparable to the unfunded liability and other pension-related information in PERAC's annual actuarial valuations.

Under GASB 68, in order to provide adequate time for pension plans to distribute pension-related information to pension plan participants (which include state authorities, local school collaboratives and municipal governments) for use in their annual CAFRs, governments are permitted to use the prior year's NPL and other pension-related measures in the current year's CAFR. In conformance with GASB 68, the Commonwealth determined that for the fiscal 2017 CAFR it would use the pension valuation information as of June 30, 2016. The Commonwealth will use the June 30, 2017 pension information in its fiscal 2018 CAFR.

GASB 67 Information for the Massachusetts Teachers' Retirement System

Schedule of Changes in the Net Pension Liability and Related Ratios

Fiscal Years 2017 through 2014 (in thousands, except for percentages)

| | <u>Fiscal 2017</u> | <u>Fiscal 2016</u> | <u>Fiscal 2015</u> | <u>Fiscal 2014</u> |
|--|---------------------|---------------------|---------------------|----------------------|
| Total pension liability (as of July 1) | \$47,300,000 | \$45,918,711 | \$41,435,000 | \$ 39,931,000 |
| Service cost | 891,760 | 843,800 | 768,032 | 720,712 |
| Interest | 3,505,761 | 3,402,525 | 3,166,728 | 3,227,025 |
| Differences between expected and actual experience | 47,046 | (74,025) | 153,000 | - |
| Changes of assumptions (1), (2), (3) | 1,176,000 | - | 3,080,000 | 108,000 |
| Benefit payments, including refunds of member contributions | (2,896,567) | (2,791,011) | (2,684,049) | (2,551,737) |
| Net change in total pension liability | <u>2,724,000</u> | <u>1,381,289</u> | 4,483,711 | 1,504,000 |
| Total pension liability (as of June 30) | <u>\$50,024,000</u> | <u>\$47,300,000</u> | <u>\$45,918,711</u> | <u>\$ 41,435,000</u> |
| Plan fiduciary net position (as of July 1) | \$24,942,072 | \$25,429,068 | \$25,538,646 | \$ 22,697,302 |
| Contributions: | | | | |
| Non-employer - Commonwealth | 1,235,515 | 1,124,583 | 1,021,930 | 930,079 |
| Plan members | 730,212 | 699,422 | 669,941 | 653,328 |
| Other additions | 223,746 | 202,796 | <u>190,925</u> | <u>178,998</u> |
| Total contributions | 2,189,473 | 2,026,801 | 1,882,796 | 1,762,405 |
| Net investment income | 3,100,352 | 441,363 | 845,503 | 3,771,883 |
| Benefit payments, including refunds of plan member contributions | (2,896,567) | (2,791,011) | (2,684,049) | (2,551,737) |
| Administrative expense | (24,053) | (24,220) | (23,444) | (20,499) |
| Other changes | (172,668) | (139,929) | (130,384) | (120,708) |
| Net change in plan fiduciary net position | 2,196,537 | (486,996) | (109,578) | 2,841,344 |
| Plan fiduciary net position (as of June 30) | <u>\$27,138,609</u> | <u>\$24,942,072</u> | <u>\$25,429,068</u> | <u>\$25,538,646</u> |
| Plan net pension liability/(asset) (as of June 30) | <u>\$22,885,391</u> | <u>\$22,357,928</u> | <u>\$20,489,643</u> | <u>\$15,896,354</u> |
| Plan fiduciary net position as a percentage of the total pension liability | 54.3% | 52.7% | 55.4% | 61.6% |
| Covered employee payroll (4) | \$6,583,871 | \$6,388,732 | \$6,204,274 | \$ 5,962,650 |
| Net pension liability/(asset) as a percentage of covered employee payroll | 347.6% | 350.0% | 330.3% | 266.6% |

SOURCE: Office of the Comptroller

⁽¹⁾ The changes in assumptions in fiscal 2015 were due to (i) a decrease in the investment rate of return (discount rate) from 8.0% to 7.75% in the January 1, 2015 actuarial valuation and (ii) improved future mortality.

⁽²⁾ The changes in assumptions in fiscal 2017 were due to improved future mortality.

⁽³⁾ Subsequent to the issuance of the fiscal 2015 CAFR, the Commonwealth further reduced its discount rate to 7.50% from 7.75%. Consequently, the Commonwealth has adjusted certain information as previously reported in the fiscal 2015 CAFR. This change resulted in an increase of approximately \$1.190 billion which affected the net pension liability as of and for the fiscal year ended June 30, 2015.

⁽⁴⁾ Reflects compensation in the January 1 actuarial valuation for each fiscal year.

GASB 68 Information for the Massachusetts Teachers' Retirement System (1)

Pension Expense and Deferred Outflows/Inflows of Resources

(in thousands)

Pension Expense for Fiscal 2017 (07/01/2015 - 06/30/2016)

| Service cost | \$843,800 |
|--|--------------------|
| Interest | 3,402,525 |
| Employee contributions | (699,422) |
| Projected earnings on plan investments | (1,853,858) |
| Recognized portion of difference between expected and actual experience | 12,738 |
| Recognized portion of difference in projected and actual earnings on investments | 99,040 |
| Recognized portion of plan benefit changes | - |
| Recognized portion of assumption changes | 514,479 |
| Transfers and reimbursements from other systems | (53,271) |
| Member make up, redeposit and payments from rollovers | (26,160) |
| Other reimbursements | (2,931) |
| Administrative expense | 24,220 |
| Other changes (net) | 19,495 |
| Pension expense | <u>\$2,280,655</u> |

Deferred Outflows/(Inflows) of Resources

| Difference between expected and | Year of Deferral | Deferred Outflows | Deferred (Inflows) | Original <u>Amount</u> | Amortization Period (years) | Amortization |
|--|---------------------|----------------------|--------------------|---------------------------|--------------------------------|--------------|
| actual experience | 2015 | \$103,645 | - | \$153,000 | 6.2 | \$24,677 |
| | 2016 | - | (\$62,085) | (74,025) | 6.2 | (11,940) |
| Assumption changes | 2014 | 54,885 | - | 108,000 | 6.1 | 17,705 |
| | 2015 | 2,086,452 | - | 3,080,000 | 6.2 | 496,774 |
| Net difference between projected and actual earnings on plan | | | | | | |
| investments | 2014 | - | (797,328) | (1,993,320) | 5 | (398,664) |
| | 2015 | 645,614 | - | 1,076,024 | 5 | 215,205 |
| | 2016 | 1,129,996 | = | 1,412,495 | 5 | 282,499 |
| Total | | 4,020,592 | (859,413) | - | | |
| Net | | \$3,161,179 | - | \$3,762,174 | | \$626,256 |

Projected Recognition of Deferred Outflows/(Inflows)

Deferred Inflows/(outflows) recognized in Future Pension Expense (fiscal years ending June 30)

| <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | 2022 | <u>2023</u> |
|------------------|--------------------------------------|---|--|---|--|
| \$12,738 | \$12,738 | \$12,738 | \$12,738 | (\$7,004) | (\$2,388) |
| 514,479 | 514,479 | 514,479 | 498,545 | 99,355 | - |
| | | | | | |
| | | | | | |
| 99,040 | 99,040 | 497,704 | <u>282,498</u> | Ξ | = |
| <u>\$626,257</u> | <u>\$626,257</u> | <u>\$1,024,921</u> | <u>\$793,781</u> | <u>\$92,351</u> | <u>(\$2,388)</u> |
| | \$12,738 514,479 <u>99,040</u> | \$12,738 \$12,738 514,479 514,479 99,040 99,040 | \$12,738 \$12,738 \$12,738 514,479 514,479 514,479 99,040 99,040 497,704 | \$12,738 \$12,738 \$12,738 \$12,738 514,479 514,479 514,479 498,545 99,040 99,040 497,704 282,498 | \$12,738 \$12,738 \$12,738 \$12,738 (\$7,004) 514,479 514,479 514,479 498,545 99,355 99,040 99,040 497,704 282,498 = |

⁽¹⁾ Fiscal 2016 information is used in the fiscal 2017 CAFR; fiscal 2017 information is to be used in the fiscal 2018 CAFR.

GASB 67 Information for the State Employees' Retirement System Schedule of Changes in the Net Pension Liability and Related Ratios

Fiscal Year 2017 through 2014 (in thousands, except for percentages)

| | <u>Fiscal 2017</u> | Fiscal 2016 | <u>Fiscal 2015</u> | <u>Fiscal 2014</u> |
|--|---------------------|---------------------|---------------------|---------------------|
| Total pension liability (as of July 1) | \$37,760,000 | \$35,425,414 | \$31,355,000 | \$ 29,988,000 |
| Service cost | 855,440 | 813,975 | 700,012 | 631,634 |
| Interest | 2,813,374 | 2,638,929 | 2,411,551 | 2,405,204 |
| Changes in benefit terms (1) | 10,000 | 400,000 | 230,302 | - |
| Differences between expected and actual experience | (428,232) | 589,009 | 275,000 | - |
| Changes of assumptions (2), (3), (4) Benefit payments, including refunds of member | 304,000 | - | 2,330,000 | 102,000 |
| contributions | (2,207,582) | (2,107,327) | (1,876,451) | (1,771,838) |
| Net change in total pension liability | <u>1,347,000</u> | <u>2,334,586</u> | <u>4,070,414</u> | <u>1,367,000</u> |
| Total pension liability (as of June 30) | <u>\$39,107,000</u> | <u>\$37,760,000</u> | <u>\$35,425,414</u> | \$ 31,355,000 |
| Plan fiduciary net position (as of July 1) | \$23,971,156 | \$24,042,585 | \$23,930,895 | \$ 21,084,958 |
| Contributions: | | | | |
| Employers - Commonwealth and MassDOT | 716,266 | 660,818 | 601,931 | 550,438 |
| Non-employer contributions - Commonwealth | 28,455 | 21,830 | 18,040 | 21,293 |
| Employers and non-employers - other | 7,999 | 16,642 | 15,808 | 6,048 |
| ERIP funding contribution - Commonwealth | 29,093 | 29,093 | - | - |
| Plan members | 604,772 | 591,948 | 549,493 | 501,106 |
| Other additions | 232,548 | 397,077 | 92,503 | 68,967 |
| Total contributions | <u>1,619,133</u> | <u>1,717,408</u> | <u>1,277,775</u> | 1,147,897 |
| Net investment income Benefit payments, including refunds of plan member | 2,987,632 | 422,938 | 800,886 | 3,551,012 |
| contributions | (2,207,582) | (2,107,327) | (1,876,451) | (1,771,838) |
| Administrative expense | (30,030) | (20,624) | (15,966) | (12,705) |
| Other changes | (58,077) | (83,824) | (74,554) | (68,429) |
| Net change in plan fiduciary net position | <u>2,311,076</u> | (71,429) | <u>111,690</u> | <u>2,845,937</u> |
| Plan fiduciary net position (as of June 30) | \$26,282,232 | <u>\$23,971,156</u> | <u>\$24,042,585</u> | <u>\$23,930,895</u> |
| Plan net pension liability/(asset) (as of June 30) | <u>\$12,284,768</u> | <u>\$13,788,844</u> | <u>\$11,382,829</u> | <u>\$7,424,105</u> |
| Plan fiduciary net position as a percentage of the total | | | | |
| pension liability | 67.2% | 63.5% | 67.9% | 76.3% |
| Covered employee payroll (5) Net pension liability/(asset) as a percentage of covered | \$5,927,012 | \$5,792,288 | \$5,591,911 | \$5,344,510 |
| employee payroll | 216.4% | 238.1% | 203.6% | 138.9% |

SOURCE: Office of the Comptroller

- (4) The changes in assumptions in fiscal 2017 were due to improved future mortality.
- (5) Reflects compensation in the January 1 actuarial valuation for each fiscal year.

⁽¹⁾ Fiscal 2015 change in benefit terms reflects costs associated with the retirement incentive program approved in May, 2015. Fiscal 2016 change in benefit terms reflect costs related to Optional Retirement Plan members transferring to the State Employees' Retirement System pursuant to Chapter 176 of the Acts of 2011. Fiscal 2017 change in benefit terms reflect retirement incentive program for certain employees of the highway division of the Massachusetts Department of Transportation.

⁽²⁾ The changes in assumptions in fiscal 2015 were due to (1) a decrease in the investment rate of return (discount rate) from 8.0% to 7.75% in the January 1, 2015 actuarial valuation and (2) improved future mortality.

⁽³⁾ Subsequent to the issuance of the fiscal 2015 CAFR, the Commonwealth further reduced its discount rate to 7.50% from 7.75%. Consequently, the Commonwealth has adjusted certain information as previously reported in the fiscal 2015 CAFR. This change resulted in an increase of approximately \$933 million which affected the net pension liability as of and for the fiscal year ended June 30, 2015.

GASB 68 Information for the State Employees' Retirement System (1) Pension Expense and Deferred Outflows/Inflows of Resources

(in thousands)

Pension Expense for Fiscal 2017 (07/01/2015 - 06/30/2016)

| Service cost | \$813,975 |
|--|--------------------|
| Interest | 2,638,929 |
| Employee contributions | (591,948) |
| Projected earnings on plan investments | (1,767,568) |
| Recognized portion of difference between expected and actual experience | 159,076 |
| Recognized portion of difference in projected and actual earnings on investments | 91,915 |
| Recognized portion of assumption change | 442,182 |
| Change in benefit terms | 400,000 |
| Transfers and reimbursements from other systems | (194,250) |
| Member make up, redeposit and payments from rollovers | (138,873) |
| COLA reimbursements | (25,235) |
| Other reimbursements | (38,720) |
| Administrative expense | 20,624 |
| Other expenses that do not reduce the total pension liability | 83,825 |
| Pension expense | <u>\$1,893,932</u> |

Deferred Outflows/(Inflows) of Resources

| | Year of | Deferred | Deferred | Original | Amortization | |
|--|-----------------|-------------|----------------|------------------|----------------|--------------|
| | <u>Deferral</u> | Outflows | <u>Inflows</u> | Amount | Period (years) | Amortization |
| Difference between expected and actual | | | | | | |
| experience | 2015 | \$175,000 | - | \$275,000 | 5.5 | \$50,000 |
| | 2016 | 479,933 | - | 589,009 | 5.4 | 109,076 |
| Assumption changes | 2014 | 46,363 | - | 102,000 | 5.5 | 18,546 |
| | 2015 | 1,482,728 | - | 2,330,000 | 5.5 | 423,636 |
| Net difference | | | | | | |
| between projected and actual earnings | | | | | | |
| on plan investments | 2014 | - | (761,893) | (1,904,736) | 5.0 | (380,948) |
| | 2015 | 611,809 | - | 1,019,683 | 5.0 | 203,937 |
| | 2016 | 1,075,704 | Ξ | <u>1,344,630</u> | 5.0 | (268,926) |
| Total | | 3,871,537 | (761,893) | - | | - |
| Net | | \$3,109,644 | | \$3,755,586 | | \$155,321 |

Projected Recognition of Deferred Outflows/(Inflows)

Deferred Inflows/(outflows) recognized in Future Pension Expense (fiscal years ending June 30)

| | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> |
|--|-------------|-------------|-------------|-------------|----------------------|
| Difference between expected and actual experience | \$159,076 | \$159,076 | \$159,076 | \$134,075 | \$43,630 |
| Assumption changes | 442,182 | 442,182 | 432,909 | 211,818 | - |
| Net difference between projected and actual earnings on plan investments | 91,915 | 91.915 | 472.863 | 268,927 | |
| Total | \$693,173 | \$693,173 | \$1,064,848 | \$614,820 | <u>=</u> \$43,630 |

⁽¹⁾ Fiscal 2016 information is used in the fiscal 2017 CAFR; fiscal 2017 information is to be used in the fiscal 2018 CAFR.

Prospective Funded Status of the Pension System

The following tables project the funded status of the MSERS', the MTRS', the Boston teachers', and the Commonwealth's aggregate pension liabilities through fiscal 2022. Actuarial results reflect assumptions outlined in the January 1, 2017 actuarial valuation report, except that fiscal 2018 assets are as of December 31, 2017. All projections are estimates and will vary based on actual investment returns and plan experience. The projections in this table assume that all assumptions will be realized exactly. The actuarially determined contributions for fiscal 2017 were the amounts required by the funding schedule approved in 2014, plus the additional \$29.1 million appropriations made on account of the employee retirement incentive program. For fiscal 2018 and beyond, these figures reflect the funding schedule filed in 2017. Under this schedule, appropriations increase by 8.94% per year until fiscal 2036. The allocations to individual retirement systems for fiscal 2019 reflect the amounts identified in a memorandum dated April 23, 2018 from the Executive Director of PERAC to the Secretary of Administration and Finance. The allocations to individual retirement systems for fiscal 2019 and beyond are estimated. Actuarial figures other than the actuarially determined contribution reflect January 1 estimates of the fiscal year shown.

The actuarial value of assets on January 1, 2017 was 101.7% of the market value of assets. The actuarial value of assets on January 1, 2018 is 94.6% of the market value of assets. The actuarial value of assets on January 1, 2019 is assumed to be 96.0% of the market value of assets. The actuarial value of assets on January 1, 2020 is assumed to be 98.0% of the market value of assets. The actuarial value of assets on January 1, 2021 and 2022 is assumed to be 100.0% of the market value of assets. The actuarial value of assets is projected using the past history of PRIT Fund cash flows to estimate future cash flows.

The actuarial liability is projected from January 1, 2017 to January 1, 2018 using standard methodology. Projections beyond January 1, 2018 reflect slightly decreasing percentage increases to reflect the impact of pension reform legislation enacted in 2011 as well as employee contribution increases as a percentage of pay. Funding schedule information is based on the funding schedule filed by the Secretary of Administration and Finance on January 13, 2017.

For the purpose of calculating the actuarially determined contribution as a percentage of total budgeted operating funds expenditures, the Executive Office for Administration and Finance used the 4.1% compound annual growth rate of budgeted revenues from fiscal 2008 to fiscal 2018. This measure is also used in the Commonwealth's debt affordability analysis. This does not represent an official forecast of the growth in Total Budgeted Expenditures and Other Uses by the Executive Office for Administration and Finance.

Prospective Funded Status of the Pension System (in millions, except for percentages) (1)

| Fiscal Year | Actuarially Determined Contribution (ADC) | Actuarial Value of <u>Assets</u> | Actuarial Accrued <u>Liability</u> | Unfunded Actuarial <u>Liability</u> | Funded <u>Ratio</u> | ADC as a % of Total Budgeted Operating Funds Expenditures |
|------------------------|--|--|--|---|------------------------|---|
| MSERS 2017 | \$792 | \$24,773 | \$38,317 | \$13,544 | 64.7% | 1.8% |
| 2018 2019 | 910 993 | 26,248 27,727 | 39,855 41,528 | 13,607 13,801 | 65.9 66.8 | 2.0 2.1 |
| 2019 | 1,080 | 29,513 | 43,231 | 13,719 | 68.3 | 2.1 |
| 2020 | 1,177 | 31,440 | 44,960 | 13,521 | 69.9 | 2.3 |
| 2022 | 1,282 | 32,864 | 46,759 | 13,895 | 70.3 | 2.4 |
| | , | , | , | , | | |
| MTRS | | | | | | |
| 2017 | \$1,246 | \$25,638 | \$49,194 | \$23,556 | 52.1% | 2.8% |
| 2018 | 1,303 | 27,058 | 50,839 | 23,781 | 53.2 | 2.9 |
| 2019 2020 | 1,423 | 28,467 | 52,568 | 24,100 | 54.2 55.6 | 3.0 3.1 |
| 2020 | 1,546 1,685 | 30,172 32,008 | 54,302 56,040 | 24,130 24,032 | 55.6 57.1 | 3.3 |
| 2021 | 1,835 | 33,319 | 57,777 | 24,458 | 57.1 57.7 | 3.4 |
| 2022 | 1,033 | 33,317 | 31,777 | 24,436 | 31.1 | J. 1 |
| Boston Teachers | | | | | | |
| 2017 | \$132 | \$1,541 | \$3,917 | \$2,376 | 39.3% | 0.3% |
| 2018 | 131 | 1,612 | 4,020 | 2,408 | 40.1 | 0.3 |
| 2019 | 143 | 1,689 | 4,148 | 2,459 | 40.7 | 0.3 |
| 2020 | 155 | 1,782 | 4,277 | 2,495 | 41.7 | 0.3 |
| 2021 2022 | 169 185 | 1,882 | 4,405 4,537 | 2,523 | 42.7 43.0 | 0.3 0.3 |
| 2022 | 185 | 1,951 | 4,557 | 2,586 | 43.0 | 0.3 |
| Aggregate Commo | | | | | | |
| 2017 (3) | \$2,198 | \$51,952 | \$91,574 | \$39,622 | 56.7% | 5.0% |
| 2018 | 2,395 | 54,918 | 94,848 | 39,930 | 57.9 | 5.2 |
| 2019 | 2,608 | 57,883 | 98,369 | 40,485 | 58.8 | 5.5 |
| 2020 | 2,842 | 61,467 | 101,925 | 40,458 | 60.3 | 5.7 |
| 2021 | 3,095 | 65,330 | 105,511 | 40,181 | 61.9 | 6.0 |
| 2022 | 3,372 | 68,134 | 109,170 | 41,036 | 62.4 | 6.2 |

SOURCE: Executive Office for Administration and Finance and Public Employee Retirement Administration Commission.

- (1) Actuarial results reflect figures and assumption outlined in the January 1, 2017 Commonwealth Actuarial Valuation Report, except that fiscal 2018 assets are as of December 31, 2017.
- (2) Aggregate Commonwealth pension obligations include obligations with respect to MSERS, MTRS, Boston teachers, and local cost-of-living adjustments.
- (3) Legislation approved in August, 2015 mandated a fiscal 2017 appropriation of \$2,198,092,616, reflecting a \$29.1 million increase to defray costs associated with the employee retirement incentive program.

PRIT Fund Investments

The mission of the PRIM Board is to manage the PRIT Fund so as to ensure that pension assets are well invested so that current and future benefit obligations are adequately funded in a cost-effective manner. The PRIM Board therefore seeks to maximize the total return on investment, within acceptable levels of risk and cost for an approximately 60% funded public pension fund. Under current law and projections, by the year 2040 the PRIT Fund is expected to have grown, through annual payments in accordance with a legislatively approved funding schedule and through the total return of the fund, to an amount sufficient to meet the then existing pension obligations of the Commonwealth.

The PRIM Board recognizes that over the long-term, asset allocation is the single greatest contributor of return and risk to the PRIT Fund. The asset allocation plan adopted by the Board embodies its decisions about what proportions of the PRIT Fund are to be invested in domestic and international equity and fixed income securities, alternative investments such as real estate, private equity and hedge funds, and, where appropriate, the various sub-

asset classes of each category. At reasonable intervals of not more than three to five years, the Board conducts a comprehensive review of its asset allocation plan and its underlying assumptions, including the Commonwealth's current and projected pension assets and liabilities, long-term capital markets rate of return assumptions, and the Board's risk tolerances. The comprehensive review identifies a reasonable time horizon and investment strategy for matching assets and liabilities, a fund-level total return target, and an optimal allocation among available asset classes and sub-asset classes. The Board examines the asset allocation plan annually and makes adjustments to the plan as may be appropriate given the PRIT Fund's long-term nature and objectives. The current target rate of return is 7.35%, which matches the expected long-term rate of return on assets assumed by PERAC in the January 1, 2018 MSERS Actuarial Valuation Report. The PRIM Board does not determine this rate of return, but this rate of return is a key input into the PRIM Board's asset allocation decisions.

The actual asset allocation mix invariably deviates from the PRIT Fund's target allocations due to market movement, cash flows, and manager performance. Material deviations from the asset allocation targets can alter the expected return and risk of the PRIT Fund. The following table sets forth the actual PRIT Fund asset allocation for each of the most recent five fiscal years, as well as the current targets. The actual allocation figures are as of June 30 for each of the years indicated. The targets are those contained in the asset allocation plan, which was most recently reviewed on February 15, 2018.

PRIT Fund Asset Allocation

| | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>Target</u> |
|---------------------------------|-------------|-------------|-------------|-------------|-------------|---------------|
| Domestic Equity | 19.0% | 19.2% | 18.7% | 19.8% | 19.1% | 17.5% |
| International Equity | 17.1 | 16.9 | 16.5 | 18.0 | 16.5 | 15.5 |
| Emerging Markets Equity | 7.0 | 6.6 | 7.0 | 7.9 | 6.3 | 6.0 |
| Core Fixed Income | 13.9 | 13.7 | 13.9 | 12.0 | 12.8 | 12.0 |
| Value-Added Fixed Income | 8.5 | 8.3 | 8.4 | 8.1 | 8.0 | 10.0 |
| Private Equity | 11.1 | 11.3 | 11.1 | 10.6 | 10.8 | 12.0 |
| Real Estate | 8.9 | 10.0 | 10.4 | 9.1 | 9.0 | 10.0 |
| Timber/Natural Resources | 3.9 | 3.8 | 3.3 | 3.7 | 3.4 | 4.0 |
| Hedge Funds | 9.6 | 9.1 | 8.6 | 8.4 | 8.4 | 0.0 |
| Portfolio Completion Strategies | 0.0 | 0.2 | 1.2 | 1.1 | 5.0 | 13.0 |

SOURCE: Pension Reserves Investment Management Board.

The following table sets forth the investment rates of return for the assets in the PRIT Fund for the last 10 fiscal years:

PRIT Fund Rates of Return (Gross of Fees)

| Fiscal Year | Rate of Return | Fiscal Year | Rate of Return |
|-------------|----------------|-------------|----------------|
| 2018 | 9.97% | 2013 | 12.69% |
| 2017 | 13.20 | 2012 | (0.08) |
| 2016 | 2.29 | 2011 | 22.30 |
| 2015 | 3.86 | 2010 | 12.82 |
| 2014 | 17.53 | 2009 | (23.87) |
| | | | |
| | 3yr average | 8.39% | |
| | 5yr average | 9.22% | |
| | 10yr average | 6.28% | |
| | | | |
| | | | |

SOURCE: Pension Reserves Investment Management Board.

Other Post-Employment Benefit Obligations (OPEB)

In addition to providing pension benefits, the Commonwealth is statutorily required to provide certain health care and life insurance benefits ("other post-employment benefits" or "OPEB") for retired employees of the Commonwealth, as well as retired employees of housing authorities, redevelopment authorities and certain other governmental agencies (offline agencies). Substantially all of the Commonwealth's employees may become eligible for these benefits if they reach retirement age and eligibility while working for the Commonwealth. Eligible retirees are required to contribute a specified percentage of the health care/benefit costs. The Commonwealth is reimbursed for the cost of benefits to retirees of the eligible authorities and non-state agencies. (Although, as noted above, the Commonwealth is required to pay pensions to retired municipal teachers, the Commonwealth has no OPEB obligations with respect to retired municipal teachers.)

The GIC manages the Commonwealth's other post-employment benefits for all state and certain agency employees and retirees. The GIC has representation on the Board of Trustees of the State Retiree Benefits Trust (SRBT). The SRBT is set up to pay for former state employees' OPEB benefits and to invest state and certain municipalities funds that have been set aside to pay for OPEB benefits and the cost to administer those funds and can only be dissolved when all such health care and other non-pension benefits, current and future, have been paid or defeased.

The Commonwealth also oversees the management and administration of the Massachusetts Turnpike Authority Retiree Benefits Trust, which is restricted for OPEB benefits of the retirees of the former Massachusetts Turnpike Authority.

Employer and employee contribution rates are set by statute. The Commonwealth recognizes its share of the costs on an actuarial basis. As of June 30, 2017, Commonwealth participants contributed 10% to 25% of premium costs, depending on the date of hire and whether the participant is active, retiree or survivor status. See "COMMONWEALTH EXPENDITURES – Employee Benefits; *Group Insurance*." According to the most recent actuarial valuation as of January 1, 2018, the GIC had 157,042 state enrollees as of January 1, 2018. As of that date, the Commonwealth was responsible for the OPEB liability of 129,046 of those enrollees.

Accounting standards promulgated in 2004 by the Governmental Accounting Standards Board (GASB) required the Commonwealth to begin disclosing its OPEB liability in its fiscal 2008 financial reports.

For fiscal 2017, governmental GAAP reporting was governed by two standards that have different requirements for calculating discount rates. Under GASB Statement No. 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans, which is effective for fiscal years beginning after June 15, 2016 (i.e., for fiscal 2017), OPEB plans were required to discount retiree health care liabilities, based on a blend of 30-year municipal bond rates and the expected return for assets in the trust, "blended," or weighted, by the funding level of the OPEB trust relative to OPEB liabilities. The rate of return for assets in the OPEB trust was assumed to be 7.50%, consistent with the rate used for the Commonwealth's pension trust, while the relevant municipal bond rate was 3.58%, resulting in a 3.63% blended discount rate, weighted towards the lower municipal bond rate due to the relatively low funding level of the OPEB trust in relation to the Commonwealth's OPEB liability. Under GASB Statement No. 45, which governs how OPEB liabilities are discounted in the Commonwealth's financial statements through fiscal 2017, the Commonwealth was required to discount retiree health care liabilities at the estimated long-term yield on investments that are expected to be used to finance the payment of benefits. Since the Commonwealth's OPEB plan is not pre-funded, the discount rate was based on the portfolio of the general assets used to pay these benefits. Historical monthly yields for this portion of the portfolio are derived from the rate of return of the Massachusetts Municipal Depository Trust (MMDT). While the calculations under GASB Statement No. 45 and GASB Statement No. 74 result in different discount rates, in the interest of consistency and clarity the same rate was used for both calculations, based on the GASB Statement No. 74 requirements.

The January 1, 2017 actuarial valuation was issued on November 10, 2017. According to the report, the Commonwealth's actuarial accrued OPEB liability, assuming no pre-funding and using a discount rate of 3.63%, was approximately \$19.446 billion as of January 1, 2017. As noted above, the 3.63% discount rate was calculated in accordance with GASB 74 requirements.

A liability for the difference between the amount funded and the actuarially required contribution is reflected on the Commonwealth's statement of net position, as presented on a GAAP basis. The liability increases or decreases each year depending on the amount funded, investment return and changes in amortization and assumptions. This change is reflected either as a revenue or expense item in the Commonwealth's statement of activities as presented on a GAAP basis, dependent on these factors. As of June 30, 2017, the net OPEB obligation (calculated in accordance with GASB 45), as reflected on the Commonwealth's statement of net position, is \$7.581 billion.

The independent actuarial report covers only the Commonwealth's OPEB obligations for Commonwealth employees and their survivors. Municipalities and authorities of the Commonwealth, even if their health care coverage is administered by the Group Insurance Commission, perform their own valuations, as the Commonwealth acts only as an agent for the entities that participate in the GIC with respect to providing OPEB health insurance benefits and does not assume the risk or financial burden of their health care costs.

GASB Statement No. 45 requires that OPEB obligations be recalculated at two-year intervals. Such calculations may be affected by many factors, including changing experience and assumptions regarding future health care claims, coverage levels and retiree contribution requirements. Accordingly, the actuarial accrued liability of the Commonwealth for OPEB liabilities may fluctuate.

In June 2015, GASB issued a new standard modifying the accounting and financial reporting of the Commonwealth's OPEB, GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions*, which is effective for the Commonwealth's fiscal 2018 CAFR. GASB 75 requires governments to report in their statements of net position (or balance sheet) a net OPEB liability, defined as the difference between the total OPEB liability (the present value of projected benefit payments to retirees for certain health care benefits based on past service) and the assets (mostly investments reported at fair value) set aside in a trust and restricted to paying benefits to retirees or their beneficiaries. The new standard also requires recognition in the statement of activities of net OPEB expense. The rate used to discount projected benefit payments to their present value is based on a single rate that reflects (a) the long-term expected rate of return on plan investments as long as the plan net position is projected under specified conditions to be sufficient to make projected benefit payments and the OPEB plan assets are expected to be invested using a strategy to achieve that return and (b) a yield or index rate on tax-exempt 20-year AA-or-higher rated general obligation municipal bonds to the extent that the conditions for use of the long-term expected rate of return are not met. This statement is similar to the requirements of GASB 68, *Accounting and Financial Reporting for Pensions*, which was first implemented in the fiscal 2015 CAFR.

The State Retiree Benefits Trust Fund was created to consolidate the state's retiree funding efforts and better project future liabilities, and beginning in fiscal 2008, expenses for current state retirees' healthcare were paid from the fund. Also in fiscal 2008, the fund benefited from a one-time transfer of approximately \$329 million from the Health Care Security Trust. The fiscal 2012 budget included a requirement that, beginning in fiscal 2013, 10% of the annual tobacco payments be transferred to the State Retiree Benefits Trust Fund, with the amount deposited to the State Retiree Benefits Trust Fund to increase by 10% increments annually thereafter until 100% of all payments would be transferred to that Fund. Pursuant to this requirement, in May, 2013, tobacco settlement proceeds in the amount of \$25.3 million were transferred to the State Retiree Benefits Trust Fund.

The fiscal 2014 budget included a provision that funded the scheduled transfer to the State Retiree Benefits Trust Fund from unspent appropriations, to the extent that they were available, with any balance to be made up through a transfer of tobacco settlement proceeds. In fiscal 2014, pursuant to that provision, unspent appropriations in the amount of \$56.4 million were transferred to the State Retirees Benefits Trust Fund, and approximately \$15 million of tobacco proceeds were used to fund the balance of the transfer.

The fiscal 2015 budget contained a similar provision requiring the transfer of tobacco settlement funds, equal to approximately \$73.7 million, to be funded from unspent appropriations, to the extent that they were available, with any balance to be made up through a transfer of tobacco settlement proceeds. In fiscal 2015, pursuant to that provision, unspent appropriations in the amount of \$44 million were transferred to the State Retirees Benefits Trust Fund, and approximately \$29.7 million of tobacco proceeds were used to fund the balance of the transfer.

The fiscal 2016 budget contained a similar provision requiring that transfers be made equivalent to 30% of fiscal 2016 tobacco settlement proceeds (the same percentage required in fiscal 2015), or approximately \$77 million,

to be funded from unspent appropriations, to the extent they were available, with any balance to be made up through a transfer of fiscal 2016 tax revenues exceeding \$100 million generated by a tax amnesty program that was also authorized in the fiscal 2016 budget. In fiscal 2016, pursuant to the budget, unexpended appropriations in the amount of \$77.3 million were transferred to the State Retirees Benefits Trust Fund.

A fiscal 2017 supplemental budget enacted by the Legislature required that transfers be made equivalent to 10% of fiscal 2017 tobacco settlement proceeds, or approximately \$25.4 million. That transfer was contingent on the availability of unexpended debt service appropriations, and if those were insufficient to fund the 10% transfer, the balance of the 10% will be funded by tobacco settlement revenues. The Governor returned that section of the Legislature's proposal with an amendment, proposing instead to require a 30% transfer, as in fiscal 2016, which would result in a transfer of approximately \$76 million. The Governor's proposal was not acted upon by the Legislature, and expired at the end of the legislative session. Accordingly, under the fiscal 2012 provision cited above, 50% of fiscal 2017 tobacco settlement proceeds, or approximately \$127 million, would have been required to be transferred to the State Retirees Benefits Trust Fund unless that provision was modified or waived by a legislative change. The Governor included a proposal in the February, 2017 supplemental budget to transfer the equivalent of 10% of fiscal 2017 tobacco settlement proceeds. That proposal was adopted by the Legislature, and approximately \$25.4 million was transferred to the State Retirees Benefits Trust Fund in fiscal 2017.

The fiscal 2018 budget enacted by the Legislature required that transfers be made equivalent to 10% of the fiscal 2018 tobacco proceeds, or approximately \$25.4 million. The transfer was contingent on the availability of unexpended appropriations, and if those are insufficient to fund the 10% transfer, the balance of the 10% was to be funded by tobacco settlement revenues. On October 23, 2018, the Governor approved legislation that increased the percentage transferred from 10% to 30%.

The fiscal 2019 budget enacted by the Legislature required that transfers be made equivalent to 10% of the fiscal 2019 tobacco proceeds, or approximately \$25.1 million. The transfer was contingent on the availability of unexpended appropriations, and if those are insufficient to fund the 10% transfer, the balance of the 10% was to be funded by tobacco settlement proceeds.

State finance law also provides for annual deposits in to the State Retiree Benefits Trust Fund in the amount of 5% of any capital gains tax revenues transferred to the Stabilization Fund in excess of the statutory capital gains threshold. This resulted in deposits to the State Retiree Benefits Trust Fund of \$23.4 million in fiscal 2013 and \$2.3 million in fiscal 2014. This requirement was suspended by the legislature for fiscal years 2015 and 2016, but reinstated for fiscal 2017. As the fiscal 2017 capital gains tax revenues did not exceed the statutory capital gains threshold, no deposits were made to the State Retiree Benefits Trust Fund in fiscal 2017. During fiscal 2018, approximately \$26 million was deposited to the State Retiree Benefits Trust Fund.

In June, 2018, pursuant to statutory requirements, and after having been certified to the Comptroller by the Department of Revenue, the Commonwealth transferred an amount equal to 5% of capital gains tax revenue, or \$16.1 million, to the State Retire Benefits Trust Fund. In October, 2018, pursuant to the final supplemental budget for fiscal 2018, the Commonwealth transferred 30% of tobacco settlement proceeds for fiscal 2018, or \$73.0 million, to the State Retiree Benefits Trust Fund.

The actuarial value of plan assets as of January 1, 2017 was approximately \$817 million.

State Retiree Benefits Trust

(in thousands, except for percentages)

| Actuarial Valuation as of January 1: | Actuarial Value of <u>Plan Assets</u> | Actuarial <u>Liability</u> | Accrued Unfunded Liability (UAAL) | Actuarial Ratio <u>Covered</u> | Funded Payroll | Annual Covered Payroll as % of UAAL |
|--------------------------------------|---|-------------------------------|--|-----------------------------------|----------------|--|
| 2017 | \$817,400 | \$20,263,500 | \$19,446,100 | 4.0% | \$5,927,012 | 328.1% |
| 2016 | 760,400 | 17,082,900 | 16,322,500 | 4.5 | 5,792,288 | 281.8 |
| 2015 | 610,000 | 16,502,800 | 15,892,800 | 3.7 | 5,591,911 | 284.2 |
| 2014 | 511,200 | 15,670,200 | 15,159,000 | 3.3 | 5,344,500 | 283.6 |
| 2013 | 406,700 | 15,784,100 | 15,377,400 | 2.6 | 5,183,195 | 296.7 |
| 2012 | 360,500 | 16,559,400 | 16,298,900 | 2.2 | 4,922,388 | 331.1 |
| 2011 | 350,500 | 16,568,600 | 16,218,100 | 2.1 | 4,808,250 | 337.3 |
| 2010 | 309,800 | 15,166,300 | 14,856,500 | 2.0 | 4,711,563 | 315.3 |
| 2009 | 273,500 | 15,305,100 | 15,031,600 | 1.8 | 4,712,655 | 319.0 |
| 2008 | - | 9,812,000 | 9,812,000 | 0.0 | 4,574,233 | 214.5 |

SOURCE: Office of the Comptroller and Public Employee Retirement Administration Commission.

COMMONWEALTH CAPITAL INVESTMENT PLAN

The Executive Office for Administration and Finance annually updates its five-year capital investment plan on a rolling basis. The five-year plan coordinates capital expenditures by state agencies and authorities that are funded primarily by Commonwealth debt and federal reimbursements. The capital investment plan for fiscal 2019 through fiscal 2023 provides resources for various Commonwealth facilities and programs.

The Executive Office for Administration and Finance also sets an annual administrative limit on the amount of bond-funded capital expenditures. The purpose of the administrative limit, known as the "bond cap," is to keep Commonwealth debt within affordable levels. In May, 2018, the Governor announced the five-year capital investment plan for fiscal 2019 through fiscal 2023 and an administrative bond cap of \$2.34 billion. This increase represents a 3.5% increase over fiscal 2018, a smaller increase than projected growth in tax revenues.

The following table shows the allocation of administrative bond cap spending by agency and the allocation of total capital spending from all sources of funding for fiscal 2019:

Fiscal Year 2019 Capital Budget

(in millions)

| Agency | Bond Cap | Project- Financed | Federal <u>Funds</u> | Other <u>Funds</u> | <u>Total</u> |
|-----------------------------------|--------------|----------------------|-------------------------|--------------------|--------------|
| Administration and Finance | \$35.2 | \$ 5.0 | - | \$81.6 | \$121.8 |
| Capital Asset Management | 568.6 | 41.4 | \$ 2.6 | 12.9 | 625.5 |
| Education | 19.0 | - | - | 16.8 | 35.8 |
| Energy and Environmental Affairs | 225.8 | - | 36.9 | 66.6 | 329.2 |
| Housing and Community Development | 237.3 | - | 12.0 | 67.0 | 316.3 |
| Housing and Economic Development | 160.9 | - | 6.0 | 35.5 | 202.4 |
| Technology Services and Security | 116.6 | 36.8 | 104.5 | 37.4 | 295.3 |
| Public Safety | 23.7 | 0.2 | - | 5.0 | 28.9 |
| MassDOT | <u>953.0</u> | <u>0.0</u> | 913.6 | 688.0 | 2,554.6 |
| Total (1) | \$2,340.0 | \$83.4 | \$1,075.6 | \$1,010.6 | \$4,509.6 |

SOURCE: Executive Office for Administration as of May 21, 2018.

The different sources of funding for the capital program, as reflected in the table above, include:

- Administrative Bond Cap Commonwealth general obligation borrowing to support the regular capital program.
- Project Financed General obligation bonds, the debt service for which is supported by savings or revenue related to the project; for example, energy efficiency improvements to Commonwealth facilities, the capital costs for which are expected to be reimbursed through operating savings as a result of reduced energy consumption.
- Federal Funds Federal reimbursements for capital expenditures.
- Other Funds:
 - Accelerated Bridge Program (ABP) Commonwealth special obligation bonds secured by revenues credited to the Commonwealth Transportation Fund (CTF) or federal grant anticipation notes secured by federal highway reimbursements issued to fund capital improvements to structurally deficient bridges through the ABP.
 - o Rail Enhancement Program (REP) Commonwealth special obligation bonds to be secured by revenues credited to the CTF to finance certain transit infrastructure projects through the REP, previously referred to as Special Obligation Transit Bonds.
 - Pay-As-You-Go Funding from current revenue for capital projects, including toll revenue.

⁽¹⁾ Totals may not add due to rounding.

 Contributions made by third parties to capital projects being carried out by the Commonwealth, including the I-Cubed program, contributions from campuses for higher education projects, matching funds from cities and towns, and capital projects funded by assessments.

The administrative bond cap is reviewed and subject to revision annually. Actual capital spending is subject to variance from budget due to the nature of capital projects and programs comprising the plan. In addition, debt affordability analysis and the assumptions and methodology that inform the analysis are subject to periodic review and are updated annually. These and other factors are expected to affect the out-years of the current five-year plan.

The Commonwealth aggregates its capital expenditures into seven major categories based primarily on the agencies responsible for spending and carrying out capital projects: information technology, infrastructure and facilities, environment, housing, public safety, transportation and other. The following table sets forth capital spending in fiscal 2013 through fiscal 2017 according to these categories.

Commonwealth Historical Capital Spending (in millions) (1)

| | Fiscal 2014 | Fiscal 2015 | Fiscal 2016 | Fiscal 2017 | Fiscal 2018 (3) |
|---------------------------|----------------|----------------|--------------------|----------------|-----------------|
| Investment Category: | | | | | |
| Information technology | \$190 | \$207 | \$169 | \$154 | \$185 |
| Infrastructure/facilities | 457 | 449 | 526 | 510 | 417 |
| Environment | 138 | 221 | 238 | 202 | 217 |
| Housing | 182 | 188 | 185 | 213 | 242 |
| Public safety | 22 | 26 | 18 | 17 | 18 |
| Transportation | 1,790 | 2,041 | 2,081 | 1,895 | 1,889 |
| Other | 227 | 242 | <u>215</u> | 269 | <u>280</u> |
| Total (2) | <u>\$3,006</u> | <u>\$3,374</u> | <u>\$3,432</u> | <u>\$3,260</u> | <u>\$3,248</u> |

SOURCE: Office of the State Comptroller.

- (1) Includes all spending funded by capital appropriations, including General Obligation, Special Obligation, project financed, and federal reimbursement spending.
- (2) Totals may not add due to rounding.
- (3) Unaudited.

The fiscal 2018 capital budget included approximately \$3.4 billion (including bond financed, project financed, and federally funded projects) allocated among the categories described above.

Debt Affordability Policy

The Executive Office for Administration and Finance has established a debt affordability policy for the Commonwealth. Pursuant to the debt affordability policy, the Executive Office for Administration and Finance has set an annual borrowing limit at a level designed to keep debt service on the Commonwealth's direct debt within 8% of budgeted revenues.

For this purpose, debt service includes programs expected to be funded both within and outside of the bond cap, including principal and interest payments on all general obligation debt, special obligation gas tax debt, ABP debt, projected debt service for REP, general obligation contract assistance payment obligations and budgetary contract assistant payment obligations on certain capital lease financings. This inclusive definition ensures that while some programs are expected to be funded outside of the bond cap, the related debt service costs of the programs should be fully accounted for under the debt affordability policy in setting the bond cap at appropriate levels.

For the purpose of the debt affordability analysis, budgeted revenue includes all Commonwealth taxes and other revenues available to pay Commonwealth operating expenses, including debt service, pensions and other budgetary obligations. It does not include off-budget revenues dedicated to the MBTA, the MSBA and the Massachusetts Convention Center Authority (MCCA).

For the fiscal 2019 capital budget, the Governor increased the administrative bond cap to \$2.340 billion from \$2.260 billion in fiscal 2018. The fiscal 2019 debt affordability analysis was based on debt service as described

above and assumed growth of budgeted revenues at a rate of 3.5% annually. In addition to keeping debt service within 8% of budgeted revenues, the debt management policy limits future annual growth in the bond cap for the regular capital program to not more than \$125 million.

The following table models projected total annual debt service payment obligations for the five-year capital investment plan period from fiscal 2018 through fiscal 2022, projected budgetary revenues and the resulting projected debt service as a percentage of projected budgeted revenues within 8% as prescribed by the Debt Affordability Policy, using assumptions adopted by the Capital Debt Affordability Committee.

Affordability Model of Capital Debt Affordability Committee (in thousands)

| | Fiscal 2018 (3) | Fiscal 2019 | Fiscal 2020 | Fiscal 2021 | Fiscal 2022 |
|--|-----------------|--------------|--------------|--------------|--------------|
| Projected Debt Service (1) | \$2,724,262 | \$2,741,171 | \$3,018,799 | \$3,210,532 | \$3,275,906 |
| Estimated Budgeted Revenues (2) | \$43,425,700 | \$44,945,600 | \$46,518,695 | \$48,146,850 | \$49,831,990 |
| Debt Service as % of Net Budgeted Revenues | 6.27% | 6.10% | 6.49% | 6.67% | 6.57% |

SOURCE: Executive Office for Administration and Finance.

- (1) For purposes of the debt affordability analysis under state finance law, debt service includes projected principal and interest payable on all general obligation debt, special obligation debt, accelerated bridge program debt, general obligation contract assistance and budgetary contract assistance obligations as of December 12, 2017. Projected general obligation borrowings assume level funding of administrative bond cap throughout the five-year capital plan period of fiscal 2018 through 2022, special obligation transit spending, and remaining authorized accelerated bridge program spending in fiscal 2018 through 2022. Interest on new debt obligations is assumed to be payable at an annual rate of 4.5% for 30 year bonds, increasing annually by 0.10%. Debt structure is assumed to be level annual principal and interest payments. Projections are for planning purposes only and assumptions are subject to change. Projections undertaken for purposes of the debt affordability analysis are intended to be conservative, provide a consistent model for comparative purposes, and do not account for actual borrowing or the State Treasurer's active debt service management. Debt service projections for these purposes is expected to exceed actual debt service in the short term. For actual debt service obligations, see the "Debt Service" line in the "Budgeted Operating Funds Statutory Basis" table under "SELECTED FINANCIAL DATA Statutory Basis Distribution of Budgetary Revenues and Expenses."
- (2) Budgeted revenues are projected to grow at a rate of 3.5% annually. For purposes of the debt affordability analysis, budgeted revenues include all Commonwealth taxes and other revenues available to pay Commonwealth operating expenses, including debt service, pensions and other budgetary obligations. Budgeted revenues do not include off-budget revenues dedicated to the MBTA, the MSBA and the MCCA.
- (3) Projected as of December, 2017 and not intended to reflect fiscal 2018 actual results.

The Capital Debt Affordability Committee is charged with reviewing on a continuing basis the amount and condition of the Commonwealth's tax-supported debt, as well as the debt of certain state authorities. The Committee is also responsible for providing an estimate of the total amount of new Commonwealth debt that can prudently be authorized for the next fiscal year, taking into account certain criteria, to the Governor and Legislature on or before December 15 of each year. The committee's estimates are advisory and not binding on the Governor or the Legislature. The Legislature is responsible for authorizing Commonwealth debt. The Governor determines the total amount capital spending for each fiscal year and the amount of new Commonwealth debt that he considers advisable to finance such spending. The Committee consists of seven voting members – the Secretary of Administration and Finance (who chairs the committee), the State Treasurer, the Comptroller, the Secretary of Transportation, one appointee of the Governor and two appointees of the State Treasurer – and eight legislative leaders who are nonvoting members. The committee determined that up to \$2.34 billion of capital debt issuance within the bond cap could be prudently authorized for fiscal 2019.

LONG-TERM LIABILITIES

General Authority to Borrow

Under its constitution, the Commonwealth may borrow money (a) for defense or in anticipation of receipts from taxes or other sources, any such loan to be paid out of the revenue of the year in which the loan is made, or (b) by a two-thirds vote of the members of each house of the Legislature present and voting thereon. The constitution further provides that borrowed money shall not be expended for any other purpose than that for which it was borrowed or for the reduction or discharge of the principal of the loan. In addition, the Commonwealth may give, loan or pledge its credit by a two-thirds vote of the members of each house of the Legislature present and voting thereon, but such credit may not in any manner be given or loaned to or in aid of any individual, or of any private association, or of any corporation which is privately owned or managed.

The Commonwealth has waived its sovereign immunity and consented to be sued on contractual obligations, which includes bonds and notes issued by it and all claims with respect thereto. However, the property of the Commonwealth is not subject to attachment or levy to pay a judgment, and the satisfaction of any judgment generally requires legislative appropriation. Enforcement of a claim for payment of principal of or interest on bonds and notes of the Commonwealth may also be subject to the provisions of federal or Commonwealth statutes, if any, hereafter enacted extending the time for payment or imposing other constraints upon enforcement, insofar as the same may be constitutionally applied. The United States Bankruptcy Code is not applicable to states.

Commonwealth Debt. The State Treasurer is statutorily responsible for the borrowing needs of the Commonwealth, including short-term cash flow needs and long-term borrowing needs for the capital budget. Borrowing is accomplished through the sale of short-term notes and long-term bonds. The Commonwealth is authorized to issue three types of direct debt – general obligation debt, special obligation debt and federal grant anticipation notes. General obligation debt is secured by a pledge of the full faith and credit of the Commonwealth. See "General Obligation Debt" below. Special obligation debt may be secured either with a pledge of receipts credited to the Commonwealth Transportation Fund (formerly the Highway Fund) or with a pledge of receipts credited to the Convention Center Fund. See "Special Obligation Debt" below. Federal grant anticipation notes are secured by a pledge of federal highway construction reimbursements. See "Federal Grant Anticipation Notes" below.

Other Long-Term Liabilities. The Commonwealth is also authorized to pledge its credit in aid of and provide contractual support for certain independent authorities and political subdivisions within the Commonwealth. These Commonwealth liabilities are classified as general obligation contract assistance liabilities or contingent liabilities. In addition, the Commonwealth is authorized to pledge its credit in support of scheduled, periodic payments to be made by the Commonwealth under interest rate swaps and other hedging agreements related to bonds or notes of the Commonwealth.

General obligation contract assistance liabilities arise from statutory requirements for (i) payments by the Commonwealth to the Massachusetts Clean Water Trust, MassDOT and the Massachusetts Development Finance Agency that are used by such entities to pay a portion of the debt service on certain of their outstanding bonds and (ii) payments from the Social Innovation Financing Trust Fund on "pay for success" contracts, as described below. Such liabilities constitute a pledge of the Commonwealth's credit for which a two-thirds vote of the Legislature is required. See "General Obligation Contract Assistance Liabilities" below.

Contingent liabilities relate to debt obligations of certain independent authorities and agencies of the Commonwealth that are expected to be paid without Commonwealth assistance, but for which the Commonwealth has some kind of liability if expected payment sources do not materialize. These liabilities consist of guaranties and similar obligations with respect to which the Commonwealth's credit has been or may be pledged, as in the case of certain debt obligations of the MBTA (pre-2000), the Woods Hole, Martha's Vineyard and Nantucket Steamship Authority, and the higher education building authorities. The Commonwealth has certain statutorily contemplated payment obligations with respect to which the Commonwealth's credit has not been pledged, as in the case of the Commonwealth's obligation to fund debt service, solely from moneys otherwise appropriated for the affected institution, owed by certain community colleges and state universities on bonds issued by the former Massachusetts Health and Educational Facilities Authority (now the Massachusetts Development Finance Agency) and the Massachusetts State College Building Authority. See "Contingent Liabilities" below.

Statutory Limit on Direct Debt. Since December, 1989, state finance law has included a limit on the amount of outstanding "direct" bonds of the Commonwealth. For fiscal 2012, the debt limit was \$18.944 billion under the statute in place during fiscal 2012. In August, 2012, state finance law was amended, effective January 1, 2013, to specify that the debt limit be calculated for fiscal years starting in fiscal 2013 using a fiscal 2012 base value of \$17,070,000,000 and increasing the limit for each subsequent fiscal year to 105% of the previous fiscal year's limit. Based on this calculation, the statutory limit on "direct" bonds during fiscal 2019 is \$24,019,204,215. Prior to June 10, 2013, this limit was calculated using a statutory definition that differed from GAAP in that the principal amount of outstanding bonds included the amount of any premium and was measured net of any discount, costs of issuance and other financing costs ("net proceeds"). On June 10, 2013, state finance law was amended, effective January 1, 2013, to change the statutory definition of outstanding debt from net proceeds to principal outstanding, a change that brings the outstanding debt definition in conformance with GAAP.

The debt limit law provides that bonds to be refunded from the proceeds of Commonwealth refunding bonds are to be excluded from outstanding "direct" bonds upon the issuance of the refunding bonds. Pursuant to special legislation enacted over the years, certain outstanding Commonwealth debt obligations are not counted in computing the amount of bonds subject to the limit, including Commonwealth refunding/restructuring bonds issued in September and October, 1991, federal grant anticipation notes, bonds issued to pay operating notes issued by the MBTA or to reimburse the Commonwealth for advances to the MBTA, bonds payable from the Central Artery and Statewide Road and Bridge Infrastructure Fund, bonds issued to finance the Massachusetts School Building Authority and bonds issued to finance the Commonwealth's Accelerated Bridge Program. On August 10, 2016, the Governor approved legislation that exempts from the statutory debt limit bonds that are issued to finance the Commonwealth's rail enhancement program.

The outstanding Commonwealth debt, the amounts of such outstanding debt excluded from the statutory debt limit, the net amounts of such outstanding Commonwealth debt subject to the statutory debt limit and the statutory debt limit as of the end of each of the last five fiscal years are shown in the following table on a statutory basis.

Calculation of the Debt Limit (in thousands)

| | Fiscal 2014 (4) | Fiscal 2015 | Fiscal 2016 | Fiscal 2017 | Fiscal 2018 (5) | Fiscal 2019 (6) |
|--|---------------------|---------------------|--------------|---------------------|---------------------|---------------------|
| Total principal balance | \$22,419,852 | \$23,826,301 | \$25,079,591 | \$26,445,665 | \$27,360,819 | \$27,248,261 |
| Less: principal of direct debt excluded from the statutory debt limit: | | | | | | |
| Special obligation debt (1) | (888,405) | (829,340) | (768,365) | (703,690) | (657,340) | (657,340) |
| Accelerated bridge program | (1,403,850) | (1,495,150) | (1,535,890) | (1,642,730) | (1,680,555) | (1,680,555) |
| Rail enhancement program (2) | - | - | - | (644,540) | (1,131,105) | (1,131,105) |
| Federal grant anticipation notes (1) | (530,935) | (699,855) | (657,040) | (738,010) | (748,445) | (748,445) |
| Assumed county debt | - | - | - | - | - | - |
| MBTA forward funding | (207) | (207) | (207) | (207) | (207) | (207) |
| Transportation Infrastructure Fund School Building Assistance | (1,241,263) | (1,197,127) | (1,150,296) | (1,110,195) | (1,092,519) | (1,082,728) |
| (SBA) | (723,917) | (689,446) | (652,197) | (632,348) | (598,985) | (577,709) |
| Outstanding direct debt, principal (3) | <u>\$17,631,275</u> | <u>\$18,915,176</u> | \$20,315,596 | <u>\$20,973,945</u> | \$21,451,664 | \$21,370,172 |
| Statutory Debt Limit | <u>\$18,819,675</u> | <u>\$19,760,659</u> | \$20,748,692 | <u>\$21,786,126</u> | <u>\$22,875,433</u> | <u>\$24,019,204</u> |

SOURCE: Office of the Comptroller.

- (2) Exempt from the debt limit, effective August 10, 2016.
- (3) Includes accretion of capital appreciation bonds.
- (4) In accordance with GAAP, includes \$200 million in principal related to commercial paper bond anticipation notes (BANs) which were retired subsequent to year-end upon the issuance of long-term general obligation bonds on July 11, 2014.
- (5) Amounts are as of June 30, 2018 and are unaudited.
- (6) Amounts are as of October 31, 2018 and are unaudited.

General Obligation Debt

As of October 31, 2018, the Commonwealth had approximately \$23.3 billion in general obligation bonds outstanding, of which \$20.3 billion, or approximately 87% was fixed rate debt and \$3.0 billion, or 13%, was variable rate debt. The Commonwealth's outstanding general obligation variable rate debt consists of several variable rate structures. These structures include floating rate notes in various interest rate modes, direct purchase agreements in various interest rate modes, multi-modal bonds currently in the Term Mode, and variable rate demand bonds. Variable rate demand bonds, which account for \$539.2 million of outstanding general obligation debt as of October 31, 2018, are supported by liquidity facilities that require the bonds to be tendered by a specified date if the facility is not replaced or the bonds are not otherwise refinanced. See "Liquidity Facilities." For the purpose of reporting general obligation debt outstanding and variable rate debt outstanding, future compounded interest on the Commonwealth's variable rate College Opportunity Bonds, as discussed in greater detail below, is included as debt outstanding. Additionally, any outstanding commercial paper, bond anticipation notes, or revenue anticipation notes, as more fully described below, are not reported in general obligation debt outstanding calculations.

Of all Commonwealth variable rate debt outstanding, the interest rates on \$1.5 billion, or approximately 7% of total general obligation debt, have been synthetically fixed by means of floating-to-fixed interest rate swap agreements. These agreements are used as hedges to mitigate the risk associated with variable rate bonds.

Under state finance law, scheduled, periodic payments to be made by the Commonwealth pursuant to swap agreements in existence on August 1, 2008 or entered into after such date constitute general obligations of the Commonwealth to which its full faith and credit are pledged. The remaining variable rate debt of \$1.4 billion or approximately 6% of the total outstanding general obligation debt, is unhedged and, accordingly, floats with interest rates re-set on a periodic basis.

⁽¹⁾ Includes federal grant anticipation notes issued as crossover refunding bonds. The refunding escrows funded by these bonds and related premiums are used to pay interest on the refunding bonds until the refunded bonds are callable and then to redeem the refunded bonds. Interest on the refunded bonds prior to redemption continues to be paid from pledged revenues as before.

The Commonwealth implemented a multi-year asset/liability management strategy. The intent of the asset/liability strategy is to better balance the Commonwealth's interest rate exposure between its cash assets and debt liabilities by increasing the portion of its outstanding debt issued as unhedged, floating rate bonds. The Commonwealth intends to monitor and evaluate this balance.

As of October 31, 2018, the Commonwealth had outstanding approximately \$150.9 million (\$80.0 million principal and including a discount equal to \$70.9 million) of variable rate "U. Plan" bonds, sold in conjunction with a college savings program administered by the Massachusetts Educational Financing Authority (MEFA), which bear deferred interest at a rate equal to the percentage change in the consumer price index plus 2%, together with current interest at the rate of 0.5%. This debt is held directly by MEFA and has no secondary market.

The Commonwealth is authorized to issue short-term general obligation debt as revenue anticipation notes or bond anticipation notes. Fixed-rate revenue anticipation notes (RANs) are issued by the State Treasurer annually in anticipation of revenue receipts for the same fiscal year. Revenue anticipation notes must be repaid no later than the close of the fiscal year in which they are issued. Bond anticipation notes may be issued by the State Treasurer in anticipation of the issuance of bonds, including, in some circumstances special obligation bonds. See "Special Obligation Debt" below. As of October 31, 2018, there were \$1.5 billion of RANs outstanding in three series with maturities ranging from April 25, 2019 through June 20, 2019. In addition, as of October 31, 2018, the Commonwealth had liquidity support for a \$400 million commercial paper program which is available for cash flow purposes. As of October 31, 2018, there was no commercial paper outstanding.

Special Obligation Debt

Commonwealth Transportation Fund. Section 20 of Chapter 29 of the General Laws, as amended, authorizes the Commonwealth to issue special obligation bonds secured by all or a portion of revenues accounted to the Commonwealth Transportation Fund (formerly the Highway Fund). Revenues which are accounted to the Commonwealth Transportation Fund are primarily derived from taxes and fees relating to the operation or use of motor vehicles in the Commonwealth, including the motor fuels excise tax and registry of motor vehicles fees. In addition, a portion of the Commonwealth's receipts from the sales tax is dedicated to the Commonwealth Transportation Fund (see "COMMONWEALTH REVENUES – State Taxes; Sales and Use Tax"), as is the underground storage tank petroleum cleanup fee to the extent it exceeds \$30 million, and state finance law currently provides for a series of substantial transfers from the General Fund to the Commonwealth Transportation Fund through fiscal 2020; none of the sales tax receipts or General Fund transfers has been pledged to secure Commonwealth special obligation bonds.

Between 1992 and 2005, the Commonwealth issued special obligation bonds secured by a lien on a specified portion of the motor fuels excise tax. As of October 31, 2018, the Commonwealth had outstanding approximately \$105.2 million of such special obligation bonds secured by a pledge of 6.86¢ of the 24¢ motor fuels excise tax. In December, 2010, the trust agreement securing such bonds was closed to further issuance of additional debt, with the exception of refunding bonds.

The Commonwealth is also authorized to issue approximately \$1.876 billion of special obligation bonds secured by a pledge of all or a portion of revenues accounted to the Commonwealth Transportation Fund (CTF Bonds) to fund a portion of the Accelerated Bridge Program (ABP). Additionally, in April, 2014, the Commonwealth was authorized to issue up to \$6.7 billion in general obligation debt, special obligation debt, or a combination of both, for the purpose of funding capital expenditures of MassDOT, for the benefit of the MBTA and for other Rail Enhancement Program (REP) projects. As of October 31, 2018, the Commonwealth had outstanding approximately \$2.8 billion of CTF Bonds, which are secured by a pledge of registry fees and a specified portion of the motor fuels excise tax, \$1.7 billion of which have been issued in support of the ABP and \$1.1 billion of which have been issued in support of the REP.

Convention Center Fund. Chapter 152 of the Acts of 1997, as amended, authorized \$694.4 million of special obligation bonds to be issued for the purposes of building a new convention center in Boston (\$609.4 million), the Springfield Civic Center (\$66 million), and the Worcester Convention Center (\$19 million). The bonds are payable from moneys credited to the Convention Center Fund created by such legislation, which include certain hotel tax receipts from hotels in Boston, Cambridge, Springfield and Worcester, a surcharge on car rentals in Boston, a parking surcharge at all three facilities, a surcharge on sightseeing tours and cruises in Boston and sales tax receipts from certain hotels and other retail establishments in Boston, Cambridge and Springfield. The

legislation requires a capital reserve fund to be maintained at a level equal to maximum annual debt service and provides that if the fund falls below its required balance, the 2.75% convention center financing fee in Boston is to be increased (though the overall hotel tax in Boston, including the fee, cannot exceed 14%). In June, 2004, the Commonwealth issued \$686.7 million of special obligation bonds secured solely by the pledge of receipts of tax revenues within the special districts surrounding the centers and other special revenues connected to such facilities, and in June, 2005, the Commonwealth issued \$527.6 million of special obligation refunding bonds, which advance refunded, in part, the 2004 issue. Of the 2004 and 2005 special obligation bonds secured solely by the pledge of receipts of tax revenues in the Convention Center Fund, approximately \$552.1 million remained outstanding as of October 31, 2018.

On July 29, 2014, the Governor approved legislation authorizing the Commonwealth to issue an additional \$1.1 billion in special obligation bonds to finance an expansion of the convention center in Boston, to finance costs of issuance and fund a debt service reserve fund. Such bonds would be secured by and payable from the Convention Center Fund, with the State Treasurer and Secretary of Administration and Finance having the authority to pledge additional state hotel/motel room occupancy excises to the new bonds. The expansion project is currently on hold.

Federal Grant Anticipation Notes

The Commonwealth is also authorized to issue \$1.1 billion of grant anticipation notes ("GANs") secured by future federal funds to fund a portion of the ABP. Such notes are secured by a back-up pledge of net amounts in the Commonwealth Transportation Fund after application of such amounts in accordance with the trust agreement securing the CTF Bonds and previously issued bonds secured by motor fuels excise taxes. The Commonwealth expects to pay interest on the notes supporting the ABP from state appropriations. As of October 31, 2018, \$748.4 million of GANs was outstanding.

Build America Bonds

The Commonwealth has issued bonds in the form of Build America Bonds (BABs) and as Recovery Zone Economic Development Bonds (RZEDBs). BABs and RZEDBs were authorized under the federal American Recovery and Reinvestment Act of 2009 (ARRA). Pursuant to ARRA, the Commonwealth is entitled to receive cash subsidy payments from the federal government equal to 35% of the debt service payable on the BABs and 45% of the debt service payable on the RZEDBs, provided, in both cases, that the Commonwealth makes certain required filings in accordance with applicable federal rules. Such interest subsidy payments are treated under federal law as overpayments of tax and, accordingly, are subject to offset against certain amounts that may be owed by the Commonwealth to the federal government or its agencies. In federal fiscal year 2016, such payments were subject to a sequestration reduction of 6.8%, with the Bipartisan Budget Act of 2015, approved by the President on November 2, 2015, extending the sequestration provisions through federal fiscal year 2025. For federal fiscal years 2017 and 2018, such payments were subject to a 6.9% and 6.6%, respectively, reduction, and for federal fiscal year 2019 there will be a 6.2% reduction. Such interest subsidy payments could become subject to a much larger sequestration reduction, and potentially be eliminated altogether, under the Statutory Pay-As-You-Go (PAYGO) Act of 2010, which is designed to limit federal deficit spending. Since the enactment of the PAYGO Act, the U.S. Congress has consistently acted to prevent its implementation, but there can be no assurance that it will continue to do so.

Beginning in fiscal 2012, federal interest subsidy payments received by the Commonwealth are required to be deposited in a Build America Bonds Subsidy Trust Fund and used, without further legislative appropriation, to pay debt service on the related BABs and RZEDBs. The Commonwealth is obligated to make payments of principal and interest on the BABs and RZEDBs whether or not it receives interest subsidy payments. As of October 31, 2018, \$2.1 billion of the Commonwealth's outstanding general obligation debt was comprised of BABs, \$419.8 million of the outstanding CTF Bonds were comprised of BABs, \$156.4 million of the outstanding CTF Bonds consisted of RZEDBs and \$65.1 million of the outstanding GANs consisted of BABs.

The following table shows long-term debt of the Commonwealth issued and retired from fiscal 2013 through fiscal 2018, exclusive of unamortized bond premiums.

General and Special Obligation Long-Term Debt Issuance and Repayment Analysis (in thousands) (1)

| | Fiscal 2014 (4) | Fiscal 2015 | Fiscal 2016 | Fiscal 2017 | Fiscal 2018 (5) |
|--|--|---|--|--|--|
| Beginning Balance as of July 1 Debt Issued Subtotal | \$21,513,039 <u>2,359,899</u> 23,672,983 | \$22,419,852 2,918,817 25,338,669 | \$23,826,301 <u>2,766,419</u> 26,592,720 | \$25,079,591 <u>2,877,265</u> 27,956,856 | \$26,445,665 <u>2,391,763</u> 28,837,428 |
| Subtotal | <u>23,072,983</u> | <u> 23,338,009</u> | <u> 20,392,720</u> | <u>27,930,830</u> | 28,837,428 |
| Debt retired or defeased, exclusive of refunded debt Refunding debt issued, net of | (1,434,511) | (1,486,243) | (1,446,444) | (1,389,581) | (1,389,419) |
| refunded debt (3) Ending Balance June 30 (2) | (18,575) \$22,419,852 | (26,125) \$23,826,301 | (66,685) \$25,079,591 | (121,610) \$26,445,665 | (87,190) \$27,360,819 |

SOURCE: Office of the Comptroller.

- (1) Including accretion of capital appreciation bonds.
- (2) Includes federal grant anticipation notes issued as crossover refunding bonds. The refunding escrows funded by these bonds and related premiums are used to pay interest on the refunding bonds until the refunded bonds are callable and then to redeem the refunded bonds. Interest on the refunded bonds prior to redemption continues to be paid from pledged revenues as before.
- (3) Amounts may be negative due to defeasances of debt of authorities from the issuance of Commonwealth debt as afforded under General Laws.
- (4) In accordance with GAAP, includes \$200 million in principal related to commercial paper bond anticipation notes (BANs) which were retired subsequent to year-end upon the issuance of long-term general obligation bonds on July 11, 2014.
- (5) Amounts are unaudited.

The following table sets forth the amounts of Commonwealth long-term general obligation debt, special obligation debt and federal grant anticipation notes outstanding, exclusive of unamortized bond premiums, as of the end of the last five fiscal years.

Outstanding Long Term Commonwealth Debt (in thousands)

| | Fiscal 2014 (1) | Fiscal 2015 | Fiscal 2016 | Fiscal 2017 | Fiscal 2018 (2) |
|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| General Obligation Debt Special Obligation Debt | \$19,596,662 2,292,255 | \$20,801,956 2,324,490 | \$21,668,296 2,754,255 | \$22,716,695 2,990,960 | \$23,143,374 3,469,000 |
| Federal Grant Anticipation Notes | 530,935 | <u>699,855</u> | <u>657,040</u> | <u>738,010</u> | <u>748,445</u> |
| TOTAL | <u>\$22,419,852</u> | <u>\$23,826,301</u> | <u>\$25,079,591</u> | <u>\$26,445,665</u> | <u>\$27,360,819</u> |

SOURCE: Office of the Comptroller.

Debt Service Requirements

The following table sets forth, as of October 31, 2018, the annual fiscal year debt service requirements on outstanding Commonwealth general obligation bonds, special obligation bonds and federal GANs. For variable-rate bonds with respect to which the Commonwealth is a fixed-rate payor under an associated interest rate swap agreement, the debt service schedule assumes payment of the fixed rate due under such agreement. For other variable-rate bonds, the schedule assumes a 5% interest rate.

⁽¹⁾ In accordance with GAAP, includes \$200 million in principal related to commercial paper bond anticipation notes (BANs) which were retired subsequent to year-end upon the issuance of long-term general obligation bonds on July 11, 2014.

⁽²⁾ Amounts are unaudited.

General Obligation Bonds

Federal Highway Grant Anticipation Notes

| Period | | Gross | | Build America | | | | Gross | Build America | Net | Debt |
|------------|--------------|--------------|----------|-----------------------|--------------|--------------|-----------|-----------|-----------------------|-----------|-----------|
| Ending | Principal | Interest | CABs | Bond Subsidies | Net Interest | Debt Service | Principal | Interest | Bond Subsidies | Interest | Service |
| 6/30/2019 | \$ 777,315 | \$657,140 | \$ - | (\$24,658) | \$632,482 | \$1,409,797 | \$ 49,300 | \$ 36,793 | (\$ 973) | \$ 35,820 | \$ 85,120 |
| 6/30/2020 | 1,308,529 | 987,385 | 4,410 | (36,300) | 951,085 | 2,264,024 | 66,015 | 34,447 | (782) | 33,665 | 99,680 |
| 6/30/2021 | 1,295,183 | 923,692 | 4,265 | (35,014) | 888,679 | 2,188,127 | 78,485 | 31,191 | (577) | 30,614 | 109,099 |
| 6/30/2022 | 1,220,085 | 864,032 | 4,436 | (32,698) | 831,333 | 2,055,855 | 82,375 | 27,302 | (357) | 26,945 | 109,320 |
| 6/30/2023 | 1,069,763 | 808,875 | 4,532 | (31,412) | 777,463 | 1,851,758 | 86,470 | 23,205 | (122) | 23,083 | 109,553 |
| 6/30/2024 | 1,037,900 | 755,542 | 4,606 | (31,412) | 724,130 | 1,766,636 | 89,510 | 19,290 | - | 19,290 | 108,800 |
| 6/30/2025 | 1,030,870 | 706,792 | 4,563 | (31,177) | 675,615 | 1,711,048 | 93,985 | 14,815 | - | 14,815 | 108,800 |
| 6/30/2026 | 910,789 | 661,703 | 4,683 | (30,776) | 630,926 | 1,546,399 | 98,685 | 10,115 | - | 10,115 | 108,800 |
| 6/30/2027 | 823,704 | 620,001 | 4,963 | (30,203) | 589,798 | 1,418,464 | 103,620 | 5,181 | - | 5,181 | 108,801 |
| 6/30/2028 | 783,938 | 582,932 | 5,248 | (28,953) | 553,978 | 1,343,164 | - | - | - | - | - |
| 6/30/2029 | 890,541 | 546,509 | 4,865 | (26,687) | 519,822 | 1,415,228 | - | - | - | - | - |
| 6/30/2030 | 887,741 | 506,421 | 4,619 | (22,892) | 483,528 | 1,375,887 | - | - | - | - | - |
| 6/30/2031 | 880,783 | 459,966 | 4,391 | (16,808) | 443,158 | 1,328,332 | - | - | - | - | - |
| 6/30/2032 | 793,646 | 425,324 | 4,185 | (14,776) | 410,548 | 1,208,379 | - | - | - | - | - |
| 6/30/2033 | 628,689 | 393,234 | 3,259 | (12,440) | 380,794 | 1,012,741 | - | - | - | - | - |
| 6/30/2034 | 585,573 | 365,346 | 2,605 | (11,068) | 354,278 | 942,456 | - | - | - | - | - |
| 6/30/2035 | 592,991 | 340,155 | 2,005 | (9,647) | 330,508 | 925,504 | - | - | - | - | - |
| 6/30/2036 | 626,506 | 313,322 | 1,404 | (8,177) | 305,146 | 933,056 | - | - | - | - | - |
| 6/30/2037 | 671,171 | 283,613 | 994 | (6,654) | 276,959 | 949,124 | - | - | - | - | - |
| 6/30/2038 | 650,918 | 252,992 | 645 | (5,077) | 247,914 | 899,477 | - | - | - | - | - |
| 6/30/2039 | 691,365 | 222,675 | 210 | (3,445) | 219,230 | 910,804 | - | - | - | - | - |
| 6/30/2040 | 647,500 | 192,479 | - | (1,609) | 190,870 | 838,370 | - | - | - | - | - |
| 6/30/2041 | 651,630 | 164,141 | - | - | 164,141 | 815,771 | - | - | - | - | - |
| 6/30/2042 | 715,140 | 136,949 | - | - | 136,949 | 852,089 | - | - | - | - | - |
| 6/30/2043 | 752,630 | 107,709 | - | - | 107,709 | 860,339 | - | - | - | - | - |
| 6/30/2044 | 680,225 | 75,900 | - | - | 75,900 | 756,125 | - | - | - | - | - |
| 6/30/2045 | 529,985 | 52,710 | - | - | 52,710 | 582,695 | - | - | - | - | - |
| 6/30/2046 | 500,820 | 30,556 | - | - | 30,556 | 531,376 | - | - | - | - | - |
| 6/30/2047 | 262,500 | 11,220 | - | - | 11,220 | 273,720 | | | | | |
| 6/30/2048 | 51,500 | 2,675 | - | - | 2,675 | 54,175 | | | | | |
| 6/30/2049 | 10,000 | 255 | | | 255 | 10,255 | | | | | |
| Totals (1) | \$22,959,929 | \$12,452,243 | \$70,887 | (\$451,884) | \$12,000,359 | \$35,031,175 | \$748,445 | \$202,338 | (\$2,811) | \$199,528 | \$947,973 |

SOURCE: Office of the Comptroller.
(1) Totals may not add due to rounding.

Special Obligation Revenue Bonds (Convention Center)

| Period | | | | | | Build America | | |
|------------|-----------|-----------|--------------|-------------|----------------|----------------------|--------------|--------------|
| Ending | Principal | Interest | Debt Service | Principal | Gross Interest | Bond Subsidies | Net Interest | Debt Service |
| 6/30/2019 | \$ 24,475 | \$ 15,063 | \$ 39,538 | \$ 15,350 | \$ 82,414 | (\$ 12,314) | \$ 70,100 | \$ 85,450 |
| 6/30/2020 | 23,380 | 28,842 | 52,222 | 16,855 | 81,731 | (12,314) | 69,417 | 86,272 |
| 6/30/2021 | 24,610 | 27,673 | 52,283 | 18,220 | 80,889 | (12,314) | 68,574 | 86,794 |
| 6/30/2022 | 25,970 | 26,380 | 52,350 | 21,760 | 79,978 | (12,314) | 67,663 | 89,423 |
| 6/30/2023 | 27,440 | 24,952 | 52,392 | 30,245 | 78,922 | (12,314) | 66,607 | 96,852 |
| 6/30/2024 | 28,990 | 23,443 | 52,433 | 39,870 | 77,421 | (12,314) | 65,107 | 104,977 |
| 6/30/2025 | 30,625 | 21,848 | 52,473 | 51,720 | 75,430 | (11,937) | 63,493 | 115,213 |
| 6/30/2026 | 32,360 | 20,164 | 52,524 | 54,340 | 72,806 | (11,529) | 61,276 | 115,616 |
| 6/30/2027 | 34,190 | 18,384 | 52,574 | 56,420 | 69,947 | (11,065) | 58,882 | 115,302 |
| 6/30/2028 | 36,125 | 16,504 | 52,629 | 51,520 | 66,970 | (10,575) | 56,394 | 107,914 |
| 6/30/2029 | 38,170 | 14,517 | 52,687 | 54,670 | 64,276 | (10,058) | 54,218 | 108,888 |
| 6/30/2030 | 40,330 | 12,418 | 52,748 | 54,600 | 61,643 | (9,512) | 52,131 | 106,731 |
| 6/30/2031 | 42,610 | 10,199 | 52,809 | 60,350 | 58,868 | (8,935) | 49,932 | 110,282 |
| 6/30/2032 | 45,020 | 7,856 | 52,876 | 63,445 | 55,625 | (8,316) | 47,309 | 110,754 |
| 6/30/2033 | 47,565 | 5,380 | 52,945 | 66,715 | 52,214 | (7,661) | 44,552 | 111,267 |
| 6/30/2034 | 50,250 | 2,764 | 53,014 | 70,000 | 48,798 | (6,970) | 41,828 | 111,828 |
| 6/30/2035 | - | - | - | 70,055 | 45,280 | (6,239) | 39,042 | 109,097 |
| 6/30/2036 | - | - | - | 73,595 | 41,756 | (5,466) | 36,289 | 109,884 |
| 6/30/2037 | - | - | - | 81,615 | 38,048 | (4,650) | 33,398 | 115,013 |
| 6/30/2038 | - | - | - | 81,180 | 33,979 | (3,718) | 30,261 | 111,441 |
| 6/30/2039 | - | - | - | 85,455 | 29,926 | (2,546) | 27,380 | 112,835 |
| 6/30/2040 | - | - | - | 89,835 | 25,534 | (1,308) | 24,225 | 114,060 |
| 6/30/2041 | - | - | - | 94,505 | 20,901 | - | 20,901 | 115,406 |
| 6/30/2042 | - | - | - | 99,385 | 16,911 | - | 16,911 | 116,296 |
| 6/30/2043 | - | - | - | 103,165 | 12,912 | - | 12,912 | 116,077 |
| 6/30/2044 | - | - | - | 109,415 | 8,135 | - | 8,135 | 117,550 |
| 6/30/2045 | - | - | - | 9,600 | 2,724 | - | 2,724 | 12,324 |
| 6/30/2046 | - | - | - | 56,670 | 2,304 | - | 2,304 | 58,974 |
| Totals (1) | \$552,110 | \$276,387 | \$828,497 | \$1,680,555 | \$1,386,339 | (\$194,371) | \$1,191,967 | \$2,872,522 |

SOURCE: Office of the Comptroller.
(1) Totals may not add due to rounding.

Special Obligation Revenue Bonds (Gas Tax)

Special Obligation Revenue Bonds (CTF - Rail Enhancement Program)

| Period | | | | | | |
|------------|-----------|----------|--------------|-------------|-------------|--------------|
| Ending | Principal | Interest | Debt Service | Principal | Interest | Debt Service |
| 6/30/2019 | \$ 24,300 | \$ 5,518 | \$ 29,818 | \$ 26,495 | \$ 51,930 | \$ 78,425 |
| 6/30/2020 | 25,640 | 4,182 | 29,822 | 29,045 | 51,451 | 80,496 |
| 6/30/2021 | 26,905 | 2,916 | 29,821 | 29,910 | 50,064 | 79,974 |
| 6/30/2022 | 28,385 | 1,436 | 29,821 | 28,760 | 48,586 | 77,346 |
| 6/30/2023 | - | - | - | 26,610 | 47,229 | 73,839 |
| 6/30/2024 | - | - | - | 19,785 | 45,927 | 65,712 |
| 6/30/2025 | - | - | - | 10,810 | 44,996 | 55,806 |
| 6/30/2026 | - | - | - | 11,295 | 44,468 | 55,763 |
| 6/30/2027 | - | - | - | 12,565 | 43,916 | 56,481 |
| 6/30/2028 | - | - | - | 21,010 | 43,288 | 64,298 |
| 6/30/2029 | - | - | - | 21,495 | 42,286 | 63,781 |
| 6/30/2030 | - | - | - | 25,205 | 41,211 | 66,416 |
| 6/30/2031 | - | - | - | 23,265 | 40,108 | 63,373 |
| 6/30/2032 | - | - | - | 24,500 | 38,944 | 63,444 |
| 6/30/2033 | - | - | - | 25,785 | 37,719 | 63,504 |
| 6/30/2034 | - | - | - | 27,120 | 36,430 | 63,550 |
| 6/30/2035 | - | - | - | 31,850 | 35,074 | 66,924 |
| 6/30/2036 | - | - | - | 33,145 | 33,667 | 66,812 |
| 6/30/2037 | - | - | - | 30,390 | 32,010 | 62,400 |
| 6/30/2038 | - | - | - | 36,300 | 30,490 | 66,790 |
| 6/30/2039 | - | - | - | 37,740 | 28,683 | 66,423 |
| 6/30/2040 | - | - | - | 39,485 | 26,799 | 66,284 |
| 6/30/2041 | - | - | - | 41,255 | 24,828 | 66,083 |
| 6/30/2042 | - | - | - | 42,330 | 22,865 | 65,195 |
| 6/30/2043 | - | - | - | 44,480 | 20,936 | 65,416 |
| 6/30/2044 | - | - | - | 45,040 | 18,904 | 63,944 |
| 6/30/2045 | - | - | - | 152,270 | 16,895 | 169,165 |
| 6/30/2046 | - | - | - | 112,165 | 10,353 | 122,518 |
| 6/30/2047 | - | - | - | 59,100 | 5,650 | 64,750 |
| 6/30/2048 | - | - | - | 61,900 | 2,845 | 64,745 |
| Totals (1) | \$105,230 | \$14,052 | \$119,282 | \$1,131,105 | \$1,018,552 | \$2,149,657 |
| | | | | | | |

SOURCE: Office of the Comptroller.
(1) Totals may not add due to rounding.

Interest Rate Swaps

The Commonwealth has entered into interest rate swap agreements for the sole purpose of hedging changes in the interest rates on a portion of its outstanding variable rate bonds, predicated on the assumption that the interest on such bonds, combined with the cost of the associated interest rate swaps, would produce lower aggregate interest costs than fixed-rate bonds. As of October 31, 2018, approximately \$1.5 billion of the Commonwealth's outstanding variable-rate debt was synthetically fixed via floating-to-fixed interest rate swap hedge agreements. Included in this figure is \$54.0 million in synthetically fixed debt associated with special obligation issues as shown in the table below.

Under the terms of these floating-to-fixed rate hedge agreements, the counterparties to the swaps are obligated to pay the Commonwealth an amount equal or approximately equal to the variable-rate payment on the related bonds or a payment based on a market index, and the Commonwealth is obligated to pay the counterparties a stipulated fixed rate. The floating rate received by the Commonwealth from swap counterparties is used to offset the variable rate paid to bondholders. Only the net difference in interest payments is actually exchanged with the counterparty. The net payments made or received on these agreements are reported as part of interest expense in the Commonwealth's basic financial statements. In all cases, the Commonwealth remains responsible for making interest payments to the variable-rate bondholders.

The intended effect of these agreements is essentially to fix the Commonwealth's interest rate obligations with respect to its variable-rate bonds in order to hedge or mitigate the Commonwealth's exposure to changes in interest rates on these bonds. For example, during a period when interest rates rise, the Commonwealth would receive higher payments from swap counterparties that would be used to offset higher payments to bondholders of the outstanding variable rate bonds. During a period when interest rates decline, the reduction in interest payments to bondholders would offset the higher payments made to swap counterparties. In both scenarios, the net obligation of the Commonwealth is essentially fixed through the life of the swap and bonds. This allows the Commonwealth to finance its capital budget using floating rate bonds, which, combined with interest rate swaps, are assumed to be less costly than fixed-rate bonds, while hedging the risk of rising interest rates on those bonds to provide long-term budget certainty. As of June 30, 2017, all of the Commonwealth's interest rate swaps were floating-to-fixed rate agreements and were deemed effective hedges, as provided for in GASB Statement No. 53.

The bonds and related swap agreements have final maturities ranging from 2020 to 2033. The total notional value of approximately \$1.6 billion effectively matches the par amount of the related variable-rate bonds. Under the swap agreements, the Commonwealth pays the relevant counterparties fixed rates ranging from 3.769% to 5.059% and receives variable-rate payments equal to or approximately equal to the amount of variable rate payments the Commonwealth pays on the related variable-rate refunding bonds or a payment based on a market index.

All of the Commonwealth's counterparties are required to post collateral in certain circumstances. The Commonwealth is not required to post collateral under any of its existing swap agreements.

The following table describes the interest rate swap agreements, all of which are floating-to-fixed rate hedges that the Commonwealth has entered into in connection with certain of its outstanding variable rate bond issues as of October 31, 2018.

| | Outstanding Notional Amount | Bond Floating | Swap Fixed Rate Paid | Swap Variable Rate | Effective | Termination | Fair value as | |
|--|-----------------------------------|------------------|-------------------------------|--------------------------------------|-----------|-------------|-----------------|-----------------------------------|
| Associated Bond Issue | (thousands) | Rate | (Range) | Received | Date | Date | of 6/30/2018 | Counterparty |
| General Obligation Bonds: | | | | | | | | Morgan Stanley |
| Series 2001B & C Refunding | 280,510 | VRDB | 4.150% | Cost of Funds | 2/20/2001 | 1/1/2021 | (7,809,734) | Capital Services |
| Series 2015B, 2015C, 2017A & 2017B (refunding) | 433,855 | SIFMA | 3.769%- 4.004% | SIFMA | 3/15/2005 | 2/1/2028 | (33,687,774) | Wells Fargo Bank |
| Series 2006C (refunding) | 99,510 | СРІ | 3.78%- 3.85% | CPI-based formula | 1/1/2007 | 11/1/2020 | (1,272,248) | Wells Fargo Bank |
| Series 2007A (refunding) | 31,665 | LIBOR | 3.936% | 67% 3-Month LIBOR + 0.46% | 10/8/2008 | 11/1/2020 | (974,615) | Wells Fargo Bank |
| Series 2007A (refunding) | 414,130 | LIBOR | 3.936%- 4.083% | 67% 3-Month LIBOR + 0.46-0.55% | 10/8/2008 | 11/1/2025 | (26,238,166) | Bank of NY Mellon |
| Series 2006B, Series 2016C | <u>\$281,605</u> | VRDB | 4.515% | 67% 3-Month LIBOR | 4/2/2009 | 6/15/2033 | (50,657,401) | Barclays Bank PLC |
| Subtotal | <u>\$1,541,275</u> | | | | | | (\$120,639,938) | |
| Special Obligation Dedicated Tax Revenue Bonds | | | | | | | | |
| Series 2005A (Gas Tax) | <u>54,025</u> | CPI | 4.937%- 5.059% | CPI-based formula | 1/12/2005 | 6/1/2022 | (1,828,415) | Merrill Lynch Capital Services |
| <u>Subtotal</u> | <u>\$54,025</u> | | | | | | (\$1,828,415) | |
| <u>Total</u> | <u>\$1,595,300</u> | | | | | | (\$122,468,353) | |

SOURCE: Office of the Treasurer and Receiver General.

Liquidity Facilities

Some of the Commonwealth's outstanding variable rate debt consists of variable rate demand bonds whose interest rates re-set daily or weekly through a remarketing process. Because these bonds offer a "put" or tender feature, they are supported by standby bond purchase agreements with commercial banks which require the applicable bank to purchase any bonds that are tendered and not successfully remarketed. The following table describes the liquidity facilities that the Commonwealth had with respect to such bonds as of October 31, 2018.

| Variable Rate <u>Bonds</u> | Outstanding Principal Amount (in thousands) | <u>Bank</u> | Termination Date |
|-------------------------------|---|---------------|------------------|
| 2000 Series A | \$200,000 | Citibank | 10/12/2021 |
| 2000 Series B | 75,590 | TD Bank | 4/19/2023 |
| 2001 Series C (Refunding) | 140,255 | Barclays Bank | 1/01/2021 |
| 2006 Series A | 123,365 | Barclays Bank | 8/03/2020 |

SOURCE: Office of the Treasurer and Receiver General.

The Commonwealth also has liquidity support for three series of commercial paper totaling \$400 million.

| Commercial Paper Series | Principal Amount (in thousands) | <u>Bank</u> | Termination Date |
|--|---------------------------------|------------------------------|------------------------|
| Series I (tax-exempt) and Series K (taxable) (1) Series L (tax-exempt) | \$200,000 200,000 | TD Bank State Street Bank | 4/18/2023 1/29/2019 |
| Series L (tax-exempt) | 200,000 | State Street Dank | 1/29/2019 |

SOURCE: Office of the Treasurer and Receiver General.

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Direct Purchase Agreements

Certain of the Commonwealth's variable rate bonds have been directly purchased by a bank. The following table lists the Commonwealth's direct purchase agreements, as of October 31, 2018.

| | Outstanding Principal Amount | |
|-------------------------------|---------------------------------|------------------------------|
| Direct Purchase Bonds | (in thousands) | Mandatory Tender Date |
| 2001 Series B (Refunding) (1) | \$140,255 | 1/01/2021 |
| 2006 Series B | 164,700 | 5/31/2019 |
| 2015 Series C (Refunding) (1) | 125,000 | 2/01/2019 |
| 2016 Series B | 100,000 | 4/01/2021 |
| 2016 Series C | 200,000 | 4/01/2021 |
| 2018 Series A (Refunding) (1) | 120,365 | 2/01/2021 |

SOURCE: Office of the Treasurer and Receiver General.

⁽¹⁾ One or both series may be outstanding as long as the total amount outstanding does not exceed \$200 million.

⁽¹⁾ Dates provided represent hard maturities rather than mandatory tenders.

General Obligation Contract Assistance Liabilities

Massachusetts Department of Transportation, as successor to the Massachusetts Turnpike Authority. On February 19, 1999, the Commonwealth and the Massachusetts Turnpike Authority entered into a contract which provides for the Commonwealth to make annual operating assistance payments to MassDOT, as successor to the Turnpike Authority, which are capped at \$25 million annually and extend until June 30, 2050, which is the end of the 40th fiscal year following the transfer of certain facilities associated with the Commonwealth's Central Artery/Ted Williams Tunnel Project (CA/T) to MassDOT. On June 30, 2009, the Commonwealth and the Turnpike Authority entered into a contract for financial assistance which provides for the payment by the Commonwealth to MassDOT, as successor to the Turnpike Authority, of \$100 million per fiscal year, commencing July 1, 2009 until June 30, 2039. Payments under both contracts constitute a general obligation pledge of the Commonwealth for which the full faith and credit of the Commonwealth are pledged.

Massachusetts Clean Water Trust. The Massachusetts Clean Water Trust (the Trust) manages the Commonwealth's state revolving fund program under the federal Clean Water Act and the federal Safe Drinking Water Act. The Trust is authorized to apply for and accept federal grants and associated Commonwealth matching grants to capitalize the revolving funds and to issue debt obligations to make loans to local governmental units and others to finance eligible water pollution abatement and drinking water projects. Under state law, loans made by the Trust are required to provide for subsidies or other financial assistance to reduce the debt service expense on the loans. Currently, most new loans made by the Trust bear interest at 2%. Other loans made by the Trust may bear interest at lower rates, including a zero rate of interest, and a portion of the principal of certain loans has also been subsidized by the Trust. To provide for a portion of the subsidy on most of its loans, the Trust receives contract assistance payments from the Commonwealth. Under the Trust's enabling act, the aggregate annual contract assistance payment for the Trust's programs may not exceed \$138 million. The Commonwealth's agreement to provide contract assistance constitutes a general obligation of the Commonwealth for which its full faith and credit are pledged, and the Commonwealth's contract assistance payments are pledged as security for repayment of the Trust's debt obligations. As of October 31, 2018, the Trust had approximately \$2.6 billion of bonds outstanding. Approximately 6.57% of the Trust's aggregate debt service is covered by Commonwealth contract assistance. Prior to August, 2014, the Trust was known as the Massachusetts Water Pollution Abatement Trust.

Massachusetts Development Finance Agency. Under the infrastructure investment incentive program, known as "I-Cubed," up to \$600 million of public infrastructure improvements to support significant new private developments may be financed by bonds issued by the Massachusetts Development Finance Agency (MassDevelopment) that are secured by and payable from a general obligation pledge of contract assistance from the Commonwealth. Until a related new private development is completed and occupied, the developer's property is assessed by the municipality in which the development is located in amounts equal to the debt service cost on the bonds to reimburse the Commonwealth for such cost. After each phase of the private development is completed and occupied, the municipality is required to reimburse the Commonwealth for any portion of the debt service cost on the bonds that is not covered by new state tax revenues generated from the related private development. The municipality's reimbursement obligation is secured by a general obligation pledge of the municipality, a local aid intercept and a reserve fund which must be funded in an amount equal to or greater than two years of debt service on the bonds. The obligation of the municipality ends when the Commonwealth has collected revenues sufficient to pay principal and interest payments to date, or in some cases to the next redemption date, plus all remaining principal payments due. Pursuant to this program, MassDevelopment has issued contract assistance bonds to finance and refinance infrastructure projects associated with the Fan Pier development in Boston, the Assembly Row project in Somerville, the Chestnut Hill Square project in Newton, the Boston Landing project in Boston, the Van Ness project in Boston, the University Station project in Westwood, and the North Point project in Cambridge. As of October 31, 2018, total "I-Cubed" program bonds were outstanding in the amount of approximately \$128.2 million.

Legislation approved by the Governor on August 8, 2008 included an authorization to finance up to \$43 million of the costs of a parkway at the former South Weymouth naval air base to support the development of the former base. Similar to the I-Cubed program financing model, the bonds issued by MassDevelopment to finance the parkway are secured by and payable from a general obligation pledge of contract assistance from the Commonwealth. As of October 31, 2018, approximately \$24.0 million of such bonds were outstanding.

Social Innovation Financing Trust Fund. Legislation approved in 2012 established a Social Innovation Financing Trust Fund for the purpose of funding contracts to improve outcomes and lower costs for contracted government services, referred to as "pay for success contracts." The legislation authorized the Secretary of Administration and Finance to enter into pay for success contracts in which a substantial portion of Commonwealth payments, from amounts appropriated by the Legislature to the Trust Fund, would be conditioned on the achievement of specified performance outcomes. The Commonwealth's obligation to make such payments is a general obligation for which the Commonwealth's full faith and credit are pledged. The first such contract was entered into in January, 2014, to help young men leaving the juvenile justice system or on probation avoid reoffending. The contract obligates the Commonwealth to make up to \$28 million in success payments, in the aggregate, through fiscal 2020. In September, 2016, the Commonwealth entered into a side letter to permit the parties to negotiate a contract amendment to extend the period in which young men may be referred to the project without changing the timing or maximum amount of success payments. The Commonwealth entered into a second such contract in December, 2014, to address chronic individual homelessness through permanent stable, supportive housing. The contract obligates the Commonwealth to make up to \$6 million in success payments, in the aggregate, through fiscal 2021. The Commonwealth entered into a third such contract in June, 2016, to assist individuals in Adult Basic Education (ABE) or English for Speakers of Other Languages (ESOL) programs transition to employment, higher wage jobs, and higher education. The contract obligates the Commonwealth to make up to \$15 million in success payments, in the aggregate, through fiscal 2023.

The following table sets forth the Commonwealth's general obligation contract assistance requirements for all of fiscal 2018 and each fiscal year thereafter pursuant to contracts with the Massachusetts Clean Water Trust, MassDOT (as successor to the Turnpike Authority), and MassDevelopment (including the I-Cubed Program and the South Weymouth naval air base contract assistance requirements) and contracts associated with the Social Innovation Financing Trust Fund.

General Obligation Contract Assistance Requirements (in thousands)

| | Massachusetts Clean | Massachusetts Department of | Massachusetts Development | Social Innovation Financing | |
|-------------------|------------------------|--------------------------------|------------------------------|--------------------------------|--------------------|
| Fiscal Year | Water Trust | Transportation | Finance Agency | Trust Fund (3) | <u>Total</u> |
| 2019 | \$63,384 | \$125,000 | \$9,838 | \$9,100 | \$207,322 |
| 2020 | 43,374 | 125,000 | 9,838 | 24,200 | 202,412 |
| 2021 | 36,079 | 125,000 | 9,844 | 4,435 | 175,358 |
| 2022 | 26,584 | 125,000 | 9,843 | 400 | 161,827 |
| 2023 | 26,660 | 125,000 | 9,838 | 50 | 161,548 |
| 2024 | 18,301 | 125,000 | 9,837 | - | 153,138 |
| 2025 | 14,038 | 125,000 | 9,845 | - | 148,883 |
| 2026 | 11,573 | 125,000 | 9,840 | - | 146,413 |
| 2027 through 2050 | <u>66,643</u> (1) | <u>1,900,000</u> (2) | 178,342 | = | 2,144,985 |
| Total (4) | <u>\$306,636</u> | <u>\$2,900,000</u> | <u>\$257,065</u> | <u>\$38,185</u> | <u>\$3,501,886</u> |

SOURCES: Massachusetts Clean Water Trust column – Office of the Treasurer and Receiver-General; MassDOT, Massachusetts Development Finance Agency and Social Innovation Financing Trust Fund columns - Executive Office for Administration and Finance.

- (1) Current contract assistance payments end in fiscal 2049.
- (2) Represents \$25 million per year for fiscal years 2027 to 2050, inclusive, and \$100 million per year for fiscal years 2027 to 2039, inclusive.
- (3) Projected payment schedule. The actual amount and timing of payments will be based on the achievement of specified performance outcomes.
- (4) Totals may not add due to rounding.

Long-Term Operating Leases and Capital Leases

In addition to Commonwealth-owned buildings and facilities, the Commonwealth leases additional space from private parties. In certain circumstances, the Commonwealth has acquired certain types of capital assets under long-term capital leases; typically, these arrangements relate to computer and telecommunications equipment and to motor vehicles. Minimum future rental expenditure commitments of the Commonwealth under operating leases and long-term principal and interest obligations related to leases in effect as of June 30, 2018 are set forth in the table below.

Long-Term Leases (in thousands)

| Fiscal Year | Leases (1) |
|-------------------|------------------|
| 2019 | \$146,537 |
| 2020 | 113,370 |
| 2021 | 79,506 |
| 2022 | 59,877 |
| 2023 | 47,916 |
| 2024 | 42,146 |
| 2025 | 31,305 |
| 2026 | 21,266 |
| 2027 | 15,421 |
| 2028 through 2051 | <u>197,124</u> |
| Total | <u>\$754,468</u> |

SOURCES: Office of the Comptroller

Contingent Liabilities

Massachusetts Bay Transportation Authority. The MBTA issues its own bonds and notes. Prior to July 1, 2000, the Commonwealth supported MBTA bonds, notes and other obligations through guaranties of the debt service on its bonds and notes, contract assistance generally equal to 90% of the debt service on outstanding MBTA bonds and payment of the MBTA's net cost of service (current expenses, including debt service, minus current income). Beginning July 1, 2000, the Commonwealth's annual obligation to support the MBTA for operating costs and debt service is limited to a portion of the revenues raised by the Commonwealth's sales tax, but the Commonwealth remains contingently liable for the payment of MBTA bonds and notes issued prior to July 1, 2000 and for MBTA payment obligations related to leases, reimbursement obligations, interest exchange agreements and other financing obligations entered into prior to July 1, 2000. The Commonwealth's obligation to pay such prior bonds is a general obligation for which its full faith and credit have been pledged. As of October 31, 2018, the MBTA had approximately \$179.5 million of such prior bonds outstanding. Such bonds are currently scheduled to mature annually through fiscal 2030.

MassDevelopment is authorized to issue bonds for the benefit of nonprofit community hospitals and nonprofit community health centers. Such bonds are to be secured by capital reserve funds funded at the time of bond issuance in an amount equal to the maximum annual debt service on the bonds. The legislation provides that MassDevelopment is to notify the Governor if any such capital reserve fund needs to be replenished, and that the Legislature is to appropriate the amount necessary to restore the fund to its required level. The legislation contains no limit on the amount of such bonds that may be issued. Any project to be financed by such bonds must be approved by the Secretary of Health and Human Services, and any loan to a community hospital or community health center (and the issuance and terms of the related bonds) must be approved by the Secretary of Administration and Finance. If any such institution defaults on a loan, any moneys in the custody of the Commonwealth that are payable to the institution may be withheld by the Commonwealth and used to pay debt service or to replenish the applicable capital reserve fund. If, following a Commonwealth transfer to replenish a capital reserve fund, the applicable institution fails to reimburse the Commonwealth within six months, the Commonwealth may withhold funds payable to the institution, and all contracts issued by the Group Insurance Commission, the Commonwealth Health Insurance Connector Authority and MassHealth to a third party for the purposes of providing health care

⁽¹⁾ Includes operating and capital leases. Leases with the institutions of higher education that are supported by tuition and fees are not included

insurance paid for by the Commonwealth are to provide that the third party is to withhold payments to the institution and transfer the withheld amounts to the Commonwealth. No bonds have ever been issued pursuant to this legislation.

Woods Hole, Martha's Vineyard and Nantucket Steamship Authority. The Steamship Authority operates passenger and vehicle ferries to Martha's Vineyard and Nantucket. The Steamship Authority issues its own bonds and notes. Commonwealth support of the bonds and notes of the Steamship Authority includes a Commonwealth guaranty pursuant to statutory provisions requiring the Commonwealth to provide the Steamship Authority with funds sufficient to meet the principal of and interest on their bonds and notes as they mature to the extent that funds sufficient for this purpose are not otherwise available to the Steamship Authority and the Commonwealth's payment, under applicable statutory provisions, of the net cost of service of the Steamship Authority (current expenses, including debt service, minus current income). The Steamship Authority is currently self-supporting, requiring no net cost of service or contract assistance payments. As of October 31, 2018, the Steamship Authority had approximately \$64.7 million of bonds outstanding. The Commonwealth's obligations to the Steamship Authority are general obligations for which its full faith and credit have been pledged.

University of Massachusetts Building Authority. This authority, created to assist the University of Massachusetts, is permitted by its enabling act to have outstanding up to \$200 million in Commonwealth-guaranteed debt. The Commonwealth's guaranty of principal and interest is a general obligation of the Commonwealth for which its full faith and credit are pledged. In addition to such guaranty, certain revenues of the Building Authority, including dormitory rental income and student fees, are pledged to pay the Building Authority's bonds. As of October 31, 2018, the Building Authority had approximately \$113.2 million of Commonwealth-guaranteed debt outstanding.

Authorized and Unissued Debt

General obligation bonds of the Commonwealth are authorized to correspond with capital appropriations. See "COMMONWEALTH BUDGET AND FINANCIAL MANAGEMENT CONTROLS – Capital Investment Process and Controls." Over the last decade, the Commonwealth has typically had a large amount of authorized and unissued debt. However, the Commonwealth's actual expenditures for capital projects in a given year relate more to the capital needs which the Commonwealth determines it can afford to finance in such year than to the total amount of authorized and unissued debt. The table below presents authorized and unissued debt at year end:

Authorized and Unissued Debt (in thousands)

| Fiscal Year | Authorized and Unissued Debt |
|-------------|---------------------------------|
| 2014 | \$26,255,768 |
| 2015 | 29,071,339 |
| 2016 | 26,145,997 |
| 2017 | 22,716,302 |
| 2018 | 20,860,482 (1) |
| | |

SOURCE: Office of the Comptroller.

(1) Amount is unaudited.

Authorized and unissued debt is measured in accordance with the statutory basis of accounting, which is different from GAAP. Only the net proceeds of bonds issued (exclusive of underwriters' discount, costs of issuance and other financing costs) are deducted from the amount of authorized and unissued debt. Therefore, the change in authorized and unissued debt at the end of any fiscal year is not intended to correlate to the change in the principal amount of debt outstanding as measured and reported in conformity with GAAP.

The Legislature has enacted various bond authorizations to fund the Commonwealth's capital investment plan. See "COMMONWEALTH CAPITAL INVESTMENT PLAN." Capital spending and subsequent debt issuance is constrained by the debt affordability policy and the statutory debt limit, and will be published annually in the five-year capital investment plan.

LEGAL MATTERS

There are pending in state and federal courts within the Commonwealth and in the Supreme Court of the United States various suits in which the Commonwealth is a party. In the opinion of the Attorney General, no litigation is pending or, to her knowledge, threatened which is likely to result, either individually or in the aggregate, in final judgments against the Commonwealth that would affect materially its financial condition.

Programs and Services

From time to time actions are brought against the Commonwealth by the recipients of governmental services, particularly recipients of human services benefits, seeking expanded levels of services and benefits and by the providers of such services challenging the Commonwealth's reimbursement rates and methodologies. To the extent that such actions result in judgments requiring the Commonwealth to provide expanded services or benefits or pay increased rates, additional operating and capital expenditures might be needed to implement such judgments.

Rosie D., et al. v. The Governor, United States District Court, Massachusetts. In a memorandum of decision dated January 26, 2006, the District Court ruled in favor of a class of Medicaid-recipient children that the Commonwealth failed to provide to children with serious emotional disturbances the home- and community-based mental health services required under the Early and Periodic Screening, Diagnosis and Treatment ("EPSDT") provisions of the Medicaid Act. In February 2007, the District Court adopted the defendants' proposed remedial plan, with some modifications, and, in July 2007, entered judgment in accordance with that plan, as modified. The court's remedial order obliges MassHealth to take the following steps, largely at the Commonwealth's expense: (1) require pediatric providers to offer standardized behavioral health pediatric screenings; (2) require behavioral health specialists to utilize a standardized behavioral health assessment tool; (3) seek federal approval for certain new or enhanced behavioral health services; (4) implement the enhanced behavioral health services; and (5) develop information technology systems as needed to support data collection to evaluate compliance. The Commonwealth did not appeal from that judgment; instead, MassHealth has implemented all required program changes.

Although the monitoring period had been set to expire December 31, 2012, the court has subsequently extended the monitoring period several times, most recently through December 31, 2018. MassHealth estimates that its implementation of program changes in compliance with the court's remedial orders will continue to increase its costs, including administrative costs, prospectively by over \$20 million annually. The federal judge who presided over this case since its inception is retiring and the case is being transitioned to Judge Richard Stearns. At a hearing on September 27, 2018, the Court entertained motions from the parties regarding: the status of the Commonwealth's compliance with the judgment; the possible termination of court monitoring and reporting provisions; the legal significance, if any, of certain voluntary "disengagement criteria"; and the modification of the judgment to include monitoring of outpatient therapy. The parties await a decision on whether or when active federal court monitoring will cease and whether additional fiscally-significant obligations will be imposed on the Commonwealth.

Hutchinson et al v. Patrick et al, United States District Court, Massachusetts. This is a class action, commenced in 2007, brought by two organizations and five individuals with brain injuries who are residents of various nursing facilities. Plaintiffs claim that they and a class of between 2,000 and 4,000 brain-injured individuals are entitled to, among other things, placement in community settings. Plaintiffs asserted claims under the Americans with Disabilities Act, the Rehabilitation Act and the Medicaid Act; they sought declaratory and injunctive relief. After the court certified a class in October 2007, the parties engaged in an intensive period of settlement negotiations. In May, 2008, the parties entered into a settlement agreement which was subsequently amended in July, 2013 ("Agreement"). Under the terms of the Agreement, the defendants will use the Massachusetts Money Follows the Person Demonstration Project ("MFP Project") and various waiver programs to provide community residential and non-residential supports in an integrated setting to Massachusetts Medicaid-eligible persons with an acquired brain injury who are in nursing and long-term rehabilitation facilities ("Class Members in Facilities"). Over the six-year term of the Agreement, the defendants will add between 905 and 1,174 waiver slots for Class Members in Facilities. The exact number of slots to be added will depend on the level of demand for waiver services. The cost of implementing these programs was originally projected to be approximately \$386 million, phased in over six years, with approximately half of that amount expected to be reimbursed by the federal government. Year six of the Agreement began on July 1, 2018. The fiscal 2019 appropriation for funding of the Agreement is approximately \$100 million. In fiscal 2020, after the terms of the Agreement have been fully implemented, the estimated

annualized cost to maintain slots added under the Agreement will be approximately \$112 million (gross) or \$56 million (net) state cost.

Medicaid Audits and Regulatory Reviews

In re: Centers for Medicare and Medicaid Services regulations (Uncompensated Care Pool/Health Safety Net Trust Fund). The federal Health Care Financing Administration (now the Centers for Medicare and Medicaid Services (CMS)) asserted in June, 2000 that the portion of the Medicaid program funded by the Commonwealth's Health Safety Net Trust Fund (formerly the Uncompensated Care Pool) might violate federal regulations regarding permissible taxes on health care providers. Since 1993, MassHealth has sought federal waivers for the Commonwealth's assessment on acute care hospitals and surcharge payers, respectively, which fund the Uncompensated Care Pool and its successor, the Health Safety Net Trust Fund. The Commonwealth believes that the assessments are within the federal law pertaining to health care-related taxes. In 2017, a change in state law was made to the hospital assessment making a federal waiver for the hospital assessment unnecessary. Under federal regulations, if the Commonwealth were ultimately determined to have imposed an impermissible health care-related tax, the federal government could seek retroactive repayment of federal Medicaid reimbursements. By the end of Health Safety Net fiscal year 2018, the Commonwealth will have collected an estimated \$6.657 billion in acute hospital assessments since 1990 and an estimated \$3.022 billion in surcharge payments since 1998.

In re: Office of the Inspector General Report Number: A-01-12-0006 (claiming the correct Federal medical assistance percentage for claim adjustments made to the Form CMS-64). On April 6, 2012, the federal Office of the Inspector General (OIG) initiated an audit of MassHealth's federal reporting of certain claims with dates of service between January 1, 2006 and December 31, 2010. The OIG issued a draft report on June 3, 2014 concluding that during the audit period MassHealth over-claimed \$105 million in federal financial participation due to timing issues associated with the temporary Federal Medical Assistance Percentages increase due to ARRA and the "void and replace" claiming system used by the Commonwealth's Executive Office of Health and Human Services (EOHHS). EOHHS' response to the draft report stated that MassHealth worked closely with CMS to develop the system it used to submit claims and adjustments for federal matching funds on the CMS form since June 2009, and that CMS validated and accepted the "void and replace" claims adjustment system EOHHS used. The OIG's audit focused on a specific time period that, based on its calculations, resulted in a federal overpayment to the Commonwealth. Using the OIG's methodology, there would have been a \$108 million federal underpayment to the Commonwealth for the subsequent period of January, 2011 through September, 2013. Based on the OIG's audit report, MassHealth has implemented the OIG's interpretation of the claiming rules after the audit period, and has requested increased federal reimbursement totaling approximately \$108.2 million from CMS, which would have offset OIG's recommended adjustment. The OIG issued its final report in September, 2014, and did not accept EOHHS' position. EOHHS pursued the matter further with CMS, which ultimately accepted MassHealth's position and, after an offset, refunded \$3.2 million to the Commonwealth.

In re: Centers for Medicare and Medicaid Services: Disallowance Number MA/2018/001/MAP (1115(a) Demonstration Claiming Authority for Primary Care Payment Reform Initiative). On November 20, 2018, CMS issued to the Commonwealth a notice of disallowance in the amount of \$70.9 million in federal financial participation (FFP) for expenditures between March 31, 2014 and December 31, 2016 related to MassHealth's Primary Care Payment Reform Initiative (PCPRI). PCPRI was a payment model that bundled services payments to discourage billing based on fee for services, rewarded providers for achieving quality goals by providing certain quality incentive payments, and rewarded providers by sharing savings and losses with them. In its disallowance letter, CMS asserts that EOHHS lacked explicit authority under its 1115 Demonstration Project to make payments that deviated from those that were described (or could be approved) under the Medicaid State Plan because PCPRI was not mentioned by name in the 1115 Demonstration Project, because there was no specific expenditure authority to support these payments, and because CMS never approved the PCPRI contracts. EOHHS maintains that it has authority under the 1115 Demonstration Project to make enhanced primary care clinician payments consistent with the PCPRI program and that no additional authority was necessary to make the payments. EOHHS acknowledges that CMS never approved the PCPRI contracts, but contends that MassHealth sent CMS the contracts in March, 2014 and CMS failed to act on them, either by approving or denying them. EOHHS has 60 days to respond to the disallowance letter by requesting reconsideration or submitting an appeal to the federal Health and Human Services Department Appeals Board. EOHHS is pursuing this matter further with CMS.

Taxes

Comcast of Massachusetts I, Inc. v. Commissioner of Revenue, Mass. Appeals Court. On November 10, 2017, the Appellate Tax Board (the Board) issued a 209-page Findings of Fact and Report in favor of the Commissioner of Revenue (the Commissioner) in 10 consolidated corporate excise cases relative to the tax years 2002 through 2008. The Board had previously issued its Decision for the Commissioner on June 7, 2016. The taxpayers are Comcast of Massachusetts I and a number of its affiliates (the Taxpayers). The Taxpayers' claim arose principally from abatement applications filed by Comcast of Massachusetts I seeking a re-computation of the sales factor of various members of the combined group based on the cost of performance rule; the Taxpayers claimed unsuccessfully that certain revenues originally sourced to Massachusetts should have been sourced to Pennsylvania, where they claimed to have incurred their greatest costs of performance. The Board also ruled with respect to additional issues raised, that:

- The Taxpayers and certain other members of the Comcast of Massachusetts I group could not deduct so-called intercompany interest expense paid to other members of the Comcast group because the Taxpayers "failed to prove that the claimed interest expenses qualified as true indebtedness."
- The Taxpayers "failed to meet their burden of proof in establishing their rights to abatements based upon ... federal changes."
- Interest expenses related to dividend income that was allocable to Pennsylvania, were equally allocable to Pennsylvania, and not apportionable to Massachusetts.
- Reimbursement from affiliates at cost did not constitute sales for sales factor purposes.
- For the year 2004, although the Commissioner committed a processing error in treating \$764,786 due for non-income measure purposes as an overpayment of taxes which the Commissioner credited to subsequent tax periods, the tax represented a tax lawfully due and could not be abated.

The Board requested that the parties calculate and resolve any numerical consequences pertaining to respective concessions made at trial. Following this recalculation, the parties reached an agreement regarding the numerical consequences and, as a result, the Commissioner issued a refund in the amount of \$47,932,447. The parties filed with the Board a pleading setting forth the dollar value of each concession. With respect to claims not resolved via concessions, the Taxpayers filed a Notice of Appeal with the Board on January 8, 2018 and have docketed their appeal with the Appeals Court. Should the Taxpayers fully prevail, the current value of refunds they would claim is \$91.4 million. Comcast filed its brief on July 26, 2018, and the Commissioner filed his brief on October 26, 2018. Comcast will file a reply brief, after which the Appeals Court will schedule the case for oral argument, possibly in the spring of 2019.

Comcast Corporation & Subsidiaries v. Commissioner of Revenue, Appellate Tax Board. The taxpayers are appealing the Commissioner's refusal to abate corporate excise tax for the years 2009 through 2011. The sole issue in this case is the computation of the sales factor of various members of the combined group based on the costs of performance rule under G.L c. 63, section 38(f). The Commissioner filed his answer on June 2, 2017. Because this case presents the same legal issue as the other Comcast case summarized above, the parties requested that this case be stayed until resolution of the other Comcast case on appeal. On October 1, 2018, however, the taxpayers filed a new petition with the Board, appealing the Commissioner's refusal to abate corporate excise tax for the years 2012 through 2014. As in the previous petition, the sole issue is the computation of the sales factor of the various members of the combined group based on the cost of performance rule under G.L. c. 63, § 38(f). Should the taxpayers fully prevail, the current value of refunds they would claim is \$69.1 million.

Northeastern University, et al. v. Commissioner of Revenue (Supreme Judicial Court, Appeals Court, Suffolk Superior Court) and related Brownfields Credits Claims. The plaintiffs in a Superior Court case, three Massachusetts institutions of higher education, alleged that the Commissioner wrongfully denied their requests for Brownfields Tax Credits. Legislation in 2006 made not-for-profit institutions eligible, for the first time, to claim tax credits for work those institutions performed to remediate an environmentally contaminated site. (Because not-for-

profits do not typically pay corporate excise taxes, against which such a credit may be applied, the legislation also made it possible, for the first time, for taxpayers granted such a credit to "sell" that credit to individuals or corporations who do incur tax liability, so that the buyer can make use of the credit. The law specifies that any unused portion of a credit, as reduced from year to year, can be carried over and applied to a tax liability for any subsequent year, not to exceed five years.) The sole issue in the *Northeastern University* litigation, filed in August, 2014, was whether the nonprofit institutions of higher education may receive a Brownfields Tax Credit for site remediation achieved prior to the taxable year commencing on or after June 24, 2006 (*i.e.*, the effective date of the legislative amendment). The Commissioner denied the plaintiffs' applications for the credit because the site remediation had been achieved prior to the taxable year commencing on or after June 24, 2006. The plaintiffs prevailed in the Superior Court and, if all other application conditions are met, they will be entitled to tax credits in the cumulative amount of \$19 million. The Commonwealth appealed the adverse Superior Court judgment. On December 28, 2017, the Appeals Court, in an unpublished decision, affirmed the Superior Court's judgment. The Commonwealth filed an application for further appellate review with the Supreme Judicial Court (SJC), which the SJC denied on May 4, 2018. The Department is confirming that all other application criteria are met, and if so, will issue tax certificates.

In the category of Brownfields Credits claims not yet docketed at the Appellate Tax Board (subcategories of pending and unasserted claims), which principally raise legal issues distinct from the *Northeastern University* claims, the Department of Revenue estimates a total of \$113.4 million worth of potential revenue loss, with three of the individual credit amount claims exceeding \$10 million.

Other Revenues

Commonwealth of Massachusetts v. Philip Morris Inc., RJ Reynolds Tobacco Company, Lorillard Tobacco Company, et al., Supreme Judicial Court, Middlesex Superior Court (a/k/a the Tobacco Master Settlement Agreement, Nonparticipating Manufacturer ("NPM") Adjustment Disputes)

These matters arise under the Tobacco Master Settlement Agreement ("MSA"), entered into in 1998, that settled litigation and claims by Massachusetts and 51 other states or dependencies (collectively the "States") against the major tobacco manufacturers. Under the MSA, yearly payments made by the Original Participating Manufacturers ("OPMs") and Subsequent Participating Manufacturers (collectively the Participating Manufacturers or "PMs") are subject to a number of adjustments. One such adjustment is the Non-Participating Manufacturer ("NPM") Adjustment, which can be triggered if the PMs suffer a specified market share loss as compared to their market share during the base year 1997. Under the MSA, a nationally recognized economic firm selected jointly by the States and the PMs must make a determination that "the disadvantages experienced" by the PMs as a result of complying with the MSA were "a significant factor contributing to the Market Share Loss" for a given year. Even if such a determination is made, the States can still avoid the NPM adjustment if it is determined that the States "diligently enforced" their individual NPM Escrow Statutes.

- (a) (2004 NPM Adjustment) The PMs seek to reduce, by approximately \$1.1 billion, the MSA payments they made to the States for 2004 sales and so they deposited a portion of this amount into a disputed payment account pending a resolution of this claim. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs and the States are arbitrating the 2004 NPM Adjustment. In June, 2017, however, the PMs decided not to contest the Commonwealth's diligence in 2004. Accordingly, the Commonwealth no longer has any risk of loss concerning the 2004 NPM Adjustment.
- (b) (2005 NPM Adjustment) In the same manner as described above, the PMs seek to reduce, by approximately \$753 million, the MSA payments they made to the States for 2005 sales. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2005 following the conclusion of the 2003 NPM Adjustment Arbitration proceedings. If the Commonwealth does not prevail, future MSA payments to Massachusetts would be reduced by an amount yet to be determined, between \$30 million, plus interest, up to but not exceeding the full amount of the state's MSA payment for 2005 sales, depending upon the outcome of similar NPM proceedings against other states.

- (c) (2006 NPM Adjustment) In the same manner as described above, the PMs seek to reduce, by approximately \$704 million, the MSA payments they made to the States for 2006 sales. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2006 following the conclusion of the 2003 NPM Adjustment Arbitration proceedings. If the Commonwealth does not prevail, future MSA payments to Massachusetts would be reduced by an amount yet to be determined, between \$7 million, plus interest, up to but not exceeding the full amount of the state's MSA payment for 2006 sales, depending upon the outcome of similar NPM proceedings against other states.
- (d) (2007 NPM Adjustment) In the same manner as described above, the PMs seek to reduce, by approximately \$791 million, the MSA payments they made to the States for 2007 sales. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2007 following the conclusion of the 2003 NPM Adjustment Arbitration proceedings. If the Commonwealth does not prevail, future MSA payments to Massachusetts would be reduced by an amount yet to be determined, between \$8.8 million, plus interest, up to but not exceeding the full amount of the state's MSA payment for 2007 sales, depending upon the outcome of similar NPM proceedings against other states.
- (e) (2008 NPM Adjustment) In the same manner as described above, the PMs seek to reduce, by approximately \$888 million, the MSA payments they made to the States for 2008 sales. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2008 following the conclusion of the 2003 NPM Adjustment Arbitration proceedings. If the Commonwealth does not prevail, future MSA payments to Massachusetts would be reduced by an amount yet to be determined, between \$900,000, plus interest, up to but not exceeding the full amount of the state's MSA payment for 2008 sales, depending upon the outcome of similar NPM proceedings against other states.
- (f) (2009 NPM Adjustment) In the same manner as described above, the PMs seek to reduce, by approximately \$859 million, the MSA payments they made to the States for 2009 sales. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs have not yet notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2009. If the matter is arbitrated and the Commonwealth does not prevail, future MSA payments to Massachusetts would be reduced by an amount yet to be determined, between \$1.3 million, plus interest, up to but not exceeding the full amount of the state's MSA payment for 2009 sales, depending upon the outcome of similar NPM proceedings against other states.
- (g) (2010 NPM Adjustment) In the same manner as described above, the PMs seek to reduce, by approximately \$873 million, the MSA payments they made to the States for 2010 sales. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs have not yet notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2010. If the matter is arbitrated and the Commonwealth does not prevail, future MSA payments to Massachusetts would be reduced by an amount yet to be determined, between \$500,000, plus interest, up to but not exceeding the full amount of the state's MSA payment for 2010 sales, depending upon the outcome of similar NPM proceedings against other states.
- (h) (2011 NPM Adjustment) In the same manner as described above, the PMs seek to reduce, by approximately \$728 million, the MSA payments they made to the States for 2011 sales. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs have not yet notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow

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Statute during 2011. If the matter is arbitrated and the Commonwealth does not prevail, future MSA payments to Massachusetts would be reduced by an amount yet to be determined, between \$500,000, plus interest, up to but not exceeding the full amount of the state's MSA payment for 2011 sales, depending upon the outcome of similar NPM proceedings against other states.

- (i) (2012 NPM Adjustment) In the same manner as described above, the PMs seek to reduce by approximately \$797 million, the MSA payments they made to the States for 2012 sales. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs have not yet notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2012. If the matter is arbitrated and the Commonwealth does not prevail, future MSA payments to Massachusetts would be reduced by an amount yet to be determined, between \$300,000, plus interest, up to but not exceeding the full amount of the state's MSA payment for 2012 sales, depending upon the outcome of similar NPM proceedings against other states.
- (j) (2013 NPM Adjustment) In the same manner as described above, the PMs seek to reduce by approximately \$823 million, the MSA payments they made to the States for 2013 sales. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs have not yet notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2013. If the matter is arbitrated and the Commonwealth does not prevail, future MSA payments to Massachusetts would be reduced by an amount yet to be determined, between \$500,000, plus interest, up to but not exceeding the full amount of the state's MSA payment for 2013 sales, depending upon the outcome of similar NPM proceedings against other states.
- (k) (2014 NPM Adjustment) In the same manner as described above, the PMs seek to reduce by approximately \$838 million, the MSA payments they made to the States for 2014 sales. This amount is subject to revision until a Final Calculation in March, 2019. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs have not yet notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2014. The largest PMs have not yet had an opportunity to designate funds related to 2014 sales as disputed and place the funds in escrow. Until they have had such an opportunity and Final Calculations are received in March, 2019, the Commonwealth's potential exposure (for loss of anticipated revenue) cannot be determined.
- (l) (2015 NPM Adjustment) In the same manner as described above, the PMs seek to reduce by approximately \$910 million, the MSA payments they made to the States for 2015 sales. This amount is subject to revision until a Final Calculation in March, 2020. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs have not yet notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2015. The largest PMs have not yet had an opportunity to designate funds related to 2015 sales as disputed and place the funds in escrow. Until they have had such an opportunity and Final Calculations are received in March, 2020, the Commonwealth's potential exposure cannot be determined.
- (m) (2016 NPM Adjustment) In the same manner as described above, the PMs seek to reduce by approximately \$900 million, the MSA payments they made to the States for 2016 sales. This amount is subject to revision until a Final Calculation in March, 2021. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs have not yet notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2015. The largest PMs have not yet had an opportunity to designate funds related to 2016 sales as disputed and place the funds in escrow. Until they have had such an opportunity and Final Calculations are received in March, 2021, the Commonwealth's potential exposure cannot be determined.

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(n) (2017 NPM Adjustment) In the same manner as described above, the PMs seek to reduce by approximately \$896 million, the MSA payments they made to the States for 2017 sales. This amount is subject to revision until a Final Calculation in March 2022. A determination has been made that the PMs suffered a market share loss and that the disadvantages experienced by the PMs as a result of complying with the MSA were a significant factor contributing to the market share loss. The PMs have not yet notified the States of their intent to arbitrate the issue of whether each state diligently enforced its NPM Escrow Statute during 2017. The largest PMs have not yet had an opportunity to designate funds related to 2017 sales as disputed and place the funds in escrow. Until they have had such an opportunity and Final Calculations are received in March 2022, the Commonwealth's potential exposure cannot be determined.

Environment

In re Massachusetts Military Reservation (pre-litigation). The Commonwealth, through the Executive Office of Energy and Environmental Affairs, the Department of Environmental Protection and the Attorney General's office, were engaged in discussions with federal Natural Resource Trustees, including the United States Army and Air Force, the Department of the Interior and the National Oceanic and Atmospheric Administration, and private contractors regarding natural resource damages at the Massachusetts Military Reservation on Cape Cod. Federal Trustees and private contractors claim that the Commonwealth and others are liable for natural resource damages due to widespread contamination primarily from past military activities at the Reservation and are responsible for response actions and related clean-up activities. The assessment process for natural resource damages is set out in federal regulations and has not been completed. While no recent comprehensive estimate of natural resource damages and response actions is available, it is expected that the damages and response actions may cost at least tens of millions of dollars. In 2013, the state and federal trustees reopened preliminary discussions per a Trustee Council resolution on a potential settlement framework.

Other

McHugh et al v. Commonwealth et al., Suffolk Superior Court. Four Massachusetts Department of Environmental Protection ("DEP") contract employees have filed a purported class action suit against the Commonwealth, DEP, and the Commissioner of DEP, Martin Suuberg. The suit alleges that Commonwealth entities (including but not limited to DEP) are hiring and employing contract employees as long-term replacements for full-time state employees and not providing them employment benefits. Plaintiffs purport to bring suit on behalf of approximately 3,330 to 7,600 similarly situated individuals who are or have been employed by the Commonwealth or DEP for a period of three or more years. Plaintiffs assert claims under the United States and Massachusetts Constitutions, a variety of Massachusetts statutes, and the common law. Plaintiffs seek monetary damages as well as declaratory and injunctive relief. Defendants moved to dismiss all claims brought against them. Subsequently, plaintiffs filed an opposition to the motion to dismiss and a cross-motion to amend the complaint. The Court allowed the cross-motion to amend and took no action on the motion to dismiss, canceling a February 2018 hearing. On April 11, 2018, plaintiffs filed an amended complaint which asserts claim similar to those contained in the original action, and substitutes Michael J. Heffernan, Secretary of the Executive Office for Administration and Finance, as a defendant in place of Commissioner Suuberg. Defendants filed a motion to dismiss the amended complaint on June 25, 2018. The parties argued the motion to dismiss on October 2, 2018.

Drug Testing Laboratory Disputes. In 2012 and 2013, charges were brought against two chemists, working in two separate Commonwealth drug testing laboratories, alleging malfeasance by such chemists in the handling and testing of laboratory samples and/or the adulteration or theft of seized drugs used as evidence in criminal cases. As a result of the subsequent convictions of these two chemists, and following judicial review, more than 21,000 criminal cases potentially affected by altered drug evidence from one of the laboratories were vacated or dismissed, with only a few hundred potentially affected criminal cases remaining open for re-prosecution. Pursuant to a court order, indigent defendants in the cases that remain who wish to pursue vacatur or a new trial will be assigned counsel, at state expense. The number of criminal cases potentially affected by altered drug evidence from the second laboratory has not yet been established, but is expected to exceed 10,000. To date, more than 8,000 convictions have been identified for dismissal. In actions relating to the second laboratory, a court found that, in addition to the chemist's malfeasance, two former prosecutors "tampered with the fair administration of justice" and perpetrated "a fraud upon the court" by deliberately concealing documents relevant to the chemist's actions, with implications for many more drug tests conducted by this second testing laboratory. Notwithstanding the court also finding that with

the exception of the identified chemist's work, the second laboratory was "free from any deficiency in analytical procedure, was kept in an orderly fashion, and that work flowed through the lab smoothly," the Supreme Judicial Court recently expanded the Commonwealth's potential liability, ordering, in relevant part, that all convictions based on evidence tested at the second laboratory on or after January 1, 2009 must be vacated and dismissed, regardless of the chemist who signed the drug certificate, as well as all methamphetamine convictions where the drugs were tested at the second laboratory during the convicted chemist's tenure. *See Committee for Public Counsel Services, et al. v. Attorney General of Massachusetts, et al.*, SJC-12471 (Oct. 11, 2018).

There are a number of ongoing civil actions, in both state and federal court, relating to the rights of those criminal defendants potentially affected by the malfeasance of the two chemists and the prosecutorial misconduct described above, and more are expected. See, e.g., Penate v. Kaczmarek et al., United States District Court, Massachusetts, in which the plaintiff alleges civil rights violations under 42 U.S.C. § 1983 and seeks approximately \$5.7 million in compensatory and punitive damages, interest, costs, and attorneys' fees. The potential claims of other criminal defendants against the Commonwealth and other officials are likely to range from: restitution for the fees and costs imposed on and incurred by the criminal defendants, including for uncompensated labor; erroneous conviction; negligence of the Commonwealth in supervising the laboratories and their employees; and potential civil rights violations under federal law. To date, plaintiffs have sought, and may in the future seek, compensatory as well as punitive damages, interest, costs and attorneys' fees. In addition, in Nelson v. Colorado, 137 S. Ct. 1239 (2017), the United States Supreme Court declared that when a criminal conviction is invalidated by a reviewing court and no retrial will occur, a state is obliged to refund fees, court costs, and any restitution exacted from a defendant upon, and as a consequence of, the conviction. Based on this Supreme Court decision, a purported class action has been filed on behalf of the criminal defendants whose convictions were vacated as the result of the potentially tainted drug tests in the two laboratories, seeking "refund of all Case-Related Payments, payment for all Uncompensated Labor, and return of all Forfeited Property." Foster, et al. v. Commonwealth, et al., United States District Court, Massachusetts. Additionally, in two similar state court cases, the Supreme Judicial Court, following the Nelson holding, ruled that defendants have due process rights to the refund of fees, fines and restitution paid by a defendant as a consequence of a later invalidated conviction when it is determined that the case will not or cannot be retried. See Commonwealth v. Martinez, SJC-12479; see also Commonwealth v. Green, SJC-12480.

Given the tens of thousands of criminal cases potentially affected by the two laboratories, there likely will be continuing significant, but as yet undetermined, costs to the Commonwealth in remedying the alleged malfeasance, including: vendor costs for information gathering and administration of exaction refunds; costs to investigate and defend the civil complaints alleging state liability in both state and federal courts, as described above; and the costs of settlements and judgments arising from the potential civil actions described above. Net appropriations (minus cuts and reversions) from fiscal 2013 to the present to rectify the consequences of the drug testing lab-related misconduct total approximately \$23.4 million, including a \$1.9 million appropriation for fiscal 2019. Based on the court decisions to date and depending on the outcomes of the additional cases filed to date and cases that may be filed in the future, the Commonwealth could be required to budget for millions of dollars' worth of refundable exactions, settlements, and administrative expenses.

CONTINUING DISCLOSURE

The Commonwealth prepares its Statutory Basis Financial Report and its Comprehensive Annual Financial Report with respect to each fiscal year ending June 30. The Statutory Basis Financial Report usually becomes available on or around October 31 of the following fiscal year and the Comprehensive Annual Financial Report becomes available in January of the following fiscal year. Copies of such reports and other financial reports of the Comptroller referenced in this document may be obtained by requesting the same in writing from the Office of the Comptroller, One Ashburton Place, 9th Floor, Boston, Massachusetts 02108. The financial statements are also available at the Comptroller's web site located at http://www.macomptroller.org by clicking on "Financial Reports" on the Comptroller's homepage.

The Department of the State Auditor audits all agencies, departments and authorities of the Commonwealth at least every three years. Copies of audit reports may be obtained from the State Auditor, State House, Room 229, Boston, Massachusetts 02133.

On behalf of the Commonwealth, the State Treasurer will provide to the MSRB, through EMMA, no later than 270 days after the end of each fiscal year of the Commonwealth, certain financial information and operating data relating to such fiscal year, as provided in Rule 15c2-12, as amended, adopted by the Securities and Exchange Commission under the Securities Exchange Act of 1934, together with audited financial statements of the Commonwealth for such fiscal year. Except as noted below, the Commonwealth has not failed in the last five years to comply with its continuing disclosure undertakings with respect to any of its debt.

The Commonwealth failed to file an event notice in October, 2013 when the Moody's rating on outstanding junior-lien GANs was upgraded from Aa2 to Aa1. The Commonwealth also failed to file event notices in March, 2014 when the Standard & Poor's rating on certain insured special obligation bonds payable from the Convention Center Fund was upgraded from A to AA-, in June 2017 when such rating was lowered to A, and in December, 2017 when the insurer asked that the rating be withdrawn. The Commonwealth has filed notices of all such rating changes with respect to the bonds that are currently outstanding.

The fiscal 2013 annual financial information filed by the Commonwealth pursuant to its continuing disclosure undertakings related to its grant anticipation note program contained incorrect information concerning the amounts of CTF pledged funds. An amended filing has been posted with EMMA.

The fiscal 2014 annual financial information was filed by the Commonwealth on March 27, 2015 pursuant to its continuing disclosure undertakings with respect to its general obligation bonds; however, there was a failure to link the filing to certain CUSIP numbers for Commonwealth general obligation bonds issued from October 29, 2014 through December 31, 2014. In addition, certain annual financial information was not properly linked to certain Commonwealth contract assistance bonds and certain CTF Bonds. Corrective filings have since been posted on EMMA.

In the course of substituting liquidity facilities in connection with certain Commonwealth general obligation variable rate demand bonds, supplements to the respective official statements for such bonds were posted in a timely manner to EMMA setting forth detailed information regarding the substituted liquidity facilities; however, separate event notices were not posted at the time. Event notices of the liquidity substitutions have since been posted.

In the course of reviewing its event notice filings, the Commonwealth discovered that bond call notices were not posted in a timely manner to EMMA in connection with certain advance refunding transactions and that a notice of defeasance was not timely posted to EMMA until approximately three and a half months after the defeasance occurred. The Commonwealth has posted such notices with respect to all Commonwealth bonds that have been advance refunded, where the funds to redeem or pay the bonds remain held in escrow.

The State Treasurer also regularly files information with EMMA beyond the documents required by the Commonwealth's continuing disclosure undertakings, including updated Information Statements. In addition, information of interest to investors may be posted on the Commonwealth's investor website at www.massbondholder.com, on twitter at twitter.com/BuyMassBonds and on the Commonwealth's "Mass. Investor Disclosure" mobile app.

MISCELLANEOUS

Any provisions of the constitution of the Commonwealth, of general and special laws and of other documents set forth or referred to in this Information Statement are only summarized, and such summaries do not purport to be complete statements of any of such provisions. Only the actual text of such provisions can be relied upon for completeness and accuracy.

This Information Statement contains certain forward-looking statements that are subject to a variety of risks and uncertainties that could cause actual results to differ from the projected results, including without limitation general economic and business conditions, conditions in the financial markets, the financial condition of the Commonwealth and various state agencies and authorities, receipt of federal grants, litigation, arbitration, force majeure events and various other factors that are beyond the control of the Commonwealth and its various agencies and authorities. Because of the inability to predict all factors that may affect future decisions, actions, events or financial circumstances, what actually happens may be different from what is set forth in such forward-looking statements. Forward-looking statements are indicated by use of such words as "may," "will," "should," "intends," "expects," "believes," "anticipates," "estimates" and others.

All estimates and assumptions in this Information Statement have been made on the best information available and are believed to be reliable, but no representations whatsoever are made that such estimates and assumptions are correct. So far as any statements in this Information Statement involve any matters of opinion, whether or not expressly so stated, they are intended merely as such and not as representations of fact. The various tables may not add due to rounding of figures.

Neither the Commonwealth's independent auditors, nor any other independent accountants, have compiled, examined, or performed any procedures with respect to the prospective financial information contained herein, nor have they expressed any opinion or any other form of assurance on such information or its achievability, and assume no responsibility for, and disclaim any association with, the prospective financial information.

The information, estimates and assumptions and expressions of opinion in this Information Statement are subject to change without notice. Neither the delivery of this Information Statement nor any sale made pursuant to any official statement of which this Information Statement is a part shall, under any circumstances, create any implication that there has been no change in the affairs of the Commonwealth or its agencies, authorities or political subdivisions since the date of this Information Statement, except as expressly stated.

AVAILABILITY OF OTHER FINANCIAL INFORMATION

Questions regarding this Information Statement or requests for additional information concerning the Commonwealth should be directed to Susan E. Perez, Deputy Treasurer, Office of the Treasurer and Receiver-General, One Center Plaza, Suite 430, Boston, Massachusetts 02108, telephone (617) 367-3900, or to Jennifer Sullivan, Undersecretary, Executive Office for Administration and Finance, State House, Room 373, Boston, Massachusetts 02133, telephone (617) 727-2040. Questions regarding legal matters relating to this Information Statement should be directed to John R. Regier, Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., One Financial Center, Boston, Massachusetts 02111, telephone (617) 348-1720.

THE COMMONWEALTH OF MASSACHUSETTS

By /s/ Deborah B. Goldberg
Deborah B. Goldberg
Treasurer and Receiver-General

By /s/ Michael J. Heffernan
Michael J. Heffernan
Secretary of Administration and Finance

November 29, 2018

Exhibit A



Massachusetts Economic Due Diligence

Quarterly Report for the Massachusetts State Treasurer's Office of Debt Management

Fourth Quarter, FY2018





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The information in this section was prepared by the Massachusetts State Data Center (MassSDC) at the University of Massachusetts Donahue Institute Economic and Public Policy Research group. It may be relevant in evaluating the economic and financial condition and prospects of the Commonwealth of Massachusetts. The State Data Center archives data about Massachusetts. The economic and demographic data, which have been obtained by the MassSDC from the sources indicated, do not necessarily present all factors that may have a bearing on the Commonwealth's fiscal and economic affairs.

All information is presented on a calendar-year basis unless otherwise indicated. **Information in the text, tables, charts, and graphs is current as of July 12th, 2018.** Dollars reflect 2017 inflation-adjusted dollars. Sources of information are indicated in the text or immediately following the charts and tables, and also in the *Sources* on the last page of the Exhibit A section. Although the Commonwealth considers the sources to be reliable, it makes no independent verification of the information presented herein and therefore does not warrant its accuracy.

| <u>Population</u> (p. A-2) | <u>Massachusetts</u> | United States |
|--|----------------------|---------------|
| Estimated Percent Change in Population, July 1, 2010 - July 1, 2017 | 4.5% | 5.3% |
| Personal Income, Consumer Prices, and Poverty (p. A-8) | | |
| Per Capita Personal Income, 2017 | \$65,890 | \$50,392 |
| Average Annual Pay, All Industries, 2016 | \$69,942 | \$55,375 |
| Percent Change in CPI-U*, 2016-2017 | 2.5% | 2.1% |
| Percent Change in CPI-U*, March 2017 - March 2018 | 0.0% | 0.0% |
| Poverty Rate, 2016 | 10.4% | 14.0% |
| Average Weekly Earnings, Manufacturing Production Workers: 2017 | \$991 | \$876 |
| Percent Change from previous year | 2.6% | 0.2% |
| Employment (p. A-18) | | |
| Percent Change in Nonfarm Payroll Employment, March 2016 - March 2017 (not seasonally adjusted) | 1.2% | 1.6% |
| Unemployment Rate, 2017 | 3.7% | 4.4% |
| Unemployment Rate, May 2018 (not seasonally adjusted) | 3.3% | 3.6% |
| Education (p. A-24) | | |
| Expenditure Per Pupil K-12 Public, 2016 | \$15,925 | \$12,012 |
| Percent of Adults with a Bachelor's Degree or Higher, 2016 | 42.7% | 31.3% |
| Economic Base and Performance (p. A-30) | | |
| Percent Change in Gross Domestic Product, 2015-2016 | 2.6% | 2.1% |
| Percent Change in International Exports, 2016-2017 | 4.2% | 4.3% |
| Percent Change in Housing Permits Authorized, 2016-2017 | 8.8% | 6.2% |

Massachusetts is a densely populated state with a well-educated population, comparatively high income levels, and a relatively diversified economy. While the total population of Massachusetts has remained fairly stable in the last 25 years, significant changes have occurred in the age distribution of the population. Dramatic growth in residents between the ages of 20 and 44 since 1980 is expected to lead to a population distributed more heavily in the 65 and over age group in the next 25 years. Just as the working-age population has increased, income levels in Massachusetts since 1980 have grown significantly more than the national average, and a variety of measures of income show that Massachusetts residents have significantly higher amounts of annual income than the national average. These higher levels of income have been accompanied by a consistently lower poverty rate. State unemployment rates have typically remained below the national average with the exception of a slight increase during the recession of the early 1990s and a seventeen-month stretch between 2006 and 2007. More recently, Massachusetts unemployment has tracked faster than the national average and currently stands at 3.5 percent, compared to the national rate of 3.8 percent. In 2014, Massachusetts was ranked second in the U.S. according to the American Human Development Index, modeled after the United Nations Human Development Index, which compares health, income and education outcomes.

The following five sections provide detailed information on population characteristics, personal income, employment, human resources, economic base and performance, and infrastructure.

POPULATION CHARACTERISTICS

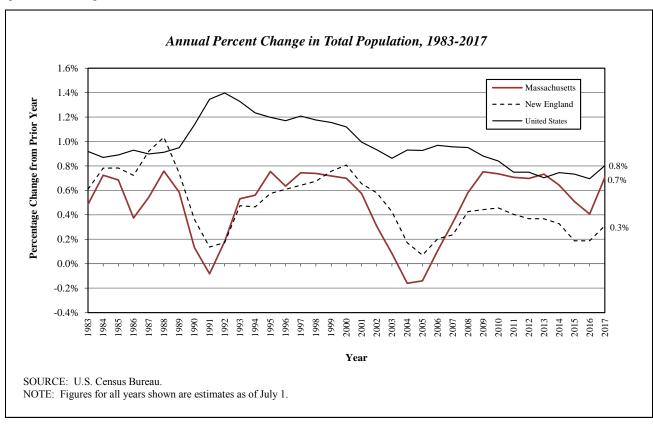
Massachusetts is a relatively slow growing but densely populated state with a comparatively large percentage of its residents living in metropolitan areas. The population density of Massachusetts was estimated as of July 1, 2017 to be 879.5 persons per square mile, as compared to 92.2 for the United States as a whole. Among the 50 states, only Rhode Island and New Jersey have a greater population density. Massachusetts also ranked just behind New Jersey and Rhode Island, as well as Delaware, in percentage of residents living in metropolitan areas. According to the current county-based definition, 98.6 percent of the state's population live in metropolitan areas.

The state's population is concentrated in its eastern portion. The city of Boston is the largest city in New England, with a July 1, 2017 population estimated at 669,255, or 9.9 percent of the total state population. Boston is the hub of the seven-county Boston-Cambridge-Newton, MA-NH Metropolitan Statistical Area (MSA), which includes the two southeastern New Hampshire counties, and had a total population as of July 1, 2017 estimated at 4,836,531, or 32.7 percent of the total New England population. The Cambridge-Newton-Framingham, MA Metropolitan Division is the largest component of that MSA, with a total population as of July 1, 2017 estimated at 2,388,152, while the Boston, MA Metropolitan division is the second largest component, with a total population estimated at 2,013,43.

The second largest MSA in the state is the Worcester, MA MSA, with a July 1, 2017 population estimated at 942,475. The city of Worcester, situated approximately 40 miles west of Boston with a July 1, 2017 estimated population of 185,677, is the second largest city, both in New England and the state. As a major medical and education center, the Worcester area is home to 18 patient care facilities and 13 colleges and universities, including the University of Massachusetts Medical School.

The third largest MSA in Massachusetts is the three-county Springfield, MA MSA, with a July 1, 2017 population estimated at 631,652. Springfield, the third largest city in the Commonwealth with a July 1, 2017 estimated population of 154,758, is located in the Connecticut River Valley in Western Massachusetts and enjoys a diverse body of corporate employers, including Baystate Health Systems, General Dynamics, and MassMutual Financial Group. In addition, Springfield is home to three independent colleges.

As the following graph and table (on the next page) indicate, the population in Massachusetts has generally grown at a rate similar to the population of New England and more slowly than the nation as a whole. From 2009 to 2016, Massachusetts' growth has more closely resembled that of the U.S. as a whole than that of New England, although growth began to increase again in 2016. According to the Census Bureau's latest revised estimates released in July 2017, the Massachusetts population has grown only by 7.8 percent since Census 2000, while the U.S. has grown 15.4 percent in that span.



The following table compares the population level and percentage change in the population of Massachusetts to the six-state New England region and to the United States.

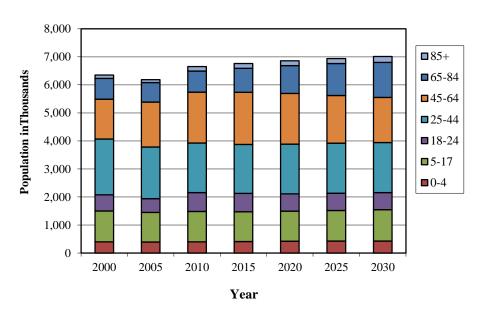
| | | | | 977-2017 | | |
|------------|----------|----------|----------|----------|------------|---------|
| | | (11 | n thousa | nds) | | |
| | Massac | chusetts | New E | ingland | United | States |
| 3 7 | T. 4 . 1 | Percent | Tr. d. d | Percent | TF - 4 - 1 | Percent |
| Year | Total | Change | Total | Change | Total | Change |
| 1977 | 5,738 | -0.1% | 12,239 | 0.4% | 219,760 | 1.0% |
| 1978 | 5,736 | 0.0% | 12,283 | 0.4% | 222,095 | 1.1% |
| 1979 | 5,738 | 0.0% | 12,322 | 0.3% | 224,567 | 1.1% |
| 1980 | 5,737 | 0.0% | 12,348 | 0.2% | 226,546 | 0.9% |
| 1981 | 5,769 | 0.6% | 12,436 | 0.7% | 229,466 | |
| 1982 | 5,771 | 0.0% | 12,468 | 0.3% | 231,664 | 1.0% |
| 1983 | 5,799 | 0.5% | 12,544 | 0.6% | 233,792 | 0.9% |
| 1984 | 5,841 | 0.7% | 12,642 | 0.8% | 235,825 | 0.9% |
| 1985 | 5,881 | 0.7% | 12,741 | 0.8% | 237,924 | 0.9% |
| 1986 | 5,903 | 0.4% | 12,833 | 0.7% | 240,133 | 0.9% |
| 1987 | 5,935 | 0.5% | 12,951 | 0.9% | 242,289 | 0.9% |
| 1988 | 5,980 | 0.8% | 13,085 | 1.0% | 244,499 | 0.9% |
| 1989 | 6,015 | 0.6% | 13,182 | 0.7% | 246,819 | 0.9% |
| 1990 | 6,023 | 0.1% | 13,230 | 0.4% | 249,623 | 1.1% |
| 1991 | 6,018 | -0.1% | 13,248 | 0.1% | 252,981 | 1.3% |
| 1992 | 6,029 | 0.2% | 13,271 | 0.2% | 256,514 | 1.4% |
| 1993 | 6,061 | 0.5% | 13,334 | 0.5% | 259,919 | 1.3% |
| 1994 | 6,095 | 0.6% | 13,396 | 0.5% | 263,126 | 1.2% |
| 1995 | 6,141 | 0.8% | 13,473 | 0.6% | 266,278 | 1.2% |
| 1996 | 6,180 | 0.6% | 13,555 | 0.6% | 269,394 | 1.2% |
| 1997 | 6,226 | 0.7% | 13,642 | 0.6% | 272,647 | 1.2% |
| 1998 | 6,272 | 0.7% | 13,734 | 0.7% | 275,854 | 1.2% |
| 1999 | 6,317 | 0.7% | 13,838 | 0.8% | 279,040 | 1.2% |
| 2000 | 6,361 | 0.7% | 13,950 | 0.8% | 282,162 | 1.1% |
| 2001 | 6,398 | 0.6% | 14,041 | 0.7% | 284,969 | 1.0% |
| 2002 | 6,417 | 0.3% | 14,122 | 0.6% | 287,625 | 0.9% |
| 2003 | 6,423 | 0.1% | 14,182 | 0.4% | 290,108 | 0.9% |
| 2004 | 6,412 | -0.2% | 14,207 | 0.2% | 292,805 | 0.9% |
| 2005 | 6,403 | -0.1% | 14,217 | 0.1% | 295,517 | 0.9% |
| 2006 | 6,410 | 0.1% | 14,246 | 0.2% | 298,380 | 1.0% |
| 2007 | 6,432 | 0.3% | 14,279 | 0.2% | 301,231 | 1.0% |
| 2008 | 6,469 | 0.6% | 14,340 | 0.4% | 304,094 | 1.0% |
| 2009 | 6,518 | 0.8% | 14,404 | 0.4% | 306,772 | 0.9% |
| 2010 | 6,566 | 0.7% | 14,469 | 0.5% | 309,348 | 0.8% |
| 2011 | 6,612 | 0.7% | 14,528 | 0.4% | 311,663 | 0.7% |
| 2012 | 6,658 | 0.7% | 14,581 | 0.4% | 313,998 | 0.7% |
| 2013 | 6,707 | 0.7% | 14,635 | 0.4% | 316,205 | 0.7% |
| 2014 | 6,750 | 0.6% | 14,683 | 0.3% | 318,563 | 0.7% |
| | | | | | | |
| 2015 | 6,784 | 0.5% | 14,710 | 0.2% | 320,897 | 0.7% |
| 2016 | 6,812 | 0.4% | 14,738 | 0.2% | 323,128 | 0.7% |
| 2017 | 6,860 | 0.7% | 14,784 | 0.3% | 325,719 | 0.8% |

SOURCE: U.S. Department of Commerce, Census Bureau. NOTE: The Census count in 1980 is as of April 1; estimates for all other years are as of July 1.

The next 14 years are expected to bring about a continued change in the age distribution of the Massachusetts population. As the following table and chart show, the share of the 65 and over age group and especially the 85 and over age group will continue to grow. The chart, table, and population pyramids (below, and on the following page) show the projected population by age for Massachusetts for 2000 through 2030. The Census has not updated these projections to reflect the 2010 Census.

| | | Project | | achusetts 90-2030 (i | _ | | Group | | |
|------|-------|---------|-------|-------------------------|---------|---------|-------|----------|---------------|
| Year | 0-4 | 5-17 | 18-24 | 25-44 | 45-64 | 65-84 | 85+ | All Ages | Median Age |
| 2000 | 397.3 | 1,102.8 | 579.3 | 1,989.8 | 1,419.8 | 743.5 | 116.7 | 6,349.1 | 36.5 |
| 2005 | 395.1 | 1,055.6 | 488.9 | 1,844.0 | 1,602.5 | 693.1 | 103.7 | 6,182.9 | 38.2 |
| 2010 | 400.7 | 1,083.1 | 670.2 | 1,769.7 | 1,817.1 | 750.6 | 158.0 | 6,649.4 | 38.8 |
| 2015 | 409.7 | 1,064.2 | 656.0 | 1,746.1 | 1,857.1 | 856.5 | 168.9 | 6,758.6 | 39.2 |
| 2020 | 422.3 | 1,070.9 | 617.5 | 1,775.8 | 1,809.3 | 987.8 | 172.0 | 6,855.5 | 39.5 |
| 2025 | 431.0 | 1,087.7 | 616.2 | 1,782.5 | 1,703.3 | 1,137.8 | 180.1 | 6,938.6 | 39.7 |
| 2030 | 430.6 | 1,115.0 | 610.7 | 1,783.9 | 1,608.7 | 1,251.2 | 211.9 | 7,012.0 | 40.2 |

Projected Massachusetts Population by Age Group 2000-2030



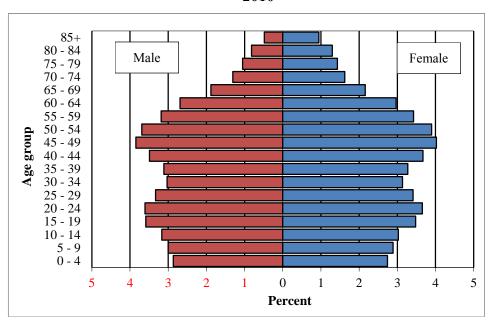
SOURCE: U.S. Census Bureau, Population Division, Interim State Population Projections, 2005. Internet Release Date: 04/21/05.

NOTE: Actual Census 2000 counts as of April 1; Population Estimates for 2005 as of July 1; all other figures are projections as of July 1 of the indicated year.

Population Pyramids of Massachusetts

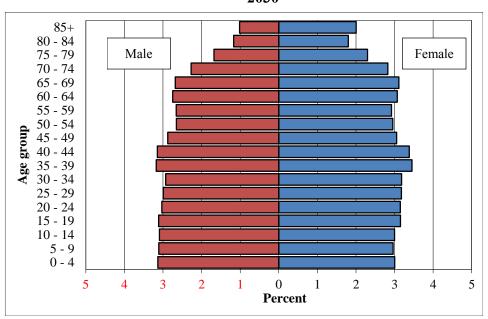
Percent of Total Population

2010



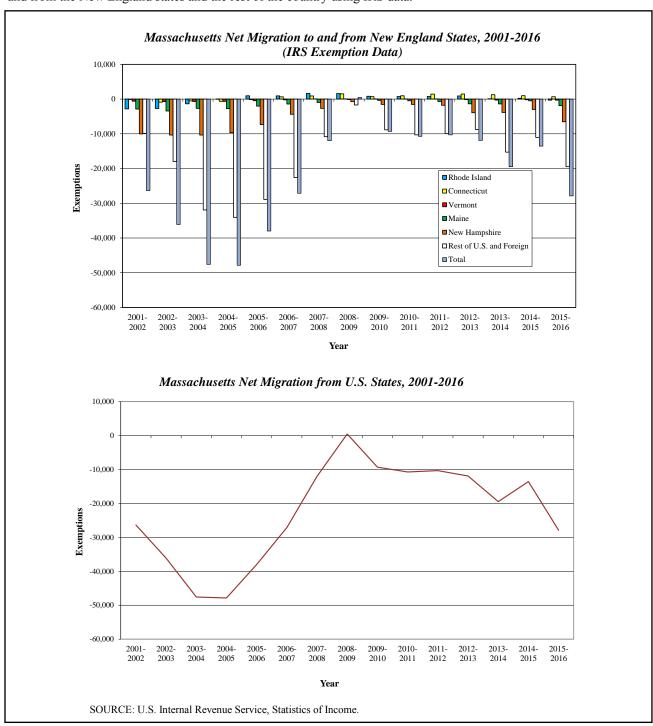
SOURCE: U.S. Census Bureau, 2010 Census.

2030



SOURCE: U.S. Census Bureau, Population Division, Interim State Population Projections, 2005. Internet Release Date: 04/21/05.

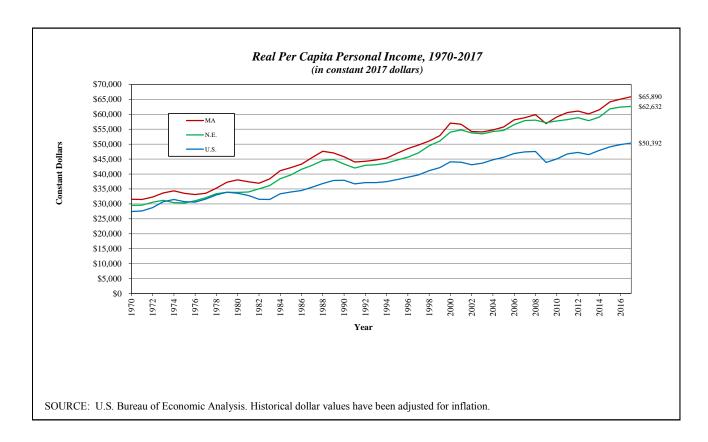
Migration. Migration is one of several components of annual population change in Massachusetts. The movement of people from place to place is often linked to economic opportunities or downturns. These data are derived from the filing addresses and number of exemptions submitted with federal tax returns. A tax filer is considered a migrant when he/she files a tax return with an address different from the previous year's filing address. Of the New England states, New Hampshire was the largest net loss for Massachusetts and Connecticut was the largest net gain for Massachusetts from 2001 through 2016. Massachusetts also sends many more migrants to other U.S. states than it gains. Its largest net losses outside of New England are to Florida, California, North Carolina, and Texas while its largest net gains are from New York, New Jersey, Pennsylvania and Illinois. The charts below illustrate the net migration for Massachusetts to and from the New England states and the rest of the country using IRS data.



Personal Income, Consumer Prices, and Poverty

Personal Income. Real per capita income levels in Massachusetts have varied over time. Between 1992 and 1997, real per capita income levels in the Commonwealth increased faster than the national average. In 2000, Massachusetts had its highest per capita income growth in 16 years, exceeding the national growth rate by 3.3 percentage points. From 2001 to 2003, real income declined in Massachusetts while staying roughly flat for the nation. However, real income levels in Massachusetts remained well above the national average. Following a significant decline in 2009, Massachusetts, New England, and the U.S. steadily increased until 2012. Overall, between 2006 and 2012, Massachusetts personal income increased considerably faster than the nation during the recession and its aftermath. In 2013, Massachusetts, New England, and the U.S. all experienced a slight decline in real income. From 2014 to 2017, real per capita income rose in the state, New England, and the nation. Massachusetts per capita personal income remains higher than the nation. At the state level in 2017, only the District of Columbia and Connecticut had higher levels of per capita personal income.

The following graph illustrates these changes in real per capita personal income in Massachusetts, New England, and the United States since 1970.



The following table compares per capita personal income in Massachusetts, New England, and the United States for the period 1969-2017.

| | | ominal Inco | | | Real Incom | | | Percent Cha | |
|--------------|-------------|-------------------|----------|-----------|----------------------|--------------|-------|----------------------|-------|
| V | (in r MA | ominal do N.E. | u.S. | (II MA | 1 2017 dolla N.E. | urs) U.S. | MA | in Real Inco N.E. | |
| Year 1969 | \$4,185 | \$4,175 | \$3,836 | \$30,452 | \$28,895 | \$26,456 | IVIA | N.E. | U.S. |
| 1970 | \$4,575 | \$4,547 | \$4,196 | \$31,528 | \$29,503 | \$27,441 | 3.5% | 2.1% | 3.7% |
| 1971 | \$4,859 | \$4,795 | \$4,468 | \$31,486 | \$29,560 | \$27,638 | -0.1% | 0.2% | 0.7% |
| 1972 | \$5,228 | \$5,156 | \$4,853 | \$32,272 | \$30,552 | \$28,759 | 2.5% | 3.4% | 4.1% |
| 1973 | \$5,647 | \$5,589 | \$5,352 | \$33,662 | \$31,195 | \$30,730 | 4.3% | 2.1% | 6.9% |
| 1974 | \$6,108 | \$6,056 | \$5,824 | \$34,365 | \$30,402 | \$31,482 | 2.1% | -2.5% | 2.4% |
| 1975 | \$6,592 | \$6,516 | \$6,312 | \$33,539 | \$30,307 | \$30,729 | -2.4% | -0.3% | -2.4% |
| 1976 | \$7,098 | \$7,061 | \$6,856 | \$33,136 | \$31,061 | \$30,585 | -1.2% | 2.5% | -0.5% |
| 1977 | \$7,733 | \$7,701 | \$7,494 | \$33,574 | \$32,082 | \$31,610 | 1.3% | 3.3% | 3.4% |
| 1978 | \$8,547 | \$8,527 | \$8,338 | \$35,285 | \$33,430 | \$33,023 | 5.1% | 4.2% | 4.5% |
| 1979 | \$9,500 | \$9,501 | \$9,212 | \$37,270 | \$33,872 | \$33,910 | 5.6% | 1.3% | 2.7% |
| 1980 | \$10,695 | \$10,716 | \$10,153 | \$38,060 | \$33,835 | \$33,565 | 2.1% | -0.1% | -1.0% |
| 1981 | \$11,868 | \$11,914 | \$11,262 | \$37,428 | \$33,980 | \$32,803 | -1.7% | 0.4% | -2.3% |
| 1982 | \$13,005 | \$12,939 | \$11,947 | \$36,904 | \$35,054 | \$31,544 | -1.4% | 3.2% | -3.8% |
| 1983 | \$14,067 | \$13,896 | \$12,652 | \$38,371 | \$36,138 | \$31,467 | 4.0% | 3.1% | -0.2% |
| 1984 | \$15,755 | \$15,472 | \$13,860 | \$41,123 | \$38,427 | \$33,399 | 7.2% | 6.3% | 6.1% |
| 1985 | \$16,938 | \$16,591 | \$14,719 | \$42,142 | \$39,723 | \$34,001 | 2.5% | 3.4% | 1.8% |
| 1986 | \$18,197 | \$17,795 | \$15,459 | \$43,329 | \$41,570 | \$34,482 | 2.8% | 4.7% | 1.4% |
| 1987 | \$19,608 | \$19,182 | \$16,265 | \$45,524 | \$42,918 | \$35,618 | 5.1% | 3.2% | 3.3% |
| 1988 | \$21,403 | \$20,900 | \$17,426 | \$47,612 | \$44,535 | \$36,817 | 4.6% | 3.8% | 3.4% |
| 1989 | \$22,437 | \$22,218 | \$18,653 | \$47,059 | \$44,840 | \$37,843 | -1.2% | 0.7% | 2.8% |
| 1990 | \$23,080 | \$22,764 | \$19,591 | \$45,790 | \$43,346 | \$37,919 | -2.7% | -3.3% | 0.2% |
| 1991 | \$23,468 | \$23,056 | \$19,985 | \$44,012 | \$41,992 | \$36,699 | -3.9% | -3.1% | -3.2% |
| 1992 | \$24,639 | \$24,360 | \$21,060 | \$44,265 | \$42,922 | \$37,111 | 0.6% | 2.2% | 1.1% |
| 1993 | \$25,487 | \$25,152 | \$21,698 | \$44,679 | \$43,117 | \$37,118 | 0.9% | 0.5% | 0.0% |
| 1994 | \$26,603 | \$26,092 | \$22,538 | \$45,324 | \$43,661 | \$37,434 | 1.4% | 1.3% | 0.9% |
| 1995 | \$27,933 | \$27,394 | \$23,568 | \$46,975 | \$44,688 | \$38,168 | 3.6% | 2.4% | 2.0% |
| 1996 | \$29,523 | \$28,763 | \$24,728 | \$48,491 | \$45,630 | \$38,943 | 3.2% | 2.1% | 2.0% |
| 1997 | \$31,152 | \$30,401 | \$25,950 | \$49,694 | \$47,078 | \$39,695 | 2.5% | 3.2% | 1.9% |
| 1998 | \$32,909 | \$32,393 | \$27,510 | \$51,058 | \$49,454 | \$41,138 | 2.7% | 5.0% | 3.6% |
| 1999 | \$34,849 | \$34,133 | \$28,627 | \$52,871 | \$51,059 | \$42,151 | 3.6% | 3.2% | 2.5% |
| 2000 | \$38,547 | \$37,363 | \$30,602 | \$57,053 | \$54,053 | \$44,086 | 7.9% | 5.9% | 4.6% |
| 2001 | \$39,944 | \$38,900 | \$31,540 | \$56,673 | \$54,751 | \$43,959 | -0.7% | 1.3% | -0.3% |
| 2002 | \$39,856 | \$39,000 | \$31,815 | \$54,216 | \$53,783 | \$43,116 | -4.3% | -1.8% | -1.9% |
| 2003 | \$40,805 | \$39,859 | \$32,692 | \$54,094 | \$53,462 | \$43,615 | -0.2% | -0.6% | 1.2% |
| 2004 | \$42,856 | \$41,838 | \$34,316 | \$54,751 | \$54,239 | \$44,761 | 1.2% | 1.5% | 2.6% |
| 2005 | \$44,842 | \$43,644 | \$35,904 | \$55,757 | \$54,589 | \$45,618 | 1.8% | 0.6% | 1.9% |
| 2006 | \$48,307 | \$46,858 | \$38,144 | \$58,151 | \$56,565 | \$46,876 | 4.3% | 3.6% | 2.8% |
| 2007 | \$50,417 | \$49,201 | \$39,821 | \$58,868 | \$57,909 | \$47,407 | 1.2% | 2.4% | 1.1% |
| 2008 | \$52,283 | \$51,278 | \$41,082 | \$59,890 | \$58,039 | \$47,554 | 1.7% | 0.2% | 0.3% |
| 2009 | \$51,412 | \$50,537 | \$39,376 | \$56,900 | \$57,191 | \$43,894 | -5.0% | -1.5% | -7.7% |
| 2010 | \$53,054 | \$52,060 | \$40,277 | \$59,117 | \$57,774 | \$45,059 | 3.9% | 1.0% | 2.7% |
| 2011 | \$55,232 | \$54,056 | \$42,461 | \$60,594 | \$58,215 | \$46,735 | 2.5% | 0.8% | 3.7% |
| 2012 | \$57,192 | \$55,728 | \$44,282 | \$61,088 | \$58,867 | \$47,248 | 0.8% | 1.1% | 1.1% |
| 2013 | \$57,182 | \$55,517 | \$44,493 | \$60,128 | \$57,858 | \$46,511 | -1.6% | -1.7% | -1.6% |
| 2014 | \$59,296 | \$57,461 | \$46,494 | \$61,505 | \$59,071 | \$47,901 | 2.3% | 2.1% | 3.0% |
| 2015 | \$62,846 | \$60,088 | \$48,451 | \$64,154 | \$61,840 | \$49,120 | 4.3% | 4.7% | 2.5% |
| 2016 | \$64,122 | \$61,299 | \$49,246 | \$65,066 | \$62,427 | \$49,867 | 1.4% | 0.9% | 1.5% |

SOURCE: U.S. Bureau of Economic Analysis.

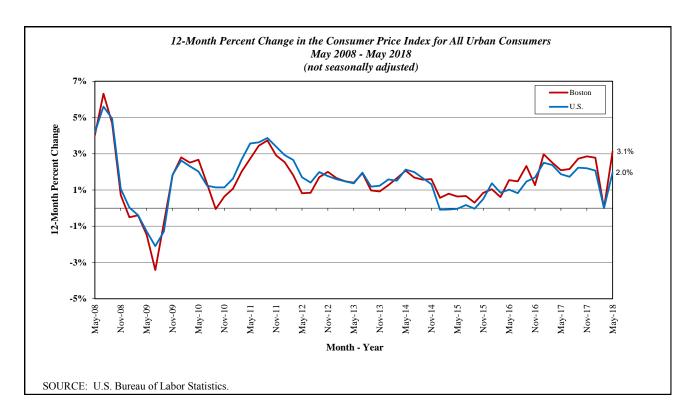
NOTE: Using midyear population estimates from the Census Bureau and two CPI-U series from the U.S. Bureau of Labor Statistics for price inflation.

Average Annual Pay. Massachusetts saw steady growth in average annual pay for most of the past fifteen years, adjusted for inflation. It lost ground in 2009, but resumed growth in 2010, and dropped slightly again in 2016. Payroll data are reported to the Quarterly Census of Employment and Wages (QCEW) by all employers covered under the Unemployment Insurance programs, and summary data are released. Average annual pay is computed by dividing the total annual payroll of employees covered by Unemployment Insurance programs by the average monthly number of employees from the data in the QCEW. Since 2005, average annual wages in the state have grown at an annual rate of 0.9 percent, compared to 0.7 percent for the nation. The level of average annual pay in Massachusetts in 2017 was 27 percent higher than the national average: \$69,942 compared to \$55,375.

Annual Wage and Salary Disbursements. Wage and salary disbursements by place of work is a component of personal income and measures monetary disbursements to employees. This includes compensation of corporate officers, commissions, tips, bonuses, and receipts in-kind. Although the data are recorded on a place-of-work basis, they are then adjusted to a place-of-residence basis so that the personal income of the recipients whose place of residence differs from their place of work will be correctly assigned to their state of residence. The table below details Wage and Salary Disbursements since 1990. Between 1998 and 2000, the Massachusetts share of New England and overall U.S. totals increased. In subsequent years, the Massachusetts share of New England and the U.S. decreased slightly until 2006. Since then, Massachusetts' share of New England has risen steadily while its share of the U.S has stayed roughly the same. In 2017, the shares were 53.3 and 3.0 percent respectively.

| | | (in billions of | 2017 dollars |) | |
|------|----------|-----------------|--------------|-------------------------|---------------------|
| Year | U.S. | N.E. | MA | MA as a pct. of N.E. | MA as a pet U.S. |
| 1990 | \$ 5,120 | \$319 | \$154 | 48.4% | 3.0% |
| 1991 | \$ 5,043 | \$304 | \$147 | 48.3% | 2.9% |
| 1992 | \$ 5,180 | \$308 | \$149 | 48.3% | 2.9% |
| 1993 | \$ 5,207 | \$309 | \$150 | 48.5% | 2.9% |
| 1994 | \$ 5,335 | \$313 | \$153 | 48.8% | 2.9% |
| 1995 | \$ 5,491 | \$322 | \$158 | 49.0% | 2.9% |
| 1996 | \$ 5,643 | \$331 | \$163 | 49.3% | 2.9% |
| 1997 | \$ 5,914 | \$349 | \$172 | 49.3% | 2.9% |
| 1998 | \$ 6,282 | \$370 | \$183 | 49.5% | 2.9% |
| 1999 | \$ 6,557 | \$389 | \$195 | 50.2% | 3.0% |
| 2000 | \$ 6,866 | \$415 | \$213 | 51.2% | 3.1% |
| 2001 | \$ 6,851 | \$414 | \$210 | 50.7% | 3.1% |
| 2002 | \$ 6,803 | \$405 | \$203 | 50.1% | 3.0% |
| 2003 | \$ 6,839 | \$404 | \$201 | 49.6% | 2.9% |
| 2004 | \$ 7,030 | \$415 | \$206 | 49.6% | 2.9% |
| 2005 | \$ 7,140 | \$415 | \$205 | 49.4% | 2.9% |
| 2006 | \$ 7,358 | \$424 | \$210 | 49.5% | 2.9% |
| 2007 | \$ 7,556 | \$437 | \$218 | 49.9% | 2.9% |
| 2008 | \$ 7,433 | \$430 | \$216 | 50.2% | 2.9% |
| 2009 | \$ 7,135 | \$414 | \$208 | 50.3% | 2.9% |
| 2010 | \$ 7,159 | \$417 | \$211 | 50.6% | 2.9% |
| 2011 | \$ 7,218 | \$420 | \$213 | 50.8% | 3.0% |
| 2012 | \$ 7,390 | \$425 | \$218 | 51.2% | 2.9% |
| 2013 | \$ 7,480 | \$430 | \$221 | 51.4% | 3.0% |
| 2014 | \$ 7,734 | \$443 | \$230 | 51.8% | 3.0% |
| 2015 | \$ 8,121 | \$464 | \$243 | 52.4% | 3.0% |
| 2016 | \$ 8,252 | \$469 | \$248 | 52.7% | 3.0% |
| 2017 | \$ 8,345 | \$472 | \$252 | 53.3% | 3.0% |

Consumer Prices. Higher income levels in Massachusetts relative to the rest of the United States are offset to some extent by the higher cost of living in Massachusetts. The following graph presents consumer price trends for the Boston metropolitan area and the United States for the period between May 2008 and May 2018. The latest available data for May 2018 show that the CPI-U for the Boston area increased at a rate of 3.1 percent over May 2017. The U.S. index increased at a rate of 2.0 percent over the same period.



In 2009, the Boston metropolitan area and U.S. experienced their first monthly year-over-year declines in the CPI-U since 1954 and 1955, respectively. The 2017 U.S. CPI-U increased 12.4 percent since 2010 while Boston's CPI-U increased 12.5 percent during that period. Between 2014 and 2017, Boston's Consumer Price Index increased by 4.6 percent while in the United States as a whole, CPI-U increased by 3.5 percent. The table on the following page shows the annual average of the Consumer Price Index for All Urban Consumers (CPI-U) and the percentage change in that average from the previous year from 1970 through the present.

| Consumer Price Index for All Urban Consumers (CPI-U) |
|--|
| 1970-2017 |

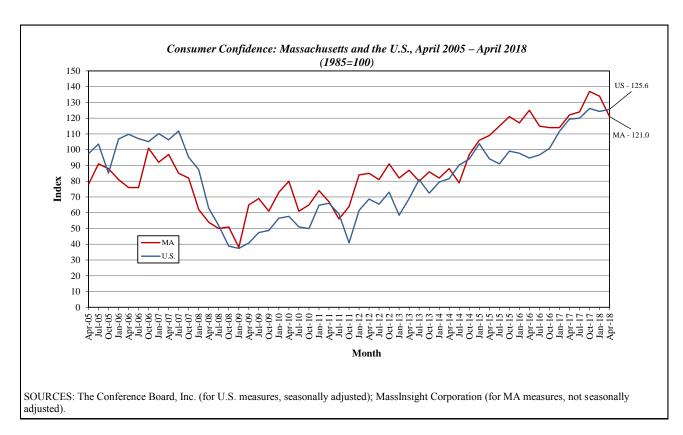
| (not seasonall | ly adjusted | ; 1982-1984 base | period average=100) |
|----------------|-------------|------------------|---------------------|
|----------------|-------------|------------------|---------------------|

| moi seus | | on Metro Area | | ed States |
|----------------|-------------------|---------------|-------|-------------|
| Year | CPI-U | Pct. Change | CPI-U | Pct. Change |
| 1970 | 40.2 | | 38.8 | |
| 1971 | 42.2 | 5.0% | 40.5 | 4.4% |
| 1972 | 43.7 | 3.6% | 41.8 | 3.2% |
| 1973 | 46.3 | 5.9% | 44.4 | 6.2% |
| 1974 | 51.2 | 10.6% | 49.3 | 11.0% |
| 1975 | 55.8 | 9.0% | 53.8 | 9.1% |
| 1976 | 60.0 | 7.5% | 56.9 | 5.8% |
| 1977 | 63.1 | 5.2% | 60.6 | 6.5% |
| 1978 | 66.4 | 5.2% | 65.2 | 7.6% |
| 1979 | 73.2 | 10.2% | 72.6 | 11.3% |
| 1980 | 82.6 | 12.8% | 82.4 | 13.5% |
| 1981 | 91.8 | 11.1% | 90.9 | 10.3% |
| 1982 | 95.5 | 4.0% | 96.5 | 6.2% |
| 1983 | 99.8 | 4.5% | 99.6 | 3.2% |
| 1984 | 104.7 | 4.9% | 103.9 | 4.3% |
| 1985 | 109.4 | 4.5% | 107.6 | 3.6% |
| 1986 | 112.2 | 2.6% | 109.6 | 1.9% |
| 1987 | 117.1 | 4.4% | 113.6 | 3.6% |
| 1988 | 124.2 | 6.1% | 118.3 | 4.1% |
| 1989 | 131.3 | 5.7% | 124.0 | 4.8% |
| 1990 | 138.9 | 5.8% | 130.7 | 5.4% |
| 1991 | 145.0 | 4.4% | 136.2 | 4.2% |
| 1992 | 148.6 | 2.5% | 140.3 | 3.0% |
| 1993 | 152.9 | 2.9% | 144.5 | 3.0% |
| 1994 | 154.9 | 1.3% | 148.2 | 2.6% |
| 1995 | 158.6 | 2.4% | 152.4 | 2.8% |
| 1996 | 163.3 | 3.0% | 156.9 | 3.0% |
| 1997 | 167.9 | 2.8% | 160.5 | 2.3% |
| 1998 | 171.7 | 2.3% | 163.0 | 1.6% |
| 1999 | 176.0 | 2.5% | 166.6 | 2.2% |
| 2000 | 183.6 | 4.3% | 172.2 | 3.4% |
| 2001 | 191.5 | 4.3% | 177.1 | 2.8% |
| 2002 | 196.5 | 2.6% | 179.9 | 1.6% |
| 2003 | 203.9 | 3.8% | 184.0 | 2.3% |
| 2004 | 209.5 | 2.7% | 188.9 | 2.7% |
| 2005 | 216.4 | 3.3% | 195.3 | 3.4% |
| 2006 | 223.1 | 3.1% | 201.6 | 3.2% |
| 2007 | 227.4 | 1.9% | 207.3 | 2.8% |
| 2008 | 235.4 | 3.5% | 215.3 | 3.8% |
| 2009 | 233.8 | -0.7% | 214.5 | -0.4% |
| 2010 | 237.4 | 1.6% | 218.1 | 1.6% |
| 2011 | 243.9 | 2.7% | 224.9 | 3.2% |
| 2012 | 247.7 | 1.6% | 229.6 | 2.1% |
| 2013 | 251.1 | 1.4% | 233.0 | 1.5% |
| 2014 | 255.2 | 1.6% | 236.7 | 1.6% |
| 2015 | 256.7 | 0.6% | 237.0 | 0.1% |
| 2016 | 260.5 | 1.5% | 240.0 | 1.3% |
| 2017 | 267.0 | 2.5% | 245.1 | 2.1% |
| SOURCE: U.S. E | Bureau of Labor S | tatistics. | | |

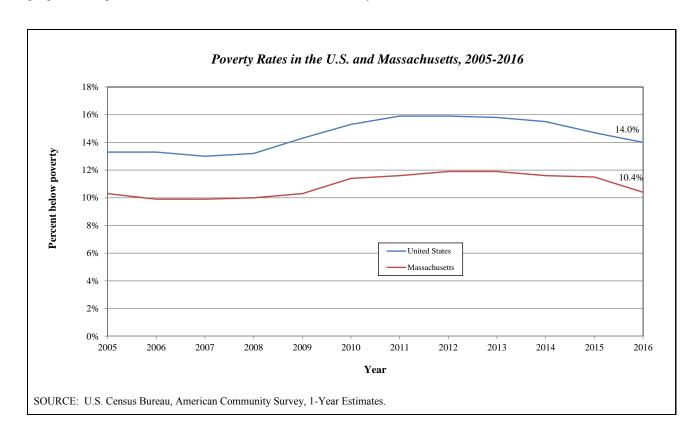
Consumer Confidence, Present Situation, and Future Expectations. These three measures offer multiple insights into consumer attitudes. The U.S. measures are compiled from a national monthly survey of 5,000 households and are published by The Conference Board, Inc. The survey for Massachusetts is conducted in a similar manner and the results are published by MassInsight, based on quarterly polling of 450 adult residents of Massachusetts. The "Present Situation" index measures consumers' appraisal of business and employment conditions at the time of the survey. The "Future Expectations" index focuses on consumers' expectations for six months hence regarding business and employment conditions, as well as expected family income. The overall "Consumer Confidence" index is a weighted average of the two sub-indices. Although the U.S. measures are compiled by a different source than the Massachusetts measures, according to the Federal Reserve Bank of Boston, the numbers are generally comparable. A score of 100 is considered neutral.

According to the Conference Board, consumer confidence nationally reached a six-year high of 126.2 in October 2017. The all-time quarterly low reading was 37.4 in January 2009. The Massachusetts index has generally been higher than the U.S. index since sharing lows in January 2009, except for brief periods as they tracked closely together in 2011 and experienced slight dips in July of 2013 and 2014 and April 2018.

In the fourth quarter of FY2018, Consumer Confidence for Massachusetts declined to 121.0, down from 134.0 in the previous quarter. The U.S. has surpassed its pre-recessionary (2007) levels and stood at 125.6 in the fourth quarter of FY2018. The following graph and table detail the recent record of these measures.



Poverty. Since 2005, the Massachusetts poverty rate, which was 10.4 percent in 2016, has been three to four percentage points lower than the national average, which was 14.0 percent in 2016. Massachusetts ranked 44rd out of the 50 states and the District of Columbia in 2016, for percent of persons whose ratio of income to the poverty level was below 100 percent in the past 12 months. Poverty status is not determined for all people. Institutionalized people, people in military quarters, people in college dormitories, and unrelated individuals under 15 years old are excluded.

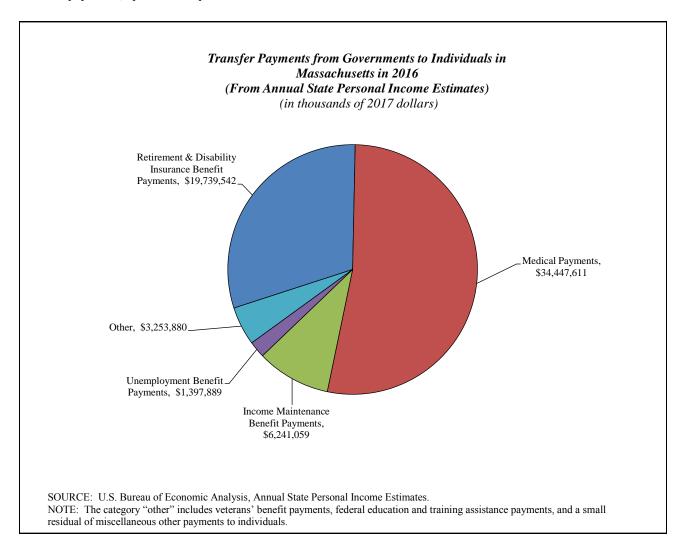


| Consumer Confidence, Present Situation, and Future Expectations for |
|---|
| Massachusetts and the U.S. |
| (1985=100) |

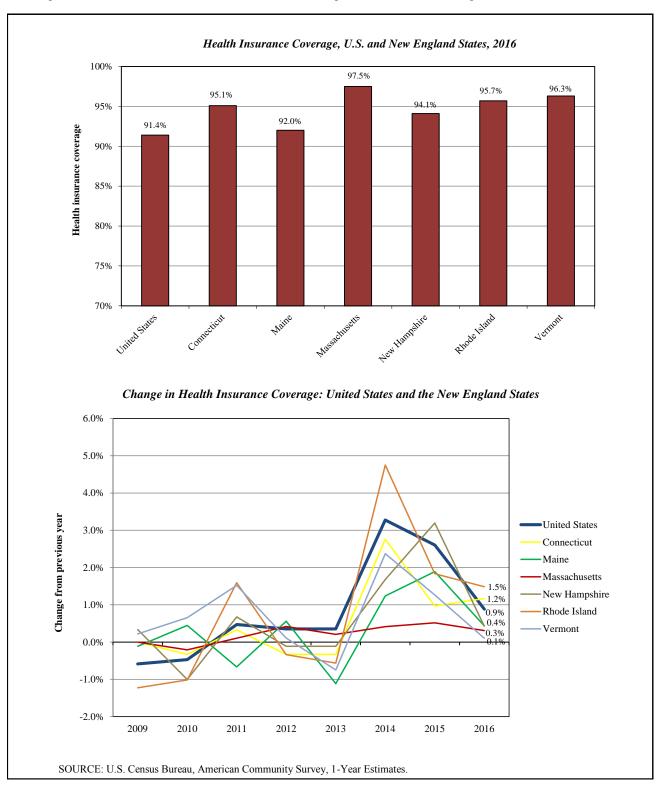
| _ | Consumer Con | nfidence | Present | Situation | Future Exp | ectation <u>s</u> |
|--------|--------------|----------|---------|-----------|------------|-------------------|
| | MA | U.S. | MA | U.S. | MA | U.S. |
| Jul-06 | 76.0 | 107.0 | 68.0 | 134.2 | 81.0 | 88.9 |
| Oct-06 | 101.0 | 105.1 | 86.0 | 125.1 | 111.0 | 91.9 |
| Jan-07 | 92.0 | 110.2 | 74.0 | 133.9 | 104.0 | 94.4 |
| Apr-07 | 97.0 | 106.3 | 89.0 | 133.5 | 102.0 | 88.2 |
| Jul-07 | 85.0 | 111.9 | 80.0 | 138.3 | 90.0 | 94.4 |
| Oct-07 | 82.0 | 95.2 | 76.0 | 118.0 | 86.0 | 80.0 |
| Jan-08 | 62.0 | 87.3 | 49.0 | 114.3 | 71.0 | 69.3 |
| Apr-08 | 54.0 | 62.8 | 35.0 | 81.9 | 67.0 | 50.0 |
| Jul-08 | 50.0 | 51.9 | 24.0 | 65.8 | 68.0 | 42.7 |
| Oct-08 | 51.0 | 38.8 | 27.0 | 43.5 | 66.0 | 35.7 |
| Jan-09 | 38.0 | 37.4 | 9.0 | 29.7 | 58.0 | 42.5 |
| Apr-09 | 65.0 | 40.8 | 24.0 | 25.5 | 92.0 | 51.0 |
| Jul-09 | 69.0 | 47.4 | 16.0 | 23.3 | 105.0 | 63.4 |
| Oct-09 | 61.0 | 48.7 | 14.0 | 21.1 | 93.0 | 67.0 |
| Jan-10 | 73.0 | 56.5 | 14.0 | 25.2 | 112.0 | 77.3 |
| Apr-10 | 80.0 | 57.7 | 22.0 | 28.2 | 119.0 | 77.4 |
| Jul-10 | 61.0 | 51.0 | 16.0 | 26.4 | 91.0 | 67.5 |
| Oct-10 | 65.0 | 49.9 | 15.0 | 23.5 | 99.0 | 67.5 |
| Jan-11 | 74.0 | 64.8 | 17.0 | 31.1 | 112.0 | 87.3 |
| Apr-11 | 67.0 | 66.0 | 24.0 | 40.2 | 96.0 | 83.2 |
| Jul-11 | 56.0 | 59.2 | 20.0 | 35.7 | 80.0 | 74.9 |
| Oct-11 | 64.0 | 40.9 | 24.0 | 27.1 | 91.0 | 50.0 |
| Jan-12 | 84.0 | 61.5 | 34.0 | 38.8 | 118.0 | 76.7 |
| Apr-12 | 85.0 | 68.7 | 41.0 | 51.2 | 114.0 | 80.4 |
| Jul-12 | 81.0 | 65.4 | 40.0 | 45.9 | 109.0 | 78.4 |
| Oct-12 | 91.0 | 73.1 | 48.0 | 56.7 | 120.0 | 84.0 |
| Jan-13 | 82.0 | 58.4 | 48.0 | 56.2 | 105.0 | 59.9 |
| Apr-13 | 87.0 | 69.0 | 54.0 | 61.0 | 109.0 | 74.3 |
| Jul-13 | 80.0 | 81.0 | 56.0 | 73.6 | 97.0 | 86.0 |
| Oct-13 | 86.0 | 72.4 | 64.0 | 72.6 | 101.0 | 72.2 |
| Jan-14 | 82.0 | 79.4 | 55.0 | 77.3 | 99.0 | 80.8 |
| Apr-14 | 88.0 | 81.7 | 66.0 | 78.5 | 103.0 | 83.9 |
| Jul-14 | 79.0 | 90.3 | 69.0 | 87.9 | 86.0 | 91.9 |
| Oct-14 | 97.0 | 94.1 | 76.0 | 94.4 | 111.0 | 93.8 |
| Jan-15 | 106.0 | 103.8 | 84.0 | 113.9 | 120.0 | 97.0 |
| Apr-15 | 109.0 | 94.3 | 94.0 | 105.1 | 119.0 | 87.1 |
| Jul-15 | 115.0 | 91.0 | 115.0 | 104.0 | 115.0 | 82.3 |
| Oct-15 | 121.0 | 99.1 | 118.0 | 114.6 | 123.0 | 88.7 |
| Jan-16 | 117.0 | 97.8 | 122.0 | 116.6 | 114.0 | 85.3 |
| Apr-16 | 125.0 | 94.7 | 129.0 | 117.1 | 123.0 | 79.7 |
| Jul-16 | 115.0 | 96.7 | 120.0 | 118.8 | 111.0 | 82.0 |
| Oct-16 | 114.0 | 100.8 | 120.0 | 123.1 | 111.0 | 86.0 |
| Jan-17 | 114.0 | 111.6 | 128.0 | 130.0 | 104.0 | 99.3 |
| Apr-17 | 122.0 | 119.4 | 139.0 | 140.3 | 111.0 | 105.4 |
| Jul-17 | 124.0 | 120.0 | 133.0 | 145.4 | 118.0 | 103.0 |
| Oct-17 | 137.0 | 126.2 | 143.0 | 152.0 | 133.0 | 109.0 |
| Jan-18 | 134.0 | 124.3 | 147.0 | 154.7 | 126.0 | 104.0 |
| Apr-18 | 121.0 | 125.6 | 141.0 | 157.5 | 107.0 | 104.3 |

 $SOURCES: The \ Conference \ Board, \ Inc. \ (for \ U.S. \ measure, seasonally \ adjusted); \ Mass \ Insight \ Corporation \ (for \ MA \ measures, not seasonally \ adjusted).$

Transfer Payments. Transfer payment income is payment to individuals from all levels of government and from businesses for which no current services are performed, including payments to nonprofit institutions serving individuals. These payments accounted for 14.9 percent of total personal income in Massachusetts in 2016, increasing from 14.8 percent in 2015. The chart below does not include transfer payments from businesses or payments to nonprofit organizations. Total transfer payments to individuals in Massachusetts from governments and businesses totaled \$66.78 billion for 2016, adjusted for inflation. 51.6 percent of government transfer payments to individuals were medical payments, up from 50.9 percent in 2015.



Health Insurance Coverage. Massachusetts leads the nation in the percent of individuals with health insurance coverage. Massachusetts passed legislation in 2006 mandating universal coverage in the Commonwealth. In 2016, 97.5 percent of the civilian non-institutionalized population was covered in the state by either private or public insurance, compared with 91.4 percent nationwide. Massachusetts also leads the other New England states in coverage, with Vermont as the next closest at 96.3 percent. All of the New England states have higher rates of coverage than the nation. These data do not indicate the comprehensiveness of coverage, however.

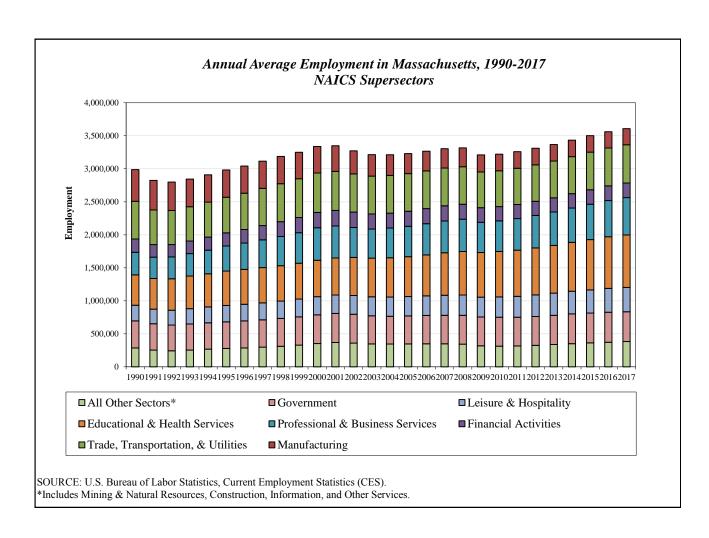


EMPLOYMENT

Employment by Industry. The chart on this page shows the annual level of non-agricultural payroll employment in Massachusetts based on the North American Industry Classification System (NAICS) for the seven largest NAICS supersectors starting with 1990, the earliest year for which NAICS data are available. The chart on the following page compares the supersector shares for 2017 with the corresponding shares for 1997. Like many industrial states, Massachusetts has seen a steady decline of its manufacturing jobs base over the last two decades, not only as a share of total employment, but in absolute numbers of jobs as well. Several NAICS service sectors, Education and Health Services, Professional and Business Services, and Leisure and Hospitality have grown to take the place of manufacturing in driving the Massachusetts economy and now account for almost half of total payroll employment, while Financial Activities, Government, Information, and Trade, Transportation & Utilities have remained relatively level or declined in share.

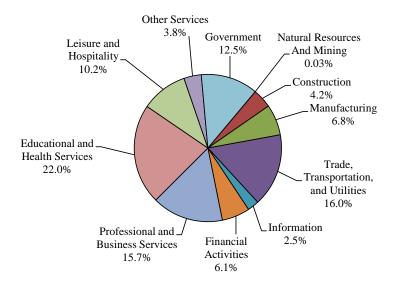
After significant declines in 2009, total non-agricultural employment in Massachusetts eventually increased 0.4 percent and continued to grow steadily, with nonfarm employment increasing 1.3 percent in 2017. With an annual average just under 3.6 million nonfarm employees, 2017 had the highest numbers to date.

After years of moderate but steady declines or near-zero growth in the late nineties and early 2000s, manufacturing employment in the state experienced steep annual declines in 2002 (10.3 percent) and 2003 (7.0 percent) before returning to more moderate declines in 2004 (3.5 percent). After a steep drop of 9.6 percent in 2009, the decline returned to a less dramatic 2.4 percent in 2010. May 2018 saw manufacturing employment decrease by 0.5 percent since May of 2017. The 2017 manufacturing employment total was slightly lower than 2016 (244.2 thousand compared to 245.5).

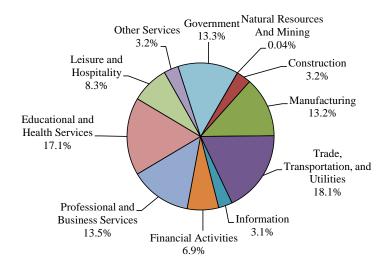


Massachusetts Nonfarm Payroll Employment (NAICS Industry Basis)

NAICS Supersectors: 2017 Share



NAICS Supersectors: 1997 Share



SOURCE: U.S. Bureau of Labor Statistics, Current Employment Statistics (CES).

Largest Employers in Massachusetts. The following inset lists the 19 largest private employers in Massachusetts based upon employment covered by the Unemployment Insurance system for FY 2017. The 2017 list is nearly identical to the 2016 list, except that Big Y Foods, Inc. is now among the top 19 and South Coast Hospitals is no longer in the top listing. The list does not include employers whose headquarters are located outside of Massachusetts, and it may not include some employers who do business in the state under multiple legal names or register each facility as a separate employer.

| Bay State Medical Center, Inc | Partners Healthcare Systems, Inc. |
|---|---|
| Beth Israel Deaconess Medical Center | President and Fellows of Harvard College |
| Big Y Foods, Inc. | Raytheon Company |
| Boston Medical Center Corporation | The Stop & Shop Supermarkets Corporation |
| Boston University | Shaw's Supermarkets, Inc. |
| Brigham & Women's Hospital, Inc. | State Street Bank & Trust Company |
| DeMoulas Supermarkets, Inc | The Children's Hospital Corporation |
| EMC Corporation | The TJX Companies, Inc. |
| General Hospital Corporation | UMass Memorial Medical Center, Inc. |
| Massachusetts Institute of Technology | |
| SOURCE: FY2017 Commonwealth of Massachu p. 205 (http://www.macomptroller.info/comptrol | setts Comprehensive Annual Financial Report (CAFR), |
| | |
| 1 0 1 | nployers reporting large numbers of jobs covered he information is based on the 2016 employment for |
| | ance. The list may not include those employers who do |

Massachusetts Companies in the Fortune 500 List. Massachusetts is home to twelve Fortune 500 companies headquartered here. When comparing the 2018 Fortune 500 list to the 2017 list, seven Massachusetts companies gained and five lost rank. American Tower located in Boston, climbed 30 places on the list, while Springfield-based Mass Mutual Life Insurance fell 16 places. General Electric relocated its headquarters from Fairfield, CT to Boston in May 2017 and leads the top Fortune 500 companies in the state with \$122.3 billion in revenues.

business in Massachusetts under multiple legal corporations and those who register each store, facility or franchise as a separate employer. In addition, Bank of America NA, Home Depot USA, Inc., Massachusetts CVS Pharmacy LLC, Target Corp, United Parcel Service, Inc., Wal-Mart Associates, Inc., and Verizon New England are all large Massachusetts employers, but are headquartered outside of Massachusetts.

| | | Massachusetts Compan | iies in the Fortune 500 | |
|------|------|--------------------------------------|--|-------------|
| Rank | | | | 2018 revenu |
| 2018 | 2017 | Company (location) | Industry | (billio |
| 18 | 13 | General Electric (Boston) | Industrial Machinery | \$12 |
| 68 | 75 | Liberty Mutual Ins. Group (Boston) | Insurance: Property & Casualty (Stock) | \$4 |
| 85 | 87 | TJX (Framingham) | Specialty Retailers: Apparel | \$3 |
| 93 | 77 | Mass. Mutual Life Ins. (Springfield) | Insurance: Life, Health (Mutual) | \$3 |
| 119 | 116 | Raytheon (Waltham) | Aerospace and Defense | \$2 |
| 144 | 154 | Thermo Fisher Scientific (Waltham) | Scientific, Photo & Control Equipment | \$2 |
| 245 | 248 | Biogen (Weston) | Pharmaceuticals | \$1 |
| 259 | 271 | State Street Corp. (Boston) | Commercial Banks | \$1 |
| 328 | 327 | Boston Scientific (Natick) | Medical Products & Equipment | \$ |
| 331 | 334 | Global Partners (Waltham) | Wholesalers: Diversified | \$ |
| 364 | 358 | Eversource Energy (Springfield) | Utilities: Gas and Electric | \$ |
| 419 | 449 | American Tower (Boston) | Real Estate | \$ |

SOURCE: Forbes, June 2018 issue.

Unemployment Insurance Trust Fund. The unemployment insurance system is a federal-state cooperative program established by the Social Security Act and the Federal Unemployment Tax Act to provide for the payment of benefits to eligible individuals when they become unemployed through no fault of their own. Benefits are paid from the Commonwealth's Unemployment Insurance Trust Fund, financed through employer contributions. The assets and liabilities of the Commonwealth Unemployment Insurance Trust Fund are not assets and liabilities of the Commonwealth.

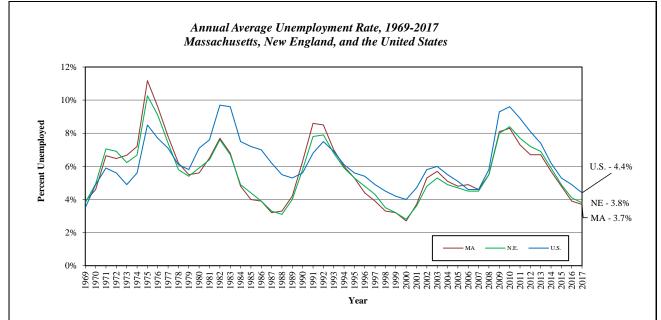
As of February 28, 2018, the preliminary Massachusetts Unemployment Trust Fund had a balance of \$791 million. This balance is the sum of the private contributory account balance of \$681 million and the government contributory portion of \$110 million. This compares to the February 28, 2017 balance of \$779 billion with a private contributory portion of \$666 million. The March 2018 Unemployment Insurance Trust Fund report indicated that the private contributory account balance was estimated to be \$1.161 billion by the end of 2022 according to the Moody's-based outlook.

Unemployment. The unemployment rate in Massachusetts was consistently below or equal to the national average from mid-1995 through September 2005, with similar patterns of gradual improvement after the mid-2003 peak. The Massachusetts rate was greater than or equal to the U.S. rate for 19 months between January 2006 and June 2007, but has not exceeded the U.S. rate since then. The Massachusetts rate peaked at 9.6 percent in January 2010, the same month that the U.S. rate peaked at 10.6 percent. From July 2007 onward, the state rate remained equal to or below the comparable (not seasonally adjusted) U.S. unemployment rate.

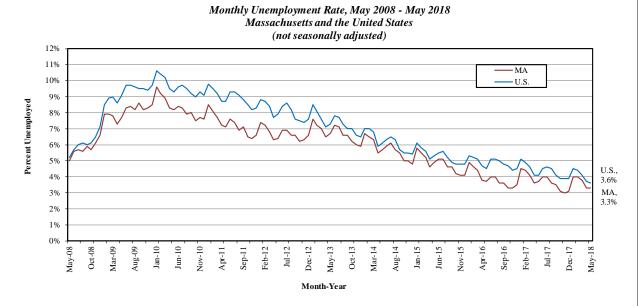
Since reaching 6.7 percent in January 2014, the Massachusetts unemployment rate has gradually declined to 3.3 percent in May 2018, below the national rate of 3.6 percent. The tables and graphs on the following two pages compare the unemployment rate in the state with those in New England and the U.S.

| Ai | nnual | Average | Civilian | | | | employi | ment, 1 | 969-20 | 17 |
|--------------|----------------|----------------|--------------------|------------|------------------------------|------------------|---------------|--------------|--------------|--------------------|
| | | Civilian | Labor- | | thousand I nemploy | | Unem | ploymen | t Rate | MA |
| | | Force | | | | | | | | Rate as Pct. of |
| Year | MA | N.E. | U.S. | MA | N.E. | U.S. | MA | N.E. | U.S. | U.S. |
| 1969 | 2,581 | 5,201 | 80,734 | 100 | 198 | 2,832 | 3.9% | 3.8% | 3.5% | 111.2% |
| | 2,465 | 5,128 | 82,771 | 113 | 253 | 4,093 | 4.6% | 4.9% | 4.9% | 93.7% |
| 1971 | 2,459 | 5,157 | 84,382 | 163 | 364 | 5,016 | 6.6% | 7.1% | 5.9% | 112.7% |
| | 2,487 | 5,260 | 87,034 | 161 | 363 | 4,882 | 6.5% | 6.9% | 5.6% | 115.6% |
| 1973 | 2,557 | 5,387 | 89,429 | 171 | 336 | 4,365 | 6.7% | 6.2% | 4.9% | 136.1% |
| 1974 | 2,637 | 5,514 | 91,949 | 190 | 368 | 5,156 | 7.2% | 6.7% | 5.6% | 128.5% |
| | 2,725 2,722 | 5,633 5,706 | 93,775 96,158 | 305 262 | 578 518 | 7,929 7,406 | 11.2% 9.6% | 9.1% | 8.5% 7.7% | 131.5% 124.7% |
| | 2,763 | 5,821 | 99,009 | 215 | 433 | 6,991 | 7.8% | 7.4% | 7.1% | 109.9% |
| | 2,814 | 5,936 | 102,251 | 175 | 344 | 6,202 | 6.2% | 5.8% | 6.1% | 101.6% |
| 1979 | 2,853 | 6,071 | 102,231 | 157 | 328 | 6,137 | 5.5% | 5.4% | 5.8% | 94.8% |
| | 2,868 | 6,148 | 104,940 | 162 | 363 | 7,637 | 5.6% | 5.9% | 7.1% | 78.9% |
| 1981 | 2,942 | 6,259 | 108,670 | 190 | 403 | 8,273 | 6.5% | 6.4% | 7.6% | 85.5% |
| | 2,987 | 6,341 | 110,204 | 231 | 482 | 10,678 | 7.7% | 7.6% | 9.7% | 79.4% |
| 1983 | 2,997 | 6,392 | 111,550 | 202 | 428 | 10,717 | 6.8% | 6.7% | 9.6% | 70.8% |
| | 3,037 | 6,525 | 113.544 | 145 | 319 | 8,539 | 4.8% | 4.9% | 7.5% | 64.0% |
| | 3,051 | 6,633 | 115,461 | 121 | 289 | 8,312 | 4.0% | 4.4% | 7.2% | 55.6% |
| | 3,066 | 6,726 | 117,834 | 119 | 264 | 8,237 | 3.9% | 3.9% | 7.0% | 55.7% |
| | 3,094 | 6,825 | 119,865 | 100 | 227 | 7,425 | 3.2% | 3.3% | 6.2% | 51.6% |
| | 3,141 | 6,909 | 121,669 | 103 | 216 | 6,701 | 3.3% | 3.1% | 5.5% | 60.0% |
| | 3,176 | 7,007 | 123,869 | 132 | 277 | 6,528 | 4.2% | 4.0% | 5.3% | 79.2% |
| | 3,206 | 7,109 | 125,840 | 202 | 412 | 7,047 | 6.3% | 5.8% | 5.6% | 112.5% |
| 1991 | 3,195 | 7,117 | 126,346 | 275 | 554 | 8,628 | 8.6% | 7.8% | 6.8% | 126.5% |
| 1992 | 3,181 | 7,102 | 128,105 | 269 | 564 | 9,613 | 8.5% | 7.9% | 7.5% | 113.3% |
| 1993 | 3,174 | 7,051 | 129,200 | 222 | 481 | 8,940 | 7.0% | 6.8% | 6.9% | 101.4% |
| 1994 | 3,201 | 7,033 | 131,056 | 193 | 415 | 7,996 | 6.0% | 5.9% | 6.1% | 98.4% |
| 1995 | 3,215 | 7,049 | 132,304 | 170 | 374 | 7,404 | 5.3% | 5.3% | 5.6% | 94.6% |
| 1996 | 3,241 | 7,118 | 133,943 | 144 | 340 | 7,236 | 4.4% | 4.8% | 5.4% | 81.5% |
| 1997 | 3,306 | 7,220 | 136,297 | 130 | 312 | 6,739 | 3.9% | 4.3% | 4.9% | 79.6% |
| 1998 | 3,341 | 7,264 | 137,673 | 110 | 254 | 6,210 | 3.3% | 3.5% | 4.5% | 73.3% |
| 1999 | 3,354 | 7,327 | 139,368 | 107 | 234 | 5,880 | 3.2% | 3.2% | 4.2% | 76.2% |
| 2000 | 3,330 | 7,335 | 142,583 | 90 | 205 | 5,692 | 2.7% | 2.8% | 4.0% | 67.5% |
| 2001 | 3,381 | 7,394 | 143,734 | 126 | 267 | 6,801 | 3.7% | 3.6% | 4.7% | 78.7% |
| | 3,431 | 7,476 | 144,863 | 181 | 360 | 8,378 | 5.3% | 4.8% | 5.8% | 91.4% |
| | 3,422 | 7,504 | 146,510 | 195 | 401 | 8,774 | 5.7% | 5.3% | 6.0% | 95.0% |
| | 3,396 | 7,478 | 147,401 | 175 | 363 | 8,149 | 5.1% | 4.9% | 5.5% | 92.7% |
| | 3,384 | 7,521 | 149,320 | 164 | 352 | 7,591 | 4.8% | 4.7% | 5.1% | 94.1% |
| | 3,413 | 7,605 | 151,428 | 167 | 345 | 7,001 | 4.9% | 4.5% | 4.6% | 106.5% |
| | 3,426 | 7,648 | 153,124 | 158 | 344 | 7,078 | 4.6% | 4.5% | 4.6% | 100.0% |
| | 3,452 | 7,704 | 154,287 | 191 | 426 | 8,924 | 5.5% | 5.5% | 5.8% | 94.8% |
| | 3,470 | 7,729 | 154,142 | 281 | 620 | 14,265 | 8.1% | 8.0% | 9.3% | 87.1% |
| | 3,480 | 7,751 | 153,889 | 289 | 649 | 14,825 | 8.3% | 8.4% | 9.6% | 86.5% |
| | 3,469 | 7,738 7,730 | 153,617 | 252 233 | 597 | 13,747 12,506 | 7.3% | 7.7% 7.2% | 8.9% 8.1% | 82.0% |
| | 3,485 3,513 | 7,730 | 154,975 155,389 | 236 | 559 533 | 11,460 | 6.7% 6.7% | 6.9% | 7.4% | 82.7% 90.5% |
| | 3,566 | 7,799 | 155,922 | 204 | 457 | 9,617 | 5.7% | 5.9% | 6.2% | 91.9% |
| | 3,588 | 7,808 | 157,130 | 172 | 381 | 8,296 | 4.8% | 4.9% | 5.3% | 90.6% |
| | 3,611 | 7,853 | 157,130 | 140 | 326 | 7,751 | 3.9% | 4.1% | 4.9% | 79.6% |
| | 3,657 | 7,922 | 160,320 | 136 | 303 | 6,982 | 3.7% | 3.8% | 4.4% | 84.1% |
| ₽ 01/ | 2,021 | ,,,,,, | 100,520 | 150 | 202 | 0,702 | 2.170 | 2.0/0 | 1.1/0 | 0 1.1 / 0 |

 $SOURCE: U.S.\ Bureau\ of\ Labor\ Statistics,\ Local\ Area\ Unemployment\ Statistics\ (LAUS)\ and\ Current\ Population\ Survey\ (CPS).$



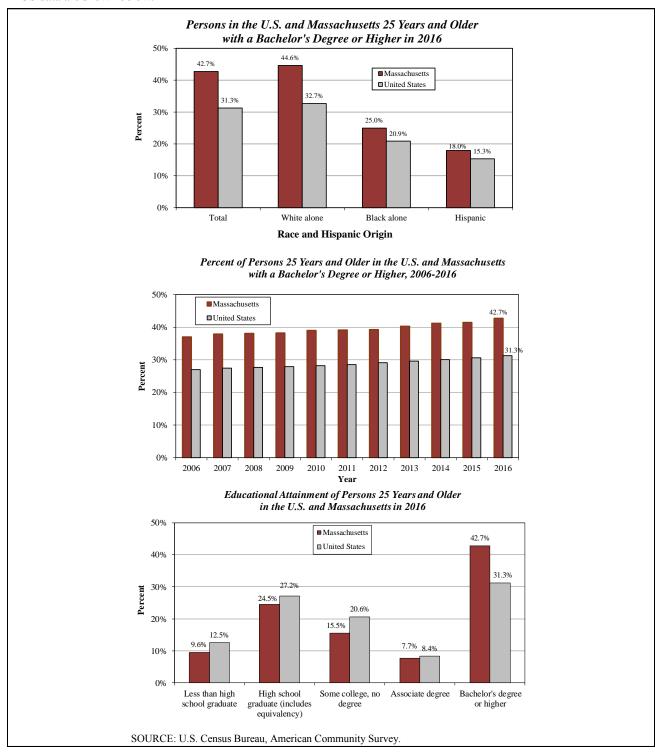
SOURCE: U.S. Bureau of Labor Statistics, Local Area Unemployment Statistics (LAUS).



SOURCES: Massachusetts Executive Office of Labor and Workforce Development and U.S. Bureau of Labor Statistics, Local Area Unemployment Statistics (LAUS).

EDUCATION AND TECHNOLOGY

Educational Attainment. The availability of a skilled and well-educated population is an important resource for the Commonwealth. Only the District of Columbia had a higher percentage of adults with a bachelor's degree or higher in 2016, according to the Census Bureau's American Community Survey (ACS). The Census also reported that Massachusetts ranked 32nd in persons who had not completed high school, at 9.6 percent of the population age 25 or older, less than the national average of 12.5 percent. Massachusetts' black and Hispanic populations achieved college degrees at a lower rate than its white population, but their rates were higher than their national averages. The most current ACS data are shown below.



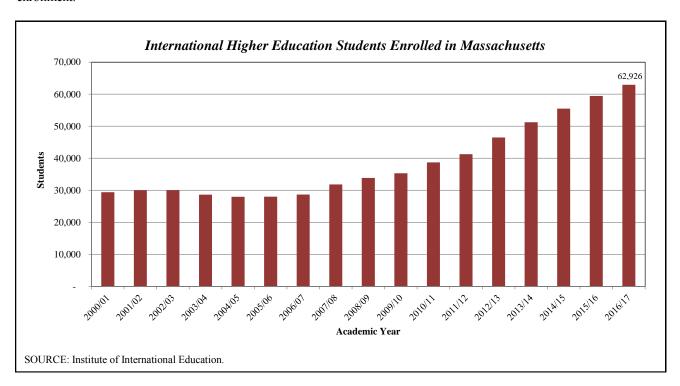
Higher Education Data. The table below compares Massachusetts residents' higher education enrollment by race and Hispanic origin to the U.S. There were 1.0 percent fewer people enrolled in college in the U.S. in 2016 compared to 2015. The proportion of total enrollment in Massachusetts also fell by 1.4 percent.

| Higher Education Enrollment by Race and Hispanic Origin in 2016 | | | | | | |
|---|------------|-------------|-------------|-------------|-----------------|-----------------------|
| | Total | White alone | Black alone | Asian alone | All other races | Hispanic or Latino |
| United States | 22,606,282 | 67.0% | 14.7% | 8.6% | 9.7% | 17.4% |
| Massachusetts | 585,465 | 71.6% | 9.7% | 11.1% | 7.7% | 11.3% |

SOURCE: U.S. Census Bureau, American Community Survey, 2016 1-Year Estimates.

NOTE: The Hispanic or Latino Origin category includes all Hispanics in the population regardless of race and therefore should not be added to the other categories to avoid double-counting races.

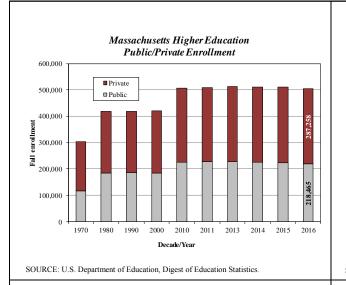
Survey data released by the Institute of International Education state that 62,926 foreign students were enrolled in Massachusetts colleges and universities in the 2016/2017 school year. This was an increase of 5.9 percent from the previous year. The national enrollment increased 3.4 percent. Massachusetts remains fourth ranked among states for foreign student enrollment.



The graphs and table on the following page provide information about higher education enrollment, degrees conferred, and research and development expenditures at colleges and universities.

U.S. Department of Education data show that from 2015 to 2016, higher education enrollment decreased 1 percent in the United States and 1.40 percent at Massachusetts institutions. During the 2000-2016 period, enrollment in public higher education increased 24.1 percent in the United States and 19.2 percent at Massachusetts institutions. Enrollment in private institutions increased 47.7 percent in the United States and 20.8 percent at Massachusetts institutions.

Research and development expenditures at universities and colleges increased 22 percent in the United States and 42 percent in Massachusetts between 2006 and 2016.



Percent Change in Total Higher Education Enrollment Massachusetts and the United States enrollment change from previous period United States 5% Massachusetts 4% 3% 2% 1% 0% -0.7% MA, -1% -2% Fall -3% 2006-07 2008-09 2011-12 2012-13 2013-14 2014-15 2015-16 2010-11 2005-06 2007-08 2009-10 Year SOURCE: U.S. Department of Education, Digest of Education Statistics.

R&D Expenditures at Massachusetts Universities and Colleges,

by Science and Engineering Field: FY 2016

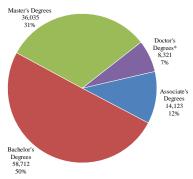
Engineering, 20.7%

All non-S&E fields, 7.3%

Computer and formation sciences, 3.8%

Geosciences, atmospheric sciences, and ocean sciences, 7.4%

Degrees Conferred by Degree-Granting Institutions in Massachusetts, 2015-2016



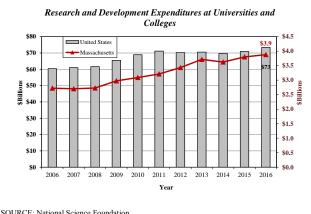
SOURCE: National Science Foundation.

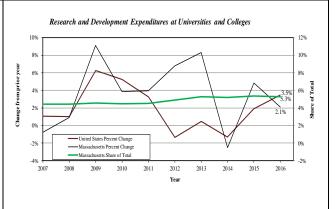
Social sciences, 5.4% Psychology, 1.5%

Physical sciences, 8.9%

statistics, 1.0%

SOURCE: U.S. Department of Education, Digest of Education Statistics. *Includes Ph.D., Ed.D., and comparable degrees at the doctoral level.



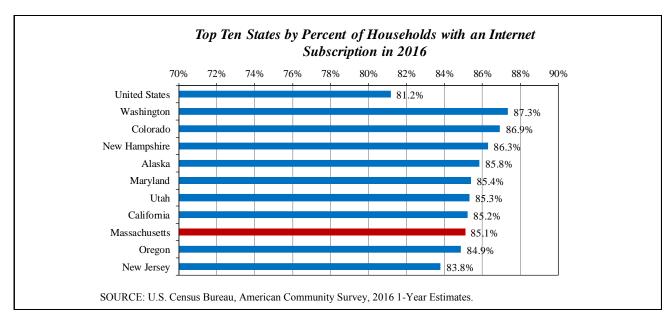


SOURCE: National Science Foundation.

SOURCE: National Science Foundation.

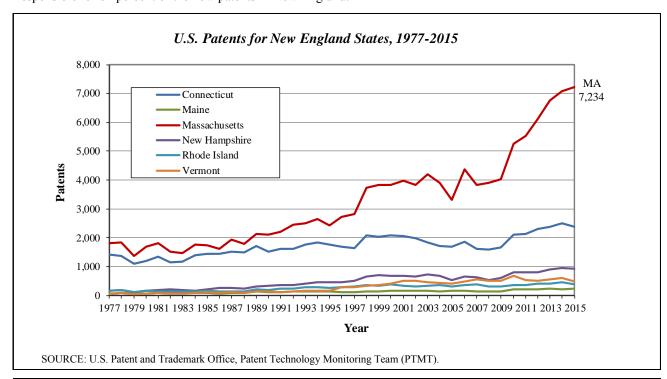
| | Current l | Massachusetts Higher Edu | cation Ran | k Among States and the District of Columbia | |
|------------------|--------------|--------------------------|------------|---|---------|
| Enrollment - 201 | 6 MA Rank | Degrees Awarded - 2016 | MA Rank | Research & Development\$ - FY 2016 | MA Rank |
| Total | 13 | Total | 8 | All R&D expenditures | 6 |
| Public | 23 | Associate's | 22 | Computer and information sciences | 6 |
| Private | 4 | Bachelor's | 8 | Engineering | 2 |
| | | Master's | 5 | Geosciences, atmospheric sciences, and ocean sciences | 5 |
| | | Professional/Doctorate | 7 | Life sciences | 2 |
| | | | | Mathematics and statistics | 7 |
| | | | | Physical sciences | 7 |
| | | | | Psychology | 3 |
| | | | | Sciences, nec | 2 |
| | | | | Social sciences | 7 |
| SOURCE: U.S. DO | DE Digest of | Education Statistics. | | SOURCE: National Science Foundation | |

Internet Access. Massachusetts has the eighth highest household internet subscription rate in the U.S., according to the Census Bureau's 2016 American Community Survey.



Patents. The U.S. Patent and Trademark Office notes: "This report shows the number of U.S. patent documents (i.e., utility patents, design patents, plant patents, reissue patents, defensive publications, and statutory invention registrations) granted since 1977, broken down by the state or country of origin (patent origin is determined by the residence of the first-named inventor)."

In 2015, Massachusetts was fourth among all states for the number of new patents issued. Only six nations originated more U.S. patents than Massachusetts, putting the state on par with Canada for origination of U.S. patents. Since 1977, Massachusetts has received more new patents than any other New England state. With 6,777 new utilities patents and 7,234 total new patents in 2015, a 2.2 percent increase in total patents since 2014, Massachusetts innovators were responsible for 62 percent of the new patents in New England.

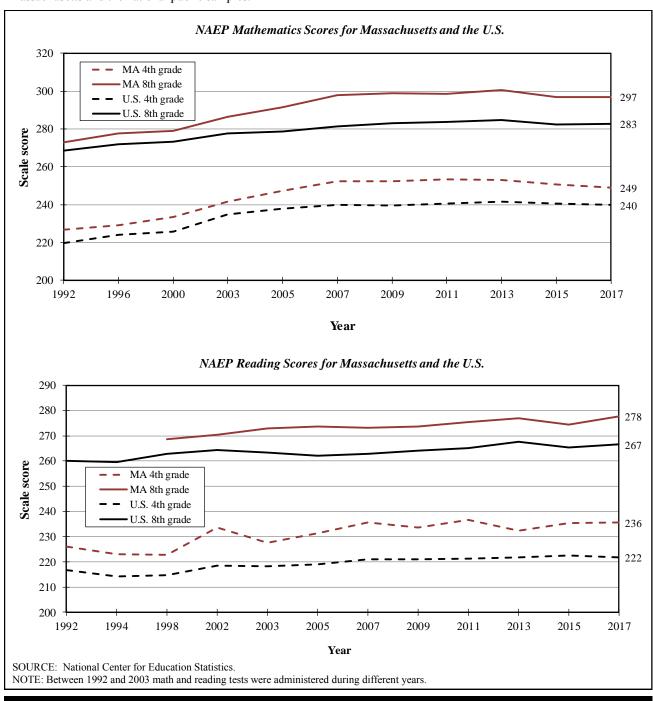


Primary and Secondary Education Expenditures. Massachusetts has spent from 16.5 to 37.0 percent more per pupil on primary and secondary education than the national average since 1994. During the 2015-2016 school year, the average Massachusetts per student expenditures decreased 1.2 percent to \$15,925. Massachusetts was ranked 8th in the nation among states and the District of Columbia in 2016. The table and chart below show expenditures per pupil for Massachusetts and the U.S.

| | 1 ет 1 ири | | 2017 adjusted | e <mark>ntary and Seco</mark> n dollars) | uury Schools | |
|------------------------------|---|----------------------|---------------|---|---------------------------------|----------|
| | | | | Ratio (MA/ | MA change from previous | |
| | Fiscal Year | MA | U.S. | U.S.) | year | |
| | 1994 | \$10,607 | \$8,870 | 1.20 | 2.00/ | |
| | 1995 | \$10,292 | \$8,837 | 1.16 | -3.0% | |
| | 1996 | \$10,809 | \$8,836 | 1.22 | 5.0% | |
| | 1997 | \$10,981 | \$8,983 | 1.22 | 1.6% | |
| | 1998 | \$11,506 | \$9,229 | 1.25 | 4.8% | |
| | 1999 | \$11,926 | \$9,502 | 1.26 | 3.7% | |
| | 2000 | \$12,020 | \$9,731 | 1.24 | 0.8% | |
| | 2001 | \$12,509 | \$10,082 | 1.24 | 4.1% | |
| | 2002 | \$13,429 | \$10,493 | 1.28 | 7.4% | |
| | 2003 | \$13,619 | \$10,683 | 1.27 | 1.4% | |
| | 2004 | \$13,876 | \$10,753 | 1.29 | 1.9% | |
| | 2005 | \$14,141 | \$10,921 | 1.29 | 1.9% | |
| | 2006 | \$14,567 | \$11,111 | 1.31 | 3.0% | |
| | 2007 | \$15,059 | \$11,427 | 1.32 | 3.4% | |
| | 2008 | \$15,317 | \$11,680 | 1.31 | 1.7% | |
| | 2009 | \$16,131 | \$11,995 | 1.34 | 5.3% | |
| | 2010 | \$15,277 | \$11,916 | 1.28 | -5.3% | |
| | 2011 | \$15,192 | \$11,507 | 1.32 | -0.6% | |
| | 2012 | \$15,098 | \$11,325 | 1.33 | -0.6% | |
| | 2013 | \$15,304 | \$11,259 | 1.36 | 1.4% | |
| | 2014 | \$15,622 | \$11,399 | 1.37 | 2.1% | |
| | 2015 | \$16,125 | \$11,781 | 1.37 | 3.2% | |
| | 2016 | \$15,925 | \$12,012 | 1.33 | -1.2% | |
| \$ | 18,000 | | | | | ν. |
| \$ | 16,000 - Massachuse | ts | | | | \$15,925 |
| ure Per Pupil 17 dollars) | 14,000 - 12,000 - 10,000 - \$8,000 - | | | | | \$12,012 |
| | \$4,000 - \$2,000 - \$0 1994 1995 1996 19 | 77 1998 1999 2000 20 | | | 9 2010 2011 2012 2013 2014 2015 | |

National Assessment of Educational Progress (NAEP) scores. The National Assessment of Educational Progress (NAEP), also known as "the Nation's Report Card," is the only nationally representative and continuing assessment of what America's students know and can do in various subject areas. Since 1969, assessments have been conducted periodically in reading, mathematics, science, writing, U.S. history, civics, geography, and the arts. Under the current structure, the Commissioner of Education Statistics, who heads the National Center for Education Statistics in the U.S. Department of Education, is responsible by law for administering the NAEP project.

Since 1990, NAEP assessments have also been conducted to give results for participating states. Those that choose to participate receive assessment results that report on the performance of students in that state. In its content, the state assessment is identical to the assessment conducted nationally. However, because the national NAEP samples were not and are not currently designed to support the reporting of accurate and representative state-level results, separate representative samples of students are selected for each participating jurisdiction/state. The graphs below compare the data available for Massachusetts and the national public samples.



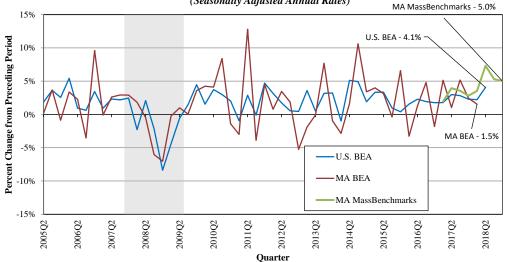
ECONOMIC BASE AND PERFORMANCE—STATE OVERVIEW

Comparing BEA GDP for the U.S., the region, and Massachusetts. The U.S. Bureau of Economic Analysis (BEA) defines Gross Domestic Product by State (GDP) as "the value added in production by the labor and property located in a state. GDP for a state is derived as the sum of the gross state product originating in all industries in a state. In concept, an industry's GDP, referred to as its "value added", is equivalent to its gross output (sales or receipts and other operating income, commodity taxes, and inventory change) minus its intermediate inputs (consumption of goods and services purchased from other U.S. industries or imported)."

The BEA provides national (in January) and state (in June) annual and quarterly GDP estimates. MassBenchmarks releases quarterly estimates of Massachusetts economic activity. This is reported in the following section. While we do not have access to many of the components that BEA uses to calculate state GDP in advance of its release, we provide an overview of our state's components when they are available. Additionally, we provide state economic indexes and industrial sector data that are released more frequently and in some cases, are among the components used to calculate state GDP.

| | State Gross Domestic Product - Annual Change (billions of chained 2009 dollars) | | | | | | |
|------|---|---------------|-------|---------------|----------------------|---------------|--|
| | Mas | Massachusetts | | England | United States | | |
| Year | GDP | Annual change | GDP | Annual change | GDP | Annual change | |
| 2000 | \$348 | | \$725 | | \$12,617 | | |
| 2001 | \$353 | 1.3% | \$736 | 1.5% | \$12,735 | 0.9% | |
| 2002 | \$354 | 0.5% | \$742 | 0.8% | \$12,963 | 1.8% | |
| 2003 | \$362 | 2.2% | \$758 | 2.2% | \$13,296 | 2.6% | |
| 2004 | \$370 | 2.2% | \$785 | 3.6% | \$13,765 | 3.5% | |
| 2005 | \$376 | 1.7% | \$798 | 1.7% | \$14,203 | 3.2% | |
| 2006 | \$383 | 1.7% | \$813 | 1.9% | \$14,585 | 2.7% | |
| 2007 | \$392 | 2.4% | \$830 | 2.1% | \$14,798 | 1.5% | |
| 2008 | \$393 | 0.2% | \$825 | -0.6% | \$14,718 | -0.5% | |
| 2009 | \$386 | -1.8% | \$805 | -2.4% | \$14,320 | -2.7% | |
| 2010 | \$399 | 3.5% | \$821 | 2.0% | \$14,628 | 2.2% | |
| 2011 | \$408 | 2.3% | \$826 | 0.6% | \$14,834 | 1.4% | |
| 2012 | \$416 | 1.8% | \$834 | 0.9% | \$15,126 | 2.0% | |
| 2013 | \$415 | -0.2% | \$830 | -0.5% | \$15,348 | 1.5% | |
| 2014 | \$423 | 1.8% | \$839 | 1.0% | \$15,717 | 2.4% | |
| 2015 | \$439 | 4.0% | \$861 | 2.7% | \$16,148 | 2.7% | |
| 2016 | \$445 | 1.2% | \$869 | 0.9% | \$16,384 | 1.5% | |
| 2017 | \$456 | 2.6% | \$883 | 1.6% | \$16,721 | 2.1% | |





SOURCES: U.S. Bureau of Economic Analysis, MA *Mass*Benchmarks calculations by Dr. Alan Clayton-Matthews. Seasonally adjusted annual rates are quarterly data adjusted to an annual basis.

ECONOMIC BASE AND PERFORMANCE—ECONOMIC INDICATORS

State Coincident Indexes. To track more recent changes in the state and national economies, we use the Federal Reserve Bank of Philadelphia's Coincident Indexes. It:

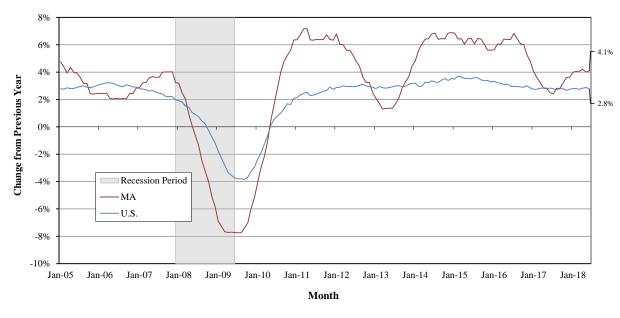
...produces a monthly coincident index for each of the 50 states. The indexes are released a few days after the Bureau of Labor Statistics (BLS) releases the employment data for the states.

The coincident indexes combine four state-level indicators to summarize current economic conditions in a single statistic. The four state-level variables in each coincident index are nonfarm payroll employment, average hours worked in manufacturing, the unemployment rate, and wage and salary disbursements deflated by the consumer price index (U.S. city average). The trend for each state's index is set to the trend of its gross domestic product (GDP), so long term growth in the state's index matches long term growth in its GDP. (https://www.phil.frb.org/research-and-data/regional-economy/indexes/coincident/)

The graph below indicates the state and national index change from 12 months prior. Recent revisions to BLS data that the Philadelphia Federal Reserve Bank uses to construct its indexes resulted in an improved trend for Massachusetts since the recession ended in 2009. The table below compares the Massachusetts index to its New England neighbors and the U.S.

| Comparing the U.S. and New England States Coincident Indexes | | | | | | | | |
|--|--------------|-------------------|-------------------|-----------------|--|--|--|--|
| Area | June 2018 | 1-Month Change | 3-Month Change | 12-Month Change | | | | |
| U.S. | 123.2 | 0.1% | 0.7% | 2.8% | | | | |
| Massachusetts | 136.3 | 0.3% | 1.0% | 4.1% | | | | |
| Connecticut | 123.6 | 0.5% | 1.0% | 3.0% | | | | |
| Maine | 125.0 | -0.2% | 0.0% | 3.7% | | | | |
| New Hampshire | 141.4 | 0.3% | 0.8% | 3.5% | | | | |
| Rhode Island | 123.7 | 0.6% | 1.3% | 2.3% | | | | |
| Vermont | 132.8 | 0.2% | 0.6% | 3.0% | | | | |

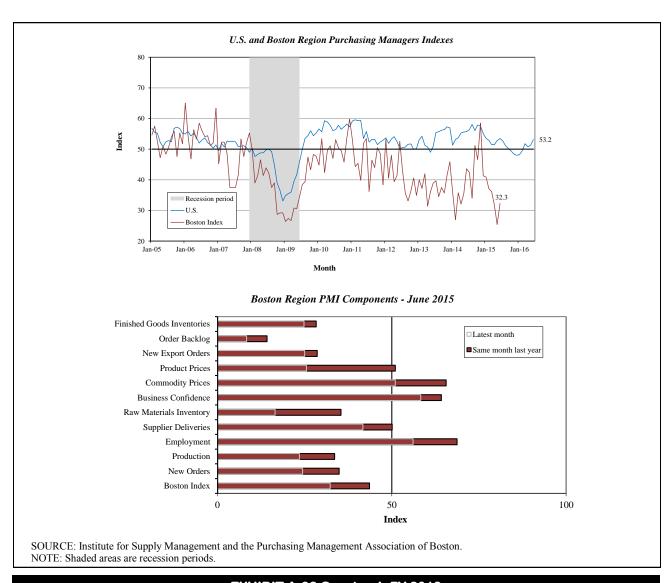
Comparing the U.S. and Massachusetts Coincident Indexes



Institute for Supply Management Purchasing Manager Indexes (PMI). These indexes are compiled using survey data from purchasing and supply executives and are used as a leading business indicator. While the national index is based on a survey of manufacturers, the Boston region's is based on a survey of "companies representing industries as diverse as the banking and financial services, pharmaceuticals and biotechnology, software development and communication, medical products and equipment, computers, chemicals, consumer products, education, and the public sector." It should be noted that the Boston survey has been suspended, and consequently, data from it are not currently being updated.

Index readings above 50 indicate the economy is generally expanding. Readings below 50 indicate the economy is generally contracting, although a reading above 42 for a period of time indicates the economy is generally expanding. Components of the national index include new orders, production, employment, supplier deliveries, inventories, customer inventories, prices, backlog of orders, exports and imports. The Boston region's components are slightly different and include new orders, production, employment, supplier deliveries, raw monthly materials inventory, business confidence, commodity prices, product prices, new export orders, order backlog and finished goods inventories. These components show which segments of the business supply chain are expanding or contracting.

The June 2016 national index indicated that the manufacturing sector has been expanding since December 2015, with the exception of a small dip in April 2016. The Boston region's June 2015 (the last date for which data were available) index of 32.3 indicated that overall business conditions were contracting after hitting a four-year high of 58.5 in November 2014.

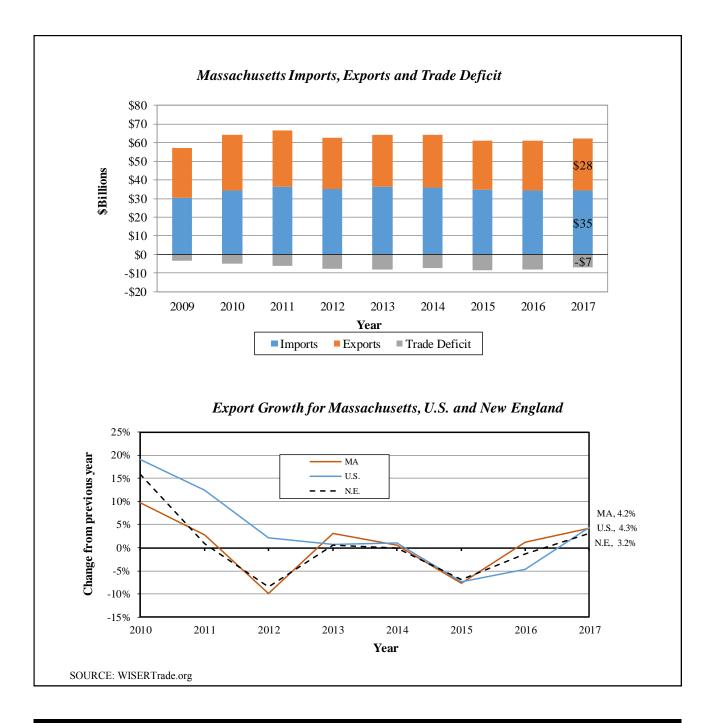


ECONOMIC BASE AND PERFORMANCE—INTERNATIONAL TRADE

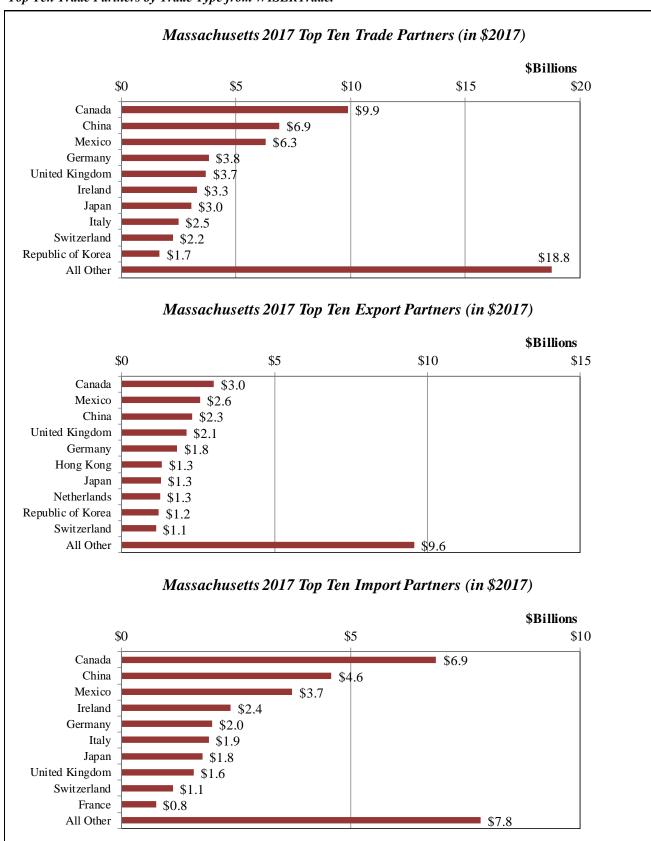
Total Trade Volume. Total trade volume, exports and imports, increased 1.8 percent from 2016 to \$62.1 billion in 2017. Canada's trade volume was \$9.9 billion and, at 15.9 percent of the total state trade, it was by far our most valuable trading partner. Massachusetts trade deficit, \$6.9 billion, decreased 14.0 percent in 2017. See appendix 8 for more trade data.

Exports. Massachusetts ranked 19th in the United States in 2017 and first in New England with \$27.6 billion in exports. This was a 4.2 percent increase from the previous year's export value, while national exports increased by 4.3 percent. Total exports from New England increased by 3.2 percent. Canada was again our top export destination in 2017 with \$3.0 billion.

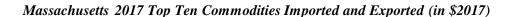
Imports. Imports decreased 0.03 percent to \$34.5 billion in 2017. Canada was also the largest source for Massachusetts imports in 2017, from which we imported \$6.9 billion or 19.9 percent of our total.

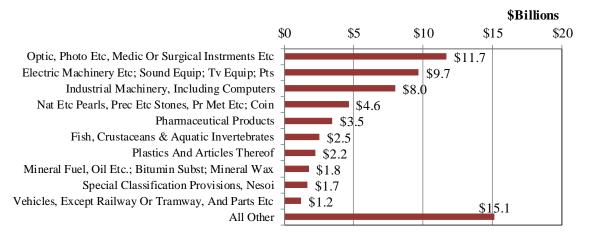


Top Ten Trade Partners by Trade Type from WISERTrade.

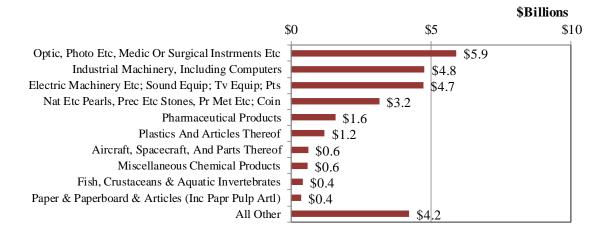


Top Ten Commodities Traded by Trade Type from WISERTrade.

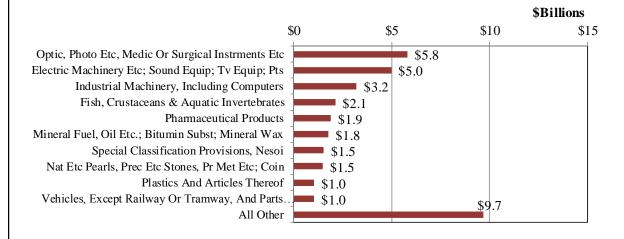




Massachusetts 2017 Top Ten Commodities Exported (in \$2017)

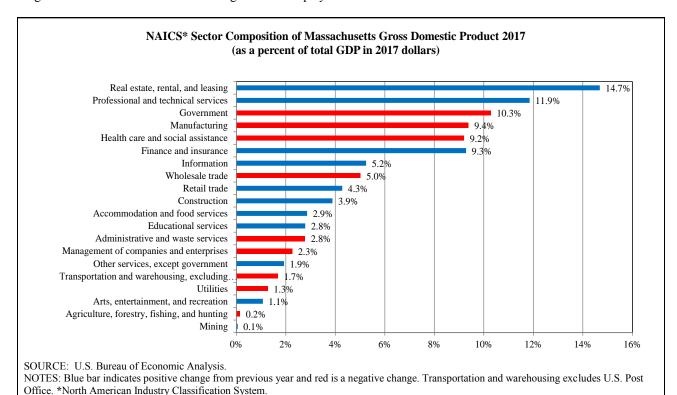


Massachusetts 2017 Top Ten Commodities Imported (in \$2017)



ECONOMIC BASE AND PERFORMANCE—INDUSTRY SECTOR DETAIL (NAICS BASIS)

The Massachusetts economy remains diversified among several industrial and non-industrial sectors. The four largest sectors of the economy are real estate, rental and leasing; professional and technical services; government; and manufacturing, which contributed 46.2 percent of the GDP in 2017. The real estate, rental and leasing sector remained the largest contributor in 2017. The following bar chart displays the latest sector contributions to the Massachusetts GDP.



GDP Subsectors. When measured in inflation-adjusted dollars, the change in Massachusetts total GDP grew 20.2 percent between 2007 and 2017. Between 2007 and 2016 (the latest data available for subsector data), several industries grew much faster than the state average. Industry subsectors that experienced substantial cumulative growth or reduction are listed in the following chart.

| Industry Subsectors with a Substantial Growth or Rea | luction | | | | | | | | |
|--|--------------------------|--|--|--|--|--|--|--|--|
| (2017 dollars) | | | | | | | | | |
| NAICS* Industry Subsector | Percent Change 2007-2016 | | | | | | | | |
| Oil and gas extraction | 245.6% | | | | | | | | |
| Support activities for mining | 224.0% | | | | | | | | |
| Funds, trusts, and other financial vehicles | 162.9% | | | | | | | | |
| Rental and leasing services and lessor of intangible objects | 64.8% | | | | | | | | |
| Performing arts, spectator sports, museums, and related activities | 64.5% | | | | | | | | |
| Social Assistance | 62.4% | | | | | | | | |
| Other transportation equipment manufacturing | -57.8% | | | | | | | | |
| Farms | -53.4% | | | | | | | | |
| SOURCE: U.S. Bureau of Economic Analysis. NOTES: Updated July 2018 Subsector represents at least a half percent of Massachusetts GDP in the lat *North American Industry Classification System. | est year. | | | | | | | | |

| Gross Domestic Product by Industry in Massachusetts (millions of 2017 dollars) | | | | | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| NAICS* Industry Sector | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| All industry total | \$447,894 | \$438,825 | \$440,681 | \$452,627 | \$454,721 | \$463,453 | \$465,172 | \$476,057 | \$507,168 | \$516,462 | \$527,455 |
| Private industries | \$397,247 | \$387,562 | \$388,219 | \$400,025 | \$400,362 | \$411,726 | \$413,234 | \$423,210 | \$452,494 | \$461,800 | \$473,195 |
| Agriculture, forestry, fishing, and hunting | \$1,247 | \$1,219 | \$1,349 | \$1,427 | \$1,202 | \$1,215 | \$1,037 | \$786 | \$825 | \$812 | \$805 |
| Mining | \$294 | \$170 | \$207 | \$188 | \$189 | \$202 | \$215 | \$266 | \$356 | \$401 | \$302 |
| Utilities | \$5,782 | \$6,226 | \$5,363 | \$5,831 | \$5,710 | \$5,525 | \$5,643 | \$5,921 | \$5,875 | \$6,057 | \$6,754 |
| Construction | \$17,803 | \$16,130 | \$14,814 | \$13,945 | \$14,222 | \$15,404 | \$16,286 | \$16,830 | \$18,819 | \$20,011 | \$20,502 |
| Manufacturing | \$51,682 | \$46,242 | \$45,726 | \$48,851 | \$46,743 | \$48,197 | \$47,492 | \$49,071 | \$50,886 | \$49,955 | \$49,502 |
| Wholesale trade | \$24,466 | \$24,544 | \$24,056 | \$24,355 | \$24,038 | \$23,380 | \$23,931 | \$24,771 | \$25,745 | \$25,778 | \$26,495 |
| Retail trade | \$20,744 | \$19,601 | \$19,799 | \$20,285 | \$19,762 | \$19,684 | \$19,919 | \$20,196 | \$21,400 | \$22,130 | \$22,565 |
| Transportation and warehousing, excluding Postal Service | \$7,317 | \$7,010 | \$6,814 | \$7,138 | \$7,422 | \$7,320 | \$7,494 | \$7,892 | \$8,512 | \$8,745 | \$8,905 |
| Information | \$24,219 | \$25,558 | \$24,192 | \$25,978 | \$25,284 | \$24,786 | \$24,306 | \$23,811 | \$26,768 | \$27,498 | \$27,666 |
| Finance and insurance | \$39,765 | \$34,387 | \$37,689 | \$37,826 | \$37,543 | \$42,277 | \$40,959 | \$41,730 | \$48,299 | \$47,634 | \$48,952 |
| Real estate, rental, and leasing | \$62,972 | \$61,123 | \$62,757 | \$64,338 | \$66,260 | \$67,486 | \$67,728 | \$69,558 | \$71,916 | \$74,960 | \$77,469 |
| Professional and technical services | \$46,138 | \$49,687 | \$47,513 | \$48,984 | \$49,702 | \$51,707 | \$51,795 | \$53,333 | \$57,359 | \$59,574 | \$62,510 |
| Management of companies and enterprises | \$10,212 | \$9,804 | \$9,564 | \$9,661 | \$10,834 | \$10,781 | \$11,132 | \$11,218 | \$12,671 | \$11,872 | \$11,944 |
| Administrative and waste services | \$12,892 | \$12,596 | \$11,716 | \$12,187 | \$12,365 | \$12,454 | \$12,723 | \$13,019 | \$13,718 | \$14,010 | \$14,666 |
| Educational services | \$11,263 | \$11,548 | \$12,398 | \$12,777 | \$12,868 | \$13,107 | \$13,213 | \$13,417 | \$13,828 | \$14,374 | \$14,693 |
| Health care and social assistance | \$36,651 | \$38,359 | \$40,403 | \$41,542 | \$41,578 | \$42,979 | \$43,395 | \$44,173 | \$46,386 | \$47,700 | \$48,547 |
| Arts, entertainment, and recreation | \$3,556 | \$3,545 | \$3,807 | \$4,259 | \$4,190 | \$4,132 | \$4,526 | \$5,087 | \$5,354 | \$5,504 | \$5,656 |
| Accommodation and food services | \$10,958 | \$10,827 | \$11,083 | \$11,564 | \$11,659 | \$12,184 | \$12,531 | \$12,861 | \$14,028 | \$14,713 | \$15,081 |
| Other services, except government | \$9,286 | \$8,985 | \$8,966 | \$8,892 | \$8,792 | \$8,908 | \$8,905 | \$9,270 | \$9,749 | \$10,073 | \$10,180 |
| Government | \$50,647 | \$51,263 | \$52,463 | \$52,603 | \$54,358 | \$51,727 | \$51,938 | \$52,847 | \$54,673 | \$54,662 | \$54,260 |

| Rank of Industry Contrib (based on mil | | | | | | ssaci | nuse | etts | | | |
|--|------|------|------|------|------|-------|------|------|------|------|------|
| NAICS* Industry Sector | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| All industry total | | | | | | | | | | | |
| Private industries | | | | | | | | | | | |
| Agriculture, forestry, fishing, and hunting | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| Mining | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Utilities | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Construction | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Manufacturing | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Wholesale trade | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 |
| Retail trade | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Transportation and warehousing, excluding Postal Service | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Information | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 7 |
| Finance and insurance | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 5 |
| Real estate, rental, and leasing | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Professional and technical services | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 |
| Management of companies and enterprises | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Administrative and waste services | 11 | 11 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 | 13 |
| Educational services | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 |
| Health care and social assistance | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 6 |
| Arts, entertainment, and recreation | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Accommodation and food services | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 11 | 11 | 11 |
| Other services, except government | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Government | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |

SOURCE: U.S. Bureau of Economic Analysis. *North American Industry Classification System.

Industry Sector Analysis. The following section contains a summary for each of the twenty major NAICS* sectors. The data series show a ten-year time span. Graphs include data value labels for the latest annual points.

Not all datasets are reported for all of the major NAICS sectors. The Massachusetts Department of Workforce and Labor Development's Employment and Wages (ES-202) data series are available for every sector and contain the number of establishments, average monthly employment, total annual wages and average weekly wages for establishments with employees. The data are reported quarterly and annually for employees in the private, federal government, state government, and local government sectors. **NOTE:** Beginning with the first Quarter 2013, a code change for employees from private households (NAICS 814110) into services for the elderly and persons with disabilities (NAICS 624120) moved 33,960 employees in Massachusetts in January 2013.

The nonemployer businesses and receipts graph uses the U.S. Census Nonemployer Statistics series and is available for every sector except 55 - Management of Companies and Enterprises and 92 - Public Administration. Some sectors also lack subsector (at the four-digit NAICS level) detail. Nonemployer annual data have a two-year reporting lag for businesses that do not have paid employees and are subject to federal income tax. The Census reports that "Nonemployers account for a majority of all business establishments, but average less than four percent of all sales or receipts." These can be second or part-time businesses and not the owner's primary source of income.

State Gross Domestic Product is an annual series from the U.S. Bureau of Economic Analysis's Regional Economic Accounts. For more information, please visit:

http://www.bea.gov/newsreleases/regional/gdp_state/ggsp_newsrelease.htm

Foreign exports from the U.S. Census Bureau's Foreign Trade Division and WISERTrade, are available for four industries on a monthly basis. Total state exports are available on a monthly basis. Sector exports and the top ten export destinations for this industry sector are by dollar value.

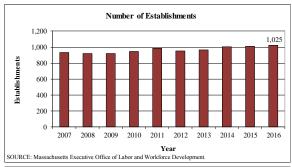
Each sector analysis has a summary at the bottom of each page. The summary provides (when available):

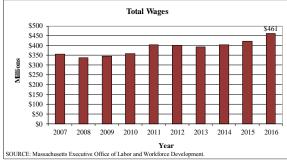
- 1. GDP contribution to state total: this sector's GDP divided by the state's total GDP. A green figure in the text at the bottom of the page indicates it is larger than the previous year's GDP contribution. Red indicates it is smaller than the previous year's and black indicates no change from the previous year's GDP contribution.
- 2. GDP rank: this sector's GDP rank versus all state sectors. A green figure in the text at the bottom of the page indicates that it is higher than the previous year's rank. Red indicates that it is lower than the previous year's and black indicates that there was no change from the previous year's GDP rank.
- 3. Nonemployer to employer establishment ratio: the number of nonemployer establishments divided by the number of establishments with employers. In general, a ratio greater than one means there are more small businesses. A number less than one means there are more large businesses.
- 4. Establishments with employees: the subsector with the largest number of establishments who have employees.
- 5. Nonemployer establishments: the subsector with the largest number of establishments that do not have employees.
- 6. Employees: the subsector with the largest number of employees, at establishments with employees.
- 7. Annual wages: the subsector with the largest total annual wages, at establishments with employees.
- 8. Average weekly wage: the subsector with the largest average weekly wage, at establishments with employees.
- 9. Annual receipts at nonemployer establishments: the subsector with the most receipts, at establishments that do not have employees.
- 10. Most valuable export: the subsector export with the highest dollar value.

Note: Total Wage, State Gross Domestic Product, Average Weekly Wage, Nonemployer Receipts, and Sector Exports are all inflation-adjusted to 2017.

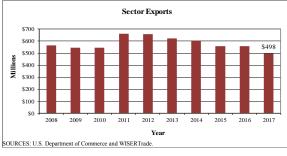
^{*}North American Industry Classification System.

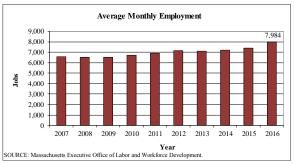
NAICS 11 - Agriculture, Forestry, Fishing & Hunting. The Agriculture, Forestry, Fishing and Hunting sector comprises establishments primarily engaged in growing crops, raising animals, harvesting timber, and harvesting fish and other animals from a farm, ranch, or their natural habitate.

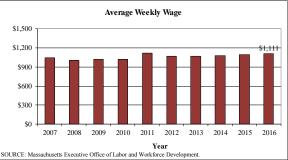


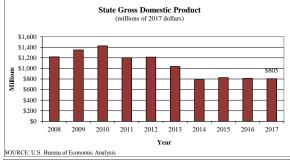


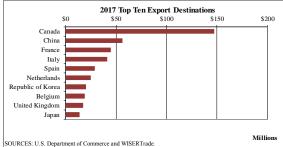












Summary.

GDP contribution to state total: 0.2%

GDP rank: 19 of 20

Nonemployer to employer establishment ratio: 4.5 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

Establishments with employees: **Fishing** Nonemployer establishments: **Fishing**

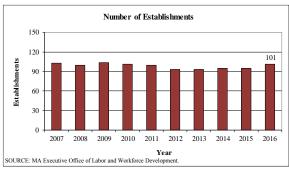
Employees: Greenhouse and nursery production

Annual wages: **Fishing**Average weekly wage: **Fishing**

Annual receipts at nonemployer establishments: **Fishing**

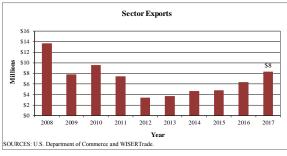
Most valuable export: Fish, Fresh, Chilled, Or Frozen and Other Marine Products

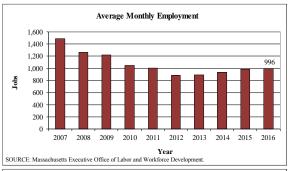
NAICS 21 – Mining. The Mining, Quarrying, and Oil and Gas Extraction sector comprises establishments that extract naturally occurring mineral solids, such as coal and ores; liquid minerals, such as crude petroleum; and gases, such as natural gas. The term mining is used in the broad sense to include quarrying, well operations, beneficiating (e.g., crushing, screening, washing, and flotation), and other preparation customarily performed at the mine site, or as a part of mining activity.

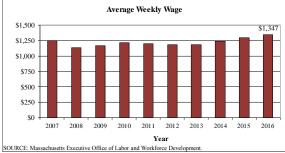


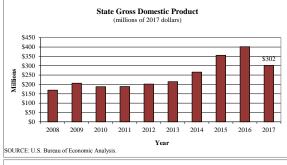


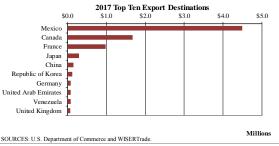












Summary.

GDP contribution to state total: 0.1%

GDP rank: 20 of 20

Nonemployer to employer establishment ratio: 0.8 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

Establishments with employees: Nonmetallic mineral mining and quarrying Nonemployer establishments: Nonmetallic mineral mining and quarrying

Employees: Nonmetallic mineral mining and quarrying

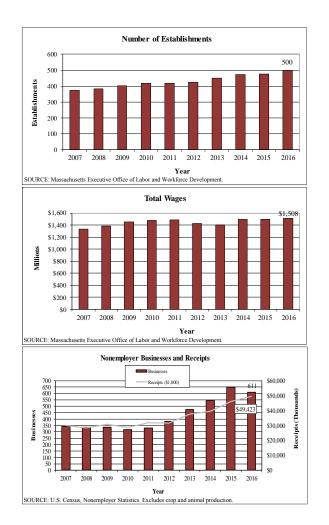
Annual wages: Nonmetallic mineral mining and quarrying

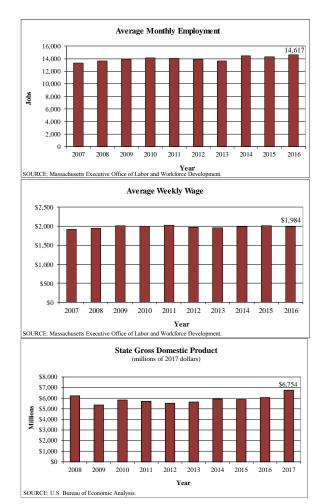
Average weekly wage: Oil and gas extraction

Annual receipts at nonemployer establishments: Nonmetallic mineral mining and quarrying

Most valuable export: Minerals and ores

NAICS 22 – **Utilities.** The Utilities sector comprises establishments engaged in the provision of the following utility services: electric power, natural gas, steam supply, water supply, and sewage removal. See the appendix, pages five and six for supplemental tables regarding electricity generation, supply and capacity.





Summary.

GDP contribution to state total: 1.1%

GDP rank: 17 of 20

Nonemployer to employer establishment ratio: 1.2 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

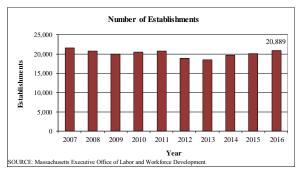
Establishments with employees: Water, sewage and other systems

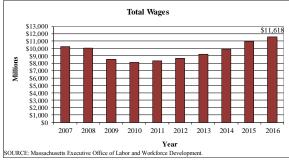
Nonemployer establishments: Subsector detail N/A

Employees: Power generation and supply Annual wages: Power generation and supply Average weekly wage: Power generation and supply

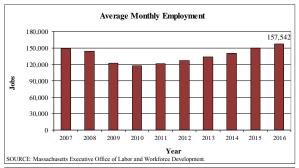
Annual receipts at nonemployer establishments: Subsector detail N/A

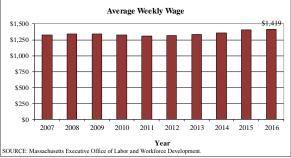
NAICS 23 – Construction. The Construction sector comprises establishments primarily engaged in the construction of buildings or engineering projects (e.g., highways and utility systems). Establishments primarily engaged in the preparation of sites for new construction and establishments primarily engaged in subdividing land for sale as building sites also are included in this sector. See the appendix pages two through four for housing permits, housing sales, and housing sale prices.

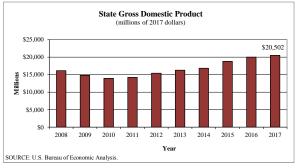












Summary.

GDP contribution to state total: 3.9%

GDP rank: 10 of 20

Nonemployer to employer establishment ratio: 2.7 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

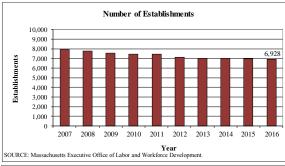
Establishments with employees: **Building equipment contractors** Nonemployer establishments: **Building finishing contractors**

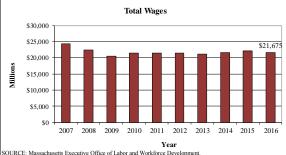
Employees: **Building equipment contractors**Annual wages: **Building equipment contractors**

Average weekly wage: Nonresidential building construction

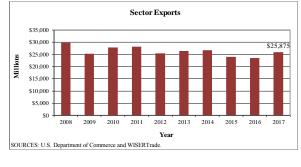
Annual receipts at nonemployer establishments: Residential building construction

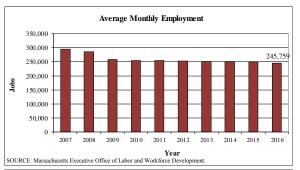
NAICS 31-33 – **Manufacturing.** The Manufacturing sector comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. The assembling of component parts of manufactured products is considered manufacturing, except in cases where the activity is appropriately classified in Sector 23, Construction.

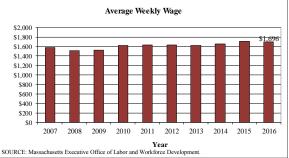


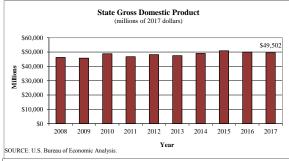


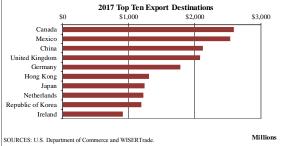












Summary.

GDP contribution to state total: 9.6%

GDP rank: 4 of 20

Nonemployer to employer establishment ratio: 0.9 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

Establishments with employees: Machine shops and threaded products

Nonemployer establishments: Other miscellaneous manufacturing

Employees: Electronic instrument manufacturing

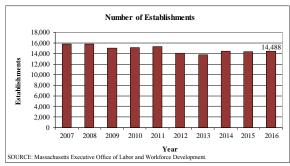
Annual wages: Electronic instrument manufacturing

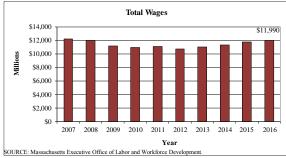
Average weekly wage: Computer and peripheral equipment mfg.

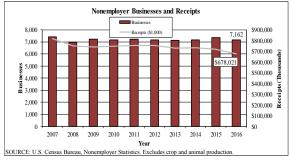
Annual receipts at nonemployer establishments: Other miscellaneous manufacturing

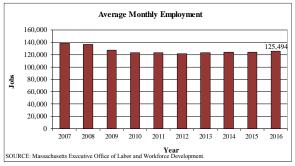
Most valuable export: Computers and electronic products

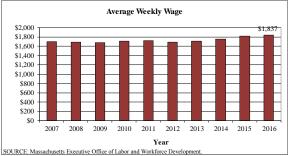
NAICS 42 - Wholesale Trade. The Wholesale Trade sector comprises establishments engaged in wholesaling merchandise, generally without transformation, and rendering services incidental to the sale of merchandise. The merchandise described in this sector includes the outputs of agriculture, mining, manufacturing, and certain information industries, such as publishing. The wholesaling process is an intermediate step in the distribution of merchandise.

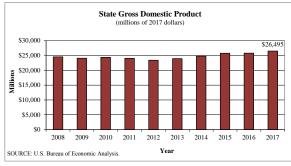












Summary.

GDP contribution to state total: 5.0%

GDP rank: 8 of 20

Nonemployer to employer establishment ratio: 0.5 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

Establishments with employees: Electronic markets and agents/brokers

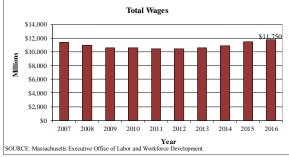
Nonemployer establishments: Miscellaneous durable goods merchant wholesalers

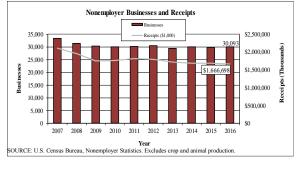
Employees: Electronic markets and agents/brokers
Annual wages: Electronic markets and agents/brokers
Average weekly wage: Druggists' goods merchant wholesalers

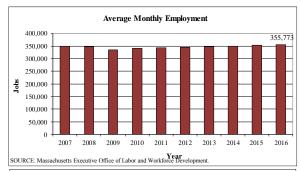
Annual receipts at nonemployer establishments: Miscellaneous durable goods merchant wholesalers

NAICS 44-45 - Retail Trade. The Retail Trade sector comprises establishments engaged in retailing merchandise, generally without transformation, and rendering services incidental to the sale of merchandise. The retailing process is the final step in the distribution of merchandise; retailers are therefore organized to sell merchandise in small quantities to the general public. This sector comprises two main types of retailers: store and nonstore retailers.

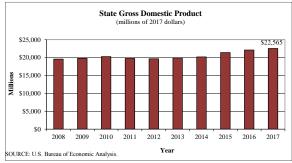












Summary.

GDP contribution to state total: 4.3%

GDP rank: 9 of 20

Nonemployer to employer establishment ratio: 1.3 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

Establishments with employees: Grocery stores

Nonemployer establishments: Direct selling establishments

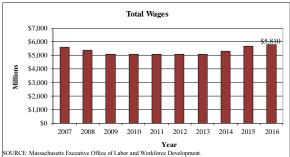
Employees: Grocery stores
Annual wages: Grocery stores

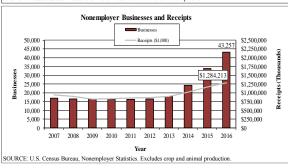
Average weekly wage: Electronic shopping and mail-order houses

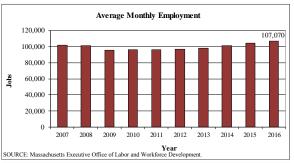
Annual receipts at nonemployer establishments: Direct selling establishments

NAICS 48-49 - Transportation and Warehousing. The Transportation and Warehousing sector includes industries providing transportation of passengers and cargo, warehousing and storage for goods, scenic and sightseeing transportation, and support activities related to modes of transportation. Establishments in these industries use transportation equipment or transportation related facilities as a productive asset. The type of equipment depends on the mode of transportation. The modes of transportation are air, rail, water, road, and pipeline. See pages six and seven of the appendix for more information regarding transportation and warehousing.

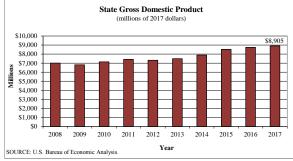












State export data are not available for this sector.

Summary.

GDP contribution to state total: 1.7%

GDP rank: 16 of 20

Nonemployer to employer establishment ratio: 9.1 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

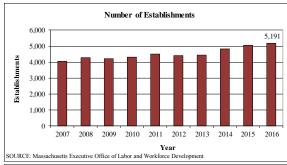
Establishments with employees: General freight trucking Nonemployer establishments: Taxi and limousine service Employees: School and employee bus transportation

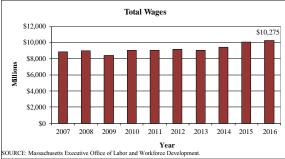
Annual wages: Warehousing and storage

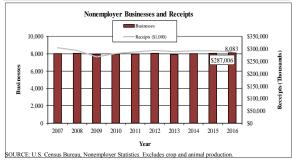
Average weekly wage: Pipeline transportation of natural gas

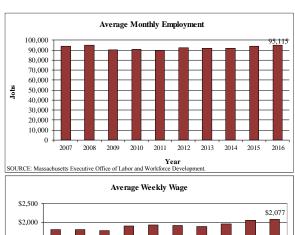
Annual receipts at nonemployer establishments: Taxi and limousine service

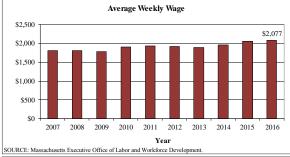
NAICS 51 – Information. The Information sector comprises establishments engaged in the following processes: producing and distributing information and cultural products, providing the means to transmit or distribute these products as well as data or communications, and processing data. In 2014, Information exports of prepackaged software, NAICS code 511, were recoded to the Manufacturing NAICS code 334.

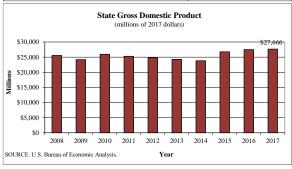












Summary.

GDP contribution to state total: 5.3%

GDP rank: 7 of 20

Nonemployer to employer establishment ratio: 1.6 to 1

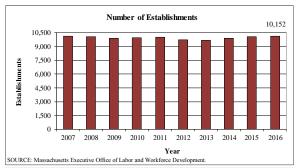
Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

Establishments with employees: **Other information services** Nonemployer establishments: **Other information services**

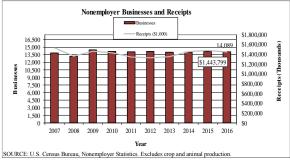
Employees: Software publishers Annual wages: Software publishers Average weekly wage: Software publishers

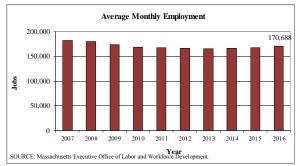
Annual receipts at nonemployer establishments: Other information services

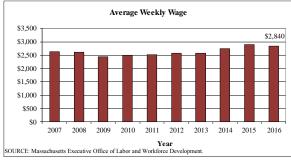
NAICS 52 - Finance and Insurance. The Finance and Insurance sector comprises establishments primarily engaged in financial transactions (transactions involving the creation, liquidation, or change in ownership of financial assets) and/or in facilitating financial transactions.

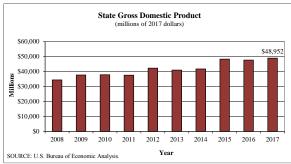












Summary.

GDP contribution to state total: 9.3%

GDP rank: 5 of 20

Nonemployer to employer establishment ratio: 1.4 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

Establishments with employees: Insurance agencies, brokerages & support

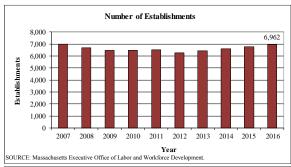
Nonemployer establishments: Other financial investment activities

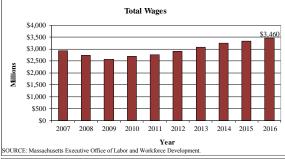
Employees: Depository credit intermediation

Annual wages: Other financial investment activities
Average weekly wage: Other investment pools and funds

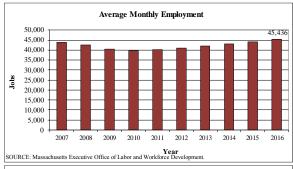
Annual receipts at nonemployer establishments: Other financial investment activities

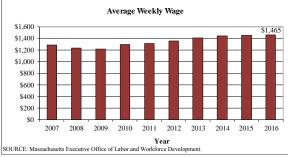
NAICS 53 - Real Estate and Rental and Leasing. The Real Estate and Rental and Leasing sector comprises establishments primarily engaged in renting, leasing, or otherwise allowing the use of tangible or intangible assets, and establishments providing related services. The major portion of this sector comprises establishments that rent, lease, or otherwise allow the use of their own assets by others. The assets may be tangible, as is the case of real estate and equipment, or intangible, as is the case with patents and trademarks.

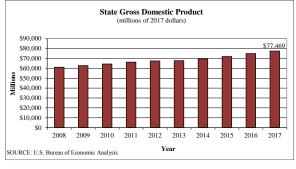












Summary.

GDP contribution to state total: 14.4%

GDP rank: 1 of 20

Nonemployer to employer establishment ratio: 8.3 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

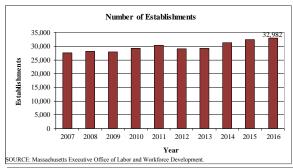
Establishments with employees: Activities related to real estate

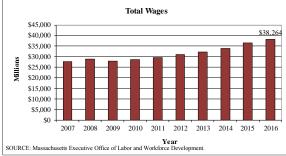
Nonemployer establishments: Lessors of real estate Employees: Activities related to real estate

Annual wages: Activities related to real estate

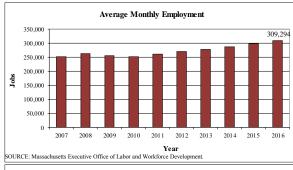
Average weekly wage: Lessors, nonfinancial intangible assets Annual receipts at nonemployer establishments: Lessors of real estate

NAICS 54 - Professional and Technical Services. The Professional and Technical Services sector comprises establishments that specialize in performing professional, scientific, and technical activities for others. These activities require a high degree of expertise and training. The establishments in this sector specialize according to expertise and provide these services to clients in a variety of industries - in some cases, to households. Activities performed include: legal advice and representation, accounting, bookkeeping, and payroll services, architectural, engineering, and specialized design services, computer services, consulting services, research services, advertising services, photographic services, translation and interpretation services, veterinary services, and other professional, scientific, and technical services.

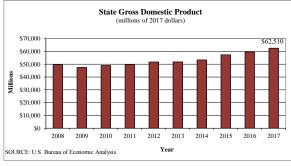












Summary.

GDP contribution to state total: 11.5%

GDP rank: 2 of 20

Nonemployer to employer establishment ratio: 3.0 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

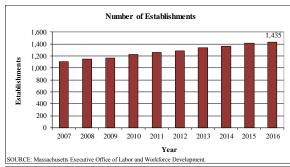
Establishments with employees: Computer systems design and related services Nonemployer establishments: Other professional, scientific, and technical services

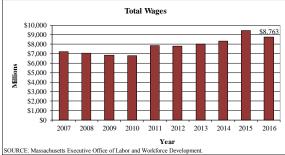
Employees: Computer systems design and related services Annual wages: Computer systems design and related services

Average weekly wage: Scientific research and development services

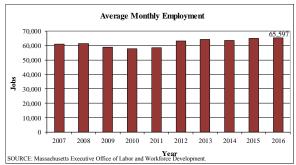
Annual receipts at nonemployer establishments: Other professional, scientific, and technical services

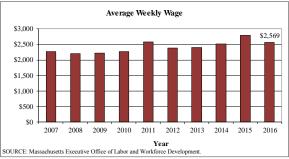
NAICS 55 - Management of Companies and Enterprises. The Management of Companies and Enterprises sector comprises establishments that hold the securities of (or other equity interests in) companies and enterprises for the purpose of owning a controlling interest or influencing management decisions or establishments (except government establishments) that administer, oversee, and manage establishments of the company or enterprise and that normally undertake the strategic or organizational planning and decision making role of the company or enterprise. Establishments that administer, oversee, and manage may hold the securities of the company or enterprise.

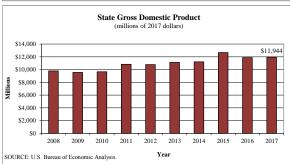




State nonemployer and export data are not available for this sector.







Summary.

GDP contribution to state total: 2.3%

GDP rank: 14 of 20

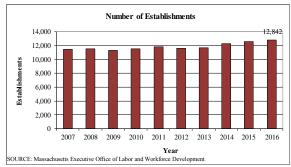
Nonemployer to employer establishment ratio: N/A

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll, and receipts.

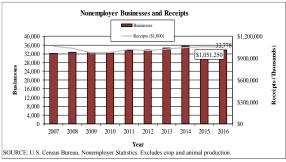
Establishments with employees: Subsector detail N/A

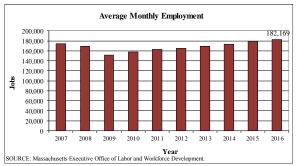
Nonemployer establishments: N/A Employees: Subsector detail N/A Annual wages: Subsector detail N/A Average weekly wage: Subsector detail N/A Annual receipts at nonemployer establishments: N/A

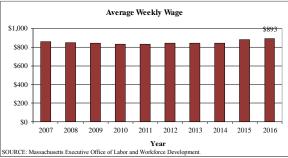
NAICS 56 - Administrative and Waste Services. The Administrative and Waste Services sector comprises establishments performing routine support activities for the day-to-day operations of other organizations. The establishments in this sector specialize in one or more of these support activities and provide these services to clients in a variety of industries and in some cases, to households. Activities performed include: office administration, hiring and placing of personnel, document preparation and similar clerical services, solicitation, collection, security and surveillance services, cleaning, and waste disposal services.

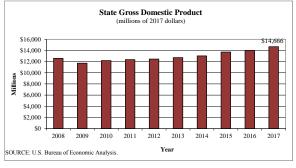












Summary.

GDP contribution to state total: 2.7%

GDP rank: 13 of 20

Nonemployer to employer establishment ratio: 2.6 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

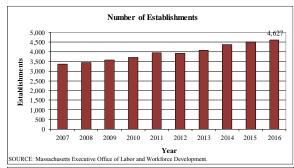
Establishments with employees: Services to buildings and dwellings Nonemployer establishments: Services to buildings and dwellings

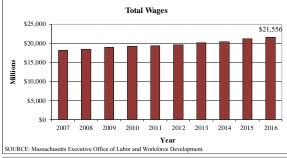
Employees: Employment services
Annual wages: Employment services

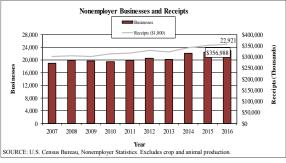
Average weekly wage: Office administrative services

Annual receipts at nonemployer establishments: Services to buildings and dwellings

NAICS 61 - Educational Services. The Educational Services sector comprises establishments that provide instruction and training in a wide variety of subjects. This instruction and training is provided by specialized establishments, such as schools, colleges, universities, and training centers. These establishments may be privately owned and operated for profit or not for profit, or they may be publicly owned and operated. They may also offer food and/or accommodation services to their students.

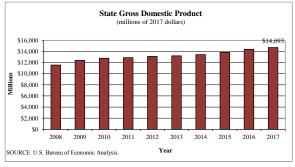












Summary.

GDP contribution to state total: 2.8%

GDP rank: 12 of 20

Nonemployer to employer establishment ratio: 5.0 to 1

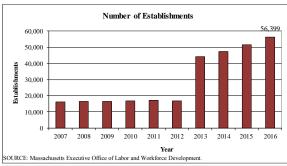
Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

Establishments with employees: Other schools and instruction

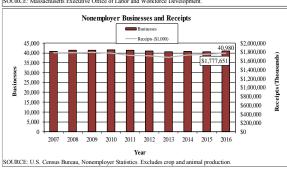
Nonemployer establishments: Subsector detail N/A Employees: Elementary and secondary schools Annual wages: Elementary and secondary schools Average weekly wage: Colleges and universities

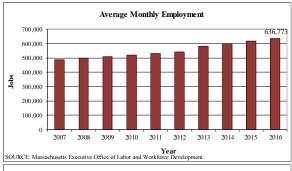
Annual receipts at nonemployer establishments: Subsector detail N/A

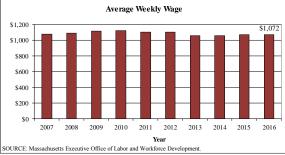
NAICS 62 - Health Care and Social Assistance. The Health Care and Social Assistance sector comprises establishments providing health care and social assistance for individuals. The sector includes both health care and social assistance because it is sometimes difficult to distinguish between the boundaries of these two activities. Note: Beginning with the first Quarter 2013, a code change for employees from private households (NAICS 814110) into services for the elderly and persons with disabilities (NAICS 624120) moved 33,960 employees in Massachusetts in January 2013.

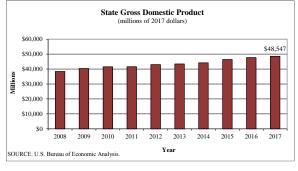












Summary.

GDP contribution to state total: 9.2%

GDP rank: 6 of 20

Nonemployer to employer establishment ratio: 0.7 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

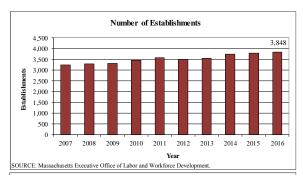
Establishments with employees: **Individual and family services**Nonemployer establishments: **Offices of other health practitioners**

Employees: General medical and surgical hospitals
Annual wages: General medical and surgical hospitals

Average weekly wage: Offices of physicians

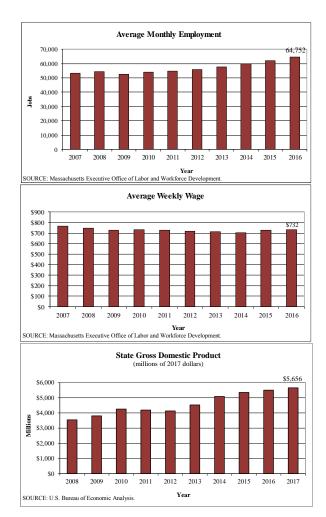
Annual receipts at nonemployer establishments: Offices of other health practitioners

NAICS 71 - Arts, Entertainment, and Recreation. The Arts, Entertainment, and Recreation sector includes a wide range of establishments that: operate facilities or provide services to meet varied cultural, entertainment, and recreational interests of their patrons, are involved in producing, promoting, or participating in live performances, events, or exhibits intended for public viewing, preserve and exhibit objects and sites of historical, cultural, or educational interest and operate facilities or provide services that enable patrons to participate in recreational activities or pursue amusement, hobby, and leisure-time interests. See the appendix page six for travel and tourism information.









Summary.

GDP contribution to state total: 1.0%

GDP rank: 18 of 20

Nonemployer to employer establishment ratio: 9.4 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

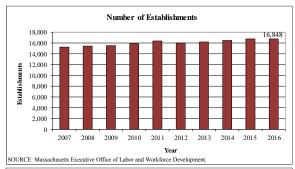
Establishments with employees: Other amusement & recreation industries Nonemployer establishments: Independent artists, writers, and performers

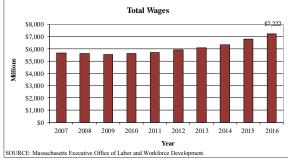
Employees: Other amusement & recreation industries
Annual wages: Other amusement & recreation industries

Average weekly wage: Spectator sports

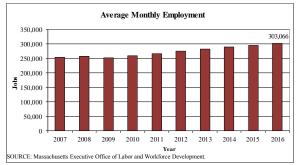
Annual receipts at nonemployer establishments: Independent artists, writers, and performers

NAICS 72 - Accommodation and Food Services. The Accommodation and Food Services sector comprises establishments providing customers with lodging and/or preparing meals, snacks, and beverages for immediate consumption. The sector includes both accommodation and food services establishments because the two activities are often combined at the same establishment.

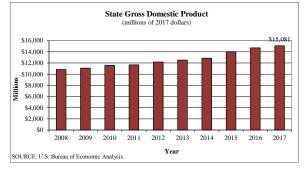












Summary.

GDP contribution to state total: 2.9%

GDP rank: 11 of 20

Nonemployer to employer establishment ratio: 0.4 to 1

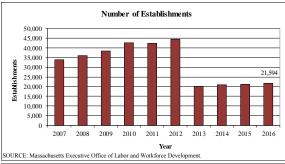
Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

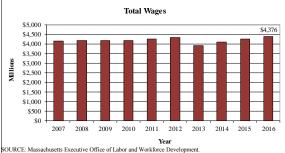
Establishments with employees: Restaurants and other eating places

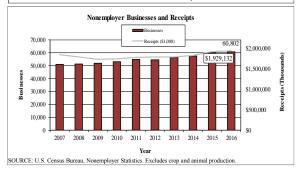
Nonemployer establishments: **Special food services** Employees: **Restaurants and other eating places** Annual wages: **Restaurants and other eating places** Average weekly wage: **Traveler accommodation**

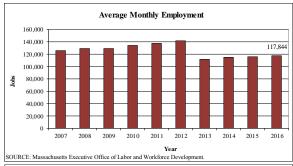
Annual receipts at nonemployer establishments: Restaurants and other eating places

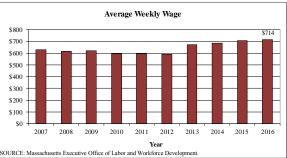
NAICS 81 - Other Services, Except Public Administration. The Other Services (except Public Administration) sector comprises establishments engaged in providing services not specifically provided for elsewhere in the classification system. Establishments in this sector are primarily engaged in activities such as equipment and machinery repairing, promoting or administering religious activities, grant-making, advocacy, providing dry cleaning and laundry services, personal care services, death care services, pet care services, photofinishing services, temporary parking services, and dating services. **Note:** Beginning with the first Quarter 2013, a code change for employees from private households (NAICS 814110) into services for the elderly and persons with disabilities (NAICS 624120) moved 33,960 employees in Massachusetts in January 2013.

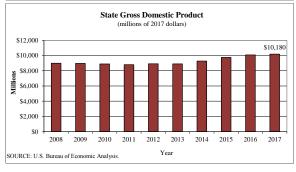












Summary.

GDP contribution to state total: 2.0%

GDP rank: 15 of 20

Nonemployer to employer establishment ratio: 2.8 to 1

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

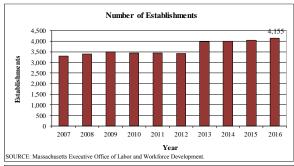
Establishments with employees: **Private households** Nonemployer establishments: **Other personal services**

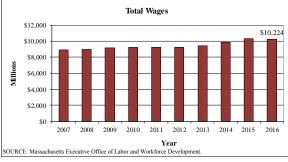
Employees: Personal Care Services

Annual wages: Automotive repair and maintenance

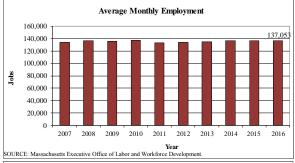
Average weekly wage: **Electronic equipment repair/maintenance** Annual receipts at nonemployer establishments: **Other personal services**

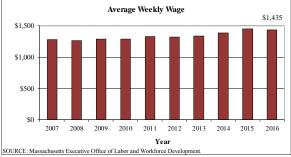
NAICS 92 - Public Administration. The Public Administration sector consists of establishments of federal, state, and local government agencies that administer, oversee, and manage public programs and have executive, legislative, or judicial authority over other institutions within a given area. These agencies also set policy, create laws, adjudicate civil and criminal legal cases and provide for public safety and national defense.

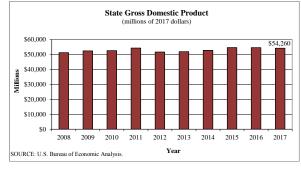




State nonemployer and export data are not available for this sector.







Summary.

GDP contribution to state total: 10.7%

GDP rank: 3 of 20

Nonemployer to employer establishment ratio: N/A

Sector leaders. Industry subsectors with the majority of establishments, employees, payroll and receipts.

Establishments with employees: Justice, public order, and safety activities

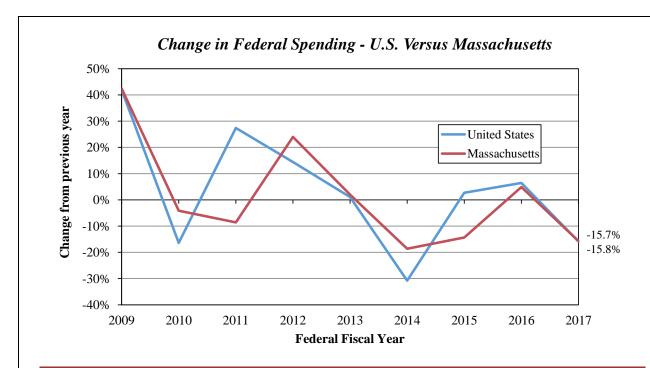
Nonemployer establishments: N/A

Employees: Justice, public order, and safety activities
Annual wages: Justice, public order, and safety activities
Average weekly wage: Justice, public order, and safety activities

Annual receipts at nonemployer establishments: N/A

ECONOMIC BASE AND PERFORMANCE—GOVERNMENT REVENUES AND SPENDING

Federal Spending in Massachusetts. Massachusetts received approximately \$53.6 billion in contracts, grants, direct payments, insurance, loans and guarantees, and other spending from the federal government in federal fiscal year (FFY) 2017. Massachusetts received 2.0 percent of all federal spending in FFY 2017 versus 2.0 percent in FFY 2016. Federal dollars to Massachusetts have dropped since FFY 2012. Massachusetts federal contracts declined from FFY 2012 to FFY 2014, increased 5.2 percent in FFY 2015, declined 3.9 percent in FFY 2016, and declined 1.2 percent in FFY 2017. The proportion of all Massachusetts federal contracts has averaged 2.9 percent over the last ten years.

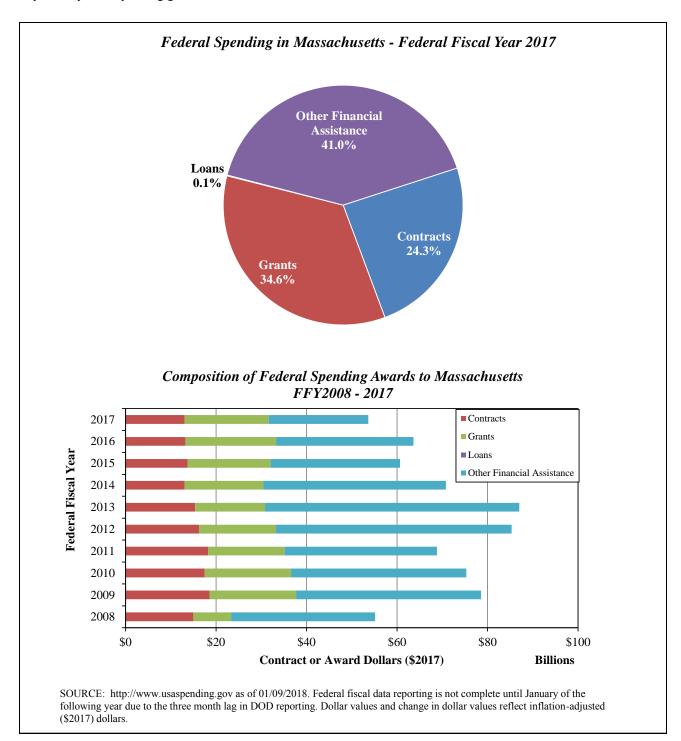


| Federal Spending in the United States and Massachusetts (in Billions of 2017 adjusted dollars) | | | | | | | | | | | |
|---|---------------|------------|---------------|------------|--|--|--|--|--|--|--|
| Federal Fiscal Year | Massachusetts | YOY change | United States | YOY change | | | | | | | |
| 2008 | \$55.1 | | \$2,372.1 | | | | | | | | |
| 2009 | \$78.5 | 42.4% | \$3,367.2 | 42.0% | | | | | | | |
| 2010 | \$75.3 | -4.2% | \$2,814.0 | -16.4% | | | | | | | |
| 2011 | \$68.8 | -8.6% | \$3,585.4 | 27.4% | | | | | | | |
| 2012 | \$85.3 | 24.0% | \$4,102.1 | 14.4% | | | | | | | |
| 2013 | \$87.0 | 2.0% | \$4,145.2 | 1.1% | | | | | | | |
| 2014 | \$70.8 | -18.6% | \$2,868.3 | -30.8% | | | | | | | |
| 2015 | \$60.7 | -14.3% | \$2,945.7 | 2.7% | | | | | | | |
| 2016 | \$63.6 | 4.8% | \$3,136.2 | 6.5% | | | | | | | |
| 2017 | \$53.6 | -15.7% | \$2,639.5 | -15.8% | | | | | | | |

SOURCE: http://www.usaspending.gov as of 01/09/18.

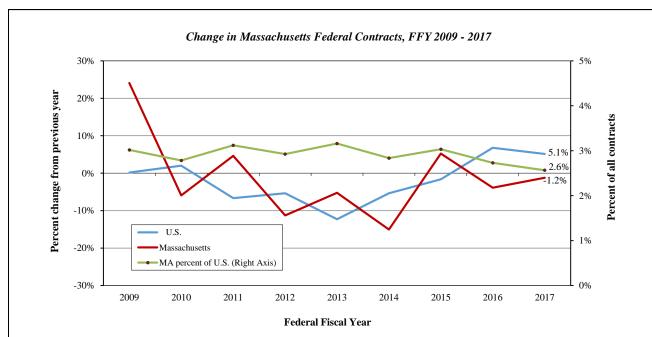
NOTE: Federal fiscal data reporting is not complete until January of the following year due to the three month lag in DOD reporting. Dollar values and change in dollar values reflect inflation-adjusted (\$2017) dollars.

In FFY 2017, the largest portion of federal spending in Massachusetts, 41.0 percent, was for Other Financial Assistance which includes direct payments to individuals (such as Medicare and food stamps), insurance payments (such as unemployment benefits, flood insurance), and other types of assistance payments (such as reimbursements for prescriptions for veterans). Other Financial Assistance decreased 27.5 percent, Contracts decreased 1.2 percent, and Grants increased 628.3 percent from FFY 2016. The graphs below describe the most recent complete fiscal year and the last nine years of federal spending in Massachusetts, including the most recent data for the current fiscal year as reported by USASpending.gov.



Federal Contracts. The table and graph below compare the annual summary of federal contracts performed in Massachusetts to the total contracts awarded by the federal government. In FFY 2017, the latest full year available, 2.6 percent of all federal contract work was performed in Massachusetts. This is slightly less than the 2.9 percent average it has been receiving over the last ten years.

The following two pages summarize the federal contracts by top products or services, funding agencies and sub agencies, contractors and sub-awardees, over the long-term and the latest complete federal fiscal year. The work was primarily performed in Massachusetts and the vendors who were awarded the contracts may or may not have been located in Massachusetts.



Federal Contracts Performed in Massachusetts as a Percent of all Federal Contracts (in millions of 2017 adjusted dollars) Federal Fiscal MA percent increase MA portion of all U.S. percent increase U.S. Massachusetts from previous year federal contracts from previous year Year 2008 \$14,979 2.4% \$615,043 2009 24.1% 3.0% \$616,013 0.2% \$18,587 -5.9% 2010 \$17,483 2.8% \$628,335 2.0% 2011 4.6% -6.7% \$18,289 3.1% \$586,384 2012 2.9% \$16,225 -11.3% \$554,847 -5.4% 2013 \$15,373 -5.3% 3.2% \$486,732 -12.3% 2014 \$13,058 -15.1% 2.8% \$460,650 -5.4% 2015 \$13,742 5.2% 3.0% \$453,190 -1.6% 2016 \$13,209 -3.9% 2.7% \$483,872 6.8% 2017 \$13,046 -1.2% 2.6% \$508,763 5.1% Total \$153,991 \$5,393,828

SOURCE: http://www.usaspending.gov as of 01/09/2018. Federal fiscal data reporting is not complete until January of the following year due to the three month lag in DOD reporting. Dollar values and change in dollar values reflect inflation-adjusted (\$2017) dollars.

Summary of Federal Contracts Performed in Massachusetts

FFY 2008 to FFY 2017

Total Dollars: \$153,991,433,809

Number of Transactions: 1,256,077

Top 5 Prime Award Contractors

| Raytheon Company | \$40,724,449,465 |
|---------------------------------------|------------------|
| General Electric Company | \$13,822,379,724 |
| Massachusetts Institute of Technology | \$10,708,158,080 |
| General Dynamics Corporation | \$8,527,199,074 |
| Coins 'N Things Inc. | \$6,169,406,702 |

Top 5 Contract Sub-Awardees

| Cobham Plc | \$2,488,379,776 |
|--|-----------------|
| Bae Systems Information And Electronic Systems Integration, Inc. | \$907,074,932 |
| General Dynamics Advanced Information Systems, Inc. | \$449,083,136 |
| Raytheon Company | \$329,487,036 |
| Charles Stark Draper Laboratory, Inc. | \$261,043,406 |

SOURCE: http://www.usaspending.gov as of 01/09/2018. Annual federal fiscal data reporting is not complete until January of the following year due to the three month lag in DOD reporting. Dollar values reflect inflation-adjusted (\$2017) dollars.

Federal Contracts Performed in Massachusetts

Federal Fiscal Year: 2017

Total Contract Funds Awarded: \$13,046,218,551
Total Contract Funds to Sub-Awardees: \$773,616,451

This amount is 2.6% percent of all dollars awarded nationally for the federal fiscal year.

Number of Transactions: 113,249

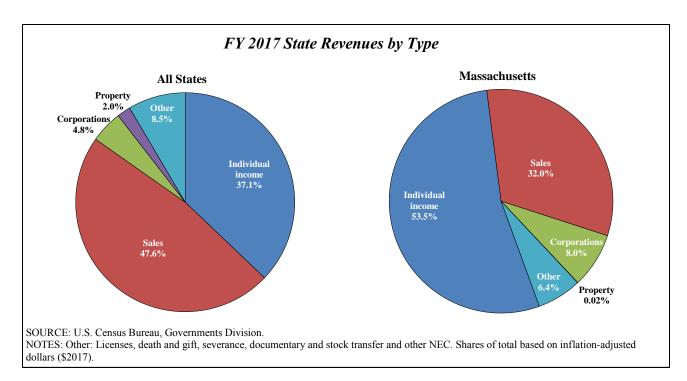
| Top 5 Prime Award Contractors | |
|---------------------------------------|-----------------|
| Raytheon Company | \$3,570,290,325 |
| General Electric Company | \$1,405,951,812 |
| Massachusetts Institute of Technology | \$1,071,413,627 |
| Charles Stark Draper Laboratory, Inc. | \$365,002,441 |
| General Dynamics C4 Systems, Inc. | \$333,531,675 |

| Top 5 Contract Sub-Awardees | |
|---------------------------------------|--------------|
| Charles Stark Draper Laboratory, Inc. | \$71,291,317 |
| Rolls-Royce Holdings Plc | \$49,528,498 |
| AECOM | \$40,682,429 |
| Qinetiq Holdings Limited | \$39,575,123 |
| Ultra Electronics Holdings Plc | \$29,767,778 |

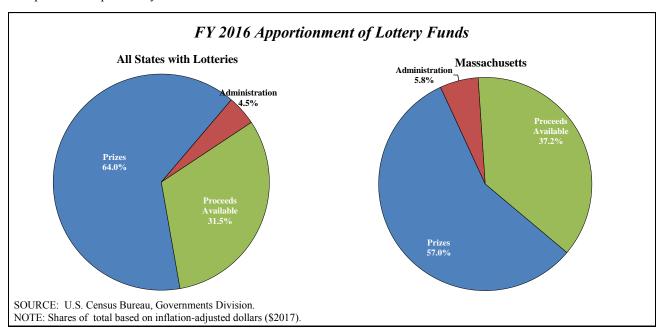
SOURCE: http://www.usaspending.gov as of 01/09/2018. Annual federal fiscal data reporting is not complete until January of the following year due to the three month lag in DOD reporting. Dollar values reflect inflation-adjusted (\$2017) dollars.

State Revenues. Taxes collected by all states in FY 2017 totaled \$950.5 billion, 0.05 percent increase over than FY 2016. Massachusetts collected \$27.5 billion in FY 2017, 1.2 percent less than in FY 2016. Massachusetts ranked tenth in the nation in total taxes collected in 2017.

In FY 2017, the national average of tax collection from individual income tax and sales and gross receipts tax was 84.8 percent of total revenue. Massachusetts collected most of its revenue, 53.5 percent, from individual income taxes while overall states collected 37.1 percent of their revenue from individual income tax. Seven states do not have an individual income tax.



State Lottery Proceeds. Massachusetts ranked fourth in revenue, \$5.35 billion, and fourth in prize money awarded, \$278.7 million, among the 43 states with lotteries in FY 2016. Massachusetts lottery revenue increased 3.3 percent compared to the previous year.



State Expenditures. The following tables and graph depict FY 2016 per capita state government general expenditures in inflation-adjusted dollars by category for the six New England states and the U.S. average state expenditures. Massachusetts ranked eighth in the nation in per capita expenditures, \$9,463 in 2016, while it ranked sixth and spent \$9,075 in 2012. This represents a 5.4 percent increase in per capita expenditures from 2012 levels, with the largest per capita dollar increase in the Health and Hospitals function.

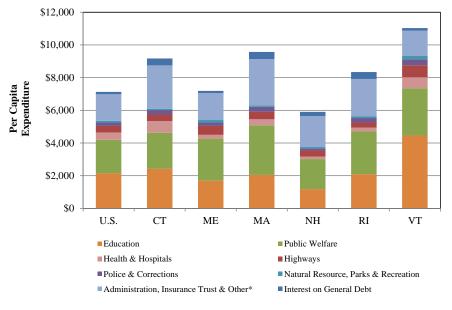
| Massachusetts Per Capita State Government General Expenditures, by Type | | | | | | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| General expenditures, by function | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| Education | \$1,689 | \$1,704 | \$1,939 | \$1,877 | \$1,983 | \$2,039 | \$2,034 | \$2,080 | \$2,041 | \$2,067 | \$2,011 | \$2,025 |
| Public Welfare | \$2,157 | \$2,241 | \$2,219 | \$2,222 | \$2,319 | \$2,364 | \$2,427 | \$2,439 | \$2,440 | \$2,555 | \$2,864 | \$3,005 |
| Health & Hospitals | \$222 | \$228 | \$268 | \$269 | \$271 | \$265 | \$268 | \$257 | \$257 | \$251 | \$310 | \$362 |
| Highways | \$346 | \$318 | \$316 | \$393 | \$336 | \$335 | \$315 | \$331 | \$315 | \$342 | \$431 | \$448 |
| Police & Corrections | \$279 | \$301 | \$323 | \$333 | \$336 | \$314 | \$299 | \$296 | \$302 | \$313 | \$306 | \$302 |
| Natural Resource, Parks & Recreation | \$95 | \$98 | \$103 | \$101 | \$110 | \$102 | \$97 | \$87 | \$98 | \$96 | \$102 | \$97 |
| Administration, Insurance Trust & Other* | \$2,083 | \$2,055 | \$2,234 | \$2,164 | \$2,429 | \$2,875 | \$2,711 | \$3,090 | \$2,996 | \$2,908 | \$3,169 | \$2,794 |
| Interest on General Debt | \$546 | \$592 | \$612 | \$635 | \$641 | \$587 | \$516 | \$496 | \$455 | \$412 | \$443 | \$430 |
| Total | \$7,418 | \$7,536 | \$8,014 | \$7,996 | \$8,424 | \$8,881 | \$8,667 | \$9,075 | \$8,904 | \$8,944 | \$9,637 | \$9,463 |

SOURCE: U.S. Census Bureau, Governments Division

Now in factfinder: http://factfinder.census.gov/bkmk/table/1.0/en/SGF/2013/SGF003

| - | Fiscal Year 2016 Per Capita State Government General Expenditures, by Type (for the U.S. and the New England States) | | | | | | | | | | | |
|---|---|---------|---------|---------|---------|---------|----------|--|--|--|--|--|
| (for the O.S. and the ivew England States) | | | | | | | | | | | | |
| General expenditures, by function | U.S. | CT | ME | MA | NH | RI | VT | | | | | |
| Education | \$2,123 | \$2,428 | \$1,690 | \$2,025 | \$1,168 | \$2,086 | \$4,480 | | | | | |
| Public Welfare | \$2,003 | \$2,199 | \$2,555 | \$3,005 | \$1,817 | \$2,604 | \$2,899 | | | | | |
| Health & Hospitals | \$453 | \$712 | \$230 | \$362 | \$158 | \$240 | \$668 | | | | | |
| Highways | \$390 | \$402 | \$547 | \$448 | \$363 | \$304 | \$744 | | | | | |
| Police & Corrections | \$214 | \$266 | \$201 | \$302 | \$140 | \$273 | \$373 | | | | | |
| Natural Resource, Parks & Recreation | \$98 | \$86 | \$158 | \$97 | \$69 | \$96 | \$202 | | | | | |
| Administration, Insurance Trust & Other* | \$1,596 | \$2,647 | \$1,632 | \$2,794 | \$1,882 | \$2,287 | \$1,543 | | | | | |
| Interest on General Debt | \$140 | \$425 | \$140 | \$430 | \$250 | \$423 | \$168 | | | | | |
| Total | \$7,019 | \$9,166 | \$7,154 | \$9,463 | \$5,847 | \$8,313 | \$11,077 | | | | | |
| State's rank of total per capita expenditures | | 9 | 27 | 8 | 43 | 14 | 3 | | | | | |

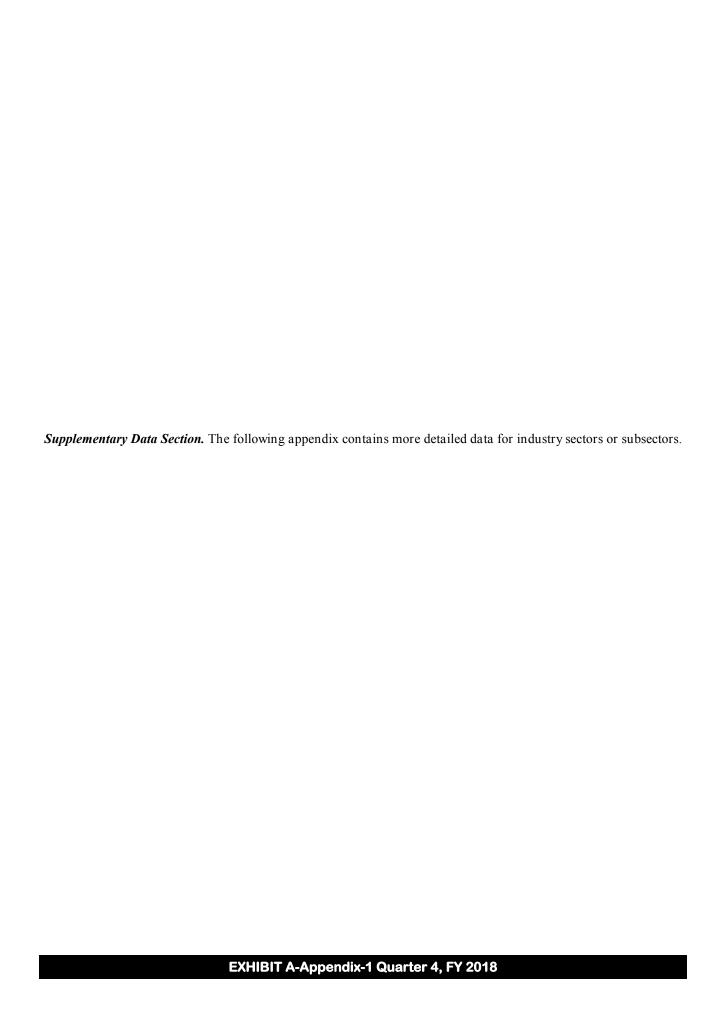
Fiscal Year 2016 Per Capita State Government General Expenditures, by Type (U.S. and the New England States)



SOURCE: U.S. Census Bureau, Governments Division.

*Other includes utility, liquor store, other and un-allocated expenditures.

NOTE: Per capita dollars are adjusted for inflation (\$2017).



Building Permits. The Census Bureau's Residential Construction Branch Building Permits Survey is a leading economic indicator used to track the housing industry.

| | M | assachusetts | N | ew England | U | nited States |
|------|-------------|---------------------------------|-------------|---------------------------------|--------------------|--------------------------------|
| Year | Total Units | Percent Change Previous Year | Total Units | Percent Change Previous Year | Total Units | Percent Chang Previous Year |
| 1975 | 17,697 | -27.5% | 41,645 | -21.0% | 934,511 | -12.4% |
| 1980 | 16,480 | -18.3% | 41,079 | -23.4% | 1,190,600 | -22.4% |
| 1985 | 39,196 | 33.8% | 99,192 | 36.3% | 1,733,266 | 3.1% |
| 1990 | 14,290 | -32.9% | 36,169 | -33.5% | 1,110,766 | -17.0% |
| 1997 | 17,186 | -0.4% | 41,110 | 2.9% | 1,441,136 | 1.1% |
| 1998 | 19,254 | 12.0% | 48,008 | 16.8% | 1,612,260 | 11.9% |
| 1999 | 18,967 | -1.5% | 47,632 | -0.8% | 1,663,533 | 3.2% |
| 2000 | 18,000 | -5.1% | 45,335 | -4.8% | 1,592,267 | -4.3% |
| 2001 | 17,034 | -5.4% | 44,594 | -1.6% | 1,636,676 | 2.8% |
| 2002 | 17,465 | 2.5% | 49,031 | 9.9% | 1,747,678 | 6.8% |
| 2003 | 20,257 | 16.0% | 52,395 | 6.9% | 1,889,214 | 8.1% |
| 2004 | 22,477 | 11.0% | 57,858 | 10.4% | 2,070,077 | 9.6% |
| 2005 | 24,549 | 9.2% | 58,742 | 1.5% | 2,155,316 | 4.1% |
| 2006 | 19,580 | -20.2% | 46,782 | -20.4% | 1,838,903 | -14.7% |
| 2007 | 15,358 | -21.6% | 37,532 | -19.8% | 1,398,415 | -24.0% |
| 2008 | 9,883 | -35.6% | 24,454 | -34.8% | 905,359 | -35.3% |
| 2009 | 9,883 | 0.0% | 24,454 | 0.0% | 905,359 | 0.0% |
| 2010 | 9,075 | -8.2% | 20,964 | -14.3% | 604,610 | -33.2% |
| 2011 | 7,725 | -14.9% | 17,987 | -14.2% | 624,061 | 3.2% |
| 2012 | 11,111 | 43.8% | 23,109 | 28.5% | 829,658 | 32.9% |
| 2013 | 14,569 | 31.1% | 28,635 | 23.9% | 990,822 | 19.4% |
| 2014 | 14,467 | -0.7% | 28,949 | 1.1% | 1,052,124 | 6.2% |
| 2015 | 17,424 | 20.4% | 33,959 | 17.3% | 1,182,582 | 12.4% |
| 2016 | 16,288 | -6.5% | 32,595 | -4.0% | 1,206,642 | 2.0% |
| 2017 | 17,728 | 8.8% | 33,160 | 1.7% | 1,281,977 | 6.2% |

Housing Permits Authorized Percent Change from Previous Year 80% 40% 20% Massachusetts New England United States United States

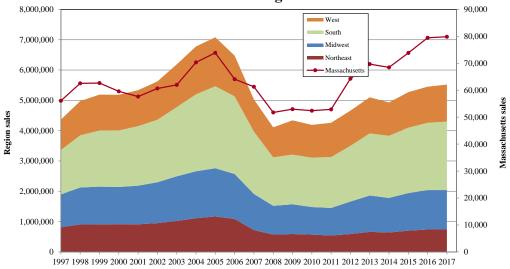
Year

SOURCE: U.S. Census Bureau. Reported data plus data imputed for non-reporters & partial reporters.

Home Sales. Sales of existing single-family homes for Massachusetts and the U.S. are presented in the following table and graph. The state existing-home sales report includes single-family houses, condos and co-ops.

| Sales of Existing Homes United States, National Regions and Massachusetts | | | | | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|---------------|--|--|--|--|--|
| Year | U.S. | Northeast | Midwest | South | West | Massachusetts | | | | | |
| 1991 | 3,146,000 | 596,000 | 867,000 | 1,070,000 | 633,000 | 31,379 | | | | | |
| 1992 | 3,431,000 | 667,000 | 967,000 | 1,127,000 | 680,000 | 38,847 | | | | | |
| 1993 | 3,737,000 | 714,000 | 1,031,000 | 1,257,000 | 745,000 | 43,588 | | | | | |
| 1994 | 3,884,000 | 728,000 | 1,031,000 | 1,313,000 | 822,000 | 45,238 | | | | | |
| 1995 | 3,849,000 | 725,000 | 1,010,000 | 1,312,000 | 812,000 | 43,509 | | | | | |
| 1996 | 4,167,000 | 776,000 | 1,056,000 | 1,393,000 | 942,000 | 51,857 | | | | | |
| 1997 | 4,374,000 | 813,000 | 1,084,000 | 1,466,000 | 1,001,000 | 56,107 | | | | | |
| 1998 | 4,965,000 | 905,000 | 1,219,000 | 1,722,000 | 1,129,000 | 62,549 | | | | | |
| 1999 | 5,179,000 | 908,000 | 1,245,000 | 1,854,000 | 1,182,000 | 62,662 | | | | | |
| 2000 | 5,173,000 | 915,000 | 1,226,000 | 1,867,000 | 1,175,000 | 59,602 | | | | | |
| 2001 | 5,335,000 | 910,000 | 1,274,000 | 1,965,000 | 1,186,000 | 57,665 | | | | | |
| 2002 | 5,634,000 | 950,000 | 1,347,000 | 2,062,000 | 1,265,000 | 60,661 | | | | | |
| 2003 | 6,176,000 | 1,020,000 | 1,473,000 | 2,283,000 | 1,410,000 | 61,979 | | | | | |
| 2004 | 6,778,000 | 1,111,000 | 1,549,000 | 2,540,000 | 1,578,000 | 70,342 | | | | | |
| 2005 | 7,080,000 | 1,168,000 | 1,591,000 | 2,707,000 | 1,614,000 | 73,887 | | | | | |
| 2006 | 6,477,000 | 1,087,000 | 1,484,000 | 2,562,000 | 1,344,000 | 64,126 | | | | | |
| 2007 | 5,030,000 | 720,000 | 1,190,000 | 2,060,000 | 1,060,000 | 61,299 | | | | | |
| 2008 | 4,110,000 | 570,000 | 950,000 | 1,600,000 | 990,000 | 51,766 | | | | | |
| 2009 | 4,340,000 | 590,000 | 980,000 | 1,640,000 | 1,130,000 | 52,992 | | | | | |
| 2010 | 4,190,000 | 570,000 | 910,000 | 1,630,000 | 1,080,000 | 52,413 | | | | | |
| 2011 | 4,260,000 | 540,000 | 910,000 | 1,680,000 | 1,130,000 | 52,902 | | | | | |
| 2012 | 4,660,000 | 590,000 | 1,070,000 | 1,840,000 | 1,160,000 | 64,254 | | | | | |
| 2013 | 5,090,000 | 660,000 | 1,200,000 | 2,050,000 | 1,190,000 | 69,697 | | | | | |
| 2014 | 4,940,000 | 640,000 | 1,140,000 | 2,050,000 | 1,100,000 | 68,503 | | | | | |
| 2015 | 5,250,000 | 700,000 | 1,240,000 | 2,160,000 | 1,170,000 | 73,858 | | | | | |
| 2016 | 5,450,000 | 740,000 | 1,300,000 | 2,220,000 | 1,190,000 | 79,459 | | | | | |
| 2017 | 5,510,000 | 740,000 | 1,300,000 | 2.260.000 | 1.220.000 | 79,844 | | | | | |

Sales of Existing Homes

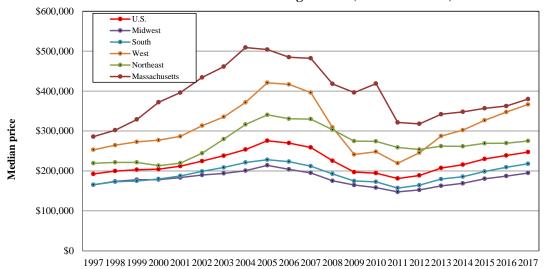


SOURCES: National Association of Realtors and Massachusetts Association of Realtors. Massachusetts sales price reflects only that of single-family homes. Sales prices of the other regions represent the average of both single- and multi-family homes.

Home prices. Massachusetts sales prices are much higher than the national median but they are 25.3 percent less than the 2004 peak.

| | | Sales Price I States, Nat | | | | s) |
|------|-----------|------------------------------|-----------|-----------|-----------|---------------|
| Year | U.S. | Northeast | Midwest | South | West | Massachusetts |
| 1990 | \$180,792 | \$265,187 | \$143,096 | \$158,850 | \$259,936 | \$339,877 |
| 1991 | \$182,490 | \$258,438 | \$144,876 | \$158,554 | \$260,058 | \$303,961 |
| 1992 | \$181,700 | \$249,138 | \$147,107 | \$159,162 | \$246,692 | \$285,288 |
| 1993 | \$181,847 | \$241,049 | \$147,581 | \$158,946 | \$240,540 | \$276,254 |
| 1994 | \$184,088 | \$234,038 | \$149,851 | \$156,963 | \$246,774 | \$277,000 |
| 1995 | \$184,323 | \$222,763 | \$154,567 | \$155,854 | \$242,225 | \$276,165 |
| 1996 | \$187,316 | \$218,093 | \$159,820 | \$159,976 | \$245,432 | \$278,921 |
| 1997 | \$192,583 | \$219,310 | \$165,246 | \$165,551 | \$253,062 | \$285,917 |
| 1998 | \$199,705 | \$221,510 | \$173,840 | \$172,937 | \$264,519 | \$302,069 |
| 1999 | \$203,041 | \$221,432 | \$178,028 | \$174,939 | \$272,781 | \$328,974 |
| 2000 | \$204,409 | \$213,234 | \$178,360 | \$179,783 | \$277,006 | \$371,940 |
| 2001 | \$211,902 | \$219,653 | \$183,390 | \$187,542 | \$286,504 | \$396,229 |
| 2002 | \$224,682 | \$244,302 | \$189,801 | \$198,930 | \$313,383 | \$434,170 |
| 2003 | \$238,193 | \$279,757 | \$193,965 | \$208,752 | \$335,441 | \$461,212 |
| 2004 | \$253,555 | \$316,359 | \$200,612 | \$221,114 | \$371,638 | \$508,979 |
| 2005 | \$275,619 | \$340,507 | \$214,119 | \$228,051 | \$420,833 | \$503,981 |
| 2006 | \$269,802 | \$330,596 | \$204,023 | \$223,356 | \$416,680 | \$484,833 |
| 2007 | \$258,902 | \$329,952 | \$195,181 | \$211,969 | \$396,156 | \$482,132 |
| 2008 | \$225,535 | \$303,293 | \$175,441 | \$192,632 | \$309,100 | \$418,033 |
| 2009 | \$197,090 | \$274,784 | \$164,642 | \$174,811 | \$241,193 | \$396,376 |
| 2010 | \$194,584 | \$274,172 | \$158,275 | \$172,776 | \$248,092 | \$418,664 |
| 2011 | \$181,002 | \$258,808 | \$147,548 | \$157,137 | \$219,360 | \$321,467 |
| 2012 | \$188,756 | \$253,774 | \$152,350 | \$164,414 | \$245,660 | \$317,885 |
| 2013 | \$207,391 | \$262,106 | \$162,672 | \$179,612 | \$287,359 | \$341,969 |
| 2014 | \$215,677 | \$261,649 | \$168,980 | \$185,650 | \$302,134 | \$347,899 |
| 2015 | \$230,003 | \$269,096 | \$180,362 | \$198,667 | \$326,803 | \$356,795 |
| 2016 | \$238,781 | \$269,522 | \$187,205 | \$209,163 | \$347,447 | \$362,563 |
| 2017 | \$247,200 | \$275,000 | \$194,900 | \$218,000 | \$366,400 | \$380,000 |

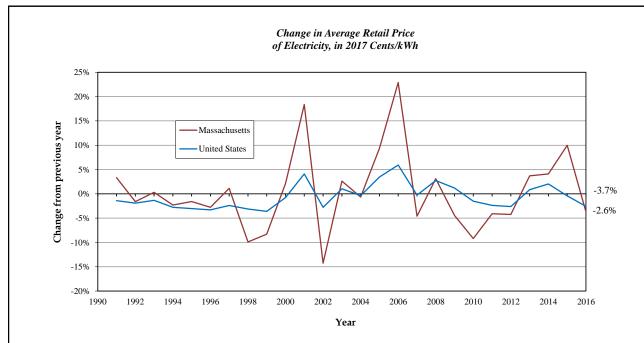
Median Sales Price of Existing Homes (in 2017 Dollars)



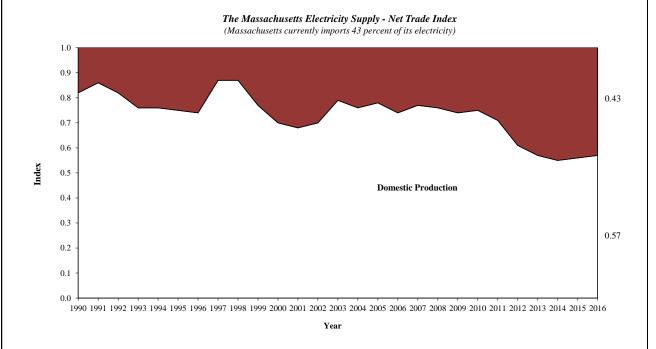
Year

SOURCE: National Association of Realtors and Massachusetts Association of Realtors. The Massachusetts sales price reflects only that of single-family homes. Sales prices of the other regions represent the average of both single- and multi-family homes.

Electricity Prices, Supply and Capacity by Source. Massachusetts had the fifth highest electric rate in the country in 2016, 16.83 cents per kilowatt hour in 2017 dollars, while the U.S. average was 10.49. Adjusted for inflation, this was a decrease of 3.7 percent for Massachusetts and a decrease of 2.6 percent for the U.S. from the previous year. Massachusetts electric utilities generated \$9.0 billion in revenue in 2016. This was 5.7 percent less than in 2015, while they sold 2.1 percent less electricity. The Massachusetts Net Electricity Trade Index, which represents the state's electricity self-sufficiency, was 0.57 in 2016, the latest data available. In 2016, 66.2 percent of Massachusetts electricity was generated by burning natural gas, our top fuel source for power generation.



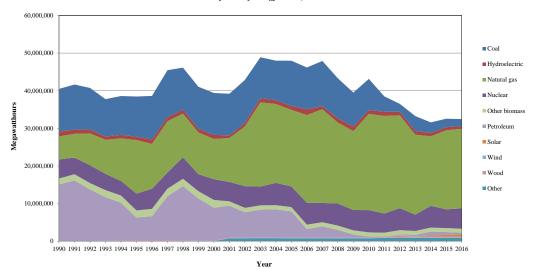
SOURCE: U.S. Department of Energy, http://www.eia.doe.gov/cneaf/electricity/st_profiles/massachusetts.html. NOTE: Massachusetts restructured the electric utility industry to establish consumer electricity rate savings by 03/01/98. https://malegislature.gov/Laws/SessionLaws/Acts/1997/Chapter164



SOURCE: U.S. Department of Energy, http://www.eia.doe.gov/cneaf/electricity/st_profiles/massachusetts.html.

| Electric Power Industry Generation by Primary Energy Source 2006 to 2016 (in Megawatt-hours) | | | | | | | | | | | | |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| Energy Source | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
| Total electric industry | 45,597,775 | 47,075,975 | 42,505,478 | 38,966,651 | 42,804,824 | 38,054,821 | 36,198,121 | 32,885,021 | 31,118,591 | 32,085,969 | 31,955,022 | |
| Coal | 11,138,341 | 12,024,347 | 10,628,688 | 9,028,110 | 8,305,890 | 4,058,807 | 2,136,922 | 3,959,229 | 2,794,889 | 2,252,664 | 1,874,932 | |
| Hydroelectric | 1,512,645 | 797,482 | 1,155,811 | 1,201,076 | 996,339 | 1,148,762 | 912,482 | 991,504 | 902,077 | 827,184 | 712,516 | |
| Natural gas | 23,306,676 | 24,925,043 | 21,514,434 | 20,987,836 | 25,581,752 | 25,939,672 | 24,672,381 | 21,256,887 | 18,497,715 | 21,007,411 | 21,143,936 | |
| Nuclear | 5,829,658 | 5,119,789 | 5,868,639 | 5,396,021 | 5,917,813 | 5,085,220 | 5,859,540 | 4,330,643 | 5,769,154 | 4,994,806 | 5,414,318 | |
| Other biomass | 1,153,571 | 1,121,067 | 1,129,046 | 1,107,875 | 1,125,326 | 1,039,130 | 1,065,140 | 1,060,541 | 1,073,422 | 1,047,103 | 1,075,330 | |
| Petroleum | 2,328,246 | 3,051,604 | 2,107,999 | 897,078 | 295,736 | 196,503 | 174,494 | 390,311 | 1,004,834 | 777,075 | 422,281 | |
| Solar | 0 | 0 | 80 | 43 | 928 | 4,765 | 29,614 | 106,457 | 306,321 | 451,366 | 609,281 | |
| Wind | 0 | 0 | 3,672 | 5,956 | 22,068 | 61,385 | 89,673 | 204,898 | 224,971 | 214,666 | 216,123 | |
| Wood | 125,258 | 119,157 | 122,580 | 115,384 | 125,412 | 101,295 | 658,991 | 76,531 | 125,237 | 119,769 | 128,822 | |
| Other | 782,278 | 748,033 | 772,928 | 760,909 | 770,629 | 859,514 | 906,429 | 875,926 | 878,130 | 867,806 | 857,932 | |
| Pumped storage | -578,898 | -830,547 | -798,400 | -533,636 | -337,069 | -440,231 | -307,545 | -367,906 | -458,158 | -473,881 | -500,450 | |

Electric Power Generation by Primary Energy Source, 1990 to 2016



SOURCE: U.S. Dept. of Energy, http://www.eia.doe.gov/; state electricity profiles.

NOTE: Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and misc. technologies. Pumped storage is omitted from the graph because it represents the storage of power generated elsewhere rather than newly generated power.

Travel and Tourism. The Massachusetts Office of Travel and Tourism (MOTT) reported a 5.7 percent increase in 2016 museum and attraction attendance compared to 2015, with 12.2 million visitors. Museum attendance was up 6.0 percent in November 2017 for the calendar year compared to November 2016. For November FY 2018 year-to-date, net room occupancy tax collections totaled \$142.3 million, a 3.0 percent increase from the same period in FY 2017.

Transportation and Warehousing. Massachusetts's major air and seaports are managed by the Massachusetts Port Authority (Massport), an independent public authority. Based on total passenger volume data for calendar year 2016, Logan Airport was the most active airport in New England and the 17th most active in the U.S. according to the Federal Aviation Authority. Massport reported that as of May 2018 year-to-date, total airport flight operations were up 5.2 percent and total airport passengers were up 5.4 percent from the same period in 2017. According to the FAA, in calendar year 2016, Logan Airport ranked 27th in the nation in total air cargo volume. As of May 2018 year-to-date, Massport reported the airport handled 279.0 million pounds of cargo; a 5.1 percent increase from the same period in 2017. Massport reported that total express mail was up 6.8 percent from the same period in 2017. Please refer to the Aviation Activity charts on the following page.

Massport's Port of Boston properties processed 270,881 full TEUs (twenty-foot equivalent units) of containerized cargo in 2017, an increase of 9.1 percent from calendar year 2016. It also processed 49,554 automobiles, a decrease of 8.0 percent, and 388,222 cruise passengers, a 25.6 percent increase, compared to 2016.

The Army Corps of Engineers reported Massachusetts total waterborne cargo shipped or received in 2016 decreased by 1.2 percent to 18.2 million short tons from 2015. Waterborne cargo in New England decreased 8.5 percent while the U.S. increased 0.6 percent. Please refer to the Waterborne Tonnage by State charts on the following page.

Aviation Activity for Massachusetts Primary Airports

| Passenger Boardings | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Logan International | 13,783,297 | 12,820,489 | 12,566,797 | 13,561,814 | 14,180,730 | 14,293,695 | 14,810,153 | 15,507,561 | 16,290,362 | 17,759,044 |
| Nantucket Memorial | 282,197 | 258,214 | 204,981 | 201,390 | 169,352 | 179,128 | 183,557 | 170,361 | 155,952 | 126,197 |
| Barnstable Municipal | 204,152 | 191,906 | 138,858 | 124,560 | 100,596 | 95,717 | 87,648 | 85,184 | 65,790 | 31,027 |
| Worcester Regional | 460 | 3,182 | 17,241 | 35,833 | 53,541 | 10,750 | 8,007 | 57,818 | 59,624 | 57,800 |
| Martha's Vineyard | 49,205 | 45,002 | 42,248 | 43,904 | 49,095 | 50,484 | 56,313 | 52,362 | 49,853 | 54,084 |
| Provincetown Municipal | 12,459 | 11,468 | 10,747 | 11,450 | 10,967 | 11,580 | 11,288 | 10,410 | 10,841 | 10,074 |
| New Bedford Regional | 14,567 | 13,908 | 11,680 | 12,363 | 11,152 | 12,256 | 10,604 | 8,159 | 7,271 | 7,022 |
| Hanscom Field | 16,568 | 8,385 | 7,350 | 7,952 | 10,893 | 11,097 | 12,621 | 11,116 | 15,313 | 15,105 |
| Total | 14,362,905 | 13,352,554 | 12,999,902 | 13,999,266 | 14,586,326 | 14,664,707 | 15,180,191 | 15,902,971 | 16,655,006 | 18,060,353 |

Change in Aviation Activity at Massachusetts Primary Airports

| Passenger Boardings | 2006-2007 | 2007-2008 | 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Logan International | 1.8% | -7.0% | -2.0% | 7.9% | 4.6% | 0.8% | 3.6% | 4.7% | 5.0% | 9.0% |
| Nantucket Memorial | 1.9% | -8.5% | -20.6% | -1.8% | -15.9% | 5.8% | 2.5% | -7.2% | -8.5% | -19.1% |
| Barnstable Municipal | -1.4% | -6.0% | -27.6% | -10.3% | -19.2% | -4.9% | -8.4% | -2.8% | -22.8% | -52.8% |
| Worcester Regional | -96.9% | 591.7% | 441.8% | 107.8% | 49.4% | -79.9% | -25.5% | 622.1% | 3.1% | -3.1% |
| Martha's Vineyard | 7.2% | -8.5% | -6.1% | 3.9% | 11.8% | 2.8% | 11.5% | -7.0% | -4.8% | 8.5% |
| Provincetown Municipal | 9.5% | -8.0% | -6.3% | 6.5% | -4.2% | 5.6% | -2.5% | -7.8% | 4.1% | -7.1% |
| New Bedford Regional | -4.2% | -4.5% | -16.0% | 5.8% | -9.8% | 9.9% | -13.5% | -23.1% | -10.9% | -3.4% |
| Hanscom Field | 13.8% | -49.4% | -12.3% | 8.2% | 37.0% | 1.9% | 13.7% | -11.9% | 37.8% | -1.4% |
| Total | 1.6% | -7.0% | -2.6% | 7.7% | 4.2% | 0.5% | 3.5% | 4.8% | 4.7% | 8.4% |
| Cargo | 2006-2007 | 2007-2008 | 2008-2009 | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 |

SOURCE: Federal Aviation Administration. http://www.faa.gov/airports/planning_capacity/passenger_allcargo_stats/passenger/.

-24.0%

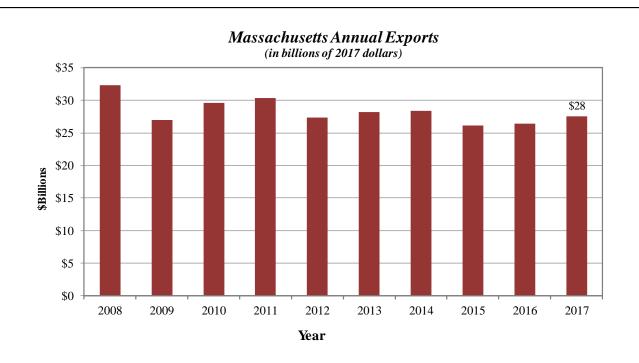
Waterborne Tonnage by State - Percent Change from Previous Year

| | 2005- | 2006- | 2007- | 2008- | 2009- | 2010- | 2011- | 2012- | 2013- | 2014- | 2015- |
|---------------|--------|--------|-------|--------|--------|--------|--------|-------|--------|--------|--------|
| State | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| U.S. total | 2.4% | -0.9% | -3.4% | -10.8% | 5.6% | 1.4% | -2.6% | -1.4% | 3.1% | -2.8% | 0.6% |
| Massachusetts | -4.9% | 2.3% | -7.3% | -3.8% | -9.4% | -8.9% | -16.2% | 9.1% | -0.7% | -1.4% | -1.2% |
| Maine | -13.1% | -4.5% | -7.8% | -7.1% | -9.1% | -26.3% | -1.8% | -6.9% | -15.0% | -13.0% | -26.5% |
| Connecticut | -1.4% | 4.2% | -9.7% | -7.9% | -3.2% | -20.0% | -18.0% | 6.8% | 17.1% | 2.6% | -7.5% |
| Rhode Island | 0.4% | 1.5% | -6.0% | -20.1% | -1.1% | 0.8% | -9.7% | 19.9% | -3.5% | 2.5% | -1.9% |
| New Hampshire | -8.2% | -16.5% | -4.8% | -6.5% | -17.3% | 12.9% | -27.7% | 10.7% | 4.6% | -1.1% | -15.1% |
| Vermont | - | - | - | - | - | - | - | - | - | - | - |
| New England | -6.5% | -0.5% | -7.7% | -7.8% | -7.4% | -14.5% | -12.7% | 5.7% | -0.9% | -2.3% | -8.5% |

Waterborne Tonnage by State (In Units of 1,000 Tons)

| State | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| U.S. total | 2,588,4402 | ,563,9722 | ,477,0942 | ,210,7522 | ,334,3992 | ,367,4842 | ,306,7702 | ,274,7782 | ,345,4392 | ,278,9742 | ,292,044 |
| Massachusetts | 27,411 | 28,043 | 25,993 | 25,018 | 22,661 | 20,646 | 17,298 | 18,866 | 18,733 | 18,464 | 18,241 |
| Maine | 28,103 | 26,839 | 24,747 | 22,996 | 20,907 | 15,411 | 15,127 | 14,078 | 11,964 | 10,414 | 7,657 |
| Connecticut | 19,340 | 20,148 | 18,196 | 16,767 | 16,229 | 12,977 | 10,645 | 11,368 | 13,313 | 13,664 | 12,633 |
| Rhode Island | 11,016 | 11,184 | 10,517 | 8,404 | 8,315 | 8,378 | 7,567 | 9,072 | 8,754 | 8,976 | 8,802 |
| New Hampshire | 4,823 | 4,026 | 3,833 | 3,583 | 2,964 | 3,347 | 2,419 | 2,679 | 2,803 | 2,771 | 2,353 |
| Vermont | - | - | - | - | - | - | - | - | - | - | - |
| New England | 90,693 | 90.240 | 83.286 | 76,768 | 71.076 | 60,759 | 53.056 | 56.063 | 55.567 | 54.289 | 49,686 |

SOURCE: Army Corps of Engineers, Waterborne Commerce Statistics Center (WCSC), http://www.navigationdatacenter.us/wcsc/wcsc.htm.



| Massachusetts Top Export Partners (top ten export destinations ranked by value of latest exports, in millions of 2017 dollars) | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| Country | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | |
| Canada | \$4,448 | \$3,526 | \$3,646 | \$4,137 | \$3,709 | \$3,929 | \$3,832 | \$3,274 | \$3,171 | \$3,012 | |
| Mexico | \$1,324 | \$1,031 | \$1,431 | \$1,566 | \$1,718 | \$1,959 | \$2,400 | \$2,712 | \$2,524 | \$2,562 | |
| China | \$1,780 | \$1,567 | \$2,468 | \$2,275 | \$2,003 | \$2,083 | \$2,375 | \$2,125 | \$2,214 | \$2,304 | |
| United Kingdom | \$3,989 | \$4,626 | \$3,612 | \$3,580 | \$2,764 | \$1,481 | \$2,432 | \$1,219 | \$1,619 | \$2,116 | |
| Germany | \$2,834 | \$2,000 | \$2,105 | \$2,230 | \$1,925 | \$1,932 | \$1,915 | \$1,976 | \$1,669 | \$1,820 | |
| Hong Kong | \$672 | \$600 | \$751 | \$818 | \$757 | \$1,854 | \$997 | \$960 | \$919 | \$1,321 | |
| Japan | \$2,764 | \$1,961 | \$2,299 | \$2,227 | \$2,128 | \$1,854 | \$1,915 | \$1,526 | \$1,430 | \$1,279 | |
| Netherlands | \$3,045 | \$2,264 | \$1,905 | \$1,206 | \$1,149 | \$1,358 | \$1,376 | \$1,447 | \$1,399 | \$1,255 | |
| Republic of Korea | \$758 | \$713 | \$1,003 | \$1,123 | \$1,099 | \$949 | \$1,022 | \$1,040 | \$999 | \$1,219 | |
| Switzerland | \$508 | \$414 | \$529 | \$614 | \$464 | \$1,348 | \$832 | \$1,060 | \$1,806 | \$1,119 | |
| Total Exports, Top Destinations | \$22,122 | \$18,701 | \$19,750 | \$19,776 | \$17,716 | \$18,747 | \$19,096 | \$17,339 | \$17,750 | \$18,006 | |
| All other countries | \$10,176 | \$8,255 | \$9,820 | \$10,595 | \$9,630 | \$9,465 | \$9,258 | \$8,815 | \$8,695 | \$9,559 | |
| Total Exports | \$32,298 | \$26,957 | \$29,570 | \$30,371 | \$27,346 | \$28,212 | \$28,354 | \$26,154 | \$26,445 | \$27,566 | |

| Value of International Shipments from Massachusetts (top ten industry groups ranked by value of latest exports, in millions of 2017 dollars) | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| | | | | | | | | | | | |
| Major Industry Group (3-Digit NAICS) | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | |
| Computer And Electronic Products | \$8,905 | \$7,541 | \$8,417 | \$8,395 | \$7,789 | \$7,600 | \$8,439 | \$7,562 | \$7,103 | \$7,456 | |
| Machinery, Except Electrical | \$2,977 | \$2,294 | \$3,882 | \$3,970 | \$3,471 | \$3,036 | \$3,046 | \$3,281 | \$3,395 | \$3,835 | |
| Chemicals | \$6,278 | \$4,413 | \$4,076 | \$3,666 | \$3,681 | \$3,801 | \$3,630 | \$3,530 | \$3,388 | \$3,204 | |
| Miscellaneous Manufactured Commodities | \$3,552 | \$3,127 | \$3,424 | \$3,472 | \$3,263 | \$3,457 | \$3,177 | \$3,290 | \$3,185 | \$2,940 | |
| Waste and Scrap | \$2,336 | \$3,125 | \$2,695 | \$3,045 | \$2,084 | \$2,997 | \$2,462 | \$541 | \$971 | \$2,668 | |
| Electrical Equipment, Appliances, And Component | \$711 | \$580 | \$627 | \$740 | \$1,037 | \$1,176 | \$1,230 | \$1,223 | \$1,264 | \$1,452 | |
| Transportation Equipment | \$1,408 | \$1,264 | \$1,190 | \$1,219 | \$1,113 | \$1,149 | \$1,355 | \$1,279 | \$1,087 | \$1,022 | |
| Waste And Scrap | \$1,563 | \$761 | \$735 | \$1,200 | \$837 | \$785 | \$792 | \$1,299 | \$2,110 | \$903 | |
| Plastics And Rubber Products | \$668 | \$643 | \$844 | \$883 | \$725 | \$709 | \$755 | \$855 | \$831 | \$824 | |
| Fabricated Metal Products, Nesoi | \$821 | \$692 | \$910 | \$942 | \$718 | \$780 | \$816 | \$805 | \$632 | \$675 | |
| Total Exports, Top Massachusetts Industries | \$29,218 | \$24,441 | \$26,801 | \$27,531 | \$24,718 | \$25,491 | \$25,702 | \$23,664 | \$23,967 | \$24,979 | |
| All other exports | \$3,080 | \$2,516 | \$2,769 | \$2,841 | \$2,628 | \$2,721 | \$2,652 | \$2,490 | \$2,479 | \$2,587 | |
| Total Exports | \$32,298 | \$26,957 | \$29,570 | \$30,371 | \$27,346 | \$28,212 | \$28,354 | \$26,154 | \$26,445 | \$27,566 | |

Sources

Listed below are the websites of the original data sources used to compile Exhibit A. For more information, contact the UMass Donahue Institute Economic and Public Policy Research unit.

Web: http://www.donahue.umassp.edu/business-groups/economic-public-policy-research, Tel: 413-577-2415

Introduction

American Human Development Project

http://www.measureofamerica.org/

Population Characteristics

U.S. Department of Commerce, Bureau of the Census

http://www.census.gov

U.S. Internal Revenue Service

http://www.irs.gov

Personal Income, Consumer Prices, and Poverty U.S. Department of Commerce, Bureau of Economic

Analysis

http://www.bea.gov/regional/index.htm

U.S. Department of Labor, Bureau of Labor Statistics

http://www.bls.gov

The Conference Board, Inc.

http://www.conference-board.org

MassInsight Corporation

http://www.massinsight.com/index.asp

U.S. Department of Commerce, Bureau of the Census

http://www.census.gov

Employment

Mass. Executive Office of Labor and Workforce Development, Division of Unemployment Assistance

http://lmi2.detma.org/Lmi/LMIDataProg.asp

U.S. Department of Labor, Bureau of Labor Statistics

http://www.bls.gov/data/home.htm

Economic Base and Performance

U.S. Department of Commerce, Bureau of Economic

Analysis

http://www.bea.gov/national/index.htm#gdp

Fortune Magazine

http://www.fortune.com/fortune/

Economic Base and Performance - Sector Detail (NAICS Basis)

U.S. Department of Commerce, Bureau of Economic

Analysis

http://www.bea.gov/regional/index.htm

U.S. Census Bureau, Foreign Trade Division.

Prepared by the World Institute for Strategic

Economic Research (WISER)

http://www.WISERTrade

U.S. Census Bureau, Nonemployer Statistics

https://www.census.gov/econ/nonemployer/index.html

Statistics

http://www.bls.gov/data/home.htm

Massport

http://www.massport.com

Airports Council International

http://www.aci.aero

Federal Aviation Administration

http://www.faa.gov/airports_airtraffic/airports/

planning_capacity/passenger_allcargo_stats/

Army Corps of Engineers

http://www.navigationdatacenter.us/wcsc/wcsc.htm

Federal Reserve Bank of Philadelphia

https://www.phil.frb.org/

U.S. Department of Commerce

http://www/census.gov

National Association of Realtors

http://www.realtor.org/

http://www.marealtor.com/content/

Massachusetts Office of Travel and Tourism

http://www.massvacation.com

U.S. Census Bureau, Governments Division

http://www.census.gov/govs/www/statetax.html http://www.census.gov/govs/www state.html

U.S. Department of Commerce, Bureau of the

Census, Consolidated Federal Funds Report

http://www.census.gov/govs/www/cffr.html

Federal Spending award data

http://www.usaspending.gov

Large employers by sector

http://www.mass.gov/comptroller/docs/reports-audits/

cafr/2016-cafr.pdf

Human Resources and Infrastructure

U.S. Census Bureau

http://www.census.gov/acs/www/

New England Board of Higher Education

http://www.nebhe.org.connection.html

National Science Foundation

http://www.nsf.gov/statistics

U.S. Department of Education, National Center for

Education Statistics

http://nces.ed.gov

Institute of International Education

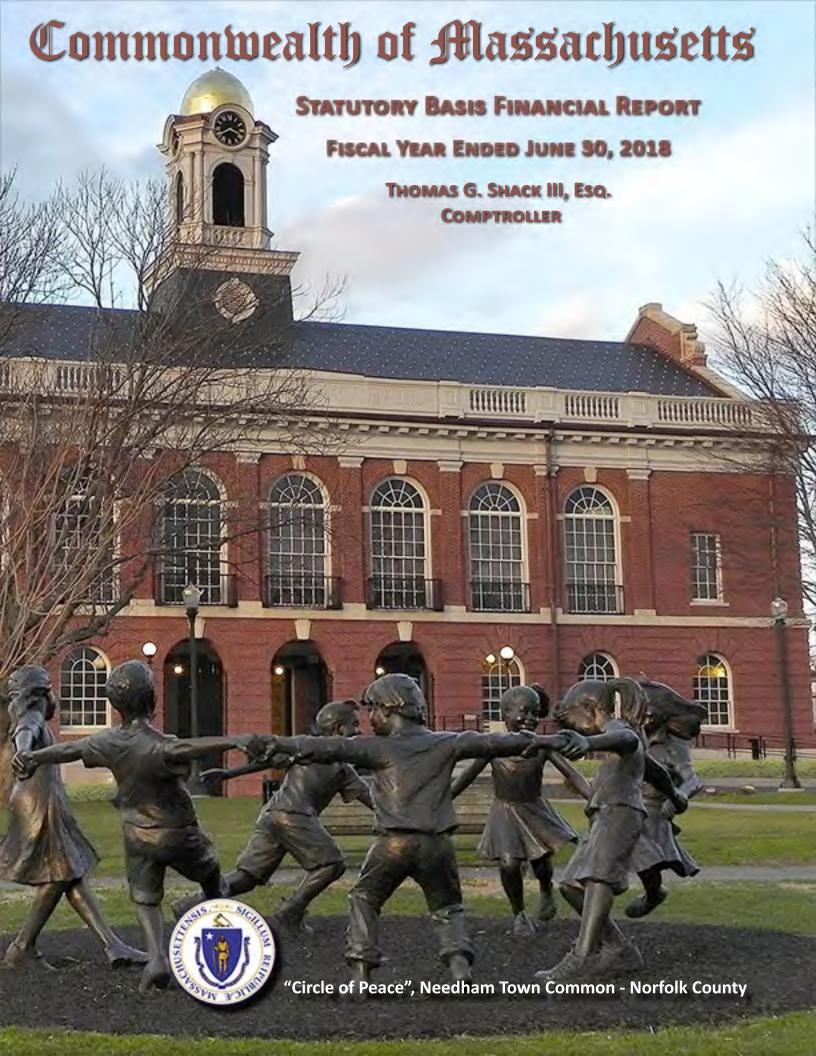
http://www.iee.org

U.S. Patent Office

http://www.uspto.gov

Exhibit B





Commonwealth of Massachusetts



Statutory Basis Financial Report

For the Fiscal Year Ended June 30, 2018

Thomas G. Shack III, Esq. Comptroller of the Commonwealth

Prepared by
The Financial Reporting and Analysis Team
Office of the Comptroller

This document is available at the Comptroller's website: www.macomptroller.org

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|---|
| "Circle of Peace" Statue - Needham Town Common - Norfolk County |
| The "Circle of Peace" is a life-size statue by artist Gary Lee Price. It sits in the center of Needham Town Common and represents children from all walks of life playing together. |
| According to artist Gary Lee Price, "The circle that the children form represents the continuum of |
| humanity. The clasped hands represent the interaction and cooperation, together with compassion and |
| respect, which engenders humanity. Respect for each other's uniqueness bridges the gap between any indifference." |
| |
| Photo courtesy of flickr user I. Drizik |
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Statutory Basis Financial Report

For the Fiscal Year Ended June 30, 2018

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Introductory Section



Comptroller's Letter Report Summary Constitutional, Legislative and Judicial Officers Organizational Chart of State Government Advisory Board to the Comptroller Acknowledgements



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The Commonwealth of Massachusetts Office of the Comptroller

November 6, 2018

The People of Massachusetts
His Excellency Charles D. Baker, Governor
Senator Joan Lovely, Vice Chair of the Senate Committee on Ways and Means
Representative Jeffrey Sánchez, Chair of the House Committee on Ways and Means
Secretary Michael J. Heffernan, Executive Office for Administration and Finance

The Office of the Comptroller is pleased to provide the Commonwealth's Statutory Basis Financial Report (SBFR) for the fiscal year ended June 30, 2018. In our opinion, the SBFR provides an independent and unbiased accounting of Commonwealth revenues and expenditures for Fiscal Year 2018. It has also been reviewed in accordance with professional standards established by the American Institute of Certified Public Accountants.

Under M.G.L. c. 7A, s. 7, the Comptroller is responsible for interpreting and implementing accounting standards through the establishment of a statewide accounting system and corresponding accounting rules for all Commonwealth departments. Pursuant to M.G.L c. 7A, s. 12, the Comptroller is also required to file the SBFR with the Governor, the Secretary of Administration and Finance, the House and Senate Committees on Ways and Means, the Clerks of the House and Senate, and any other Parties specified in general or special law by October 31st of each year.

The delayed enactment of the final FY18 Supplemental Appropriation Act and a technical corrections bill on October 29, 2018 created an inherent dilemma. To the extent that the late enactment of the FY18 supplemental budget conflicted with the statutory filing deadline, we were compelled to choose completeness over expediency. Therefore, the issuance of the SBFR on or before October 31, 2018 was delayed until today.

Once the Final Supplemental technical corrections bill was enacted, we immediately closed the Commonwealth's books for FY18. In the ensuing days, our statewide audit team implemented the requisite transactions in the state's accounting system, recorded those transactions in the SBFR, finalized and submitted the SBFR for review to our external auditors, and today filed the SBFR pursuant to M.G.L. c.7A. I strongly encourage earlier action as part of the FY19 closing so that we are not put in this unenviable position next year.

We remind you that the two month period between August 31 and October 31 are necessary for completion of reporting, reconciliation, and independent auditor review of the statements, including certification of the Consolidated Net Surplus (CNS). The issued SBFR then serves as the basis for the FY18 Comprehensive Annual Financial Report (CAFR) required pursuant to M.G.L. c. 7A, s.12, and it becomes increasingly more difficult to accurately complete the CAFR in a timely manner if the SBFR deadline is not met.

We strongly encourage all involved to take the necessary actions to enact final supplemental appropriations earlier and consistent with Massachusetts' own statutory obligations to prevent the possibility of unnecessary negative repercussions. Delays may jeopardize the Commonwealth's ability to qualify for the Governmental Finance Officers Association (GFOA) Certificate of Excellence in Financial Reporting. The Commonwealth's adherence to its own SBFR and CAFR statutory filing deadlines and the high standards required to achieve GFOA Certificate of Excellence status are monitored by rating agencies and the investment community.

As we conclude our review of Fiscal Year 2018, we would like to take the opportunity to acknowledge the remarkable effort and dedication of the Office of the Comptroller staff, who continually support our mission to promote accountability, integrity, and clarity in Commonwealth business, fiscal, and administrative enterprises. We would also like to express additional appreciation to Deputy Comptroller Howard Merkowitz and the Statewide Financial Reporting and Analysis Team led by Michael Rodino and Pauline Lieu for their tireless effort.

Respectfully,

Thomas G. Shack, III, Esq.

Comptroller of the Commonwealth

Jeffrey S. Shapuo, Esq. First Deputy Comptroller

Report Summary

As of June 30, 2018, the Commonwealth had a budgeted fund balance of approximately \$2.387 billion and completed FY18 with a budget surplus according to state finance law (see below for the definition of a balanced budget and surplus of \$229 million under state finance law). During the fiscal year, the balance of the Commonwealth's Stabilization (or rainy day) Fund increased by \$701 million, to \$2.001 billion, as a result of transfers of capital gains tax revenues, abandoned property, investment earnings, and statutorily required deposits of the FY18 budget surplus. No funds were drawn from the Stabilization Fund in FY18. (The <u>Budgeted Funds – Operations</u> table on page 8 displays the FY18 summary of budgeted funds compared to FY17. Details of FY18 Stabilization Fund activity are provided on pages 11 and <u>116</u>.) The total budgeted fund balance of \$2.387 billion reflects a gain (revenues and other financing sources greater than expenditures and other financing uses) of approximately \$939 million, added to the FY18 beginning balance of \$1.448 billion. This follows an FY17 operating loss of \$34 million. In addition to the \$2.001 billion reserved in the Stabilization Fund, \$371 million is reserved for continuing appropriations and debt service in fiscal year 2019. The remaining undesignated balance of \$14 million is made up of smaller budgeted fund balances.

During FY18, budgeted fund tax revenues increased by \$2.078 billion, or 8.7%, from FY17, as tax revenue growth due to the accelerating expansion of the Massachusetts economy and strength of asset markets resulted in growth in the Commonwealth's most significant tax revenue sources -- income taxes (including capital gains taxes), sales taxes, and corporate/business taxes. Before transfers between budgeted funds (which do not affect total budgeted fund balances), total budgeted fund revenues and other financing sources increased by \$2.652 billion, or 6.4%. Budgeted fund expenditures and other financing uses increased by \$1.679 billion, or 4.1%, primarily due to increases in Medicaid spending, additional payments to hospitals that care for the uninsured, and higher contributions to the state pension system to pay down the Commonwealth's unfunded pension liability. A more detailed analysis of revenue and spending changes, as well as the economic factors that affected the budget, is included in the sections that follow.

Overview of the Financial Statements

This report focuses primarily on the Commonwealth's budgeted funds. For the budgeted funds, the activity (inflows and outflows) and balances (assets and liabilities) of each fund are presented separately. For all other funds included in this report, the activity – inflows and outflows – is presented in tabular form, but per statute, the full balance sheets for each fund are not shown.

The financial operations of these funds are maintained in the Massachusetts Management Accounting and Reporting System, (MMARS). The statewide accounting system is operated by the Commonwealth and contains detailed information summarized in this report.

The SBFR is intended to satisfy the requirements of state finance law and to present the results of FY18 activity in the Commonwealth's funds. The report contains computations required by state finance law, including the certification of, transfers to, and balances in, the Stabilization Fund.

Basis of Accounting and Definition of the Consolidated Net Surplus

The statutory (or budgetary) basis of accounting, as defined in Massachusetts law, is used to budget and control the Commonwealth's fiscal operations. The statutory basis of accounting is not in conformity with accounting principles generally accepted in the United States of America (GAAP) as defined for governments by the Governmental Accounting Standards Board (GASB). In addition, Fiduciary Funds are not included in this presentation. The Comptroller's Office will report the Commonwealth's financial position on a GAAP basis in December, in the State's Comprehensive Annual Financial Report (CAFR). That report provides a basis for comparison with other jurisdictions, as the accounting rules for the CAFR are the same for all governments, whereas the statutory basis of accounting may differ across states. There are significant differences between what is contained in the SBFR and what will be presented in the GAAP-based CAFR. The major differences are that the CAFR reflects capital assets and depreciation expense, all types of long-term obligations – including debt, pensions, and other-post employment benefits (or OPEB, which are mainly retirees' health insurance benefits) – and in the CAFR the financial statements are presented in an all-encompassing, net position and net expense format.

The Commonwealth's statutory basis of accounting defines the "consolidated net surplus" as the ending "undesignated", or unreserved, balances in the budgeted funds, that is, those funds subject to the state's annual appropriation process,

though by statute several budgeted funds are excluded from the consolidated net surplus calculation. State finance law defines a "balanced budget" as a consolidated net surplus of \$0 or greater. The largest of the budgeted funds are the General Fund and the Commonwealth Transportation Fund, which in FY18 accounted for approximately 93.9% and 4.7%, respectively, of total budgeted fund expenditures and other financing uses. The remaining approximately 1.4% of budgeted fund activity is comprised of nine smaller funds, seven of which by statute are excluded from the consolidated net surplus calculations.

In accordance with Section 12 of Chapter 7A of the Massachusetts General Laws, the Office of the Comptroller is required to transmit the SBFR by October 31st. However, due to the fact that the final FY18 supplemental budget bill and related technical correction legislation were not enacted and signed into law until October 29, 2018, this SBFR is being transmitted on November 6, 2018 in order to provide sufficient time to accurately incorporate the bill's provisions into this report and have the report reviewed by the Commonwealth's independent auditor.

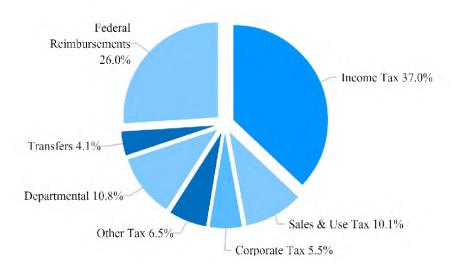
The SBFR for the fiscal year ended June 30, 2018 is reviewed, not audited, by KPMG LLP and represents the closing of the Commonwealth's books for the fiscal year.

The Economic Context

The funding available to the Commonwealth to finance its programs is determined largely by the performance of the state's economy, particularly growth in employment, which drives the personal income tax, the state's largest revenue source. In FY18, the Commonwealth's economy continued to perform better than the nation as a whole. Between June 2017 and June 2018, employment grew by approximately 63,000 jobs, or 1.7%, compared to employment growth of 1.6% for the United States as a whole over the same period. As of June 2018, the Massachusetts unemployment rate was 3.5%, compared to 4.0% nationally.

The Budgeted Funds

Budgeted Fund Revenues and Other Sources Before Transfers Between Budgeted Funds (Total of \$43.8 billion)



The FY18 budget enacted by the Legislature (the General Appropriation Act) included an FY18 tax revenue estimate of \$26.422 billion (a reduction from the FY18 consensus estimate of \$27.072 billion, which had been adjusted downward by \$650 million after tax revenue was below forecast at the end of FY17), further adjusted upward by \$321 million to \$26.743 billion as a result of \$196 million in tax law changes and \$125 million in tax settlements included in the budget. \$24.864 billion of that revenue was to be deposited in the budgeted funds and \$1.879 billion was to be deposited directly into non-budgeted funds for transfers of sales tax revenue dedicated to the Massachusetts Bay Transportation Authority (\$1.007 billion) and the Massachusetts School Building Authority (\$847 million), and revenue deposited in the non-budgeted Workforce Training Fund (\$25 million). (However, the Governor, in signing the FY18 budget, notified the

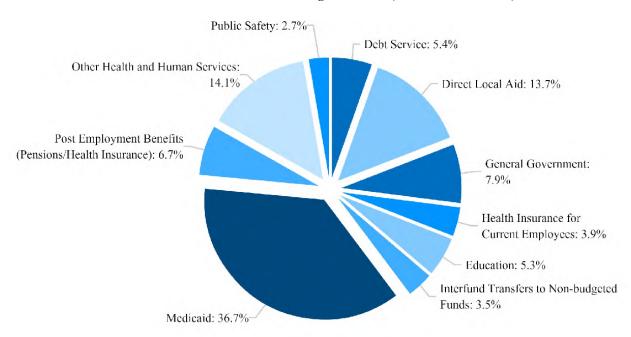
Legislature that his administration assumed that FY18 tax revenues would be \$26.629 billion (including \$125 million in tax settlement revenues), \$114 million lower than in the Legislature's enacted budget, primarily because he believed that the consensus tax revenue estimate should be reduced by approximately \$750 million, not \$650 million.) The FY18 budget appropriations also reflected the assumption that a reduction in the personal income tax rate would not be triggered during FY18, as had been previously projected in the FY18 consensus tax revenue estimate.

In October 2017, with tax revenues tracking estimates assumed in the FY18 enacted budget, the Secretary of Administration and Finance affirmed the FY18 tax revenue estimate. In January 2018, the Secretary of Administration and Finance revised the Fiscal Year 2018 state tax revenue estimate upward to \$26.761 billion (including \$100 million in projected judgment and settlement revenue), to reflect strong growth in year-to-date income tax withholding.

FY18 tax revenues upon which the FY18 General Appropriation Act was based ended the year at \$27.788 billion (including \$11 million in tax settlements exceeding \$10 million each -- the Commonwealth also received \$26 million in non-tax settlements), of which \$25.907 billion was deposited in the budgeted funds. Tax revenue deposited in the budgeted funds grew by \$2.078 billion, or 8.7%, from FY17, and was \$1.024 billion above the final FY18 tax estimate.

The FY18 General Appropriation Act (GAA) authorized approximately \$40.877 billion in spending, exclusive of approximately \$2.395 billion in required pension contributions and \$109 million in FY17 spending authorized to be continued into FY18 as part of FY17 end-of-year supplemental budgets.

Budgeted Expenditures and Other Uses Before Transfers Between Budgeted Funds (Total of \$42.9 billion)



Approximately \$947 million in supplemental appropriations were authorized during FY18, \$464 million of which were enacted prior to June 30, 2018. Subsequent to year end, a supplemental budget was enacted totaling approximately \$483 million in new appropriations, \$135 million of which was to fund FY18 Medicaid expenses, \$40 million of which supplemented local road and bridge capital spending, \$33 million of which was for snow and ice removal costs incurred by the Massachusetts Department of Transportation in FY18, \$29 million of which was to fund county Sheriffs' FY18 payroll expenses in FY18, with virtually all of the remainder continued to FY19 and reappropriated. In addition to the year-end FY18 supplemental appropriations just described, the year's significant supplemental appropriation activity included:

- \$295 million for transfers to the Medical Assistance Trust Fund;
- \$116 million to fund collective bargaining contracts (\$101 million to be paid in FY19);
- \$26 million for transitional aid to families with dependent children;
- \$20 million for the Underground Storage Tank Program;
- \$19 million for emergency housing assistance to low-income families.

FY 18 budgeted revenues and other financing sources (before transfers between the budgeted funds, which are included in both spending and revenue and thus have no effect on fund balances) totaled \$43.819 billion, an increase of \$2.652 billion, or 6.4%, from FY17. As the Massachusetts economy continued to expand robustly, tax revenue grew by \$2.078 billion, or 8.7%. Personal income tax withholding increased by \$762 million, or 6.4%, capital gains revenue (part of the personal income tax) increased by \$498 million, or 42.0%, from FY17, sales and use tax grew by \$196 million, or 4.4%, corporate taxes grew by \$199 million, or 9.1%, and estate taxes increased by \$136 million, or 33.9%. Federal reimbursements totaled \$11.377 billion, an increase of \$519 million, or 4.8%, primarily due to growth in reimbursements for increased Medicaid program spending and for Medical Assistance Trust payments to local hospitals that care for Medicaid-eligible patients. Departmental revenue, which consists primarily of assessments and fees for state licenses and state services, totaled \$4.742 billion, an increase of \$360 million, or 8.2%, from FY17, driven largely by an increase of \$165 million in revenues from a new universal health insurance assessment, a \$58 million, or 60.3%, increase in payments from the University of Massachusetts Medical Center to the Commonwealth's General Fund, and a \$57 million, or 10.3%, increase in payments from Massachusetts cities and towns to the Group Insurance Commission to reimburse the Commonwealth for local health insurance programs managed by the GIC. Interfund transfers from nonbudgeted funds totaled \$1.793 billion, a decrease of \$306 million, or 14.6%, from FY17, due primarily to reduced trust fund closeouts and other non-budgeted fund transfers to the General Fund.

The Commonwealth continues to receive revenues, as it will in perpetuity, from the Master Settlement Agreement (MSA) between the states and the tobacco industry to recover health care costs for tobacco-related illnesses. In FY18, the Commonwealth received \$243 million in tobacco settlement funds, a decrease of \$11 million compared to FY17. The \$243 million represented approximately 66.9% of the estimated amounts shown in the MSA. Statute requires that a portion of tobacco settlement proceeds be transferred directly to the State Retiree Benefits Trust Fund (SRBTF) to fund the Commonwealth's liability for retiree health care, with the percentage of proceeds transferred increasing by 10% each year until 100% of such proceeds is to be deposited in the SRBTF in FY2022 and after. For FY18, the statutorily required transfer was 60% of tobacco settlement revenues; however, the FY18 budget actions reduced the percentage of tobacco settlement revenues deposited to the SRBTF from 60% to 30%. That action reduced the FY18 transfer to approximately \$73 million, compared to the statutorily required transfer of \$146 million.

FY18 budgeted expenditures and other financing uses, including transfers to non-budgeted funds (but before transfers between the budgeted funds) totaled \$42.880 billion, an increase of \$1.679 billion, or 4.1%, from FY17, with the increase primarily attributable to higher spending on Medicaid and other health care spending, pension contributions, and Local Aid.

Spending on programs and services totaled \$36.132 billion, an increase of \$1.165 billion, or 3.3%, from FY17. Medicaid expenditures totaled \$15.745 billion, an increase of \$493 million, or 3.2%, from FY17, with the growth primarily due to increased medical services utilization, Medicare premium increases, and health care cost growth, especially pharmacy costs for emerging drugs. Spending for direct local aid (both education aid and unrestricted aid), at \$5.886 billion, was up \$182 million, also up 3.2%, from FY17.

Spending on state employee health benefits paid through the Group Insurance Commission (excluding benefits paid to retirees) decreased by \$29 million, or 1.7%, declining from \$1.663 billion to \$1.634 billion. Budgeted debt service totaled \$2.323 billion, up \$39 million, or 1.7%, from FY17.

Interfund transfers to non-budgeted funds (primarily the Universal Health Care funds) totaled \$1.534 billion, an increase of \$243 million or 18.9%, primarily due to an increase in transfers to the Medical Assistance Trust Fund (where expenditures vary greatly from year-to-year, depending on the timeliness of federal government approval of certain reimbursements), which grew by \$177 million, or 43.8% from FY17, and growth in post-employment benefits (for pension contributions and retiree health insurance), which totaled \$2.891 billion, an increase of \$232 million, or 8.7%,

as the Commonwealth increased its pension contribution by \$196 million, or 8.9%, from FY17 and increased its transfer to the State Retiree Benefits Trust Fund (to fund retiree health insurance benefits) by \$48 million, from \$25 million to \$73 million.

In conducting the budget process, the Commonwealth excludes from its forecast those "interfund" transactions within the budgeted funds that are included in this report; these transactions by their nature have no impact on the combined fund balance of the budgeted funds. The <u>Budgeted Funds - Operations</u> table isolates this "interfund" activity from the budgeted sources and subtracts this revenue and spending to align forecasts prepared during the budget process and in bond disclosure documents to actual amounts in this report. In FY18, transfers among the Budgeted Funds totaled \$1.217 billion, an increase of \$600 million, or 97.1%, from FY17, primarily due to transfers from the General Fund and other budgeted funds to the Stabilization Fund resulting from increased capital gains taxes and the end of fiscal year's budget surplus, both of which are statutorily required to be deposited in the Stabilization Fund. A detailed list of these interfund transfers is included in <u>Note 3</u> of the financial statements and <u>Schedule C</u> of the Supplemental Information section of this report.

Budgeted Funds - Operations (Amounts in thousands)

| | 2018 | 2017 |
|--|--------------|--------------|
| Beginning fund balances: | | - |
| Reserved and designated. | \$ 117,396 | \$ 126,018 |
| Reserved for Stabilization Fund | 1,300,678 | 1,291,514 |
| Undesignated | 29,661 | 64,461 |
| Total | 1,447,735 | 1,481,993 |
| Revenues and other financing sources: | | |
| Taxes | 25,906,660 | 23,828,296 |
| Federal reimbursements | 11,376,956 | 10,857,830 |
| Departmental and other revenues, including tobacco settlement | 4,742,182 | 4,382,133 |
| Interfund transfers from non-budgeted funds and other financing sources | 1,793,423 | 2,099,068 |
| Budgeted revenues and other financing sources | 43,819,221 | 41,167,327 |
| Intragovernmental Service Fund revenues | 437,226 | 417,935 |
| Interfund transfers among budgeted funds and other financing sources | 779,788 | 199,481 |
| Total revenues and other financing sources | 45,036,235 | 41,784,743 |
| Expenditures and other financing uses: | | |
| Programs and services | 36,131,642 | 34,966,817 |
| Debt service | 2,323,361 | 2,284,677 |
| Post employment benefits | 2,891,491 | 2,659,709 |
| Interfund transfers to non-budgeted funds and other financing uses | 1,533,793 | 1,290,382 |
| Budgeted expenditures and other financing uses | 42,880,287 | 41,201,585 |
| Intragovernmental Service Fund expenditures | 437,226 | 417,935 |
| Interfund transfers among budgeted funds and other financing uses | 779,788 | 199,481 |
| Total expenditures and other financing uses | 44,097,301 | 41,819,001 |
| Excess (deficiency) of revenues and other financing sources over expenditures and other financing uses | 938,934 | (34,258) |
| Ending fund balances: | | |
| Reserved and designated | 371,472 | 117,396 |
| Reserved for Stabilization Fund | 2,001,299 | 1,300,678 |
| Undesignated | 13,898 | 29,661 |
| Total | \$ 2,386,669 | \$ 1,447,735 |

Budgeted Funds – Fund Balance (Including Stabilization Fund) (Amounts in millions)



The graph of <u>Budgeted Funds - Fund Balance</u> above portrays the combined fund balance in the budgeted funds for the past five years.

As of June 30, 2018, the ending balance is comprised mainly of the fund balance of the General Fund and the Stabilization Fund. Due to designations of fund balances, \$371 million of the total budgeted fund balance, exclusive of the Stabilization Fund, is reserved for appropriations and debt service in FY19. The remaining \$14 million is undesignated in the budgeted environmental funds that are not included in the consolidated net surplus calculation.

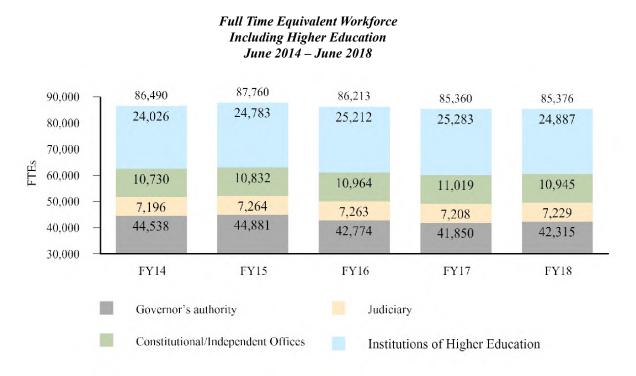
Lottery and Gaming

Gross Lottery revenues (including revenues from the Arts Lottery) grew from \$5.258 billion in FY17 to \$5.442 billion in FY18, an increase of \$184 million, or 3.5%. Despite the increase in gross revenues, Lottery profits, after deducting administrative expenses and fringe benefit charges to reimburse the Commonwealth's General Fund for pension and employee health insurance benefits, but prior to distributions to reimburse the Massachusetts Cultural Council appropriation as mandated in the FY18 budget, declined to \$997 million, a decrease of \$43 million, or 4.1%, from FY17, as prize payments increased. Of that \$997 million in profits, and as mandated in the FY18 General Appropriation Act, approximately \$982 million was transferred to the General Fund to reimburse it for so-called Unrestricted General Government Aid (formerly Lottery Local Aid), \$14 million reimbursed the Massachusetts Cultural Council appropriation, and \$1 million reimbursed a compulsive gambling prevention program appropriation.

FY18 was the third fiscal year in which tax revenues were collected on profits generated by slot machines at the Plainridge slots parlor. FY18 budgeted fund tax revenues remitted to the Commonwealth, which are equal to 40% of gross profits (or "gross gaming revenues") from the slot machines, totaled approximately \$68 million, an increase of \$1 million from FY17, which was earmarked for local aid; an additional \$15 million in non-budgeted fund revenue, equal to 9% of gross gaming revenue from the slot machines, was earmarked for advancement of horse racing. The FY19 budget relies on \$66 million in budgeted fund revenue from taxes on slots parlor profits.

Full-Time Equivalent Employment

The chart below shows the Commonwealth's full-time equivalent employment, including the Massachusetts Department of Transportation (MassDOT) for all state funding sources (budgetary, non-budgetary, capital, federal, and trust) over the past five fiscal years. As of June 30, 2018, the number of Commonwealth employees was virtually the same as on June 30, 2017, increasing over the year by a net of approximately 16 full-time equivalent employees (FTEs), to a total of 85,376.

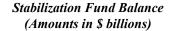


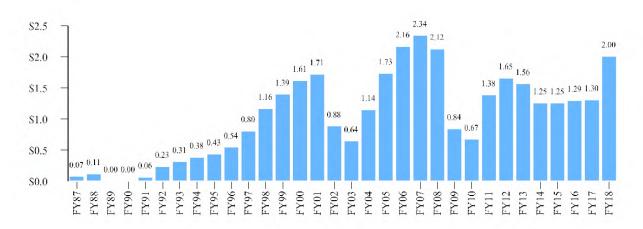
The Stabilization Fund

The Stabilization (or rainy day) Fund provides a reserve to be used in the event of an economic downturn or other fiscal emergency. The balance of the Stabilization Fund increased by \$701 million, to \$2.001 billion, between FY17 and FY18, with the main sources of growth being transfers of certain capital gains tax revenues and the end of fiscal year surplus.

Massachusetts state finance law includes a statutory requirement to transfer tax revenue attributable to capital gains above an annual threshold to the Stabilization Fund, State Pension Liability Fund, and State Retiree Benefits Trust Fund. The FY18 capital gains tax threshold, as determined by the Department of Revenue, was \$1.169 billion. In July 2018, the Department of Revenue certified that FY18 tax collections attributable to capital gains totaled \$1.683 billion, resulting in a \$514 million transfer of above-threshold capital gains tax revenue from the General Fund, with \$463 million going to the Stabilization Fund and \$26 million being transferred to both the State Pension Liability Fund and the State Retiree Benefits Trust Fund. In closing the books on FY18, the Comptroller transferred \$209 million of the consolidated net surplus to the Stabilization Fund per state finance law. During the fiscal year, the Fund also earned \$15 million in investment income and received a small amount of tax revenue, and at the end of the fiscal year, an additional \$13 million was transferred to the Stabilization Fund from an increase in FY18 net abandoned property collections, as required by state finance law. The Commonwealth made no withdrawals from the Stabilization in FY18, other than the statutorily required transfers of capital gains tax revenue to Pension and Retiree Benefits Funds. (Detail on transfers to and from the Stabilization Fund is shown in the table on page 116).

The following chart shows the end of fiscal year Stabilization Fund balances since the Fund's inception in 1986.

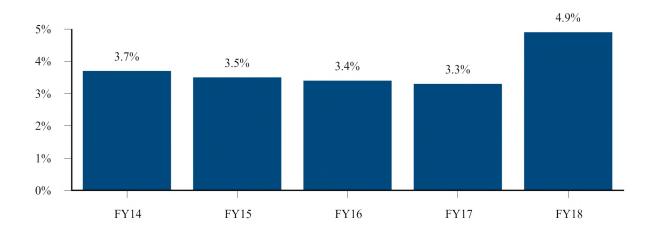




Rainy day fund balances are typically measured both in terms of the absolute size of those funds and the funds' balances as a percentage of General Fund expenditures, with the latter calculation taking into account a state's level of spending that stabilization funds are required to cover when economic downturns cause unanticipated declines in states' tax revenues and increases in demand for state services. According to The National Association of State Budget Officers' (NASBO) *Spring 2018 Fiscal Survey of the States*, at the close of FY17 (the most recent year for which final rainy day fund balances were available for all states), the Commonwealth Stabilization Fund's balance of \$1.301 billion, or 3.3% of General Fund expenditures, was the thirteenth largest in the nation in absolute terms. (Five states had a zero stabilization fund balance at the end of FY17.). According to the *Survey* and the Commonwealth's results shown in this report, at the end of FY18 Massachusetts, with a Stabilization Fund balance of \$2.001 billion, or 4.9% of the Commonwealth's General Fund expenditures, will have the sixth largest stabilization fund balance at the end of FY18 in absolute size.

The following chart shows the Commonwealth's Stabilization Fund balance as a percentage of General Fund expenditures over the past five fiscal years. Prior years' financial reports have shown this measure of Stabilization Fund balance in comparison to the median percentage of other states; however, many other states account for federally reimbursed spending not in the General Fund, but in a separate fund established for that purpose, while Massachusetts accounts for such expenditures (equal to more than \$11 billion in FY18, most of which is for Medicaid) in the General Fund. This difference in accounting practice between Massachusetts and other states results in the Commonwealth having a lower Stabilization Fund balance as a percentage of General Fund expenditures than would be the case if such expenditures were accounted for identically to other states. Therefore, this percentage measure is not strictly comparable to other states and has been excluded from this year's SBFR.

Stabilization Fund Balance as a Percentage of General Fund Expenditures



With the \$701 million added to the Stabilization Fund balance in FY18, the Fund's balance has risen close to a level not seen since FY08, though the balance is still more than \$340 million below its highest point in FY07, prior to the most recent recession. The FY19 General Appropriation Act assumes that a deposit of more than \$400 million will be made to the Fund in FY18 from above-threshold capital gains tax revenue and interest earnings.

The Non-Budgeted Funds

The Non-Budgeted Funds represent operations in which the government has imposed its sovereign authority but has excluded these operations from the annual budget process. During FY18, the Commonwealth maintained 101 non-budgeted funds, while another 23 were inactive.

The largest non-budgeted funds in terms of operating revenues include the State Lottery and Gaming Fund, the Federal Grants Fund, the MBTA State and Local Contribution Trust Fund (which accounts for sales tax revenue dedicated to and transferred to the MBTA), the School Modernization Trust Fund (which accounts for sales tax revenue dedicated to and transferred to Massachusetts School Building Authority), the Medical Assistance Trust Fund, and the Commonwealth Care Trust Fund. Other funds that show large inflows include the Grant Anticipation Notes Trust Fund, which is funded by federal highway spending reimbursements.

The table on the following page, Non-Budgeted Special Revenue Funds - Operations, summarizes the FY18 non-budgeted funds. A Statement of Revenues, Expenditures and Changes in Fund Balance is presented in a table within this report for each of the individual non-budgeted funds in the financial section of this report. The table includes the State Lottery Funds, where Lottery revenues and expenditures occur prior to Lottery profits being transferred to the General Fund to reimburse it for local aid and other appropriations.

Non-Budgeted Special Revenue Funds - Operations (Amounts in thousands)

| | 2018 | | 2017 | |
|--|------|------------|------|------------|
| Beginning fund balance | \$ | 1,891,339 | \$ | 2,066,899 |
| Revenues and other financing sources: | | | | |
| Taxes | | 2,269,843 | | 2,214,074 |
| Assessments | | 806,095 | | 754,577 |
| Federal grants and reimbursements | | 3,488,353 | | 3,255,134 |
| Departmental and miscellaneous | | 6,779,993 | | 6,415,100 |
| Transfers and other financing sources | | 1,519,517 | | 1,334,082 |
| Total revenues and other financing sources | | 14,863,801 | | 13,972,967 |
| Expenditures and other financing uses: | | | | |
| Programs and services | | 12,527,983 | | 11,749,567 |
| Debt service | | 195,607 | | 193,876 |
| Transfers and other financing uses | | 1,962,804 | | 2,205,084 |
| Total expenditures and other financing uses | | 14,686,394 | | 14,148,527 |
| Excess (deficiency) of revenues and other financing sources over | | | | |
| expenditures and other financing uses | | 177,407 | | (175,560) |
| Ending fund balance | \$ | 2,068,746 | \$ | 1,891,339 |

In FY18, four Non-Budgeted Special Revenue Funds had operating deficits in excess of \$10 million. They were:

- \$25 million Health Safety Net Trust Fund;
- \$31 million MassHealth Delivery System Reform Trust;
- \$17 million Distressed Hospital Trust Fund;
- \$12 million Enhanced 911 Fund.

In FY18, \$61 million of the Commonwealth's federal transportation funds were used to repay prior year expenditures, which were financed through Federal Grant Anticipation Notes (GANs). In addition, approximately \$37 million in interest payments for the GANs were funded by a General Fund appropriation.

For the fifteen active Universal Health Care funds, revenues and other financing sources were \$2.295 billion in FY18, an increase of approximately \$531 million from FY17. This increase was due primarily to growth in transfers to the Medical Assistance Trust Fund (MATF) and the Massachusetts Health System Delivery Reform Trust Fund. Expenditures from the Universal Health Care funds totaled \$2.335 billion, an increase of \$548 million from FY17, due primarily to growth in spending from those same two funds. The following chart, Non-Budgeted Special Revenue Funds - Fund Balance, shows the combined fund balance in the Non-Budgeted Special Revenue funds for the past five years.

Non-Budgeted Special Revenue Funds – Fund Balance (Amounts in millions)



Individual non-budgeted funds that represent approximately 92% of total non-budgeted fund balances include:

- \$843 million Massachusetts Transportation Trust Fund;
- \$379 million Central Artery/Tunnel Project Repair and Maintenance Trust Fund;
- \$196 million Convention and Exhibition Center Fund:
- \$111 million Enhanced 911 Fund;
- \$93 million Grant Anticipation Note Trust Fund;
- \$83 million Commonwealth Care Trust Fund;
- \$78 million Health Safety Net Trust Fund;
- \$41 million Workforce Training Trust Fund;
- \$26 million MassHealth Delivery System Reform Trust Fund;
- \$21 million Community Preservation Trust Fund;
- \$18 million Medical Marijuana Trust Fund;
- \$17 million Distressed Hospital Trust Fund.

As noted in previous reports, the Government Land Bank Fund has a continuing structural fund deficit. The FY18 deficit balance of approximately \$35 million remains an unbudgeted drain on the Commonwealth's cash pool. While steps have been taken to stop the growth in this deficit, the Fund should be abolished and the deficit transferred to the General Fund. More consolidation and elimination is needed for the non-budgeted special revenue funds generally.

The Capital Projects Funds

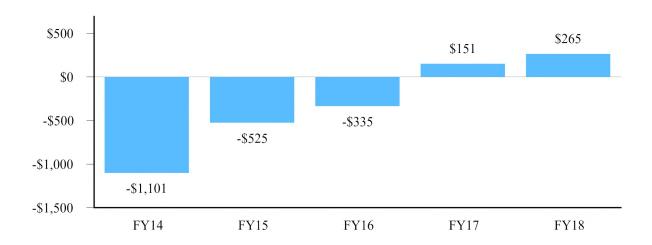
The purpose of the capital project funds is to account for the construction or acquisition of capital assets. The Governor may propose capital outlay budgets which, upon enactment by the Legislature and approval by the Governor, become capital outlay acts. Capital outlay acts financed through the sale of debt require a two-thirds vote of the Legislature. Numerous acts may be combined for reporting in an individual Capital Projects Fund, but each act is accounted for separately within the fund. These accounts record authorizations for expenditures in itemized capital appropriation accounts and equivalent authorizations to issue bonds or notes.

The structure of these funds is such that each capital outlay authorization is in balance, creating authorization for inflows (which may be from sales of bonds, federal reimbursements or other revenues) and expenditures. Imbalances due to timing differences develop when the expenditure precedes the inflow of funds from the sale of bonds or federal reimbursements. Due to restrictions imposed by federal tax arbitrage rules, tax exempt bonds are not routinely sold in anticipation of expenditures.

To fund the FY18 capital budget, the Commonwealth borrowed by issuing \$2.384 billion in long-term bonds, \$1.734 billion of which was general obligation debt and \$650 million was special obligation debt secured by motor fuels taxes and motor vehicle license and registration fees. In addition, the Commonwealth issued \$993 million in debt to refund already existing obligations, taking advantage of continued low interest rates in FY18. Finally, MassDOT issued approximately \$136 million in bonds to refund outstanding Metropolitan Highway System Revenue Bonds.

The following graph <u>Capital Projects Funds</u> - <u>Fund Balance (Deficit)</u> shows the combined fund balance in Capital Projects Funds for the past five years. Typically, the combined ending balance in the Capital Projects Funds is negative, as capital spending occurs prior to bonds being issued by the Commonwealth. However, at the end of FY18, the Capital Projects Funds had a \$265 million positive balance, as Commonwealth issued debt at the end of the fiscal year to take advantage of favorable interest rates and to reimburse itself for previous capital expenditures and those anticipated for July 2018.

Capital Projects Funds – Fund Balance (Deficit) (Amounts in millions)



The <u>Capital Projects Funds - Operations</u> table on the next page includes the FY18 Capital Projects Funds, summarized and compared to FY17. Financial statements for each of the individual funds are included in the financial section of this report.

Capital Projects Funds - Operations (Amounts in thousands)

| | 2018 | | 2017 | |
|--|------|-----------|------|-----------|
| Beginning fund balance (deficit) | \$ | 150,555 | \$ | (334,694) |
| Revenues and other financing sources: | | | | |
| Federal grants and reimbursements | | 99,001 | | 58,354 |
| Departmental and miscellaneous | | 10,537 | | 4,081 |
| Proceeds of general and special obligation bonds | | 2,727,039 | | 3,136,222 |
| Proceeds of refunding bonds | | 1,310,616 | | 2,269,192 |
| Transfers and other financing sources | | 599,840 | | 600,302 |
| Total revenues and other financing sources | | 4,747,033 | | 6,068,151 |
| Expenditures and other financing uses: | | | | |
| Acquisition and maintenance of capital assets | | 3,185,685 | | 3,187,010 |
| Payments to advance refunding escrow agent/principal repayment | | 1,310,616 | | 2,269,192 |
| Transfers and other financing uses | | 136,027 | | 126,700 |
| Total expenditures and other financing uses | | 4,632,328 | | 5,582,902 |
| Excess (deficiency) of revenues and other financing sources | | | | |
| over expenditures and other financing uses | | 114,705 | | 485,249 |
| Ending fund balance (deficit) | \$ | 265,260 | \$ | 150,555 |

The Administration oversees a coordinated fiscal strategy for the management of Capital Projects Funds. This strategy includes a five-year capital budget linked to debt management and capital management. The focus of this strategy is to manage capital spending within outstanding debt levels and debt service obligations the Administration considers appropriate for the Commonwealth. An important part of the strategy is to control capital spending within an administrative "cap."

During FY18, significant capital spending included:

- \$414 million for state owned facilities including higher education campuses, trial courts, and state health care facilities;
- \$286 million in support for Rail Enhancement Projects/MBTA projects, including investment in reducing
 the MBTA's State of Good Repair backlog, acquisition of new vehicles for the Red and Orange Lines, and
 the Green Line Extension;
- \$241 million for affordable housing development and public housing;
- \$196 million in Chapter 90 reimbursements to municipalities for local road and bridge projects;
- \$191 million for economic development initiatives, including the MassWorks infrastructure grants to municipalities and the Workforce Skills capital grants to educational institutions;
- \$158 million in bridge repair projects under the Commonwealth's Accelerated Bridge Program;
- \$128 million in spending for the Department of Conservation and Recreation, including improvements to roadways, parks, and for environmental spending;

- \$30 million for grants from the Massachusetts Life Sciences Center to foster economic development in the life sciences sector;
- \$20 million for construction and planning grants from the Board of Library Commissioners to public library systems;
- \$10 million for aid to towns in western Massachusetts to extend high-speed broadband networks.

During FY18, the Commonwealth passed or agreed to terms for approximately \$444 million in bond authorizations. There were no deauthorizations of previously enacted bond bills in FY18.

The Non-Appropriated Funds of Higher Education

The statistical section of this SBFR includes data on the financial operations of the non-appropriated funds of the 25 institutions of higher education as reported on MMARS. Each institution of higher education is authorized and directed in its enabling statute to collect, retain and expend certain fees, rents, sales, donations, federal financial participation and other types of revenue through campus-based systems. These financial resources are integral parts of the total financial activity of each campus. They also represent resources in addition to amounts made available from Commonwealth appropriations.

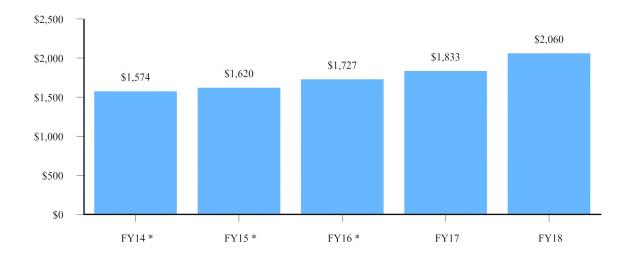
Non-Appropriated Funds Of Higher Education - Operations (Amounts in thousands)

| | 2018 | | 2017 | |
|--|------|-----------|------|-----------|
| Beginning fund balance | \$ | 1,833,417 | \$ | 1,726,669 |
| Revenues and other financing sources: | | | | |
| Federal grants and reimbursements | | 517,513 | | 515,589 |
| Departmental revenues | | 2,479,663 | | 2,296,093 |
| Transfers and other financing sources | | 1,932,448 | | 1,930,299 |
| Total revenues and other financing sources | | 4,929,624 | | 4,741,981 |
| Expenditures and other financing uses: | | | | |
| Programs and services. | | 4,702,780 | | 4,635,233 |
| Excess/(deficiency) of revenues and other financing sources over/(under) | | | | |
| expenditures and other financing uses | | 226,844 | | 106,748 |
| Ending fund balance | \$ | 2,060,261 | \$ | 1,833,417 |

The Non-Appropriated Funds of Higher Education – Operations table above includes the FY18 activity in Higher Education funds, summarized and compared to FY17. Financial statements for each of the individual funds are included in the statistical section of this report. The following chart, Non-Appropriated Funds of Higher Education - Fund Balance, shows the combined fund balance for the past five years. The combined balance represents an approximate \$1.069 billion fund balance for the University of Massachusetts, an approximate \$586 million fund balance for the State University (formerly the State College) system and an approximate \$405 million fund balance for the Community Colleges.

17

Non-Appropriated Funds of Higher Education – Fund Balance (Amounts in Millions)



* Fund balances were restated due to amounts previously unreported

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CONSTITUTIONAL OFFICERS

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Karyn E. Polito Lieutenant Governor

William F. Galvin Secretary of State

Maura Healey
Attorney General

Deborah B. Goldberg
Treasurer and Receiver-General

Suzanne Bump *Auditor*

LEGISLATIVE OFFICERS

Karen E. Spilka *President of the Senate*

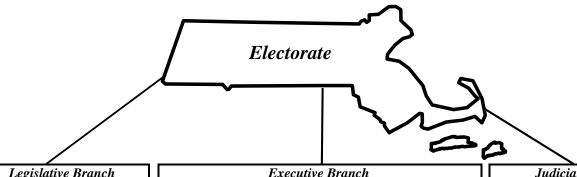
Robert A. DeLeo Speaker of the House

JUDICIAL OFFICERS

Ralph D. Gants
Chief Justice, Supreme Judicial Court

Mark Green Chief Justice, Appeals Court

Jonathan Williams
Court Administrator, Trial Court



Legislative Branch

House of Representatives Senate

Governor and Lieutenant Governor State Auditor

Governor's Council Secretary of the Commonwealth Attorney General Treasurer and Receiver-General

Sheriffs District Attorneys

Independent Offices and Commissions*

Judicial Branch

Supreme Judicial Court Appeals Court

Trial Court

Committee for Public Counsel Board of Bar Examiners Commission on Judicial Conduct Mental Health Legal Advisors

Executive Branch Independent Offices and Commissions*

Board of Library Commissioners Campaign and Political Finance Cannabis Control Commission

Center for Health Information & Analysis

Commission Against Discrimination

Commission on the Status of Women Disabled Persons Protection Commission Massachusetts Gaming Commission Office of the Child Advocate Office of the Comptroller

Office of the Inspector General State Ethics Commission

State Retiree Benefits Trust Fund Board University of Massachusetts System

Executive Departments Under Gubernatorial Authority

Administration and Finance

Executive Office for Administration and Finance

Appellate Tax Board Bureau of the State House Civil Service Commission Department of Revenue

Developmental Disabilities Council Division of Administrative Law Appeals

Division of Capital Asset Management

and Maintenance

George Fingold Library Group Insurance Commission Health Policy Commission

Human Resource Division

Massachusetts Office on Disability

Massachusetts Teachers' Retirement System

Operational Services Division Public Employee Retirement Administration Commission

Education

Executive Office of Education Department of Early Education and Care Department of Elementary and

Secondary Education

Department of Higher Education

Community Colleges State Universities

Housing and Economic Development

Executive Office of Housing and Economic

Development

Department of Business Development Office of Consumer Affairs & Business

Regulations

Massachusetts Marketing Partnership

Department of Housing & Community Development

Department of Telecommunications

and Cable Division of Banks

Division of Insurance

Division of Professional Licensure

Division of Standards

Energy and Environmental Affairs

Executive Office of Energy and Environmental

Affairs

Department of Agricultural Resources

Department of Conservation and Recreation

Department of Energy Resources

Department of Environmental Protection

Department of Fish and Game

Department of Public Utilities

State Reclamation Board

Technology and Security

Executive Office of Technology Services and Security

Transportation and Public Works

Executive Office of Transportation and Public Works

Executive Office of Labor and Workforce

Development

Health and Human Services

Executive Office of Health and

Human Services

Executive Office of Elder Affairs

Department of Children and Families

Department of Developmental Services

Department of Mental Health

Department of Public Health

Department of Transitional Assistance

Department of Veterans' Services

Department of Youth Services

Massachusetts Commission for the Blind

Massachusetts Commission for the Deaf

and Hard of Hearing

Massachusetts Rehabilitation Commission

Office for Refugees and Immigrants

Soldiers' Home, Holyoke

Soldiers' Home, Massachusetts

Public Safety

Executive Office of Public Safety and Security

Chief Medical Examiner

Department of Criminal Justice Information Services

Department of Correction

Department of Fire Services

Department of State Police

Massachusetts Emergency Management Agency

Military Division/ Massachusetts National Guard

Municipal Police Training Committee

Parole Board

Sex Offender Registry

ADVISORY BOARD TO THE COMPTROLLER

Michael J. Heffernan (Chair) Secretary of Administration and Finance

Suzanne Bump *Auditor*

Deborah B. Goldberg
Treasurer and Receiver-General

Jonathan Williams Chief Administrator, Trial Court

Maura Healey *Attorney General*

Michael Esmond Chief Financial Officer Massachusetts Convention Center Authority Gubernatorial Appointee

> Natalie Monroe First Assistant Inspector General Office of the Inspector General Gubernatorial Appointee

REPORT PREPARED BY:

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Chief of Strategic Communications



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Financial Section



Independent Accountants' Review Report Combined Financial Statements - Statutory Basis Notes to Combined Financial Statements - Statutory Basis Combining and Individual Fund Financial Statements - Statutory Basis



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KPMG LLP Two Financial Center 60 South Street Boston, MA 02111

Independent Accountants' Review Report

Mr. Thomas G. Shack III, Comptroller Commonwealth of Massachusetts:

We have reviewed the accompanying combined financial statements – statutory basis of the Commonwealth of Massachusetts as of and for the year ended June 30, 2018, and the related notes as listed in the accompanying table of contents. A review includes primarily applying analytical procedures to management's financial data and making inquiries of management. A review is substantially less in scope than an audit, the objective of which is the expression of an opinion regarding the combined financial statements – statutory basis as a whole. Accordingly, we do not express such an opinion.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of the combined financial statements – statutory basis in accordance with Section 12 of Chapter 7A of the Massachusetts General Laws, as amended, and the budgetary principles of the Commonwealth of Massachusetts (hereafter referred to as the Statutory Basis of Accounting) as described in notes 1 and 2, and is not intended to be a presentation in conformity with U.S. generally accepted accounting principles. Management is also responsible for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the combined financial statements – statutory basis that are free from material misstatement, whether due to fraud or error.

Accountants' Responsibility

Our responsibility is to conduct the review engagement in accordance with Statements on Standards for Accounting and Review Services issued by the American Institute of Certified Public Accountants. Those standards require us to perform procedures to obtain limited assurance as a basis for reporting whether we are aware of any material modifications that should be made to the combined financial statements – statutory basis for them to be in accordance with the Statutory Basis of Accounting. We believe that the results of our procedures provide a reasonable basis for our conclusion.

Accountants' Conclusion

Based on our review, we are not aware of any material modifications that should be made to the accompanying combined financial statements – statutory basis in order for them to be in conformity with the basis of accounting described in notes 1 and 2.

Basis of Accounting

The accompanying combined financial statements – statutory basis were prepared on the basis of accounting that demonstrates compliance with the Statutory Basis of Accounting as described in notes 1 and 2, and is not intended to be a presentation in accordance with U.S. generally accepted accounting principles.

Other Matters

The combining and individual fund financial statements - statutory basis and supplemental information listed in the accompanying table of contents are presented for purposes of additional analysis and are not required parts of the combined financial statements – statutory basis. Such information is the responsibility of management and was derived from, and relates directly to, the underlying accounting and other records used to prepare the combined financial statements – statutory basis. Such information has been subjected to the



review procedures applied in our review of combined financial statements – statutory basis. We are not aware of any material modifications that should be made to combining and individual fund financial statements-statutory basis and supplemental information. We have not audited the combining and individual fund financial statements – statutory basis and supplemental information and accordingly, do not express an opinion on such information.

The introductory and statistical sections listed in the accompanying table of contents are presented for purposes of additional analysis and are not required parts of the combined financial statements – statutory basis. Such information is the responsibility of management. We have not audited or reviewed such information and we do not express an opinion, a conclusion, nor provide any assurance on such information.

Restriction of Use

This report is intended solely for the information and use of management and elected and appointed officials of the Commonwealth of Massachusetts and is not intended to be and should not be used by anyone other than these specified parties.

KPMG LLP

Boston, Massachusetts November 6, 2018

Combined Financial Statements - Statutory Basis

Budgeted Funds

Combined Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | To (Memorar | tals idum | only) |
|---|-----------------|--------------|-----------|
| | 2018 | | 2017 |
| ASSETS | | | |
| Cash and short-term investments. | \$ 2,496,151 | \$ | 1,368,250 |
| Cash with fiscal agent | 19,373 | | 18,080 |
| Investments | 272,468 | | 272,224 |
| Receivables, net of allowance for uncollectibles: | | | |
| Due from federal government | 476,376 | | 646,986 |
| Other receivables | 184,466 | | 18,501 |
| Due from cities and towns | 34,647 | | 12,143 |
| Total assets | \$ 3,483,481 | \$ | 2,336,184 |
| LIABILITIES AND FUND EQUITY | | | |
| Liabilities: | | | |
| Accounts payable | \$ 997,490 | \$ | 810,363 |
| Accrued payroll | 99,322 | | 78,086 |
| Total liabilities | 1,096,812 | | 888,449 |
| Fund equity: | | | |
| Combined fund balance: | | | |
| Reserved for: | | | |
| Continuing appropriations | 352,099 | | 99,316 |
| Commonwealth Stabilization | 2,001,299 | | 1,300,678 |
| Debt service | 19,373 | | 18,080 |
| Unreserved: | | | |
| Undesignated | 13,898 | | 29,661 |
| Total fund equity | 2,386,669 | | 1,447,735 |
| Total liabilities fund equity | \$ 3,483,481 | \$ | 2,336,184 |

See accompanying notes to financial statements and accountants' review report

Budgeted FundsCombined Statements Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis - Budget and Actual Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | Budget | Actual | Variance Favorable (Unfavorable) |
|--|----------------------|----------------------|--|
| REVENUES AND OTHER FINANCING SOURCES | | | |
| Revenues: Taxes | \$ 24,864,400 | \$ 25,906,660 | \$ 1,042,260 |
| Assessments | 464,509 | 439,686 | (24,823) |
| Federal grants and reimbursements | 11,286,123 | 11,376,956 | 90,833 |
| Tobacco settlement revenue | 257,500 | 243,313 | (14,187) |
| Departmental | 3,655,017 | 4,071,620 | 416,603 |
| Miscellaneous | 294,856 | 424,789 | 129,933 |
| Total revenues | 40,822,405 | 42,463,024 | 1,640,619 |
| Other financing sources: | | | |
| Fringe benefit cost recovery | 435,041 | 434,924 | (117) |
| Lottery reimbursements | 90,888 | 103,136 | 12,248 |
| Lottery distributions | 994,754 | 983,108 | (11,646) |
| Operating transfers in | 350,804 | 315,398 | (35,406) |
| Stabilization transfer | 85,341 | 736,645 | 651,304 |
| Total other financing sources | 1,956,828 | 2,573,211 | 616,383 |
| Total revenues and other financing sources | 42,779,233 | 45,036,235 | 2,257,002 |
| EXPENDITURES AND OTHER FINANCING USES Expenditures: Legislature | 103,532 | 67,850 | 35,682 |
| Judiciary | 929,008 | 919,016 | 9,992 |
| Inspector General | 4,371 | 4,370 | 1 |
| Governor and Lieutenant Governor | 7,602 | 6,574 | 1,028 |
| Secretary of the Commonwealth | 43,086 | 39,339 | 3,747 |
| Treasurer and Receiver-General | 219,374 | 215,183 | 4,191 |
| Auditor of the Commonwealth | 18,723 | 18,610 | 113 |
| Attorney General | 49,256 | 47,993 | 1,263 |
| Ethics Commission | 2,094 | 2,042 | 52 |
| District Attorney. | 119,703 | 119,206 | 497 |
| Office of Campaign & Political Finance | 1,618 | 1,594 | 24 |
| Sheriffs'Departments | 621,940 | 620,318 | 1,622 |
| Disabled Persons Protection Commission. | 3,131 | 3,131 | _ |
| Board of Library Commissioners | 25,453 | 25,443 | 10 |
| Comptroller | 14,405 | 13,877 | 528 |
| Administration and Finance Energy and Environmental Affairs | 2,641,365 244,535 | 2,305,871 230,956 | 335,494 13,579 |
| Health and Human Services | 6,369,091 | 6,035,926 | 333,165 |
| Executive Office of Technology Services and Security | 151,555 | 73,456 | 78,099 |
| Massachusetts Department of Transportation | 127,000 | 127,000 | 70,077 |
| Office of the Child Advocate | 800 | 706 | 94 |
| Cannabis Control Commission | 6,999 | 2,241 | 4,758 |
| Executive Office of Education | 2,351,178 | 2,289,929 | 61,249 |
| Center for Health Information and Analysis | 32,044 | 21,452 | 10,592 |
| Public Safety and Security | 1,226,536 | 1,166,779 | 59,757 |
| Housing and Economic Development | 553,578 | 533,168 | 20,410 |
| Labor and Workforce Development | 60,670 | 46,785 | 13,885 |
| Direct local aid | 5,890,434 | 5,885,520 | 4,914 |
| Medicaid program expenses | 15,609,522 | 15,744,534 | (135,012) |
| Post employment benefits | 2,826,904 | 2,891,491 | (64,587) |
| Debt service: Principal retirement | 1,340,701 | 1,299,705 | 40,996 |
| Interest and fiscal charges | 1,046,843 | 1,023,656 | 23,187 |
| Total expenditures | 42,643,051 | 41,783,721 | 859,330 |
| Total expenditures | 42,043,031 | 41,763,721 | 639,330 |
| Other financing uses: Fringe benefit cost assessment | 000.076 | 4,952 | (4,952) |
| Operating transfers out | 900,976 | 954,099 25,695 | (53,123) (25,695) |
| State Pension transfer | _ | 25,695 | (25,695) |
| State Pension transfer Stabilization transfer | 51,500 | 723,195 | (671,695) |
| Medical assistance transfer | 747,100 | 579,944 | 167,156 |
| Total other financing uses | 1,699,576 | 2,313,580 | (614,004) |
| Total expenditures and other financing uses | 44,342,627 | 44,097,301 | 245,326 |
| Excess (deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | \$ (1,563,394) | 938,934 | \$ 2,502,328 |
| Fund balance (deficit) at beginning of year | | 1,447,735 | |
| Fund balance (deficit) at end of year | | \$ 2,386,669 | |

See accompanying notes to financial statements and accountants' review report

Non-Budgeted Special Revenue and Capital Projects Funds

Combined Statements Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | - | | | tals idum only) | tals dum only) | |
|---|---------------------------------|--------------------|----------------------|--------------------|----------------------|--|
| | Non-Budgeted Special Revenue | Capital Projects | 2018 | 20 | 017 | |
| REVENUES AND OTHER FINANCING SOURCES | | | | | | |
| Revenues: Taxes | \$ 2,269,843 | s – | \$ 2.269.843 | \$ | 2,214,074 | |
| Assessments | 806,095 | _ | 806,095 | Ψ | 754,577 | |
| Federal grants and reimbursements | 3,488,353 | 99,001 | 3,587,354 | | 3,313,488 | |
| Departmental | 6,731,084 | 7,178 | 6,738,262 | | 6,371,654 | |
| Miscellaneous | 48,909 | 3,359 | 52,268 | | 47,527 | |
| Total revenues | 13,344,284 | 109,538 | 13,453,822 | | 12,701,320 | |
| Other financing sources: | | | | | | |
| Issuance of general obligation bonds | _ | 1,734,443 | 1,734,443 | | 2,408,675 | |
| Bond premiums/(discounts) on general obligation bonds | _ | 233,292 | 233,292 | | 210,424 | |
| Issuance of special obligation bonds | _ | 650,000 | 650,000 | | 461,975 | |
| Bond premiums/(discounts) on special obligation bonds | _ | 109,304 | 109,304 | | 55,148 | |
| Issuance of current refunding bonds | _ | 602,425 | 602,425 | | 188,490 | |
| Bond premiums/(discounts) on current refunding bonds | _ | 80,193 | 80,193 | | _ | |
| Issuance of advance refunding bonds | _ | 526,180 | 526,180 | | 1,664,790 | |
| Bond premiums/(discounts) on advance refunding bonds | _ | 101,818 | 101,818 | | 415,912 | |
| Operating transfers in | 939,573 | 490,981 | 1,430,554 | | 1,230,696 | |
| Medical assistance transfer | 579,944 | _ | 579,944 | | 403,367 | |
| State share of federal highway construction | _ | 108,859 | 108,859 | | 111,172 | |
| Delivery system transformation initiatives trust transfer | | | | | 189,149 | |
| Lottery deficit support | | _ | | | _ | |
| Total other financing sources | 1,519,517 | 4,637,495 | 6,157,012 | | 7,339,798 | |
| Total revenues and other financing sources | | 4,747,033 | 19,610,834 | | 20,041,118 | |
| EXPENDITURES AND OTHER FINANCING USES | | | | | | |
| Expenditures: | | | | | | |
| Judiciary | 1,764 | 12,302 | 14,066 | | 20,515 | |
| Inspector General | 387 | _ | 387 | | 258 | |
| Governor and Lieutenant Governor | 73 | _ | 73 | | 132 | |
| Secretary of the Commonwealth | 5,710 | 1,501 | 7,211 | | 6,394 | |
| Treasurer and Receiver-General | 6,369,962 | 45,643 | 6,415,605 | | 6,111,487 | |
| Auditor of the Commonwealth | _ | 1,299 | 1,299 | | 2,936 | |
| Attorney General | 48,675 | 973 | 49,648 | | 25,458 | |
| Ethics Commission | _ | 6 | 6 | | 87 | |
| District Attorney | 3,108 | _ | 3,108 | | 3,047 | |
| Sheriffs' Departments | 14,362 | 3,027 | 17,389 | | 14,433 | |
| Disabled Persons Protection Commission | 571 | _ | 571 | | 159 | |
| Board of Library Commissioners | 2,791 | 19,936 | 22,727 | | 15,289 | |
| Massachusetts Gaming Commission | 44,238 | _ | 44,238 | | 36,749 | |
| Comptroller | 2,128 | | 2,128 | | 2,159 | |
| Administration and Finance. | 423,701 | 439,483 | 863,184 | | 1,012,326 | |
| Energy and Environmental Affairs | 123,529 | 210,408 | 333,937 | | 318,964 | |
| Health and Human Services | 2,517,235 | 62,810 | 2,580,045 | | 2,010,842 | |
| Executive Office of Technology Services and Security | 8,754 | 55,627 | 64,381 | | | |
| Massachusetts Department of Transportation. | 1,041,745 | 1,811,028 | 2,852,773 | | 2,989,191 | |
| Executive Office of Education | 1,009,933 | 53,081 | 1,063,014 | | 1,045,954 | |
| Center for Health Information and Analysis | 222.218 | 20.218 | 262.526 | | 208 | |
| Public Safety and Security | 223,318 539,198 | 39,218 428,192 | 262,536 967,390 | | 286,623 862,894 | |
| • | | | | | | |
| Labor and Workforce Development | 146,796 | 1,147 | 147,943 | | 170,472 | |
| Principal retirement | 87,857 | | 87,857 | | 76,797 | |
| Interest and fiscal charges. | | _ | 107,750 | | 117,079 | |
| Total expenditures. | 107,750 12,723,590 | 3,185,685 | 15,909,275 | | 15,130,453 | |
| Other financing uses: | , , , , , , , | ., ., ., | .,, | | .,, | |
| Payments to advance refunding bonds escrow | _ | 627,998 | 627,998 | | 2,080,702 | |
| Principal on current refundings | _ | 682,618 | 682,618 | | 188,490 | |
| Fringe benefit cost assessment | 185,564 | 27,157 | 212,721 | | 204,965 | |
| Lottery operating reimbursements | | 27,137 | 103,136 | | 100,392 | |
| Lottery distributions | 983,108 | _ | 983,108 | | 1,025,411 | |
| Operating transfers out | 690,996 | 11 | 691,007 | | 813,292 | |
| Commonwealth care trust transfer. | | _ | | | 76,552 | |
| State share of federal highway construction | _ | 108,859 | 108,859 | | 111,172 | |
| Total other financing uses. | 1,962,804 | 1,446,643 | 3,409,447 | | 4,600,976 | |
| Total expenditures and other financing uses | 14,686,394 | 4,632,328 | 19,318,722 | | 19,731,429 | |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures | | | | | | |
| and other financing uses | 177,407 1,891,339 | 114,705 150,555 | 292,112 2,041,894 | | 309,689 1,732,205 | |
| | | | | | | |
| Fund balance/(deficit) at end of year | \$ 2,068,746 | \$ 265,260 | \$ 2,334,006 | \$ | 2,041,894 | |

See accompanying notes to financial statements and accountants' review report

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1. FINANCIAL STATEMENT PRESENTATION

A. INTRODUCTION

The accompanying combined financial statements (Statutory Basis Financial Report or SBFR) of the Commonwealth of Massachusetts (the Commonwealth) are presented in accordance with the requirements of Section 12 of Chapter 7A as amended by Section 4 of Chapter 88 of the Acts of 1997 of the Massachusetts General Laws, as amended most recently by Chapter 26, Section 4 of the Acts of 2009. The Office of the Comptroller also publishes the Commonwealth's Comprehensive Annual Financial Report (CAFR), which is prepared in accordance with Generally Accepted Accounting Principles (GAAP) in the United States of America for governments.

The SBFR includes the budgeted, non-budgeted, special revenue, and capital projects funds of the Commonwealth, as recorded by the Office of the Comptroller in compliance with Massachusetts General Laws and in accordance with the Commonwealth's budgetary principles.

The SBFR's financial statements are not intended to include independent authorities, non-appropriated funds of higher education, or other organizations included in the Commonwealth's reporting entity as it would be defined under GAAP.

B. GOVERNMENTAL FUND TYPES

The fund types are organized as follows:

Governmental fund types account for the general governmental activities of the Commonwealth.

Budgeted Funds - are the primary operating funds of the Commonwealth. They account for all budgeted governmental transactions, i.e., those subject to the annual appropriation process. Major budgeted funds include the General, Stabilization, and Commonwealth Transportation Funds, which are identified by the Comptroller as the operating funds of the Commonwealth. In addition, there are eight smaller budgeted funds, the Intragovernmental Services Fund, the Inland Fisheries and Game Fund, the Marine Recreational Fisheries Development Fund, the Public Safety Training Fund, the Community First Trust Fund, the Gaming Local Aid Fund, the Local Aid Stabilization Fund and the Marijuana Regulation Fund.

Non-Budgeted Special Revenue Funds - are established by law to account for revenue sources that have been segregated from the budgeted funds to support specific governmental activities such as federal grants, the operations of the state lottery and funds related to the Massachusetts Gaming Commission.

Capital Projects Funds - account for financial resources used to acquire or construct major capital assets and to finance local capital projects. These resources are derived almost entirely from proceeds of bonds and other obligations, which are generally received after related expenditures have been incurred, operating transfers authorized by the Legislature, and from federal reimbursements. Deficit balances in Capital Projects Funds represent amounts to be financed, primarily through future bond sales.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

A. STATUTORY BASIS OF ACCOUNTING

The SBFR is prepared from the Commonwealth's books and records and other official reports that are maintained on the basis of accounting used in the preparation of the Commonwealth's legally adopted annual budget (statutory basis). The statutory basis emphasizes accountability and budgetary control of appropriations. The SBFR is not intended to present the Commonwealth's financial condition and results of operations in conformity with GAAP.

Under the statutory basis of accounting, revenues generally are recognized when cash deposits are received by the Treasury. However, revenues receivable for federal grants and reimbursements generally are recognized when related

expenditures are incurred, provided that the related revenues are received by the Commonwealth by August 31, the end of the statutory accounts receivable period. Amounts due from political subdivisions of the Commonwealth are recognized when considered measurable and available. These are largely payments from municipalities reimbursing for pension costs paid by the Commonwealth on their behalf, authorized under Section 3(8)c of Chapter 32 of the Massachusetts General Laws, provided that the revenues are received by August 31.

Under the statutory basis of accounting, expenditures are generally recorded when the related cash disbursement occurs. At year-end, payroll is accrued and payables are recognized, to the extent of approved encumbrances, for goods or services received by June 30, and payment made by August 31. Costs incurred under the federally-sponsored Medicaid program, amounts required to settle claims and judgments against the Commonwealth, and certain other liabilities are not recognized until they are encumbered or otherwise processed for payment. In some cases the liabilities will have been incurred prior to June 30, but recorded when paid in the following fiscal year, not as statutory payables.

The accounting policies followed in preparing the accompanying statutory basis financial report are described in the remainder of this section.

B. CASH, SHORT-TERM INVESTMENTS AND INVESTMENTS

The Commonwealth follows the practice of pooling cash and cash equivalents, except for balances in the Commonwealth Stabilization Fund, which are sequestered. Cash equivalents consist of short-term investments with an original maturity of three months or less and are stated at cost. Interest earned on pooled cash is allocated to the General Fund and, when so directed by law, to certain other Governmental Funds.

The Office of the Treasurer and Receiver-General (Treasury) manages the Commonwealth's short-term external mixed investment pool, the Massachusetts Municipal Depository Trust (MMDT). MMDT is comprised of two portfolios, a Cash Portfolio and a Short Term Bond Fund. The Cash Portfolio is a money-market-like investment pool; its investments are carried at amortized cost, which approximates fair value. The Short Term Bond Fund investments are carried at fair value.

Investors in MMDT are not allowed to overdraw their shares. For a complete copy of MMDT's separately issued financial statements, please contact the Office of the State Treasurer's Cash Management Department, at (617) 367-9333. The statements can also be downloaded from the Cash Management section of the Office of the State Treasurer's website at www.mass.gov/treasury. General Law Chapter 29, Section 38 enumerates the Commonwealth's investment policy for non-pension assets.

C. DEDICATED REVENUE AND PLEDGES

The Commonwealth has a number of bond programs in which bonds are secured by a pledge of dedicated revenues provided to bondholders, pursuant to trust agreements, as well as pledges of revenue for general operations. Like the Commonwealth, certain state authorities have also issued special obligation bonds secured by specific Commonwealth revenues. These other authorities' debts are not included in the SBFR, but are included in the CAFR.

All federal highway reimbursements are dedicated to funding the principal portion only of federal grant anticipation notes (GANs) issued in fiscal 2011, 2014, 2015, 2017 and 2018. During FY18, the Commonwealth issued approximately \$75 million in GANs for new money needs and \$68 million in refunding bonds under the Commonwealth's Accelerated Bridge Program. As of June 30, 2018, total principal remaining to be paid was approximately \$748 million. Maturities are from FY19 through FY27. Debt service paid during FY18 was approximately \$96 million.

In FY18, the Commonwealth issued approximately \$65 million in new money special obligation bonds under the Accelerated Bridge Program (ABP), \$510 million in new money special obligation bonds under the Rail Enhancement Program (REP) and \$243 million in special obligation refunding bonds. These bonds mature from FY19 to FY48 and are secured by a senior lien on 17 cents of the total 24 cents per gallon gasoline tax, the full 24 cents per gallon of special fuels taxes (comprised primarily of taxes on diesel fuel), and the full 19.1% of the average price per gallon tax on liquefied natural gas and all Registry of Motor Vehicle fees deposited into the Commonwealth Transportation Fund (CTF). These bonds also have a subordinate lien on 6.86 cents of the 24 cent per gallon gasoline tax not included in

the senior lien. As of June 30, 2018, approximately \$1.681 billion and \$1.131 billion in principal was outstanding on the ABP and REP bonds, respectively, and approximately \$1.192 billion and \$1.019 billion of interest (net of the federal subsidy) was expected to be paid through maturity related to the ABP and REP bonds, respectively.

The ABP projected interest costs are net of federal subsidies under the Build America Bond (BABs) program. BABs is a temporary program under which the Commonwealth and other state and local governments issued taxable bonds in calendar 2009 and 2010 in return for a subsidy from the federal government equal to 35% to 45% (depending on whether the proceeds are used for projects in economically distressed areas) of the interest costs on the bonds.

Other special obligation bonds for highway construction purposes are secured by a pledge of 6.86 cents of the 24 cent per gallon gasoline tax, with no new debt issued during FY18. As of June 30, 2018, bonds secured by these pledged funds totaled approximately \$105 million of principal. These bonds mature from FY19 to FY22 and were issued in multiple series. Principal and interest paid during FY18 amounted to approximately \$23 million and \$7 million, respectively. The lien on these bonds has been closed, meaning that no additional new-money bonds can be issued against these revenues under this trust agreement.

A portion of the Commonwealth's receipts from the sales tax (other than the tax on meals) is dedicated through non-budgeted special revenue funds to the Massachusetts Bay Transportation Authority (MBTA) and the Massachusetts School Building Authority (MSBA). The amount dedicated to the MBTA is the amount raised by a 1.0% sales tax (not including meals), subject to an inflation-adjusted floor. A comparable amount, though without the floor, is dedicated to the MSBA beginning in fiscal 2010, with lesser amounts having been dedicated to the MSBA from fiscal 2005 through fiscal 2009.

Legislation approved by the Governor on October 31, 2014 increased the amount statutorily required to be credited to the MBTA by \$160 million annually, starting in fiscal 2015. The \$160 million increase in the dedicated sales tax revenue amount and the amount included in the inflation-adjusted floor were intended to replace the \$160 million annual state appropriation the MBTA received from fiscal 2010 through fiscal 2014. In FY18, total dedicated sales tax revenue that was directed to the MBTA was approximately \$1.008 billion. Dedicated revenues to the MBTA increase by the lesser of the annual increase in the Boston consumer price index or prior calendar year annual sales taxes, with a floor of 0% and a ceiling of 3.0%.

The MSBA also receives a pledge starting in FY11 of a 1.0% sales tax (not including meals) but with no annual floor or ceiling. In FY18, approximately \$848 million of the dedicated sales tax revenue stream was directed to the MSBA.

The Commonwealth has also pledged sales tax revenue and rooms tax surcharges from areas contiguous to convention centers and the Worcester DCU Arena and Convention Center to support such centers' operations. As of June 30, 2018, taxes within the Convention Center districts support approximately \$552 million of outstanding principal and approximately \$291 million of interest on debts related to these Convention Centers. Taxes collected in FY18 were approximately \$147 million, while debt service on the bonds was approximately \$54 million.

The Transportation Modernization Act of 2009, as amended, eliminated the pledges of sales tax revenue to MassDOT through the Commonwealth Transportation Fund (CTF). Beginning in FY14, motor vehicle sales tax collections were shifted from the General Fund to the CTF while also eliminating the 0.385% pledge of regular and meals sales tax. During FY18, approximately \$565 million in motor vehicle sales tax revenue was transferred to MassDOT. From the Commonwealth Transportation Fund, \$127 million was dedicated to funding the operations of the MBTA while an additional \$80 million was dedicated to funding the operations of the regional transit authorities. These amounts are transferred through the CTF.

D. INTERFUND/INTRAFUND TRANSACTIONS

Transactions of a buyer/seller nature between departments within a fund are not eliminated.

Transfers in and out net to approximately \$13 million due to higher education non-appropriated fund activity, which is not included in the combined statements - statutory basis.

E. CURRENT EMPLOYEE BENEFITS

Employees are granted vacation and sick leave in varying amounts based on collective bargaining agreements and state laws. Upon retirement, termination or death, certain employees are compensated for unused vacation and sick leave (subject to certain limitations) at their current rate of pay (not accrued on a statutory basis).

F. FRINGE BENEFIT COST RECOVERY

The Commonwealth pays the fringe benefit costs of its employees and retirees through the General Fund. These fringe benefits include the costs of employees' health insurance, pensions, unemployment compensation, and other costs necessary to support the state work force. As directed by Chapter 29, Sections 5D and 6B(f) of the Massachusetts General Laws, these costs are assessed to other funds based on their payroll costs, net of credits for direct payments.

Since these fringe benefit costs and pensions are not appropriated in the budget, the required assessment creates a variance between budget and actual expenditures at year-end. The fringe benefit cost recoveries of approximately \$435 million into the General Fund results from cost assessments from the other budgeted funds, non-budgeted special revenue funds, capital projects funds, non-appropriated activities of higher education, expendable trust, and agency funds.

G. LOTTERY REVENUE AND PRIZES

Ticket revenues are recognized when sold and prizes awarded by the Massachusetts State Lottery Commission are recognized as drawings are held. Games expenditures are accrued at year-end only for open jackpots for Mega Millions, Powerball and Megabucks.

H. RECEIVABLES

Reimbursements due to the Commonwealth for its expenditures on federally funded reimbursement and grant programs are reported as "Due from federal government." Other receivables include reimbursement of fringe benefit assessments from authorities and the institutions of higher education along with other departmental receivables.

I. DUE FROM CITIES AND TOWNS

"Due from Cities and Towns" represents reimbursements due to the Commonwealth for its expenditures on certain programs for the benefit of cities and towns.

J. RISK MANAGEMENT

The Commonwealth is self-insured for state employees' workers' compensation, casualty, theft, tort claims and other losses. Such liabilities are not recognized in the governmental funds on the statutory basis until encumbered and/or processed for payment. For employees' workers' compensation, the Commonwealth assumes the full risk of claims filed under a program managed by the Human Resources Division.

For personal injury or property damages, Chapter 258 of the Massachusetts General Laws limits the risk assumed by the Commonwealth to \$100,000 per occurrence, in most circumstances.

The Group Insurance Commission administers contributory health care and other insurance programs for the Commonwealth's employees and retirees.

K. ENCUMBRANCES

Encumbrance accounting is utilized in the Governmental Funds as a significant aspect of budgetary control. The full amounts of purchase orders, contracts and other commitments of appropriated resources are encumbered and recorded as deductions from appropriations prior to actual expenditure, ensuring that such commitments do not exceed appropriations. Encumbrances outstanding at year-end for goods or services received on or before June 30, but paid after, are reported as expenditures and statutory basis liabilities as a component of accounts payable.

L. FUND BALANCES

Fund balance has been reserved as follows:

"Reserved for continuing appropriations" - are unexpended amounts in appropriations, which the Legislature has specifically authorized to be carried into the next fiscal year.

"Reserved for Commonwealth Stabilization" - are amounts set aside in the Commonwealth Stabilization Fund in accordance with Section 5C of Chapter 29 of the Massachusetts General Laws.

"Reserved for debt service" - are amounts held by fiscal agents or the Commonwealth to fund future debt service obligations.

The remainder of fund balance is unreserved and undesignated and consists of cumulative surplus or deficits of the fund not otherwise designated.

M. TOTAL COLUMN - MEMORANDUM ONLY

Total and subtotal columns on the combined financial statements - statutory basis are captioned "Memorandum Only" to indicate that they are presented only to facilitate financial analysis. Data in these columns do not present consolidated financial position, results of operations, or changes in financial position. Interfund eliminations have not been made in the aggregation of these data.

The financial statements include certain prior year summarized comparative information in total but not by fund. Such information does not include sufficient detail to constitute a full comparative presentation. Accordingly, such information should be read in conjunction with the Commonwealth's financial statements for the year ended June 30, 2017, from which the summarized information was derived.

N. ESTIMATES

The preparation of the SBFR requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures at the date of the financial report. Estimates also affect the reported amounts of revenues and expenditures during the reporting period. Actual results could differ from those estimates.

3. BUDGETARY CONTROL

State finance law requires that a balanced budget be approved by the Governor and the Legislature. The Governor presents an annual budget to the Legislature, which includes estimates of revenues and other financing sources and recommended expenditures and other financing uses. The Legislature, which has full authority to amend the budget, adopts an expenditure budget by appropriating monies at the individual appropriation account level in an annual appropriations act.

Before signing the appropriations act, the Governor may veto or reduce any specific item, subject to legislative override. Further changes to the budget established in the annual appropriations act may be made via supplemental appropriation acts or other legislative acts. These must also be signed by the Governor and are subject to the line item veto.

In addition, Massachusetts General Laws authorize the Secretary of Administration and Finance, with the approval of the Governor, upon determination that available revenues will be insufficient to meet authorized expenditures, to withhold allotments of appropriated funds, which effectively reduce the affected accounts' expenditure budgets.

The majority of the Commonwealth's appropriations are non-continuing accounts which lapse at the end of each fiscal year. Others are continuing accounts for which the Legislature has authorized that an unspent balance from the prior year be carried forward and made available for spending in the current fiscal year. In addition, the Legislature may direct that certain revenues be retained and made available for spending within an appropriation. Fringe benefits, pension costs, and certain other costs that are mandated by state finance law are not itemized in the appropriation process and are not separately budgeted.

Because revenue budgets are not updated subsequent to the original appropriation act, the comparison of the initial revenue budget to the subsequent, and often modified, expenditure budget can be misleading. Also, these financial statements portray fund accounting with gross inflows and outflows, thus creating a difference from separately published budget documents, which eliminate some interfund activity. In conducting the budget process, the Commonwealth excludes those interfund transactions that by their nature have no impact on the combined fund balance of the budgeted funds.

Generally, expenditures may not exceed the level of spending authorized for an appropriation account. However, the Commonwealth is required to pay certain Medicaid expenses regardless of appropriations, due to superseding federal law.

The FY04 General Appropriation Act (Chapter 26, Section 167 of the Acts of 2003) amended Section 9C, of Chapter 29, directing the Governor to notify the Legislature in writing as to the reasons for and the effect of any reductions in spending. This proposal must be delivered to the Legislature 15 days before any reductions take effect. Alternatively, funds from the Stabilization Fund may be used to cure the deficiency, subject to appropriation.

The following table summarizes budgetary activity for FY18 (amounts in thousands):

| | Revenues | Expenditures |
|--|---------------|---------------|
| General Appropriation Act, Chapter 47 of the Acts of 2017: | | |
| Direct appropriations | \$ 40,293,200 | \$ 39,585,757 |
| Estimated revenues, transfers, retained revenue appropriations, and appropriations carried forward from FY2017 | | 1,291,699 |
| Total original budget | 40,293,200 | 40,877,456 |
| Supplemental Acts of 2017: | | |
| Chapter 110 | _ | 297,776 |
| Chapter 142 | _ | 2,700 |
| Supplemental Acts of 2018: | | |
| Chapter 24 | _ | 17,214 |
| Chapter 90 | _ | 146,025 |
| Chapter 273 | | 483,433 |
| Total budgeted revenues and expenditures per Legislative action | | 947,148 |
| Plus: Pension contributions and revenue authorized outside of General Appropriation Act, and other transfers of revenue and spending | 2,486,034 | 2,518,023 |
| Budgeted revenues and expenditures as reported | \$ 42,779,234 | \$ 44,342,627 |

The following table identifies the interfund activity from budgeted sources and uses to reconcile forecasts prepared during the budget process to the results presented in these statements (amounts in thousands):

| | Revenues and Other Financing Sources | xpenditures and Other Financing Uses |
|--|---|---|
| | | |
| Actual as presented in the combined budget and actual statement - statutory basis | \$ 45,036,235 | \$ 44,097,301 |
| Adjustments to revenues and expenditures: | | |
| Transfer of revenues to the Intragovernmental Service Fund | (437,226) | (437,226) |
| Adjustments to other financing sources and uses: | | |
| Fringe benefit cost assessments | (4,952) | (4,952) |
| Transfer of surplus revenues from the Intragovernmental Service Fund to the General Fund | (7,416) | (7,416) |
| RMV license plates | (4,026) | (4,026) |
| Transfers from General Fund to the Commonwealth Transportation Fund | (40,000) | (40,000) |
| Transfers from budgeted funds to the Stabilization Fund | (723,195) | (723,195) |
| Other | (199) | (199) |
| Actual as presented on budgetary documents | \$ 43,819,221 | \$ 42,880,287 |

The section divider for the budgeted funds contains a list of budgeted funds grouped by categories.

The Office of the Comptroller has the responsibility to ensure that budgetary control is maintained on an individual appropriation account basis. Budgetary control is exercised through the state accounting system, the Massachusetts

Management Accounting and Reporting System (MMARS). Encumbrances and expenditures are not allowed to exceed the appropriation account's spending authorization.

4. MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MassDOT)

MassDOT is a legally separate entity from the Commonwealth. MassDOT operations are reported separately in the non-budgeted special revenue funds section of this report, which includes all of the Commonwealth's highway and turnpike-related operations as well as the activity of the Registry of Motor Vehicles. MassDOT capital spending and revenue activity are reported in the capital funds section of this report, in the Central Artery Statewide Road and Bridge Infrastructure Fund, the Highway Capital Projects Fund, and the Federal Highway Construction Program Fund.

MassDOT financial activity is included in this report in order to reflect all activity reported on the Commonwealth's MMARS accounting system. For the SBFR, MassDOT is treated as an agency or department of the Commonwealth, as specified in Massachusetts General Laws. However, for GAAP reporting purposes, as reflected in the Commonwealth's CAFR, MassDOT is reported as a discretely presented component unit of the Commonwealth.

5. INDIVIDUAL FUND DEFICITS

The following Non-Budgeted Special Revenue and Capital Projects Funds are included in the combined totals and have individual fund deficits at June 30, 2018, as follows (amounts in thousands) (excludes MassDOT):

| Non-Budgeted Special Revenue: | |
|--|----------------|
| Federal Grants Fund | \$ (38,763) |
| Other: | |
| Health Information Technology Trust Fund | (2,406) |
| Government Land Bank Fund | (35,033) |
| Total Non-Budgeted Special Revenue Funds | (76,202) |
| Capital Projects: | |
| Highway Capital Projects Fund | (4,450) |
| Total | \$ (80,652) |

None of the funds detailed above were in deficit due to finance-related contractual provisions and all were allowed to be in deficit by General Law.

6. MEDICAID COSTS

Approximately 43.6% of the Commonwealth's budgeted fund spending for programs and services is devoted to Medicaid. It is the largest and has been one of the fastest growing items in the Commonwealth's budget. For the fiscal year ended June 30, 2018, the General Fund includes approximately \$15.745 billion in expenditures for Medicaid claims. The combined financial statements - statutory basis includes Medicaid claims processed but unpaid at June 30, 2018 of approximately \$27 million as accounts payable.



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Combining and Individual Fund Financial Statements - Statutory Basis



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Individual Budgeted Funds

Budgeted funds are those funds subject to appropriation in either the annual General Appropriation Act (GAA) or other appropriations bills. Unless otherwise specified, budgeted funds are also subject to Section 5C of Chapter 29 of the Massachusetts General Laws (MGL), which defines the "consolidated net surplus" calculation (and determines whether the annual budget is in balance) as well as year-end transfers to eliminate deficits in budgeted funds.

MAJOR BUDGETED FUNDS:

The General Fund - The General Fund is the Commonwealth's primary Governmental Fund. All governmental activities not specifically directed to another fund are accounted for in the General Fund. As a result, most budgeted expenditures of the Executive secretariats, the Legislature, constitutional offices, Judiciary, institutions of higher education and independent commissions are paid from the General Fund. It similarly receives a significant portion of sales, individual income and corporate taxes and the full amount of most other governmental taxes.

Commonwealth Transportation Fund - to account for revenues from motor fuels taxes and all fees and fines received by the Registry of Motor Vehicles relating to the use and operation of motor vehicles and trailers. Spending is for debt service on general and special obligation debt, as well as for amounts, subject to appropriation, to fund the programs and services of the Massachusetts Department of Transportation. This fund also includes activity of the Infrastructure Fund, which was a subfund of the Highway Fund.

The Commonwealth Stabilization Fund - to account for amounts calculated in accordance with state finance law and to maintain a reserve to enhance the Commonwealth's fiscal stability. Tax revenues from certain lottery winners selling their stream of future winnings in exchange for current payments are recorded in this fund. In addition, transfers are required for fiscal year capital gains tax revenues exceeding \$1 billion (adjusted annually for economic growth) and judgments and settlements of more than \$10 million that exceed the previous 5 year's average of judgments and settlements. These transfers were suspended for fiscal year 2017. Any excess undesignated fund balance as calculated by Section 5C of Chapter 29 of the MGL, are also transferred to this fund.

ADMINISTRATIVE CONTROL FUND:

This fund accounts for the revenues generated by certain administrative functions of government, for which the Legislature has required a separate fund be established. Budgeted funds are subject to Section 5C of Chapter 29 of the MGL, calculation of year-end transfers, unless specified otherwise.

Intragovernmental Service Fund - to account for the charges of any state agency for services provided to another state agency.

BUDGETED ENVIRONMENTAL FUNDS:

The Environmental funds are exempt from Section 5C of Chapter 29 of the MGL, calculation of year-end transfers.

Inland Fisheries and Game Fund - to account for revenues from license and permit fees for inland fishing, hunting, trapping, and sporting licenses and revenue producing stamps or the sales of land, rights and properties, gifts, interest, and federal grant reimbursements; used for developing, maintaining and operating the Division of Fisheries and Wildlife.

Marine Recreational Fisheries Development Fund - to account for salt water permit fees collected, funds, grants and gifts received as authorized, including investment income; used for development and administration of recreational saltwater fishing improvement programs.

OTHER BUDGETED FUNDS:

These funds account for a variety of miscellaneous taxes, fees, fines and other revenues, which are restricted to the financing of specific Commonwealth programs.

Public Safety Training Fund - to account for all surcharge revenues imposed by Section 12 of Chapter 89 and the seventh paragraph of Section 20 of Chapter 90 of the MGL. The fund shall is used for the instruction of public safety personnel including, but not limited to, the recruitment of additional state police classes and for the municipal police training committee, to preserve and promote public safety. The fund is not subject to the requirements of Section 5C of Chapter 29 of the MGL.

Community First Trust Fund - The secretary of health and human services may expend amounts in excess of the \$16 million collected from federal reimbursements in the nonbudgeted Community First Trust Fund to ensure compliance with the state balancing incentive payment program. Monies deposited in the fund are used for non-institutionally-based long-term services and support. The fund is not subject to the requirements of Section 5C of Chapter 29 of the MGL.

Gaming Local Aid Fund - to account for gaming tax revenues generated by the tax on casino revenues. The fund is used to finance local aid distributions.

Local Aid Stabilization Fund - to account for gaming tax revenues generated by casinos. Monies are used to supplement local aid distributions to cities and towns. The fund is not subject to the requirements of Section 5C of Chapter 29 of the MGL. Even though this fund did not have FY17 activity, it is presented here for comparative purposes as there was FY16 activity.

Marijuana Regulation Fund - to account for tax, application, civil penalties and interest revenues generated by the applications for licensing and regulation of marijuana establishments. The fund is used to administer the operations of the Cannabis Control Commission and other departments to carry out marijuana regulations.

The following funds have been enacted in legislation but had no activity in FY18 and are not presented in this report:

Temporary Holding Fund - to account for cumulative tax revenues during the fiscal year in excess of permissible tax revenues as defined in Chapter 62F, Section 6A of the MGL. The fund balance in the fund closes annually to the Stabilization Fund to the extent of expenditures from that fund. Any remaining balance transfers to the General Fund. The mechanism transferring tax revenues to the fund was repealed effective January 1, 2013, but the fund itself was not repealed.

Tax Reduction Fund - to account for the maintenance of a reserve, which shall be used only to reduce personal income taxes.

Collective Bargaining Reserve Fund - to account for transfers from the General Fund which may be used to fund negotiated contracts for state employees.

Substance Abuse Prevention and Treatment Fund - to account for sales tax revenues (non-dedicated) collected from the sale of alcoholic beverages, with the funds used for substance abuse treatment and prevention services. In November 2010, the sales tax on alcoholic beverages was repealed via referendum, effective January 1, 2011, but the fund itself was not repealed.

International Educational and Foreign Language Grant Program Fund - to account for appropriations, bond proceeds or other monies authorized to be used by the Commissioner of Education to increase the number of Massachusetts students, teachers, administrators and education policymakers to support programs and activities that advance cultural awareness through grants to local and regional high schools to support international education programs and promote the study of foreign languages.

Dam Safety Trust Fund - to account for all receipts and revenues generated through agreements executed between the department of environmental management and public or private entities for dam safety purposes, and all fines, costs, expenses and interest imposed. Revenues over \$250,000 in a fiscal year shall be credited to the General Fund.

Children and Families Protection Fund - to account for any penalties collected for violations of the Massachusetts Pesticide Control Act under Chapter 132B, Sections 6C to 6I of the MGL Amounts credited to the fund are used for the implementation and enforcement of said Sections 6C to 6I.

Home and Community-based Services Policy Lab Fund - to account for any appropriations authorized by the general court and specifically designated to be credited to the fund and any additional nonstate-sourced funds as designated by the secretary of elder affairs including, but not limited to, federal or private grants or donations. The fund is used to support research and analysis which would enhance the development, evaluation, design and continued improvement of programs rendering home and community-based services to individuals who need long-term services and support.

Regional Water Entity Reimbursement Fund - to account for amounts to reimburse the Massachusetts Water Resources Authority for its costs in providing cities and towns financial assistance in the form of interest free grants and loans to rehabilitate collection systems. Such reimbursement shall be in addition to the contract assistance amounts in section 6 of chapter 29C, but not be greater than 10 % of the maximum amount set forth in chapter 29C.

Massachusetts Tourism Fund - to account for revenues received from hotel taxes; used to fund the Office of Travel and Tourism promotions and the Massachusetts Convention Center Authority.

Local Capital Projects Fund - to account for funds generated by the casino license fees and by the tax on revenues generated by casinos (but not the slots parlor), once they are operational.

Education Fund - to account for a portion of the funds generated by the tax on casino (but not slots parlor) revenue. 35% of the funds received are to be appropriated for higher education purposes, and that any appropriations for either higher education or K-12 education from this fund are required to supplement, not offset, General Appropriation Act spending.

Gaming Economic Development Fund - to account for a portion of the funds generated by the tax on casino (but not slots parlor) revenue. Expenditures from the are to be used to support economic development and job growth.

Manufacturing Fund - To account for a portion of gaming facility license fees.

Community College Fund - to account for a portion of gaming license fees.

Agricultural Resolve and Security Fund - to account for gifts, grants, donations, federal reimbursements and grants plus any interest earned from the Fund. Expenditures are to be used to foster agriculture in the Commonwealth and other purposes of the Department of Agricultural Resources.

Budgeted Funds

Combining Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | | | | | | Administrative Control | | |
|---|---------|-----------|--------------|-----------------|------------------------------|------------------------------|-----|---------------------------|
| | General | | General | | ommonwealth ransportation | ommonwealth Stabilization | Int | ragovernmental Service |
| ASSETS | | | | | | | | |
| Cash and short-term investments | \$ | 697,815 | \$ 693 | \$ 1,728,831 | \$ | 51,811 | | |
| Cash with fiscal agent | | _ | 19,373 | _ | | _ | | |
| Investments | | _ | _ | 272,468 | | _ | | |
| Receivables, net of allowance for uncollectibles: | | | | | | | | |
| Due from federal government | | 476,377 | _ | _ | | _ | | |
| Other receivables | | 184,466 | _ | _ | | _ | | |
| Due from cities and towns | | 34,647 | | | | | | |
| Total assets | \$ | 1,393,305 | \$ 20,066 | \$ 2,001,299 | \$ | 51,811 | | |
| LIABILITIES AND FUND BALANCES | | | | | | | | |
| Liabilities: | | | | | | | | |
| Accounts payable | \$ | 956,051 | \$ 693 | \$ _ | \$ | 40,021 | | |
| Accrued payroll | | 96,520 | _ | _ | | 2,597 | | |
| Due to other funds | | _ | | | | | | |
| Total liabilities | | 1,052,571 | 693 | _ | | 42,618 | | |
| Fund balance/(deficit): | | | | | | | | |
| Reserved for: | | | | | | | | |
| Continuing appropriations | | 340,734 | _ | _ | | 9,193 | | |
| Commonwealth Stabilization. | | _ | _ | 2,001,299 | | _ | | |
| Debt service | | _ | 19,373 | _ | | _ | | |
| Unreserved: | | | | | | | | |
| Undesignated | | | | | | | | |
| Total fund equity/(deficit) | | 340,734 | 19,373 | 2,001,299 | | 9,193 | | |
| Total liabilities and fund equity | \$ | 1,393,305 | \$ 20,066 | \$ 2,001,299 | \$ | 51,811 | | |

See accountants' review report

| | Envir | onment | al | | | | | | | | | |
|-------------|---------------------------|--------|---|----|---------------------------|----|-------------------|----|-----------------|----------------------------|----|-------------------------|
| Inlar ar | Inland Fisheries and Game | | Marine Recreational Fisheries Development | | Public Safety Training | | Community First C | | ng Local Aid | Local Aid Stabilization | | Marijuana Regulation |
| \$ | 11,719 | \$ | 3,975 | \$ | 1,256 | \$ | _ | \$ | _ | \$ | 50 | \$ _ |
| | _ | | _ | | _ | | _ | | _ | | _ | _ |
| | _ | | _ | | _ | | _ | | _ | | _ | _ |
| | _ | | _ | | _ | | _ | | _ | | _ | _ |
| | _ | | _ | | _ | | _ | | _ | | _ | _ |
| | | | | | | | | | | | | |
| \$ | 11,719 | \$ | 3,975 | \$ | 1,256 | \$ | | \$ | | \$ | 50 | \$ |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| \$ | 610 | \$ | | \$ | _ | \$ | _ | \$ | _ | \$ | _ | \$ _ |
| | 192 | | 13 | | | | | | | - | | |
| | 802 | | 127 | | | | | | | | | |
| | | | | | | | | | | | | |
| | _ | | 1,000 | | 1,173 | | _ | | _ | | _ | _ |
| | _ | | _ | | _ | | _ | | _ | | _ | _ |
| | _ | | _ | | _ | | _ | | _ | | _ | _ |
| | 10,917 | | 2,848 | | 83 | | _ | | _ | | 50 | _ |
| | 10,917 | | 3,848 | | 1,256 | | _ | | _ | | 50 | _ |
| \$ | 11,719 | \$ | 3,975 | \$ | 1,256 | \$ | | \$ | _ | \$ | 50 | \$ _ |

continued

Budgeted Funds

Combining Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | | To (Memorar | tals idum | only) |
|---|----|--------------------|--------------|-------------------|
| ASSETS | _ | 2018 | | 2017 |
| | ¢. | 2 407 151 | e | 1 260 250 |
| Cash and short-term investments | | 2,496,151 | \$ | 1,368,250 |
| Cash with fiscal agent | | 19,373 | | 18,080 |
| Investments Pagainables not of allowance for uncelleatibles: | | 272,468 | | 272,224 |
| Receivables, net of allowance for uncollectibles: | | 176 276 | | 616 006 |
| Due from federal government Other receivables | | 476,376 184,466 | | 646,986 18,501 |
| | | • | | • |
| Due from cities and towns | _ | 34,647 | | 12,143 |
| Total assets | \$ | 3,483,481 | \$ | 2,336,184 |
| LIABILITIES AND FUND BALANCES | | | | |
| Liabilities: | | | | |
| Accounts payable | \$ | 997,490 | \$ | 810,363 |
| Accrued payroll | | 99,322 | | 78,086 |
| Total liabilities. | | 1,096,812 | | 888,449 |
| Fund balance/(deficit): | | | | |
| Reserved for: | | | | |
| Continuing appropriations | | 352,099 | | 99,316 |
| Commonwealth Stabilization | | 2,001,299 | | 1,300,678 |
| Debt service | | 19,373 | | 18,080 |
| Unreserved: | | | | |
| Undesignated | | 13,898 | | 29,661 |
| Total fund equity/(deficit) | | 2,386,669 | | 1,447,735 |
| Total liabilities and fund equity | \$ | 3,483,481 | \$ | 2,336,184 |

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Budgeted Funds

Combining Statements Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | | | Administrative Control |
|--|---------------------------------------|--------------------------------|-------------------------------|------------------------------|
| | General | Commonwealth Transportation | Commonwealth Stabilization | Intragovernmental Service |
| REVENUES AND OTHER FINANCING SOURCES | | Transportation | Statilization | Service |
| Revenues: | | | | |
| Taxes | \$ 24,573,613 | \$ 1,331,772 | \$ 272 | \$ — |
| Assessments | | 22,204 | _ | _ |
| Federal grants and reimbursements | | _ | _ | _ |
| Tobacco settlement revenue | | | _ | |
| Departmental | | 684,374 | 15 004 | 444,863 |
| Miscellaneous | | 2,039,052 | 15,094 | 444,863 |
| Total revenues Other financing sources: | 39,944,404 | 2,039,052 | 15,366 | 444,803 |
| Fringe benefit cost recovery | 434,924 | | _ | _ |
| Lottery reimbursements | | _ | _ | _ |
| Lottery distributions | | _ | _ | _ |
| Operating transfers in | | 43,762 | _ | _ |
| Stabilization transfer | | | 736,645 | _ |
| Total other financing sources | | 43,762 | 736,645 | |
| Total revenues and other financing sources | | 2,082,814 | 752,011 | 444,863 |
| EXPENDITURES AND OTHER FINANCING USES Expenditures: | | | | |
| Legislature | | _ | _ | _ |
| Judiciary | | _ | _ | _ |
| Inspector General | | _ | = | = |
| Governor and Lieutenant Governor | | _ | _ | _ |
| Secretary of the Commonwealth | , | | _ | _ |
| Treasurer and Receiver-General | | 5,723 | _ | _ |
| Auditor of the Commonwealth | | _ | _ | _ |
| Attorney General | | _ | _ | _ |
| Ethics Commission | | _ | _ | _ |
| District Attorney | | _ | _ | _ |
| Office of Campaign & Political Finance | | _ | _ | _ |
| Disabled Persons Protection Commission | | | _ | |
| Board of Library Commissioners | | _ | _ | _ |
| Comptroller | | | _ | 5,060 |
| Administration and Finance | | _ | _ | 180,863 |
| Energy and Environmental Affairs | | _ | _ | 1,355 |
| Health and Human Services | | _ | _ | 105,389 |
| Executive Office of Technology Services and Security | | _ | _ | 65,599 |
| Massachusetts Department of Transportation | | 127,000 | _ | _ |
| Office of the Child Advocate | | | _ | _ |
| Cannabis Control Commission | 2,241 | _ | _ | _ |
| Executive Office of Education | | _ | _ | 662 |
| Center for Health Information and Analysis | 21,452 | _ | _ | _ |
| Public Safety and Homeland Security | 1,099,956 | _ | _ | 64,775 |
| Housing and Economic Development | 531,539 | _ | _ | 1,629 |
| Labor and Workforce Development | 46,585 | _ | _ | 200 |
| Direct local aid | | _ | _ | _ |
| Medicaid program expenses | 15,744,534 | _ | _ | _ |
| Post employment benefits | 2,846,432 | 45,059 | _ | _ |
| Debt service: | | | | |
| Principal retirement | | 641,016 | _ | 15,241 |
| Interest and fiscal charges | | 498,221 | | |
| Total expenditures | 39,932,508 | 1,317,019 | | 440,773 |
| Other financing uses: Fringe benefit cost assessment | _ | _ | _ | _ |
| Operating transfers out | | 634,676 | _ | 7,416 |
| State Retiree Benefits transfer | | _ | 25,695 | _ |
| State Pension transfer | | | 25,695 | _ |
| Stabilization transfer | · · · · · · · · · · · · · · · · · · · | 129,826 | _ | _ |
| Medical assistance transfer | | 7/4/502 | | |
| Total other financing uses | | 764,502 | 51,390 | 7,416 |
| Total expenditures and other financing uses | 41,414,122 | 2,081,521 | 51,390 | 448,189 |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | | 1,293 | 700,621 | (3,326 |
| Fund balance (deficit) at beginning of year | | 18,080 | 1,300,678 | 12,519 |
| Fund balance (deficit) at end of year | \$ 340,734 | \$ 19,373 | \$ 2,001,299 | \$ 9,193 |

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| | | ironmental | | | Budgeted Other | | | | |
|-------------------|---|-------------|-------------|--------------------------|------------------|----------------------------|-------------------------|--|--|
| Inland F and C | Fisheries Marine Recreational Game Fisheries Development Public Saf Training | | | Community First Trust | Gaming Local Aid | Local Aid Stabilization | Marijuana Regulation | | |
| Φ. | 1 002 | | 0 | | 0 | | 0 | | |
| \$ | 1,003 | \$ <u> </u> | \$ <u> </u> | \$ | \$ <u> </u> | \$ | \$ | | |
| | 7,410 | _ | _ | _ | _ | _ | 39 | | |
| | 7,401 | 1,787 | 1,022 | _ | _ | _ | _ _ | | |
| | 617 | _ | _ | | | | | | |
| | 16,431 | 1,787 | 1,022 | | | | 39 | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | 199 | | _ | | 68,011 | | _ | | |
| | _ | | | | _ | | | | |
| | 199 16,630 | 1 707 | 1,022 | | 68,011 | | 39 | | |
| | 10,030 | 1,787 | 1,022 | | 68,011 | · _ | 39 | | |
| | | | | | | | | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | | _ | | _ | | | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | | _ | | _ | _ | _ | | |
| | _ | _ | 4 | _ | _ | _ | _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | _ | _ | | _ | _ | _ | | |
| | _ | _ | 20 | _ | _ | _ | _ | | |
| | _ | _ | _ | _ | _ | _ | _ _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | 74 14,812 | 950 | _ | <u> </u> | _ | _ | _ | | |
| | | 930 | _ | 11,170 | _ | _ | _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | | _ | | _ | | _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | _ | 2,048 | | _ | _ | _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | _ | _ | _ | 64,343 | _ | _ | | |
| | _ | _ | _ | _ | — | _ | _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | | | | | | | | | |
| | 14,886 | 950 | 2,072 | 11,170 | 64,343 | | | | |
| | 3,329 | 169 | 586 | 867 | | | _ | | |
| | | _ | _ | _ | _ | _ | _ | | |
| | _ | _ | _ | _ | _ | _ | _ | | |
| | _ | | _ _ | _ _ | 3,668 | | 39 | | |
| | | | | | | | | | |
| | 3,329 | 169 | 586 | 867 | 3,668 | | 39 | | |
| | 18,215 | 1,119 | 2,658 | 12,037 | 68,011 | | | | |
| | (1,585) | 668 | (1,636) | (12,037) | _ | _ | _ | | |
| Φ. | 12,502 | 3,180 | 2,892 | 12,037 | | 50 | | | |
| \$ | 10,917 | \$ 3,848 | \$ 1,256 | <u> </u> | <u> </u> | \$ 50 | <u> </u> | | |

continued

Budgeted Funds

Combining Statements Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | Totals (Memorandum only) | | | | |
|--|--------------------------|---------------------------|--|--|--|
| | 2018 | 2017 | | | |
| REVENUES AND OTHER FINANCING SOURCES | | | | | |
| Revenues: Taxes | \$ 25,906,660 | \$ 23,828,296 | | | |
| Assessments | | 454,040 | | | |
| Federal grants and reimbursements | • | 10,857,831 | | | |
| Tobacco settlement revenue | | 254,490 | | | |
| Departmental | 4,071,620 | 3,770,951 | | | |
| Miscellaneous | 424,789 | 320,586 | | | |
| Total revenues | 42,463,024 | 39,486,194 | | | |
| Other financing sources: | 424.024 | 416 101 | | | |
| Fringe benefit cost recovery | | 416,181 | | | |
| Lottery reimbursements Lottery distributions | | 100,392 1,025,411 | | | |
| Operating transfers in | · | 756,565 | | | |
| Stabilization transfer | · | 750,505 | | | |
| Total other financing sources | | 2,298,549 | | | |
| Total revenues and other financing sources | | 41,784,743 | | | |
| EXPENDITURES AND OTHER FINANCING USES Expenditures: | | | | | |
| Legislature | · | 66,754 | | | |
| Judiciary | | 908,488 4,207 | | | |
| Governor and Lieutenant Governor | | 6,567 | | | |
| Secretary of the Commonwealth | , | 45,849 | | | |
| Treasurer and Receiver-General. | | 201,093 | | | |
| Auditor of the Commonwealth | | 18,227 | | | |
| Attorney General | | 46,283 | | | |
| Ethics Commission. | | 1,883 | | | |
| District Attorney | | 119,790 | | | |
| Office of Campaign & Political Finance | 1,594 | 1,521 | | | |
| Sheriffs' Departments | 620,318 | 610,062 | | | |
| Disabled Persons Protection Commission | 3,131 | 3,043 | | | |
| Board of Library Commissioners | 25,443 | 25,157 | | | |
| Comptroller | · | 14,064 | | | |
| Administration and Finance | | 2,375,592 | | | |
| Energy and Environmental Affairs | | 223,582 | | | |
| Health and Human Services | | 5,700,404 | | | |
| Executive Office of Technology Services and Security | | 140.250 | | | |
| Massachusetts Department of Transportation | | 140,250 633 | | | |
| Cannabis Control Commission | | 033 | | | |
| Executive Office of Education | | 2,234,045 | | | |
| Center for Health Information and Analysis | | 23,031 | | | |
| Public Safety and Homeland Security | · | 1,119,256 | | | |
| Housing and Economic Development. | | 495,960 | | | |
| Labor and Workforce Development | • | 44,267 | | | |
| Direct local aid | | 5,703,027 | | | |
| Medicaid program expenses | 15,744,534 | 15,251,717 | | | |
| Post employment benefits | | 2,659,709 1,300,497 | | | |
| Interest and fiscal charges. | | 984,180 | | | |
| Total expenditures | | 40,329,138 | | | |
| Other financing uses: | | 10,525,150 | | | |
| Fringe benefit cost assessment | 4,952 | 4,440 | | | |
| Operating transfers out | 954,099 | 1,082,056 | | | |
| State Retiree Benefits transfer | · · | _ | | | |
| State Pension transfer | | _ | | | |
| Stabilization transfer | | — | | | |
| Medical assistance transfer | | 403,367 | | | |
| Total other financing uses | | 1,489,863 | | | |
| Total expenditures and other financing uses | 44,097,301 | 41,819,001 | | | |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | 938,934 | (34,258) | | | |
| Fund balance/(deficit) at beginning of year. | • | | | | |
| , | | 1,481,993 \$ 1.447.735 | | | |
| Fund balance/(deficit) at end of year | \$ 2,386,669 | \$ 1,447,735 | | | |

See accountants' review report



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Budgeted Funds

Combining Statements Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis - Budget And Actual
Fiscal Year Ended June 30, 2018
(Amounts in thousands)

| | | General | | Commonwealth Transportation | | | | |
|--|-----------------------|-----------------------|--|-----------------------------|--------------|--|--|--|
| | Budget | Actual | Variance Favorable (Unfavorable) | Budget | Actual | Variance Favorable (Unfavorable) | | |
| REVENUES AND OTHER FINANCING SOURCES | | | | | | | | |
| Revenues: | e 22.561.400 | e 24.572.612 | e 1.012.212 | £ 1 202 000 | e 1 221 772 | e 20.772 | | |
| Taxes | \$ 23,561,400 | \$ 24,573,613 | \$ 1,012,213 | \$ 1,302,000 | \$ 1,331,772 | \$ 29,772 | | |
| Assessments Federal grants and reimbursements | 440,561 11,279,923 | 417,483 11,369,508 | (23,078) 89,585 | 23,947 | 22,204 | (1,743) | | |
| Tobacco settlement revenue | 257,500 | 243,313 | (14,187) | | _ | | | |
| Departmental | 2,968,795 | 2,932,173 | (36,622) | 675,756 | 684,374 | 8,618 | | |
| Miscellaneous | 281,785 | 408,374 | 126,589 | - | 702 | 702 | | |
| Total revenues | 38,789,964 | 39,944,464 | 1,154,500 | 2,001,703 | 2,039,052 | 37,349 | | |
| Other financing sources: | | | | | | | | |
| Fringe benefit cost recovery | 435,041 | 434,924 | (117) | _ | _ | _ | | |
| Lottery reimbursements | 90,888 | 103,136 | 12,248 | _ | _ | _ | | |
| Lottery distributions | 994,754 | 983,108 | (11,646) | | | | | |
| Operating transfers in | 246,222 | 203,427 | (42,795) | 40,000 | 43,762 | 3,762 | | |
| Stabilization transfer | 1,766,905 | 1,724,595 | (42.210) | 40,000 | 12.762 | 3,762 | | |
| Total other financing sources Total revenues and other financing sources | 40,556,869 | 41,669,059 | (42,310) 1,112,190 | 2,041,703 | 2,082,814 | 41,111 | | |
| | 40,330,809 | 41,009,039 | 1,112,190 | 2,041,703 | 2,082,814 | 41,111 | | |
| EXPENDITURES AND OTHER FINANCING USES | | | | | | | | |
| Expenditures: | 102 522 | 67.050 | 25.602 | | | | | |
| Legislature | 103,532 | 67,850 | 35,682 | _ | | | | |
| Judiciary | 929,008 | 919,016 | 9,992 1 | _ | _ | _ | | |
| Inspector General Governor and Lieutenant Governor | 4,371 7,602 | 4,370 6,574 | 1,028 | _ | _ | _ | | |
| Secretary of the Commonwealth | 42,970 | 39,339 | 3,631 | _ | _ | _ | | |
| Treasurer and Receiver-General | 219,374 | 209,460 | 9,914 | _ | 5,723 | (5,723 | | |
| Auditor of the Commonwealth | 18,723 | 18,610 | 113 | _ | | (5,725 | | |
| Attorney General | 49,247 | 47,989 | 1,258 | _ | _ | _ | | |
| Ethics Commission | 2,094 | 2,042 | 52 | _ | _ | _ | | |
| District Attorney | 119,703 | 119,206 | 497 | _ | _ | _ | | |
| Office of Campaign & Political Finance | 1,618 | 1,594 | 24 | _ | _ | _ | | |
| Sheriffs' Departments | 621,920 | 620,299 | 1,621 | _ | _ | _ | | |
| Disabled Persons Protection Commission | 3,131 | 3,131 | _ | _ | _ | = | | |
| Board of Library Commissioners | 25,453 | 25,443 | 10 | _ | _ | _ | | |
| Comptroller | 8,815 | 8,816 | (1) | _ | _ | _ | | |
| Administration and Finance | 2,438,506 | 2,124,934 | 313,572 | _ | _ | _ | | |
| Energy and Environmental Affairs Health and Human Services | 222,164 6,232,603 | 213,839 5,919,367 | 8,325 313,236 | _ | _ | | | |
| Executive Office of Technology Services and Security | 17,104 | 7,857 | 9,247 | _ | _ | _ | | |
| Massachusetts Department of Transportation | | -,057 | | 127,000 | 127.000 | _ | | |
| Office of the Child Advocate | 800 | 706 | 94 | | | _ | | |
| Cannabis Control Commission | 6,999 | 2,241 | 4,758 | _ | _ | _ | | |
| Executive Office of Education | 2,349,251 | 2,289,267 | 59,984 | _ | _ | _ | | |
| Center for Health Information and Analysis | 32,043 | 21,452 | 10,591 | _ | _ | _ | | |
| Public Safety and Security | 1,155,526 | 1,099,956 | 55,570 | _ | _ | _ | | |
| Housing and Economic Development | 546,026 | 531,539 | 14,487 | _ | _ | _ | | |
| Labor and Workforce Development | 60,670 | 46,585 | 14,085 | _ | _ | _ | | |
| Direct local aid | 5,826,090 | 5,821,177 | 4,913 | _ | _ | = | | |
| Medicaid program expenses | 15,609,522 | 15,744,534 | (135,012) | _ | 45.050 | (45,059 | | |
| Post employment benefits Debt service: | 2,826,904 | 2,846,432 | (19,528) | _ | 45,059 | (45,059 | | |
| Principal retirement | 655,652 | 643,448 | 12,204 | 668,753 | 641,016 | 27,737 | | |
| Interest and fiscal charges | 535,401 | 525,435 | 9,966 | 511,442 | 498,221 | 13,221 | | |
| Total expenditures | 40,672,822 | 39,932,508 | 740,314 | 1,307,195 | 1,317,019 | (9,824 | | |
| • | | | | | | | | |
| Other financing uses: Fringe benefit cost assessment | _ | _ | _ | _ | _ | | | |
| Operating transfers out | 270,326 | 312,007 | (41,681) | 630,650 | 634,676 | (4,026 | | |
| State Retiree Benefits transfer | 2,0,520 | | (.1,001) | | | (1,020 | | |
| State Pension transfer | _ | _ | _ | _ | _ | | | |
| Stabilization transfer | 51,500 | 589,663 | (538,163) | _ | 129,826 | (129,826 | | |
| Medical assistance transfer | 747,100 | 579,944 | 167,156 | | | | | |
| Total other financing uses | 1,068,926 | 1,481,614 | (412,688) | 630,650 | 764,502 | (133,852 | | |
| Total expenditures and other financing uses | 41,741,748 | 41,414,122 | 327,626 | 1,937,845 | 2,081,521 | (143,676 | | |
| Excess (deficiency) of revenues and other financing sources over / (under) expenditures and other financing uses | \$ (1,184,879) | 254,937 | \$ 1,439,816 | \$ 103,858 | 1,293 | \$ (102,565 | | |
| manemo nes | . (-,-01,077) | 20.,201 | ,.57,510 | | 1,=/3 | , (,500 | | |
| Fund balance (deficit) at beginning of year | | 85,797 | | | 18,080 | | | |

See accountants' review report

| Commonwealth Stabilization | | | | | | | | istrative Contro | | Environmental Inland Fisheries and Game | | | | | | | | |
|--------------------------------------|------------------|----|------------------------|----|----------------------------|----|-------------------------|------------------|------------------|---|----------------------------|----|---------------|----|-----------------|----|----------------------------|--|
| Commonwealth Stabilization Variance | | | | | | | Intragovernmental Servi | | | | /ariance | _ | Iniand | | sileries and Ga | | /ariance | |
| Budget | | | Actual | | Favorable (Unfavorable) | | Budget | | Actual | | Favorable (Unfavorable) | | Budget | | Actual | | Favorable (Unfavorable) | |
| | _ | \$ | 272 | \$ | 272 | \$ | _ | \$ | _ | \$ | _ | \$ | 1,000 | \$ | 1,003 | \$ | | |
| | _ | | _ | | _ | | _ | | _ | | _ | | 6,200 | | 7,410 | | 1,21 | |
| | 13,036 | | 15,094 | | 2,058 | | _ | | 444,863 | | 444,863 | | 7,031 34 | | 7,401 617 | | 37 58 | |
| | 13,036 | | 15,366 | _ | 2,330 | = | | | 444,863 | | 444,863 | | 14,265 | | 16,431 | _ | 2,16 | |
| | _ | | _ _ | | _ _ | | _ | | _ | | _ _ | | _ | | _ | | - | |
| | 85,341 | | 736,645 | | 651,304 | | _ | | _ | | _ _ | | 182 | | 199 | | 1 | |
| | 85,341 98,377 | | 736,645 752,011 | | 651,304 653,634 | = | | | 444,863 | | 444,863 | | 182 14,447 | | 199 16,630 | | 2,18 | |
| | | | | | | | | | | | | | | | | | | |
| | _ | | _ _ | | _ _ | | _ _ | | _ _ | | _ _ | | <u> </u> | | _ | | = | |
| | _ | | _ | | _ | | _ | | _ | | _ | | _ | | _ | | = | |
| | _ | | | | | | 116 | | _ _ _ | | 116 | | _ _ _ | | _ _ _ | | = | |
| | _ | | _ | | _ | | _ | | _ | | _ | | _ | | _ | | - | |
| | _ | | _ | | _ _ | | _ | | _ | | _ _ | | 5 | | _ | | | |
| | _ | | _ | | _ | | _ | | _ | | _ | | _ | | _ | | | |
| | _ | | _ | | _ | | _ | | _ | | _ _ | | _ | | _ | | - | |
| | _ | | _ | | _ | | | | | | | | _ | | _ | | | |
| | _ | | _ | | _ | | 5,590 202,774 | | 5,060 180,863 | | 530 21,911 | | 85 | | — 74 | | | |
| | _ | | _ | | _ | | 3,150 | | 1,355 | | 1,795 | | 16,915 | | 14,812 | | 2,1 | |
| | _ | | _ | | _ | | 124,822 | | 105,389 | | 19,433 | | _ | | _ | | | |
| | _ | | _ | | _ | | 134,451 | | 65,599 | | 68,852 | | _ | | _ | | | |
| | _ | | _ | | _ | | _ | | _ | | _ | | _ | | _ | | | |
| | _ | | _ | | _ | | 1,927 | | 662 | | 1,265 | | _ | | _ | | | |
| | _ | | _ | | _ | | - 60.015 | | | | 4 1 4 0 | | _ | | _ | | | |
| | _ | | _ | | _ | | 68,915 7,552 | | 64,775 1,629 | | 4,140 5,923 | | _ | | _ | | | |
| | _ | | _ | | _ | | -,,,,,,, | | 200 | | (200) | | _ | | _ | | | |
| | _ | | _ | | _ | | _ | | _ | | _ | | _ | | _ | | | |
| | _ | | _ | | _ | | _ | | _ | | _ | | _ | | _ | | | |
| | | | | | | | 16,296 | | 15,241 | | 1,055 | | | | | | | |
| | | | | | | _ | 565,593 | | 440,773 | | 124,820 | _ | 17,005 | | 14,886 | | 2,1 | |
| | _ | | _ | | _ | | _ | | 7,416 | | — (7,416) | | _ | | 3,329 | | (3,3 | |
| | _ | | 25,695 | | (25,695) | | _ | | -,410 | | (7,410) | | _ | | _ | | | |
| | _ | | 25,695 | | (25,695) | | _ | | _ | | _ | | _ | | _ | | | |
| | <u> </u> | | | | | | | | | | | _ | | | | | _ | |
| | | | 51,390 | | (51,390) | _ | 565 502 | _ | 7,416 | | (7,416) | _ | 17.005 | _ | 3,329 | | (3,3 | |
| | | | 51,390 | | (51,390) | _ | 565,593 | _ | 448,189 | | 117,404 | _ | 17,005 | _ | 18,215 | | (1,2 | |
| | 98,377 | | 700,621 | \$ | 602,244 | \$ | (565,593) | | (3,326) | \$ | 562,267 | \$ | (2,558) | | (1,585) | \$ | 9 | |
| | | | 1,300,678 2,001,299 | | | | | | 12,519 | | | | | | 12,502 | | | |

Budgeted Funds

Combining Statements Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis - Budget And Actual
Fiscal Year Ended June 30, 2018
(Amounts in thousands)

| | | Environmental | | | Budgeted Other | |
|--|------------|---------------------|---|----------|-------------------|---|
| | Marine Rec | reational Fisheries | | | Public Safety Tru | |
| | Budget | Actual | Variance Favorable (Unfavorable) | Budget | Actual | Variance Favorable (Unfavorable) |
| REVENUES AND OTHER FINANCING SOURCES | | | (************************************** | | | (====================================== |
| Revenues: | | | | | | |
| Taxes | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — |
| Assessments | _ | _ | _ | _ | _ | _ |
| Federal grants and reimbursements | _ | _ | _ | _ | _ | _ |
| Tobacco settlement revenue | 1.525 | 1 707 | 252 | 1.000 | 1.022 | (070 |
| Departmental | 1,535 | 1,787 | 252 | 1,900 | 1,022 | (878 |
| Miscellaneous | 1,535 | 1,787 | 252 | 1,900 | 1,022 | (878 |
| Other financing sources: | 1,333 | 1,767 | | 1,700 | 1,022 | (878 |
| Fringe benefit cost recovery | _ | _ | _ | _ | _ | _ |
| Lottery reimbursements | _ | _ | _ | _ | _ | _ |
| Lottery distributions | _ | _ | _ | _ | _ | _ |
| Operating transfers in | _ | _ | _ | _ | _ | _ |
| Stabilization transfer | | | | | | |
| Total other financing sources | | | | | | |
| Total revenues and other financing sources | 1,535 | 1,787 | 252 | 1,900 | 1,022 | (878 |
| EXPENDITURES AND OTHER FINANCING USES | | | | | | |
| Expenditures: | | | | | | |
| Legislature | _ | _ | _ | _ | _ | _ |
| Judiciary | _ | _ | _ | _ | _ | _ |
| Inspector General | _ | _ | _ | _ | _ | _ |
| Governor and Lieutenant Governor | _ | _ | _ | _ | _ | _ |
| Secretary of the Commonwealth | _ | _ | _ | _ | _ | _ |
| Treasurer and Receiver-General | _ | _ | _ | _ | _ | _ |
| Auditor of the Commonwealth | _ | _ | _ | _ | _ | _ |
| Attorney General | | _ | _ | 4 | 4 | _ |
| Ethics Commission | _ | _ | _ | _ | _ | _ |
| District Attorney | _ | _ | _ | _ | _ | _ |
| Office of Campaign & Political Finance | _ | _ | _ | _ | _ | _ |
| Sheriffs' Departments | _ | _ | _ | 20 | 20 | _ |
| Disabled Persons Protection Commission | _ | _ | _ | _ | _ | _ |
| Board of Library Commissioners | _ | _ | _ | _ | _ | = |
| Comptroller | _ | _ | _ | _ | _ | _ |
| Administration and Finance | | 050 | 1 256 | _ | _ | _ |
| Energy and Environmental Affairs Health and Human Services | 2,306 | 950 | 1,356 | _ | _ | _ |
| Executive Office of Technology Services and Security | _ | _ | _ | _ | _ | |
| Massachusetts Department of Transportation | _ | _ | _ | _ | _ | _ |
| Office of the Child Advocate | | | _ | | | |
| Cannabis Control Commission | | _ | | _ | _ | |
| Executive Office of Education | _ | _ | _ | _ | _ | _ |
| Center for Health Information and Analysis | _ | _ | _ | _ | _ | _ |
| Public Safety and Security | _ | _ | | 2.096 | 2.048 | 48 |
| Housing and Economic Development | _ | _ | _ | _ | , _ | _ |
| Labor and Workforce Development | _ | _ | _ | _ | _ | _ |
| Direct local aid | _ | _ | _ | _ | _ | _ |
| Medicaid program expenses | _ | _ | _ | _ | _ | _ |
| Post employment benefits | _ | _ | _ | _ | _ | _ |
| Debt service: | | | | | | |
| Principal retirement | _ | _ | _ | _ | _ | _ |
| Interest and fiscal charges | | | | | | |
| Total expenditures | 2,306 | 950 | 1,356 | 2,120 | 2,072 | 48 |
| Other financing uses: | | | | | | |
| Fringe benefit cost assessment | _ | 169 | (169) | _ | 586 | (586 |
| Operating transfers out | _ | _ | | _ | _ | _ |
| State Retiree Benefits transfer | _ | _ | _ | _ | _ | _ |
| State Pension transfer | _ | _ | _ | _ | _ | _ |
| Stabilization transfer | _ | _ | _ | _ | _ | _ |
| Medical assistance transfer | | | | | | |
| Total other financing uses | | 169 | (169) | | 586 | (586 |
| Total expenditures and other financing uses | 2,306 | 1,119 | 1,187 | 2,120 | 2,658 | (538 |
| Excess (deficiency) of revenues and other financing | | | | | | |
| sources over / (under) expenditures and other financing uses | \$ (771) | 668 | \$ 1,439 | \$ (220) | (1,636) | \$ (1,410 |
| | | | | | • • • • | |
| Fund balance (deficit) at beginning of year | | 3,180 | | | 2,892 | |

| (| Community First Tru | st | | Budgeted Other Gaming Local Aid | | I. | ocal Aid Stabilizatio | on . |
|-------------|---------------------|--|------------------|------------------------------------|--|-------------|-----------------------|---------------------------|
| | Sommanity First Fra | | | Gaining Local File | Variance | | ocui i ila suomzun | Variance |
| Budget | Actual | Variance Favorable (Unfavorable) | Budget | Actual | Variance Favorable (Unfavorable) | Budget | Actual | Favorable (Unfavorable |
| _ | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — | \$ - |
| _ | | _ _ _ | _ | _ | _ | _ _ _ | _ | |
| _ _ | _ | _ | _ | _ _ | _ _ | _ _ | _ | |
| | | | | | | | | |
| _ _ | _ | _ _ | _ | _ _ | _ _ | _ _ | _ _ | |
| _ | _ _ | <u> </u> | 64,400 | 68,011 | 3,611 | _ _ | <u> </u> | |
| <u>_</u> | | | 64,400 64,400 | 68,011 68,011 | 3,611 3,611 | | | |
| <u> </u> | | | 04,400 | 08,011 | 3,011 | | | |
| _ | _ | _ | _ | _ | _ | _ | _ | |
| | | | \equiv | | | Ξ | | |
| _ | _ | _ | _ | _ | _ | _ | _ | |
| _ | _ _ | _ _ | _ | _ _ | _ _ | _ _ | _ _ | |
| _ _ | _ | _ _ | _ | _ | _ _ | | _ _ | |
| _ | _ | _ _ | _ | _ _ | _ | _ _ | _ _ | |
| _ | _ _ | _ _ | _ _ | _ _ | _ _ | _ _ | _ _ | |
| | _ _ _ | _ _ _ | _ _ _ | | _ _ _ | _ | _ _ | |
| 11,666 | 11,170 | 496 | _ | _ | | _ | _ _ _ | |
| _ | _ _ | _ _ | _ | _ | _ _ | _ _ | _ | |
| _ | _ _ | | _ | _ | _ | _ | | |
| _ | _ | _ _ | _ | _ _ | _ | _ _ | _ _ | |
| _ | _ _ | _ _ | | | _ _ | _ _ | _ _ | |
| _ | _ | _ | 64,344 | 64,343 | 1 | _ | _ | |
| _ | _ | _ | _ | _ | _ | _ | _ | |
| — 11,666 | 11,170 | 496 | 64,344 | 64,343 | 1 | | | |
| _ | 867 | (867) | _ | _ | _ | _ | _ | |
| _ _ | | | _ _ | _ _ | _ _ | _ _ | _ _ | |
| _ | _ | _ _ | _ _ | 3,668 | (3,668) | _ _ | _ _ | |
| | 867 | (867) | | 3,668 | (3,668) | | | |
| 11,666 | 12,037 | (371) | 64,344 | 68,011 | (3,667) | | | |
| (11,666) | (12,037) | \$ (371) | \$ 56 | | \$ (56) | <u> </u> | 50 | \$ |
| | \$ — | | | \$ — | | | \$ 50 | |

Budgeted Funds

Combining Statements Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis - Budget And Actual
Fiscal Year Ended June 30, 2018
(Amounts in thousands)

| | | | Dude | geted Other | | | Tatala | | | | | |
|---|-------|-----|--------|-------------|-----|--------------------|--------|-----------------------|------|--------------------------|----|---------------------------|
| | | M: | _ | na Regulat | | | | | (Men | Totals norandum only) |) | |
| | | IVI | arijua | na Regulat | | riance | - | | | | | Variance |
| | Budge | t | A | Actual | Fav | orable vorable) | | Budget | | Actual | | Favorable Infavorable) |
| REVENUES AND OTHER FINANCING SOURCES | | | | | | | | | | | | |
| Revenues: | e | | 6 | | e | | • | 24.074.400 | • | 25.007.770 | ø | 1.042.260 |
| TaxesAssessments | \$ | | \$ | _ | \$ | _ | \$ | 24,864,400 464,509 | \$ | 25,906,660 439,686 | \$ | 1,042,260 (24,823 |
| Federal grants and reimbursements | | | | 39 | | 39 | | 11,286,123 | | 11,376,956 | | 90,833 |
| Tobacco settlement revenue | | _ | | | | _ | | 257,500 | | 243,313 | | (14,187 |
| Departmental | | _ | | _ | | _ | | 3,655,017 | | 4,071,620 | | 416,603 |
| Miscellaneous | | _ | | _ | | _ | | 294,856 | | 424,789 | | 129,933 |
| Total revenues | | _ | | 39 | | 39 | | 40,822,405 | | 42,463,024 | | 1,640,619 |
| Other financing sources: | | | | | | | | _ | | _ | | |
| Fringe benefit cost recovery | | _ | | _ | | _ | | 435,041 | | 434,924 | | (117 |
| Lottery reimbursements | | _ | | _ | | _ | | 90,888 | | 103,136 | | 12,248 |
| Lottery distributions | | _ | | _ | | _ | | 994,754 | | 983,108 | | (11,646 |
| Operating transfers in | | _ | | _ | | _ | | 350,804 | | 315,398 | | (35,406 |
| Stabilization transfer Total other financing sources | | = | | | | | _ | 85,341 1,956,828 | _ | 736,645 2,573,211 | _ | 651,304 616,383 |
| Total revenues and other financing sources | | _ | | 39 | | 39 | _ | 42,779,233 | _ | 45,036,235 | _ | 2,257,002 |
| · · | | _ | | 37 | | | _ | 42,777,233 | _ | 43,030,233 | _ | 2,237,002 |
| EXPENDITURES AND OTHER FINANCING USES | | | | | | | | | | | | |
| Expenditures: Legislature | | _ | | _ | | _ | | 103,532 | | 67,850 | | 35,682 |
| Judiciary | | _ | | _ | | _ | | 929,008 | | 919,016 | | 9,992 |
| Inspector General | | _ | | _ | | _ | | 4,371 | | 4,370 | | -, |
| Governor and Lieutenant Governor | | _ | | _ | | _ | | 7,602 | | 6,574 | | 1,028 |
| Secretary of the Commonwealth | | _ | | _ | | _ | | 43,086 | | 39,339 | | 3,74 |
| Treasurer and Receiver-General | | _ | | _ | | _ | | 219,374 | | 215,183 | | 4,19 |
| Auditor of the Commonwealth | | _ | | _ | | _ | | 18,723 | | 18,610 | | 11. |
| Attorney General | | _ | | _ | | _ | | 49,256 | | 47,993 | | 1,26 |
| Ethics Commission | | _ | | _ | | _ | | 2,094 | | 2,042 | | 52 |
| District Attorney | | _ | | _ | | _ | | 119,703 | | 119,206 | | 497 |
| Office of Campaign & Political Finance | | _ | | _ | | _ | | 1,618 | | 1,594 | | 24 |
| Sheriffs' Departments | | _ | | _ | | _ | | 621,940 | | 620,318 | | 1,622 |
| Disabled Persons Protection Commission | | _ | | _ | | _ | | 3,131 | | 3,131 | | _ |
| Board of Library Commissioners | | _ | | _ | | _ | | 25,453 | | 25,443 | | 10 |
| Comptroller | | _ | | _ | | _ | | 14,405 | | 13,877 | | 528 |
| Administration and Finance Energy and Environmental Affairs | | | | _ | | _ | | 2,641,365 | | 2,305,871 | | 335,494 13,579 |
| Health and Human Services | | _ | | _ | | | | 244,535 6,369,091 | | 230,956 6,035,926 | | 333,165 |
| Executive Office of Technology Services and Security | | | | | | _ | | 151,555 | | 73,456 | | 78,099 |
| Massachusetts Department of Transportation | | _ | | _ | | _ | | 127,000 | | 127,000 | | 70,07 |
| Office of the Child Advocate | | _ | | _ | | _ | | 800 | | 706 | | 94 |
| Cannabis Control Commission | | _ | | | | _ | | 6,999 | | 2,241 | | 4,758 |
| Executive Office of Education | | _ | | _ | | _ | | 2,351,178 | | 2,289,929 | | 61,249 |
| Center for Health Information and Analysis | | _ | | _ | | _ | | 32,044 | | 21,452 | | 10,592 |
| Public Safety and Security | | _ | | _ | | _ | | 1,226,536 | | 1,166,779 | | 59,75 |
| Housing and Economic Development | | _ | | _ | | _ | | 553,578 | | 533,168 | | 20,410 |
| Labor and Workforce Development | | _ | | _ | | _ | | 60,670 | | 46,785 | | 13,885 |
| Direct local aid | | _ | | _ | | _ | | 5,890,434 | | 5,885,520 | | 4,914 |
| Medicaid program expenses | | _ | | _ | | _ | | 15,609,522 | | 15,744,534 | | (135,012 |
| Post employment benefits | | _ | | _ | | _ | | 2,826,904 | | 2,891,491 | | (64,587 |
| Debt service: | | | | | | | | | | | | |
| Principal retirement | | _ | | _ | | _ | | 1,340,701 | | 1,299,705 | | 40,996 |
| Interest and fiscal charges | | = | | | | | _ | 1,046,843 | _ | 1,023,656 | _ | 23,187 |
| Total expenditures | | _ | | | | | _ | 42,643,051 | _ | 41,783,721 | _ | 859,330 |
| Other financing uses: | | | | | | | | | | 4.052 | | (4.05 |
| Fringe benefit cost assessment | | _ | | _ | | _ | | | | 4,952 | | (4,952 |
| Operating transfers out | | _ | | _ | | _ | | 900,976 | | 954,099 | | (53,123 (25,69) |
| State Retiree Benefits transfer | | _ | | | | | | | | 25,695 | | |
| State Pension transfer Stabilization transfer | | | | 39 | | (39) | | 51,500 | | 25,695 723,195 | | (25,695) (671,695) |
| Medical assistance transfer | | _ | | <i>37</i> | | (39) | | 747,100 | | 579,944 | | 167,150 |
| Total other financing uses | | _ | _ | 39 | | (39) | _ | 1,699,576 | _ | 2,313,580 | _ | (614,004 |
| Total expenditures and other financing uses | | _ | _ | 39 | | (39) | _ | 44,342,627 | _ | 44,097,301 | _ | 245,320 |
| | | | | | | (27) | _ | .,, | | ., , 1 | | ,52 |
| Excess (deficiency) of revenues and other financing | | | | | | | | | | | | |
| Excess (deficiency) of revenues and other financing sources over / (under) expenditures and other | s | _ | | | \$ | | 2 | (1.563.394) | | 938 934 | Ŷ. | 2 502 329 |
| | \$ | _ | | _ | \$ | | \$ | (1,563,394) | | 938,934 1,447,735 | \$ | 2,502,328 |



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General Fund

Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | 2018 | 2017 |
|---|-----------------|---------------|
| ASSETS | | |
| Cash and short-term investments | \$ 697,815 | \$ 256,679 |
| Receivables, net of allowance for uncollectibles: | | |
| Due from federal government | 476,377 | 646,986 |
| Other receivables | 184,466 | 18,501 |
| Due from cities and towns | 34,647 | 12,143 |
| Total assets | \$ 1,393,305 | \$ 934,309 |
| LIABILITIES AND FUND BALANCE | | |
| Liabilities: | | |
| Accounts payable | \$ 956,051 | \$ 772,220 |
| Accrued payroll | 96,520 | 76,292 |
| Total liabilities | 1,052,571 | 848,512 |
| Fund balance: | | |
| Reserved fund balance: | | |
| Reserved for continuing appropriations | 340,734 | 85,797 |
| Total fund balance | 340,734 | 85,797 |
| Total liabilities and fund balance | \$ 1,393,305 | \$ 934,309 |

General Fund

Statement Of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| (Amou | ınts in thousan | ds) | | |
|--|-----------------|----------------|--|----------------|
| | 2018 Budget | 2018 Actual | Variance Favorable (Unfavorable) | 2017 Actual |
| REVENUES AND OTHER FINANCING SOUR | RCES | | | |
| Revenues: | | | | |
| Taxes | \$ 23,561,400 | \$ 24,573,613 | \$ 1,012,213 | \$ 22,510,10 |
| Assessments | 440,561 | 417,483 | (23,078) | 431,57 |
| Federal grants and reimbursements | 11,279,923 | 11,369,508 | 89,585 | 10,850,37 |
| Tobacco settlement revenue | 257,500 | 243,313 | (14,187) | 254,49 |
| Departmental | 2,968,795 | 2,932,173 | (36,622) | 2,658,20 |
| Miscellaneous | 281,785 | 408,374 | 126,589 | 311,30 |
| Total revenues | 38,789,964 | 39,944,464 | 1,154,500 | 37,016,05 |
| Other financing sources: | | | | |
| Fringe benefit cost recovery | 435,041 | 434,924 | (117) | 416,18 |
| Lottery reimbursements | 90,888 | 103,136 | 12,248 | 100,39 |
| Lottery distributions | 994,754 | 983,108 | (11,646) | 1,025,41 |
| Operating transfers in | 246,222 | 203,427 | (42,795) | 652,40 |
| Total other financing sources | 1,766,905 | 1,724,595 | (42,310) | 2,194,38 |
| Total revenues and other financing sources | 40,556,869 | 41,669,059 | 1,112,190 | 39,210,44 |
| EXPENDITURES AND OTHER FINANCING | USES | | | |
| Expenditures: | | | | |
| Legislature | 103,532 | 67,850 | 35,682 | 66,75 |
| Judiciary | 929,008 | 919,016 | 9,992 | 908,48 |
| Inspector General | 4,371 | 4,370 | 1 | 4,20 |
| Governor and Lieutenant Governor | 7,602 | 6,574 | 1,028 | 6,56 |
| Secretary of the Commonwealth | 42,970 | 39,339 | 3,631 | 45,84 |
| Treasurer and Receiver-General | 219,374 | 209,460 | 9,914 | 201,09 |
| Auditor of the Commonwealth | 18,723 | 18,610 | 113 | 18,22 |
| Attorney General | 49,247 | 47,989 | 1,258 | 46,28 |
| Ethics Commission | 2,094 | 2,042 | 52 | 1,88 |
| District Attorney | 119,703 | 119,206 | 497 | 119,79 |
| Office of Campaign and Political Finance | 1,618 | 1,594 | 24 | 1,52 |
| Sheriffs' Department | 621,920 | 620,299 | 1,621 | 610,05 |
| Disabled Persons Protection Commission | 3,131 | 3,131 | _ | 3,04 |
| Board of Library Commissioners | 25,453 | 25,443 | 10 | 25,15 |
| Comptroller | 8,815 | 8,816 | (1) | 8,83 |

continued

General FundStatement Of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | 2018 Budget | 2018 Actual | Variance Favorable (Unfavorable) | 2017 Actual |
|--|----------------|----------------|--|----------------|
| Expenditures (continued): | | | | |
| Administration and Finance | 2,438,506 | 2,124,934 | 313,572 | 2,131,774 |
| Energy and Environmental Affairs | 222,164 | 213,839 | 8,325 | 206,253 |
| Health and Human Services | 6,232,603 | 5,919,367 | 313,236 | 5,569,829 |
| Executive Office of Technology Services and Security | 17,104 | 7,857 | 9,247 | _ |
| Office of the Child Advocate | 800 | 706 | 94 | 633 |
| Cannabis Control Commission | 6,999 | 2,241 | 4,758 | _ |
| Executive Office of Education | 2,349,251 | 2,289,267 | 59,984 | 2,233,278 |
| Center for Health Information and Analysis | 32,043 | 21,452 | 10,591 | 23,031 |
| Public Safety and Security | 1,155,526 | 1,099,956 | 55,570 | 1,058,933 |
| Housing and Economic Development | 546,026 | 531,539 | 14,487 | 494,179 |
| Labor and Workforce Development | 60,670 | 46,585 | 14,085 | 44,267 |
| Direct local aid | 5,826,090 | 5,821,177 | 4,913 | 5,639,056 |
| Medicaid | 15,609,522 | 15,744,534 | (135,012) | 15,251,717 |
| Post employment benefits | 2,826,904 | 2,846,432 | (19,528) | 2,643,761 |
| Debt service: | | | | |
| Principal retirement | 655,652 | 643,448 | 12,204 | 693,349 |
| Interest and fiscal charges | 535,401 | 525,435 | 9,966 | 484,588 |
| Total expenditures | 40,672,822 | 39,932,508 | 740,314 | 38,542,391 |
| Other financing uses: | | | | |
| Operating transfers out | 270,326 | 312,007 | (41,681) | 282,763 |
| Stabilization transfer | 51,500 | 589,663 | (538,163) | _ |
| Medical assistance transfer | 747,100 | 579,944 | 167,156 | 403,367 |
| Total other financing uses | 1,068,926 | 1,481,614 | (412,688) | 686,130 |
| Total expenditures and other financing uses | 41,741,748 | 41,414,122 | 327,626 | 39,228,521 |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | \$ (1,184,879) | 254,937 | \$ 1,439,816 | (18,079) |
| Fund balance/(deficit) at beginning of year | | 85,797 | | 103,876 |
| Fund balance/(deficit) at end of year | | \$ 340,734 | | \$ 85,797 |



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Commonwealth Transportation Fund

Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | 2018 | 2017 |
|------------------------------------|--------------|--------------|
| ASSETS | | |
| Cash and short-term investments | \$ 693 | \$ 482 |
| Cash with fiscal agent | 19,373 | 18,080 |
| Total assets | \$ 20,066 | \$ 18,562 |
| LIABILITIES AND FUND BALANCE | | |
| Liabilities: | | |
| Accounts payable | \$ 693 | \$ 482 |
| Total liabilities | 693 | 482 |
| Fund balance: | | |
| Reserved fund balance: | | |
| Reserved for debt service | 19,373 | 18,080 |
| Total fund balance | 19,373 | 18,080 |
| Total liabilities and fund balance | \$ 20,066 | \$ 18,562 |

Commonwealth Transportation Fund

Statement of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| , | 2018 Budget | 2018 Actual | Variance Favorable (Unfavorable) | 2017 Actual |
|--|----------------|----------------|--|----------------|
| REVENUES AND OTHER FINANCING SOURCE | S | | | |
| Revenues: | | | | |
| Taxes | \$ 1,302,000 | \$ 1,331,772 | \$ 29,772 | \$ 1,316,807 |
| Assessments | 23,947 | 22,204 | (1,743) | 22,464 |
| Departmental | 675,756 | 684,374 | 8,618 | 666,638 |
| Miscellaneous | | 702 | 702 | 240 |
| Total revenues | 2,001,703 | 2,039,052 | 37,349 | 2,006,149 |
| Other financing sources: | | | | |
| Operating transfers in | 40,000 | 43,762 | 3,762 | 40,000 |
| Total other financing sources | 40,000 | 43,762 | 3,762 | 40,000 |
| Total revenues and other financing sources | 2,041,703 | 2,082,814 | 41,111 | 2,046,149 |
| EXPENDITURES AND OTHER FINANCING USE | ES | | | |
| Expenditures: | | | | |
| Treasurer and Receiver-General | _ | 5,723 | (5,723) | _ |
| Massachusetts Department of Transportation | 127,000 | 127,000 | _ | 140,250 |
| Post employment benefits | _ | 45,059 | (45,059) | 15,948 |
| Debt service: | | | | |
| Principal retirement | 668,753 | 641,016 | 27,737 | 595,516 |
| Interest and fiscal charges | 511,442 | 498,221 | 13,221 | 499,592 |
| Total expenditures | 1,307,195 | 1,317,019 | (9,824) | 1,251,306 |
| Other financing uses: | | | | |
| Operating transfers out | 630,650 | 634,676 | (4,026) | 793,453 |
| Stabilization transfer | _ | 129,826 | (129,826) | |
| Total other financing uses | 630,650 | 764,502 | (133,852) | 793,453 |
| Total expenditures and other financing uses | 1,937,845 | 2,081,521 | (143,676) | 2,044,759 |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | \$ 103,858 | 1,293 | \$ (102,565) | 1,390 |
| Fund balance/(deficit) at beginning of year | | 18,080 | (102,000) | 16,690 |
| , , , | | | | |
| Fund balance/(deficit) at end of year | | \$ 19,373 | | \$ 18,080 |

Commonwealth Stabilization Fund

Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | 2018 | 2017 |
|---|-----------------|-----------------|
| ASSETS | | |
| Cash and short-term investments | \$ 1,728,831 | \$ 1,028,454 |
| Investments | 272,468 | 272,224 |
| Total assets | \$ 2,001,299 | \$ 1,300,678 |
| LIABILITIES AND FUND EQUITY | | |
| Liabilities: | | |
| Accounts payable | \$ | \$ |
| Total liabilities | | |
| Fund balance: | | |
| Reserved fund balance: | | |
| Reserved for Commonwealth Stabilization | 2,001,299 | 1,300,678 |
| Total fund balance | 2,001,299 | 1,300,678 |
| Total liabilities and fund balance | \$ 2,001,299 | \$ 1,300,678 |

Commonwealth Stabilization Fund

Statement of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | 2018 Budget | 2018 Actual | | Variance Favorable (Unfavorable) | | 2017 Actual | |
|--|----|----------------|----------------|-----------|--|----------|-----------------|--|
| REVENUES AND OTHER FINANCING SOURCE | s | | | | | | | |
| Revenues: | | | | | | | | |
| Taxes | \$ | _ | \$ | 272 | \$ | 272 | \$ 377 | |
| Miscellaneous | | 13,036 | _ | 15,094 | | 2,058 | 8,787 | |
| Total revenues | | 13,036 | | 15,366 | | 2,330 | 9,164 | |
| Other financing sources: | | | | | | | | |
| Stabilization transfer | | 85,341 | | 736,645 | | 651,304 | | |
| Total other financing sources | | 85,341 | | 736,645 | | 651,304 | | |
| Total revenues and other financing sources | | 98,377 | | 752,011 | | 653,634 | 9,164 | |
| EXPENDITURES AND OTHER FINANCING USE | ES | | | | | | | |
| Expenditures: | | | | | | | | |
| Administration and Finance | | | _ | | | | | |
| Total expenditures | | | | | | | | |
| Other financing uses: | | | | | | | | |
| State Retiree Benefits transfer | | | | 25,695 | | (25,695) | | |
| State Pension transfer | | | | 25,695 | | (25,695) | | |
| Total other financing uses | | | | 51,390 | | (51,390) | | |
| Total expenditures and other financing uses | | | | 51,390 | | (51,390) | | |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | \$ | 98,377 | _ | 700,621 | \$ | 602,244 | 9,164 | |
| Fund balance/(deficit) at beginning of year | | | | 1,300,678 | | | 1,291,514 | |
| Fund balance/(deficit) at end of year | | | \$ | 2,001,299 | | | \$ 1,300,678 | |

Intragovernmental Service Fund

Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | 2018 | 2017 | | |
|--|--------------|------|--------|--|
| ASSETS | | | | |
| Cash and short-term investments. | \$ 51,811 | \$ | 51,090 | |
| Total assets | \$ 51,811 | \$ | 51,090 | |
| LIABILITIES AND FUND EQUITY | | | | |
| Liabilities: | | | | |
| Accounts payable | \$ 40,021 | \$ | 36,978 | |
| Accrued payroll | 2,597 | | 1,593 | |
| Total liabilities | 42,618 | | 38,571 | |
| Fund balance: | | | | |
| Reserved fund balance: | | | | |
| Reserved for continuing appropriations | 9,193 | | 12,519 | |
| Total fund balance | 9,193 | | 12,519 | |
| Total liabilities and fund balance | \$ 51,811 | \$ | 51,090 | |

Intragovernmental Service Fund

Statement of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | 2018 Budget | 2018 Actual | Variance Favorable (Unfavorable) | 2017 Actual |
|---|----------------|----------------|--|----------------|
| REVENUES AND OTHER FINANCING SOURCE | S | | | |
| Revenues: | | | | |
| Departmental | \$ | \$ 444,863 | \$ 444,863 | \$ 436,146 |
| Total revenues | _ | 444,863 | 444,863 | 436,146 |
| Other financing sources: | | | | |
| Operating transfers in | _ | _ | _ | _ |
| Total other financing sources | | | | |
| Total revenues and other financing sources | _ | 444,863 | 444,863 | 436,146 |
| EXPENDITURES AND OTHER FINANCING USE | ES . | | | |
| Expenditures: | | | | |
| Secretary of the Commonwealth | 116 | _ | 116 | _ |
| Comptroller | 5,590 | 5,060 | 530 | 5,234 |
| Administration and Finance | 202,774 | 180,863 | 21,911 | 243,692 |
| Energy and Environmental Affairs | 3,150 | 1,355 | 1,795 | 1,521 |
| Health and Human Services | 124,822 | 105,389 | 19,433 | 98,959 |
| Executive Office of Technology Services and Security | 134,451 | 65,599 | 68,852 | |
| Executive Office of Education | 1,927 | 662 | 1,265 | 767 |
| Public Safety and Security | 68,915 | 64,775 | 4,140 | 59,653 |
| Housing and Economic Development | 7,552 | 1,629 | 5,923 | 1,781 |
| Labor and Workforce Development | _ | 200 | (200) | |
| Debt service: | | | | |
| Principal retirement | 16,296 | 15,241 | 1,055 | 11,632 |
| Total expenditures | 565,593 | 440,773 | 124,820 | 423,239 |
| Other financing uses: | | | | |
| Operating transfers out | | 7,416 | (7,416) | 5,840 |
| Total other financing uses | _ | 7,416 | (7,416) | 5,840 |
| Total expenditures and other financing uses | 565,593 | 448,189 | 117,404 | 429,079 |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and | ¢ (565 502) | (2.22() | \$ 560.067 | 7.067 |
| other financing uses | \$ (565,593) | (3,326) | \$ 562,267 | 7,067 |
| Fund balance/(deficit) at beginning of year | | 12,519 | | 5,452 |
| Fund balance/(deficit) at end of year | | \$ 9,193 | | \$ 12,519 |

Inland Fisheries And Game Fund

Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | 2018 | 2017 | | |
|------------------------------------|--------------|------|--------|--|
| ASSETS | | | | |
| Cash and short-term investments. | \$ 11,719 | \$ | 13,265 | |
| Total assets | \$ 11,719 | \$ | 13,265 | |
| LIABILITIES AND FUND EQUITY | | | | |
| Liabilities: | | | | |
| Accounts payable | \$ 610 | \$ | 573 | |
| Accrued payroll | 192 | | 190 | |
| Total liabilities | 802 | | 763 | |
| Fund balance: | | | | |
| Unreserved fund balance: | | | | |
| Undesignated | 10,917 | | 12,502 | |
| Total fund balance | 10,917 | | 12,502 | |
| Total liabilities and fund balance | \$ 11,719 | \$ | 13,265 | |

Inland Fisheries And Game Fund

Statement Of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | 2018 Budget | | 2018 Actual | Variance Favorable (Unfavorable) | | 2017 Actual |
|--|----|----------------|----|----------------|--|---------|----------------|
| REVENUES AND OTHER FINANCING SOURCE | S | | | | | | |
| Revenues: | | | | | | | |
| Taxes | \$ | 1,000 | \$ | 1,003 | \$ | 3 | \$ 1,007 |
| Federal grants and reimbursements | | 6,200 | | 7,410 | | 1,210 | 7,452 |
| Departmental | | 7,031 | | 7,401 | | 370 | 7,158 |
| Miscellaneous | | 34 | _ | 617 | | 583 | 254 |
| Total revenues | | 14,265 | | 16,431 | | 2,166 | 15,871 |
| Other financing sources: | | | | | | | |
| Operating transfers in | | 182 | | 199 | | 17 | 191 |
| Total other financing sources | | 182 | | 199 | - | 17 | 191 |
| Total revenues and other financing sources | | 14,447 | | 16,630 | | 2,183 | 16,062 |
| EXPENDITURES AND OTHER FINANCING USE | ES | | | | | | |
| Expenditures: | | | | | | | |
| Attorney General | | 5 | | _ | | 5 | _ |
| Administration and Finance | | 85 | | 74 | | 11 | 126 |
| Energy and Environmental Affairs | | 16,915 | | 14,812 | | 2,103 | 14,808 |
| Total expenditures | | 17,005 | | 14,886 | - | 2,119 | 14,934 |
| Other financing uses | | | | | | | |
| Fringe benefit cost assessment | | | _ | 3,329 | | (3,329) | 3,225 |
| Total other financing uses | | | | 3,329 | | (3,329) | 3,225 |
| Total expenditures and other financing uses | | 17,005 | _ | 18,215 | | (1,210) | 18,159 |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | \$ | (2,558) | _ | (1,585) | \$ | 973 | (2,097) |
| Fund balance/(deficit) at beginning of year | | | | 12,502 | | | 14,599 |
| Fund balance/(deficit) at end of year | | | \$ | 10,917 | | | \$ 12,502 |

Marine Recreational Fisheries Development Fund

Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | 2018 | 2017 |
|--|-------------|-------------|
| ASSETS | | |
| Cash and short-term investments. | \$ 3,975 | \$ 3,302 |
| Total assets | \$ 3,975 | \$ 3,302 |
| LIABILITIES AND FUND EQUITY | | |
| Liabilities: | | |
| Accounts payable | \$ 114 | \$ 111 |
| Accrued payroll | 13 | 11 |
| Total liabilities | 127 | 122 |
| Fund balance: | | |
| Reserved fund balance: | | |
| Reserved for continuing appropriations | 1,000 | 1,000 |
| Unreserved fund balance: | | |
| Undesignated | 2,848 | 2,180 |
| Total fund balance | 3,848 | 3,180 |
| Total liabilities and fund balance | \$ 3,975 | \$ 3,302 |

Marine Recreational Fisheries Development Fund

Statement Of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | 2018 Budget | | 2018 Actual | | Variance Favorable (Unfavorable) | | | 2017 Actual |
|--|----------------|-------|----------------|-------|--|-------|----|----------------|
| REVENUES AND OTHER FINANCING SOURCE | S | | | | | | | |
| Revenues: | | | | | | | | |
| Departmental | \$ | 1,535 | \$ | 1,787 | \$ | 252 | \$ | 1,637 |
| Total revenues | | 1,535 | | 1,787 | | 252 | | 1,637 |
| Other financing sources: | | | | | | | | |
| Operating transfers in | | | | | | | | |
| Total other financing sources | | | | | | | | |
| Total revenues and other financing sources | | 1,535 | | 1,787 | | 252 | | 1,637 |
| EXPENDITURES AND OTHER FINANCING USE | S | | | | | | | |
| Expenditures: | | | | | | | | |
| Energy and Environmental Affairs | | 2,306 | _ | 950 | | 1,356 | | 1,000 |
| Total expenditures | _ | 2,306 | | 950 | | 1,356 | | 1,000 |
| Other financing uses | | | | | | | | |
| Fringe benefit cost assessment | _ | | | 169 | | (169) | | 159 |
| Total other financing uses | _ | | | 169 | | (169) | | 159 |
| Total expenditures and other financing uses | | 2,306 | | 1,119 | | 1,187 | | 1,159 |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | • | (771) | | 668 | ¢ | 1.439 | | 478 |
| | Φ | (//1) | | | \$ | 1,437 | | .,. |
| Fund balance/(deficit) at beginning of year | | | _ | 3,180 | | | _ | 2,702 |
| Fund balance/(deficit) at end of year | | | \$ | 3,848 | | | \$ | 3,180 |

Public Safety Training Fund

Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | 2018 | 2017 |
|--|-------------|-------------|
| ASSETS | | _ |
| Cash and short-term investments. | \$ 1,256 | \$ 2,892 |
| Total assets | \$ 1,256 | \$ 2,892 |
| LIABILITIES AND FUND BALANCE | | |
| Liabilities: | | |
| Accounts payable | \$ | \$ |
| Total liabilities | | |
| Fund balance: | | |
| Reserved fund balance: | | |
| Reserved for continuing appropriations | 1,173 | _ |
| Unreserved fund balance: | | |
| Undesignated | 83 | 2,892 |
| Total fund balance | 1,256 | 2,892 |
| Total liabilities and fund balance | \$ 1,256 | \$ 2,892 |

Public Safety Training Fund

Statement Of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | 2018 Budget | 2018 Actual | Variance Favorable (Unfavorable) | 2017 Actual |
|--|----------------|----------------|--|----------------|
| REVENUES AND OTHER FINANCING SOURCE | s | | | |
| Revenues: | | | | |
| Departmental | \$ 1,900 | \$ 1,022 | \$ (878) | \$ 1,171 |
| Miscellaneous | | | | |
| Total revenues | 1,900 | 1,022 | (878) | 1,171 |
| Other financing sources: | | | | |
| Operating transfers in | | | | |
| Total other financing sources | | | | |
| Total revenues and other financing sources | 1,900 | 1,022 | (878) | 1,171 |
| EXPENDITURES AND OTHER FINANCING USE | S | | | |
| Expenditures: | | | | |
| Attorney General | 4 | 4 | _ | 1 |
| Sheriffs' Department | 20 | 20 | _ | 10 |
| Public Safety and Security | 2,096 | 2,048 | 48 | 670 |
| Total expenditures | 2,120 | 2,072 | 48 | 681 |
| Other financing uses: | | | | |
| Fringe benefit cost assessment | | 586 | (586) | 88 |
| Total other financing uses | | 586 | (586) | 88 |
| Total expenditures and other financing uses | 2,120 | 2,658 | (538) | 769 |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | \$ (220) | (1,636) | \$ (1,416) | 402 |
| Fund balance/(deficit) at beginning of year | | 2,892 | | 2,490 |
| Fund balance/(deficit) at end of year | | \$ 1,256 | | \$ 2,892 |

Community First Trust Fund

Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | 2 | 018 | 2017 | | |
|------------------------------------|----|-----|------|--------|--|
| ASSETS | | | | | |
| Cash and short-term investments | \$ | | \$ | 12,037 | |
| Total assets | \$ | | \$ | 12,037 | |
| LIABILITIES AND FUND BALANCE | | | | | |
| Liabilities: | | | | | |
| Accounts payable | \$ | | \$ | | |
| Total liabilities | | | | | |
| Fund balance: | | | | | |
| Unreserved fund balance: | | | | | |
| Undesignated | | | | 12,037 | |
| Total fund balance | | | | 12,037 | |
| Total liabilities and fund balance | \$ | | \$ | 12,037 | |

Community First Trust Fund

Statement Of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | 2018 Budget | 2018 t Actual | | Variance Favorable (Unfavorable) | | 2017 Actual |
|---|----|----------------|------------------|----------|--|-------|----------------|
| REVENUES AND OTHER FINANCING SOURCE | S | | | | | | |
| Revenues: | | | | | | | |
| Federal grants and reimbursements | \$ | | \$ | | \$ | | \$ |
| Total revenues | | | | | | | |
| Other financing sources: | | | | | | | |
| Operating transfers in | | | | | | | |
| Total other financing sources | | | | | | | |
| Total revenues and other financing sources | | | | _ | | _ | |
| EXPENDITURES AND OTHER FINANCING USE | S | | | | | | |
| Expenditures: | | | | | | | |
| Health and Human Services | | 11,666 | | 11,170 | | 496 | 31,616 |
| Total expenditures | | 11,666 | | 11,170 | | 496 | 31,616 |
| Other financing uses: | | | | | | | |
| Fringe benefit cost assessment | | | | 867 | | (867) | 968 |
| Total other financing uses | | | | 867 | | (867) | 968 |
| Total expenditures and other financing uses | | 11,666 | | 12,037 | | (371) | 32,584 |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and | Φ. | (11.660) | | (12.027) | Φ. | (271) | (22.50.1) |
| other financing uses | \$ | (11,666) | | (12,037) | \$ | (371) | (32,584) |
| Fund balance/(deficit) at beginning of year | | | | 12,037 | | | 44,621 |
| Fund balance/(deficit) at end of year | | | \$ | | | | \$ 12,037 |

Gaming Local Aid Fund

Balance Sheet - Statutory Basis

As of June 30, 2017 (Amounts in thousands)

| | 20 | 018 | 2017 |
|------------------------------------|----|----------|----------|
| ASSETS | | | |
| Cash and short-term investments | \$ | | \$ |
| Total assets | \$ | | \$ |
| LIABILITIES AND FUND BALANCE | | | |
| Liabilities: | | | |
| Accounts payable | \$ | | \$ |
| Total liabilities | | <u> </u> | |
| Fund balance: | | | |
| Unreserved fund balance: | | | |
| Undesignated | | | |
| Total fund balance | | | _ |
| Total liabilities and fund balance | \$ | | \$ |

Gaming Local Aid Fund

Statement Of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | 2018 Budget | | 2018 Actual | Variance Favorable (Unfavorable) | | 2017 Actual |
|--|----|----------------|----|----------------|--|---------|----------------|
| REVENUES AND OTHER FINANCING SOURCE | S | | | | | | |
| Revenues: | | | | | | | |
| Departmental | \$ | | \$ | | \$ | | \$ |
| Total revenues | | | | | | | |
| Other financing sources: | | | | | | | |
| Operating transfers in | | 64,400 | | 68,011 | | 3,611 | 63,970 |
| Total other financing sources | | 64,400 | | 68,011 | | 3,611 | 63,970 |
| Total revenues and other financing sources | | 64,400 | | 68,011 | | 3,611 | 63,970 |
| EXPENDITURES AND OTHER FINANCING USE | S | | | | | _ | |
| Expenditures: | | | | | | | |
| Direct local aid | | 64,344 | _ | 64,343 | | 1 | 63,970 |
| Total expenditures | | 64,344 | | 64,343 | | 1 | 63,970 |
| Other financing uses: | | | | | | | |
| Stabilization transfer | | | _ | 3,668 | | (3,668) | |
| Total other financing uses | | | | 3,668 | | (3,668) | |
| Total expenditures and other financing uses | | 64,344 | | 68,011 | | (3,667) | 63,970 |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | \$ | 56 | | | \$ | (56) | |
| Fund balance/(deficit) at beginning of year | - | | | | | | |
| Fund balance/(deficit) at end of year | | | \$ | | | | \$ |

Local Aid Stabilization Fund

Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | 20 | 018 | 2017 | | |
|------------------------------------|----|-----|------|----|--|
| ASSETS | | | | | |
| Cash and short-term investments. | \$ | 50 | \$ | 50 | |
| Total assets | \$ | 50 | \$ | 50 | |
| LIABILITIES AND FUND BALANCE | | | | | |
| Liabilities: | | | | | |
| Accounts payable | \$ | | \$ | | |
| Total liabilities | | | | | |
| Fund balance: | | | | | |
| Unreserved fund balance: | | | | | |
| Undesignated | | 50 | - | 50 | |
| Total fund balance | | 50 | | 50 | |
| Total liabilities and fund balance | \$ | 50 | \$ | 50 | |

Local Aid Stabilization Fund

Statement Of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | 2018 Budget | 2018 Actual | | Variance Favorable (Unfavorable) | | 2017 Actual |
|--|----|----------------|----------------|----|--|----|----------------|
| REVENUES AND OTHER FINANCING SOURCE | S | | | | | | |
| Revenues: | | | | | | | |
| Departmental | \$ | | \$ | \$ | | \$ | |
| Total revenues | | | | | | | |
| Other financing sources: | | | | | | | |
| Operating transfers in | | | | | | | |
| Total other financing sources | | | | | | | |
| Total revenues and other financing sources | | | | | | | |
| EXPENDITURES AND OTHER FINANCING USE | S | _ | | | | | |
| Expenditures: | | | | | | | |
| Executive Office of Education | | | | | | | |
| Total expenditures | | | | | | | |
| Other financing uses: | | | | | | | |
| Operating transfers out | | | | | | | |
| Total other financing uses | | | | | | | |
| Total expenditures and other financing uses | | _ | | | | | |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | \$ | | _ | \$ | _ | | |
| Fund balance/(deficit) at beginning of year | | | 50 | | | | 50 |
| Fund balance/(deficit) at end of year | | | \$ 50 | | | \$ | 50 |

Marijuana Regulation Fund

Balance Sheet - Statutory Basis

As of June 30, 2018 (Amounts in thousands)

| | 20 | 018 | 2017 | |
|------------------------------------|----|-----|------|--|
| ASSETS | | | | |
| Cash and short-term investments. | \$ | | \$ | |
| Total assets | \$ | | \$ | |
| LIABILITIES AND FUND BALANCE | | | | |
| Liabilities: | | | | |
| Accounts payable | | | | |
| Total liabilities | | | | |
| Fund balance: | | | | |
| Unreserved fund balance: | | | | |
| Undesignated | | | | |
| Total fund balance | | | | |
| Total liabilities and fund balance | \$ | | \$ | |

Marijuana Regulation Fund

Statement Of Revenues, Expenditures And Changes In Fund Balance - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | 2018 Budget | | 2018 Actual | Variance Favorable (Unfavorable) |) | 2017 Actual |
|--|----|----------------|----|----------------|--|----------|----------------|
| REVENUES AND OTHER FINANCING SOURCES | S | | | | | | |
| Revenues: | | | | | | | |
| Federal grants and reimbursements | \$ | | \$ | 39 | \$ 39 |) | <u>\$</u> |
| Total revenues | | | | 39 | 39 |) | |
| Total revenues and other financing sources | | _ | | 39 | 39 |) | _ |
| EXPENDITURES AND OTHER FINANCING USE | s | | | | | | |
| Expenditures: | | | | | | | |
| Cannabis Control Commission | | | | | | <u> </u> | |
| Total expenditures | | | | | | | |
| Other financing uses: | | | | | | | |
| Stabilization transfer | | | _ | 39 | (39 | <u>)</u> | |
| Total other financing uses | | | | 39 | (39 |) | |
| Total expenditures and other financing uses | | | | 39 | (39 |) | |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | \$ | | | | <u>\$</u> | | _ |
| Fund balance/(deficit) at beginning of year | | | | | | _ | |
| Fund balance/(deficit) at end of year | | | \$ | | | | <u> </u> |



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Non-Budgeted Funds

SPECIAL REVENUE FUNDS:

These funds account for the proceeds of specific revenue sources that are restricted to finance specific functions. Funds that are not subject to appropriation are considered Non-Budgeted Special Revenue Funds.

Federal Grants Fund - to account for federal grants that are designated for specific programs, excluding federal highway construction grants, which are accounted for in the Federal Highway Construction Capital Projects Fund, and federal reimbursement programs, such as Medicaid, which are accounted for in the General Fund.

LOTTERY FUNDS:

The two lottery funds account for the operations of the State and Arts Lotteries.

State Lottery and Gaming Fund - to account for revenue from the sale of lottery tickets and for the payment of prizes, expenses of the State Lottery Commission and the distribution to municipalities and school districts. Transfers are made from lottery profits to the General Fund.

Arts Lottery Fund - to account for revenues from the sale of lottery tickets, for payment of prizes and the expenses of the State Lottery Commission, and for the administration of the Arts Lottery Council. Residual fund balance transfers are made to the General Fund at the end of the fiscal year.

GAMING FUNDS:

Massachusetts Gaming Control Fund - to account for all gaming fees and assessments not recorded in other funds by legislative mandate and other monies authorized by the General Court. Expenditures are to finance the activities of the Massachusetts Gaming Commission (MGC).

Gaming Revenue Fund - to account for revenues collected from taxes on gross gaming revenue received from gaming licenses. The revenues shall be transferred to other funds in accordance with Section 59 of Chapter 23K of the MGL.

UNIVERSAL HEALTH CARE FUNDS:

The fifteen Universal Healthcare Funds account for assessments and other revenues that are dedicated to making health care and health insurance accessible and affordable to all citizens of the Commonwealth.

Catastrophic Illness in Children Relief Fund - to account for receipts from a portion of an employer's unemployment health insurance contribution and certain Federal Financial Participation (FFP). The assistance is for medical expenses of childhood catastrophic illnesses not covered by any other state and federal program and subject to certain family income limits.

Commonwealth Care Trust Fund - to collect fair share employer assessments, free rider surcharges, cigarette tax revenues, transfers from the Health Safety Net Trust Fund and any funds that may be appropriated or transferred for deposit into the trust fund for the purpose of providing health care coverage in accordance with Chapter 58 of the Acts of 2006.

Medical Assistance Trust Fund - to account for any funds directed to the Commonwealth from public entities and federal revenues related to medical assistance; to be used for medical assistance payments to entities authorized by the general court.

Health Safety Net Trust Fund - to account for reimbursing hospitals and community health centers for a portion of the cost of reimbursable health services provided to low-income, uninsured or underinsured residents of the Commonwealth. Revenues are from surcharges and assessments in health care services.

Community First Trust Fund - The secretary of health and human services may expend not more than \$16 million deposited in the fund. Funds are credited in an amount equal to the increase in revenues from federal reimbursements resulting from the increased percentage points attributable to participation in the state balancing incentive payment program. There shall be credited to the fund an amount equal to the revenues received from FFP earned on any qualifying expenditures from the fund. Expenditures from the fund may be made for services provided in prior fiscal years.

Delivery System Transformation Initiatives Trust Fund - to account for funds expended for delivery system transformation initiatives payments to qualifying providers under an approved federal waiver.

Money Follows the Person Rebalancing Demonstration Grant Trust Fund - to account for funds used for expenses that primarily benefit individuals who have disabilities or long-term illnesses or who are elders. The funds shall be used to fund home and community-based waiver programs established to support the commonwealth's rebalancing initiative. Monies equal to the amount of FFP collected from the previous quarter shall be transferred to the fund.

Healthcare Payment Reform Fund - to account for any gaming license fees transferred under Section 93 of Chapter 194 of the Acts of 2011, as amended, 5% of the acute hospital assessments and any monies credited or transferred to the fund from any other fund or source. Funds are used to improve the quality and reduce the cost of health care in the Commonwealth.

Distressed Hospital Trust Fund - to account for gifts, grants and donations, interest earnings, 60% of the acute hospital assessments, and any funds provided from other sources. Expenditures support the State's efforts to meet the health care cost growth benchmark and shall be consistent with any activities funded by the e-Health Institute, the Healthcare Payment Reform Fund, and any delivery system transformation initiative funds authorized by the federal government.

Prevention and Wellness Trust Fund - to account for any revenue from appropriations or other monies authorized by the General Court and specifically designated to be credited to the fund, any fines and penalties allocated to the fund, any gifts, grants and donations to further community-based prevention activities, any interest earnings, and any funds provided from other sources. Also, 26 2/3% of the acute hospital assessments shall be credited to this fund. Expenditures shall support the state's efforts to meet the health care cost growth benchmark and any activities funded by the Healthcare Payment Reform Fund and other health related purposes.

Massachusetts Health Information Exchange Fund - to account for expenditures to support the dissemination and development of the statewide health information exchange. There shall be credited to the fund any appropriations, proceeds of any bonds or notes of the commonwealth issued for the purpose, or other monies authorized and designated thereto; any federal grants or loans; any private gifts, grants or donations made available; and investment income.

MassHealth Delivery System Reform Trust Fund - to account for any transfers from the Health Safety Net Trust Fund, FFP revenues, appropriation or other money authorized and designated to be credited to the fund; and any interest earned. The monies will be expended for approved Medicaid payments, reimbursements for services delivered to MassHealth beneficiaries; and for enhanced service and incentive payments to acute hospitals, and other providers or care organizations.

Community Hospital Reinvestment Trust Fund - to account for income designated to the fund such as gifts, grants, donations, interest earned any other money authorized. To be used to provide financial support to eligible acute care hospitals.

Non-acute Care Hospital Reimbursement Trust Fund - to account for assessments on acute care hospitals, FFP revenues, any revenues from appropriations or other any other money authorized and specifically designated to the fund and interest income. Funds shall be expended for Medicaid payments to non-acute, nonpublic hospitals licensed by the Department of Public Health.

Substance Use Disorder Federal Reinvestment Trust Fund - to account for FFP revenues, other federal reimbursements, grants, premiums, gifts, interest income and any other funds specifically designated to the fund. Funds shall be used to implement MassHealth's substance use disorder waiver demonstration project and to enhance and expand substance use disorder services.

OTHER FUNDS:

The other special revenue funds account for a variety of miscellaneous taxes, assessments, fees, fines and other revenues, which are restricted to the financing of specific Commonwealth programs.

Dam and Seawall Repair or Removal Fund - to account for amounts credited or transferred to the fund including, federal grants; loan repayments; investment earnings in the fund; and any other amounts required to be credited to the fund by operation of law, resolution or agreement entered into by the Department of Conservation and Recreation. Funds shall be used to provide grants or loans to local governmental entities, charitable organizations and private dam owners to finance or refinance costs related to dams and flood or wave control repair or remediation projects.

Department of Telecommunication and Energy Trust Fund - to account for assessments on interstate operating revenue of electric companies and investment income. The expenditures by the Department of Telecommunications and Energy are for activities of the Department related to the regulation of electric companies.

Fingerprint-Based Background Check Trust Fund - to account for any appropriations or other monies authorized by the General Court and specifically designated to be credited thereto and any additional funds designated for deposit into the fund, including any private donations made available for deposit into the fund. Expenditures shall be for the sole purpose of carrying out state and national criminal background checks and verifications.

Liability Management and Reduction Fund - to account for chargebacks assessed to departments as premiums for the provision of insurance coverage for state agencies to cover payment of judgments, settlements and litigation costs in tort claims.

Medical Marijuana Trust Fund - to account for revenues generated from fees collected after July 1, 2013, as authorized by Section 3B of Chapter 7 of the MGL and Section 13 of Chapter 369 of the Acts of 2012. Expenditures from the fund shall be for the administrative costs of operations and programs related to said Chapter 369.

Essex Regional Emergency Communication Center Fund - The fund shall be used for the operation of the Regional Emergency Communications Center (RECC) to provide centralized emergency communication services to participating communities. There shall be credited to the fund: (i) the per capita assessment based on population on each member city or town and (ii) any other funding, including, but not limited to, appropriation, gift, grant, contribution, transfer or investment. Expenditures shall be made for the operating costs of the RECC provided, however, that funds shall not be used toward the capital budget requirements of the Essex County Regional Emergency Communications Center.

Dockside Testing Trust Fund - to account for fees collected from harvesters of molluscan shellfish on Georges Bank in the amount of \$35,000 per vessel. Expenditures shall be for the administrative costs of the operations and programs of the department related to regulating and monitoring the shellfish harvesters, including the testing of shellfish as necessary to ensure that they are safe for human consumption.

Commonwealth of Massachusetts Civil Monetary Penalty (CMP) Fund - to account for civil monetary penalties paid by nursing homes participating in the medical program for the protection of health and property of residents in a nursing home if the facility is found deficient.

MBTA State and Local Contribution Fund - to account for the transfer of dedicated sales tax revenue and MBTA service area assessments from the Commonwealth to the MBTA as set forth in Chapter 10, Section 35T of the MGL.

Massachusetts Community Preservation Trust Fund - to account for surcharges from the registry of deeds, public and private sources as gifts, grants and donations, from damages, penalties costs from litigation settlements and surcharge on municipal liens imposed by the cities and towns that accept funds from the trust, to further community open space preservation programs.

Health Insurance Portability and Accountability Act Fund - to account for revenues received from Federal reimbursements under the Social Security Act, other Federal reimbursements, grants, gifts or other contributions to meet the costs of compliance with the Federal Health Insurance Portability and Accountability Act of 1996 (HIPPA).

State Racing Fund - to account for racing-related taxes and assessments, to be used for expenditures governing simulcasting and to provide certain relief to the racing industry in the Commonwealth.

Division of Professional Licensure Trust Fund - to support programs and administrative costs of the Division of Professional Licensure. Revenues are from professional registration fees and expenditures are for regulatory purposes. Moneys deposited into the trust fund that are unexpended at the end of the fiscal year, and that total not more than 50% of the division's expenditures for the previous fiscal year, shall not revert to the General Fund.

Victims of Drunk Driving Trust Fund - to account for fines collected from individuals convicted of driving under the influence of various substances defined by the law. Expenditures are for grants to community based programs to provide counseling and support services to victims of accidents.

State Athletic Commission Fund - to account for licensing fees, other fees and fines collected up to a maximum of \$200,000 per year. All revenues in excess of \$200,000 shall be transferred to the General Fund.

Organ and Tissue Donor Registration Fund - to account for funds received from public and private donations, fees collected by the Department of Public Health, including interest revenue, for the purpose of registration of residents of the Commonwealth as organ and tissue donors. Administrative costs cannot exceed 3% per annum of the funds held in the fund in any given fiscal year.

Department of Fire Services Hazardous Materials Emergency Mitigation Response Recovery Trust Fund - to account for monies received from fees, fines and investment income up to a maximum of \$250,000 per year. All revenues in excess of \$250,000 are transferred to the General Fund. Expenditures are for emergency hazardous materials response and mitigation costs.

Registers Technological Fund - to account for funds received from deed surcharges for the benefit of abolished counties. Expenditures are for technological improvements at the registries of deeds in those counties.

County Registers Technological Fund - to account for monies received from deed surcharges for Barnstable, Bristol, Dukes, Norfolk, Plymouth and Nantucket Counties. Expenditures are for technical improvements at those counties.

State Election Campaign Fund - to account for the costs of quadrennial statewide elections provided for through contributions from citizens.

Enhanced 911 Fund - to account for expenditures by the State Police and the Executive Office of Public Safety and Security to automatically identify a telephone number used to place or route a 911 call.

Counsel for Indigent Salary Enhancement Trust Fund - to account for fees collected for private applications for criminal complaints for misdemeanors in Commonwealth courts, including investment income. Expenditures are for rate enhancements for advocates for the indigent.

Special Projects Permitting and Oversight Fund - to account for environmental permitting fees. Expenditures are for permitting, technical assistance, compliance and other activities related to environmental oversight.

Division of Energy Resources Credit Trust Fund - to account for the receipt, retention, redemption, sale or transfer of energy conservation credits, renewable energy certificates or credits, emission credits and similar allowances. The Division of Energy Resources may expend these funds for the implementation of programs for energy reliability, renewable energy, public procurement of energy and energy efficiency and climate change.

School Modernization and Reconstruction Trust Fund - to account for dedicated sales tax revenues in support of the School Building Assistance Program.

Roche Community Rink Fund - to account for the residual net revenues of the privately operated ice skating rink located in the West Roxbury section of the City of Boston.

Health Care Workforce Transformation Fund - to account for funds appropriated, gifts, grants, loan repayments and interest income. Expenditures of not more than 10% of the amount held in the fund in any one year shall be used for the combined cost of program administration, technical assistance to grantees and program evaluation. Funds of not less than 20% may be transferred to the Department of Public Health and up to 10% may be transferred to the Massachusetts Nursing and Allied Health Workforce Development Trust Fund. Funds remaining shall be expended for various healthcare related jobs programs.

Workforce Competitiveness Trust Fund - to account for funds to support the development and implementation of employer and work responsive programs to enhance worker skills, income, productivity and retention and to increase the quality and competitiveness of Massachusetts firms. The fund is administered by the Executive Office of Labor and Workforce Development.

Fire Prevention and Public Safety Fund - to account for all penalties recovered under the Cigarette Fire Safety Regulation Act to be used for fire safety and prevention programs.

Cigarette Fire Safety and Firefighter Protection Act Enforcement Fund - to account for the fire safety certification fees submitted by cigarette manufacturers. The fund is used solely to support state processing, testing, enforcement and oversight activities related to implementation of the cigarette fire safety regulation.

Massachusetts Nursing and Allied Health Workforce Development Trust Fund - to account for funds appropriated, grants, loans or private donations received to increase the number of public and private higher education faculty and students who participate in programs that support careers in fields related to nursing and allied health.

Health Information Technology Trust Fund - to account for federal reimbursements received under the Health Information Technology for Economic and Clinical Health Act and other revenues received from or in support of the health care provider incentive payment program. Expenditures are for incentive payments to eligible Massachusetts Medicaid health care providers and for the promotion of electronic health record adoption and health information exchange in the Commonwealth. This fund may incur a deficit in an amount not to exceed the most recent revenue estimate as certified by the MassHealth Director.

Build America Bonds Subsidy Trust Fund - to account for subsidies from the United States Treasury related to debt service payable on Build America bonds issued by the Commonwealth. Expenditures are used to pay debt service related to these bonds.

Housing Preservation and Stabilization Fund - to account for funds appropriated or transferred to the trust fund by the general court; and all interest earned on monies in the trust fund. Expenditures shall be made for providing affordable housing for low-income families and individuals in the commonwealth, particularly those most at risk of becoming homeless.

Office of Refugees and Immigrants Trust Fund - to account for grants, bequests, gifts or contributions of cash or securities and contributions of services or property in kind made for the purpose of supporting the office for refugees and immigrants. Expenditures shall be made only for operating costs of the office for refugees and immigrants and costs associated with refugee and immigrant-related programs, grants and initiatives of the director.

Veterans Independence Plus Initiative Trust Fund - to account for revenues collected by the department from this initiative. Expenditures from the fund shall be for the administration of the Veterans Independence Plus Initiative. The secretary may expend from the fund for services provided in prior fiscal years.

Massachusetts Environmental Police Trust Fund - to account for certain administrative surcharges, a 10% maintenance fee charged on private details, any bond proceeds or funds appropriated, interest or investment earnings, and all other amounts credited or transferred to the fund from any other fund or source. Funds may be expended on programs and costs related to the division of law enforcement. No expenditure made from the fund shall cause the fund to become deficient at any point.

Domestic and Sexual Violence Prevention and Victim Assistance Fund - to support innovative practices to prevent domestic and sexual violence and provide assistance to victims of domestic violence in the commonwealth. The fund shall be credited any appropriations, bond proceeds or other monies authorized by the general court, and any other monies which may be available for the purposes of the fund from any other source or sources.

Massachusetts Seafood Marketing Program Fund - to account for a portion of the monies from the sale of commercial harvester and dealer permits issued not to exceed \$250,000 per fiscal year; any appropriations, grants, gifts or other monies authorized by the general court or other parties and specifically designated to be credited to the fund; and any investment income. All amounts credited to the fund shall be for the purpose of developing and administering the seafood marketing program. The fund shall be exempt from the indirect and fringe benefits that would otherwise be assessed.

Government Land Bank Fund - to account for proceeds from disposition, conversion and redevelopment of land used for industrial and low income housing developments to fund payments of principal and interest on bonds and notes of the Massachusetts Development Finance Agency.

Natural Heritage and Endangered Species Fund - to account for revenues from public and private sources and/or the federal government as reimbursements, grants, donations or other receipts and investment income; used to acquire by purchase, lease, easement or license land critical to nongame wildlife and endangered species for purposes of protecting and enhancing nongame wildlife.

Massachusetts Mathematics, Science, Technology and Engineering Grant Fund (STEM Pipeline Fund) - to account for support provided to Massachusetts students who participate in programs that support careers in fields related to mathematics, science, technology and engineering. The grants also support curriculum development in those fields.

Massachusetts Alternative and Clean Energy Investment Trust Fund - to account for any funds invested in clean energy technology research and issued as seed grants to companies, universities and nonprofits to encourage the creation of clean technology ventures and the training of workers to perform associated green jobs.

Regional Greenhouse Gas Initiatives (RGGI) Auction Trust Fund - to account for auction proceeds under the carbon dioxide cap and trade program. Expenditures from the fund shall be made by the Department of Environmental Protection in consultation with the Department of Energy Resources to adopt rules and regulations establishing a carbon dioxide cap to limit and reduce the total carbon dioxide emissions released by electricity-generating stations. The fund shall be exempt from the indirect and fringe benefits that would otherwise be assessed.

Mosquito and Greenhead Fly Control Fund - to account for assessments to cities and towns of various mosquito control districts; to support activities designed to control mosquitoes and/or "greenhead" flies.

Ocean Resources and Waterways Trust Fund - to account for funds appropriated, investment income, grants or ocean development mitigation fees received; for use in restoring or enhancing marine habitat and resources affected by project developments.

Off Highway Vehicle Program Fund - to account for fees, fines and investment income collected for use in enforcement and environmental development, repair and restorations of trails and facilities.

Workforce Training Trust Fund - to account for revenues from the 0.075% unemployment surcharge on taxable wages on employers; to provide grants to employers, employer groups, labor organizations and training providers for projects to provide education and training to existing employees and newly hired workers.

Oil Overcharge Fund - to account for the fines and penalties collected under federal litigation from certain oil companies; used to provide fuel assistance and home insulation for low-income residents.

Substance Abuse Services Fund - to account for funds used to expand inpatient treatment facilities and ongoing case management for individuals civilly committed under Section 35 of Chapter 123 of the MGL.

Victims of Human Trafficking Trust Fund - to account for the proceeds of assets seized and forfeited and fines and assessments collected along with any interest earned. Funds shall be transferred to the Victim and Witness Assistance Board to administer grants to public, private non-profit or community-based programs in the Commonwealth.

Department of Public Utilities Storm Trust Fund - to account for assessments charged against each electric company under the jurisdictional control of the Department of Public Utilities and any investment income credited to the fund. Funds shall be used in investigating the preparation for and response to storm and other emergency events by electric companies in the Commonwealth.

Homeless Animal Prevention and Care Fund - to offset costs associated with the vaccination, spaying and neutering of homeless dogs and cats owned by low-income residents and to assist with the training of animal control officers. The fund shall consist of all revenues received by the Commonwealth pursuant to the voluntary check-off donation indicated on the Department of Revenue's annual income tax return, gifts, grants, donations and investment income to further reduce the population of homeless animals.

Horseneck Beach Reservation Trust Fund - to account for the long-term preservation, maintenance, nourishment and public safety of Horseneck Beach in the Town of Westport. Revenues credited to the fund shall consist of a surcharge of \$1 imposed by the Department of Conservation and Recreation upon each fee charged and collected from admission to and parking in the Horseneck Beach Reservation. Expenditures from the fund for public safety may be made available to the Town of Westport's police, fire, ambulance and emergency personnel.

Environmental Trust Fund - to account for fines, gifts, grants and investment income used for restoration, protection and improvement of the quality of Boston Harbor, Lynn Harbor, Massachusetts Bay, Buzzards Bay and Cape Cod Bay.

Social Innovation Financing Trust Fund - to account for funding contracts to improve outcomes and lower costs for contracted government services. The Secretary of Administration and Finance may provide that payments in future years under any such contracts shall constitute a general obligation of the Commonwealth for which the full faith and credit of the Commonwealth shall be pledged for the benefit of the providers of the contracted government services, but the total amount of payments under such contracts secured by a pledge of the full faith and credit of the Commonwealth shall not exceed, in the aggregate, \$50 million.

Children's Trust Fund - to account for gifts, grants, interest and donations to the Child Abuse Prevention Board and certain appropriations designated to be transferred to the fund; used for support programs to raise awareness of child abuse and prevention programs.

Child Support Enforcement Fund - to account for child support payments, fees and penalties collected by the Child Support Division, federal monies and any related interest earnings. Expenditures are for child-support related activities.

Massachusetts Military Family Relief Fund - to account for revenues received by the Commonwealth pursuant to the voluntary check-off donation indicated on the Department of Revenue's annual income tax return, gifts, grants, donations and investment income to further the purposes of the fund, which is to help members of the Massachusetts National Guard and Massachusetts residents who are members of the Armed Forces of the United States and who were called to active duty after September 11, 2001.

Department of Industrial Accidents Special Fund - to account for assessments to employers and cities and towns for workers' compensation insurance premiums and penalties assessed against employers who fail to insure for workers' compensation; used to reimburse the General Fund for the operating account of the Department of Industrial Accidents and for administrative overhead.

Logan Airport Health Study Trust Fund - to account for monies allocated by the Massachusetts Port Authority or any other public or private entity to the department of public health to conduct public health activities associated with the Logan Airport Health Study. Funds shall be expended for administration and project management activities and for direct support to community health centers within the study area.

Massachusetts State Public Health HIV and Hepatitis Fund - to account for revenues received by the Commonwealth pursuant to the voluntary check-off donation indicated on the Department of Revenue's annual income tax return, from public and private sources as gifts, grants, and donations; used for research, treatment, and education related to acquired immune deficiency syndrome.

Head Injury Treatment Services Trust Fund - to account for revenues from a surcharge on fines resulting from "driving under the influence" convictions and investment income; funds the Massachusetts Rehabilitation Commission's statewide head injury program to develop and maintain non-residential rehabilitation services for head injured persons.

Board of Registration in Medicine Trust Fund - to account for licensing fees of medical professionals. Expenditures are for the administration and operation of the Board.

Water Pollution Abatement Projects Administration Fund - to account for transfers from the Massachusetts Clean Water Trust and general obligation bond proceeds; used for the administration of the Department of Environmental Protection to fund water pollution abatement projects.

Child Care Quality Fund - to account for revenues received from the sale of "Invest in Children" distinctive registration plates issued by the Registrar of Motor Vehicles and the expenditures by the commissioner of the Office for Children for providing grants for not-for-profit childcare organizations for the purpose of improving childcare services.

Convention and Exhibition Center Fund - to account for certain rooms and sales and use taxes, surcharges imposed on tourist tickets, including cruises and land-based sightseeing located in the Commonwealth, to finance the construction and operating expenses of a new Boston Convention Center and convention centers in Worcester and Springfield.

Firearms Fingerprint Identity Verification Trust Fund - to account for fees paid in firearms registrations for the purpose of financing fingerprint identification verifications with the fingerprint records maintained by the Federal Bureau of Investigations or any other federal agency for the verification of firearms license application identities.

Grant Anticipation Note Trust Fund - to account for proceeds to cover federal grant anticipation note expenditures and pay the related debt service.

Race Horse Development Fund - to account for the daily assessment of 9% of gross gaming revenues collected by slot machine-only venues, in accordance with Section 55c of Chapter 23K of the MGL. Expenditures from this fund shall be made to each licensee under Chapter 128A of the MGL.

Community Mitigation Fund - to account for gaming tax revenue transferred under Section 59 of Chapter 23K of the MGL and all other monies credited or transferred to the fund from any other fund or source. Funds shall be expended to assist the host community and surrounding communities in offsetting costs related to the construction and operation of a gaming establishment.

Capital Needs Investment Fund - to account for funds appropriated. The funds shall be for the restoration costs of the Mayflower II and the construction of a public safety building in the Town of Barre. The fund shall expire on December 31, 2020 at which time the fund shall be repealed and any unexpended balance and interest shall be transferred to the General Fund.

Massachusetts Tourism Trust Fund - to account for the \$10,000,000 collected from the room occupancy excise and revenues under the Gaming Revenue Fund designated by legislation. Spending from the fund will be as follows; 40% to the Massachusetts marketing partnership and 60% to regional tourism councils to promote tourism and for related administrative costs.

Long-Term Facility Quality Improvement Fund - to account for income from legislatively mandated fines and penalties imposed by the department of public health on long-term care facilities, revenues from appropriations, monies authorized by the general court, other designated monies from public or private sources: gifts, grants, donations rebates and settlements. Spending will be used to improve safety and enhance the quality of care provided in long-term care facilities.

Sexual Assault Nurse Examiner Trust Fund - to account for money received from public or private sources such as gifts, grants, donations, bequests, cash, securities and property contributions from any source. Spending will be used to support the sexual assault nurse examiner program costs and provide services for sexual assault patients.

Transportation Infrastructure Enhancement Trust Fund - to account for assessments received based on the number of annual rides given in a fiscal year by each transportation network company within the commonwealth; ½ of the funds are proportionately distributed to cities and towns, ¼ of the funds are distributed to the Massachusetts Development Finance Agency on behalf of small businesses operating in taxicab, livery, or hackney industries, and the final ¼ is distributed to the Commonwealth Transportation Fund.

Nickerson State Park Trust Fund - to account for a \$5 surcharge on admission for out-of-state campers in Nickerson State Park. Expenditures shall be made for the long-term preservation and maintenance of the Nickerson State Park.

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MassDOT) FUNDS:

Massachusetts Transportation Trust Fund - to account for assessments, federal grants, departmental revenues, transfers and expenditures related to MassDOT.

Central Artery/Tunnel Project Repair and Maintenance Trust Fund - to account for any costs incurred in connection with the repairs and maintenance of the Central Artery and the Ted Williams Tunnel.

Motor Vehicle Safety Inspection Trust Fund - to account for motor vehicle inspection fees for administration and operation of safety inspection programs by the Registry of Motor Vehicles.

Transportation Infrastructure and Development Fund - to account for monies transferred from the Gaming Revenue Fund and all other monies credited or transferred to the fund from any other fund or source and proceeds from the investment of such funds. Any expenditures from this fund shall be solely for the purpose of transportation and related infrastructure projects.

The following funds have been enacted in legislation but were inactive in FY18 and are not presented in this report:

Regional Transit Authorities Forward Funding Trust Fund - to account for revenues allocated to support capital or other eligible activities for regional transit authorities.

Health Care Security Trust Fund - to account for revenues received from tobacco companies under the tobacco settlement and interest income for health-related services and programs intended to control or reduce the use of tobacco in the Commonwealth. Per statute, tobacco revenues were deposited directly into the General Fund, not into this fund.

MBTA Infrastructure Renovation Fund - to account for supplemental appropriations beyond the MBTA State and Local Contribution Fund for certain MBTA infrastructure improvements. Funds are to be used for, but not limited to, compliance with the American with Disabilities Act, elevator and escalator improvements, waterproofing, fare gates, signage, lighting and structural improvements. No rolling stock is to be acquired through the fund.

Smart Growth Housing Trust Fund - to account for revenues from state surplus property sold for between \$25 million to \$50 million, or appropriations from the General Fund and monetary sanctions imposed by the department. Expenditures are for payments to communities under the Smart Growth and Housing Production program.

Natural Resources Damages Trust Fund - to account for gifts, grants and other contributions received to fund natural resources restoration projects.

Essential Community Provider Trust Fund - to account for amounts appropriated for transfers and interest earned by the fund; used for payments to acute care hospitals and community health centers, as defined in Chapter 58 of the Acts of 2006, Section 8.

Department of Mental Retardation Trust Fund - to account for any receipts from assessments, transfers by the Department of Mental Retardation for public facilities and any other FFP. Expenditures are for operating the intermediate care facilities and community residences serving individuals with mental retardation.

Workforce Competitiveness Trust Fund - to account for funds to support the development and implementation of employer and work responsive programs to enhance worker skills, income, productivity and retention and to increase the quality and competitiveness of Massachusetts firms. The fund is administered by the Executive Office of Labor and Workforce Development.

Agricultural Inspection and Infrastructure Trust Fund - to account for agricultural inspection fee revenues, interest or investment earnings on such monies; and all other monies credited or transferred to the fund by law. Expenditures from the fund shall be for agricultural programs and costs related to the Agricultural Innovation Center. Any unexpended balance in the fund at the end of the fiscal year, not to exceed \$200,000, shall not revert to the General Fund but shall remain available for expenditure in subsequent fiscal years.

Massachusetts Board of Higher Education Scholar-Internship Match Fund - to provide a match for industry scholarships given to Massachusetts students going on to study for a post-secondary degree at Massachusetts public

higher education institutions. The amount to be matched through the Scholar-Internship Match Fund shall not exceed \$5,000 per student, contingent upon receiving a corresponding industry scholarship or internship of up to the same amount.

District Local Technical Assistance Fund - to account for grants to regional planning agencies for technical assistance to municipalities and to develop a statewide permitting model. Technical assistance services funded by these grants shall include services for zoning, land use planning, conservation, public safety planning, information technology and statistical trend modeling. Expenditures from this fund may not exceed \$2.8 million in any fiscal year.

Educational Rewards Grant Program Fund - to account for grants to students in accredited post-secondary certificate or vocational technology programs or associate degrees in targeted high-demand occupations.

Housing and Economic Development Trust Fund - to account for (i) grants, bequests, gifts or contributions of cash or securities, or contributions of services or property in kind from any persons or other governmental, nongovernmental, quasi-governmental or local governmental entities and (ii) all interest earned on monies in the trust. Expenditures shall be made only for the following purposes: (i) operating costs of the executive office of housing and community development, including the divisions and programs within the executive office; (ii) operating costs of the Massachusetts marketing partnership and the offices within the partnership, and (iii) costs associated with housing and economic development programs, grants and initiatives of the secretary.

Climate Change Adaptation Infrastructure Investment Fund - to account for amounts credited or transferred to the fund by the general court or any other source including, without limitation, federal grants, loan repayments, investment earnings on monies in the fund and any other amounts required to be credited to the fund. Amounts credited to the fund may be used for the costs associated with the operations of the division of waterways and the office of dam safety, the department of environmental protection, the department of fish and game and the office of coastal zone management for the costs associated with operations. The fund shall be used to provide grants or loans to agencies of the Commonwealth and local governmental bodies to finance or refinance costs of inspection, repair and removal projects.

Human Service Salary Reserve Fund - to account for funds transferred from the General Fund to provide a one-time subsidy to personnel earning less than \$40,000 in annual compensation who are employed by private human service providers that deliver human and social services under contracts with departments within the Executive Office of Health and Human Services and the Executive Office of Elder Affairs.

County Correction Fund - to account for approximately 7.5% of the deeds excise tax distributed to counties for the operation of county correctional facilities. With consolidation of counties into the Commonwealth in FY10, this fund became inactive in FY11.

Commonwealth Sewer Rate Relief Fund - to account for transfers of amounts from the General Fund or other funds; used for the purpose of mitigating sewer rate increases and making sewer rate relief grants to municipalities.

Public Health Trust Fund - to account for the collection of fees on slot machines assessed under Section 56 of Chapter 23K of the MGL and all other monies credited or transferred to the fund from any other source under law. Funds shall be expended to assist social service and public health programs dedicated to addressing problems associated with compulsive gambling.

Gaming Licensing Fund - to account for the collection of all gaming establishment licensing fees established under Chapter 23K of the MGL and excluding initial application fees. Monies from this fund shall be transferred to various funds in accordance with Section 93 of Chapter 194 of the Acts of 2011. This fund expired on December 31, 2015.

Securities Fraud Prosecution Fund - to account for criminal penalties, fines and settlements collected under chapter 110A and any income from the investment of amounts credited to the fund. Expenditures from this fund are for investigations and enforcement of and dissemination of information about the requirements of Chapter 110A. The Fund shall not exceed a maximum of \$500,000. Amounts collected in excess of the maximum shall be deposited in the General Fund.

Flood Control Compact Fund - to account for any funds authorized and specifically designated to the fund by the general court plus any interest or investment earnings on any such monies. Expenditures shall be made for costs arising under any compact authorized by the general court. No expenditure from the fund shall cause it to become deficient at any point.

Public Records Assistance Fund - to account for revenues collected from punitive damages fines assessed to agencies or municipalities in violation of certain public record laws and other monies designated to be credited to the fund such as appropriations, bond proceeds, gifts, grants, private contributions, operating transfers and earned investment income. To be used to provide grants to municipalities to support information technology capabilities and improve access to public records Money that is unexpended at the end of each fiscal year shall not revert to the General Fund and shall be available for expenditure by the fund in the subsequent fiscal year.

Olmsted Park Improvement Fund - to account for expenditures by the Department of Conservation & Recreation for activities of the Department related for the purposes of providing rehabilitation and improvement grants to cities and towns with an Olmsted Park within its municipal boundaries. The fund shall consist of public and private sources such as gifts, grants and donations, interest earned on revenues from gifts, grants and donations and any funds provided from other sources.

Combining Statement of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | Lotte | eries | Gar | ning | Universal Health Care Funds | | |
|--|-------------------|-----------------------------|--------------|-------------------|-------------------|--|----------------------------|--|
| REVENUES AND OTHER FINANCING SOURCES | Federal Grants | State Lottery and Gaming | Arts Lottery | Gaming Control | Gaming Revenue | Catastrophic Illness in Children Relief | Commonwealth Care Trust | |
| Revenues: | | | | | | | | |
| Taxes | . \$ — | \$ 487 | s — | \$ — | \$ 68,010 | \$ — | \$ 139,020 | |
| Assessments | | _ | _ | _ | | _ | _ | |
| Federal grants and reimbursements | | _ | _ | _ | _ | _ | _ | |
| Departmental | | 5,392,897 | 43,383 | 27,863 | _ | _ | 226,406 | |
| Miscellaneous | | 4,969 | 139 | | _ | _ | ´ — | |
| Total revenues | | 5,398,353 | 43,522 | 27,863 | 68,010 | | 365,426 | |
| Other financing sources: | | | | | | | | |
| Operating transfers in | . — | _ | _ | _ | _ | 3,075 | _ | |
| Medical assistance transfer | | _ | _ | _ | _ | | _ | |
| Total other financing sources | | | | | | 3,075 | | |
| Total revenues and other financing sources | | 5,398,353 | 43,522 | 27,863 | 68,010 | 3,075 | 365,426 | |
| EXPENDITURES AND OTHER FINANCING USES | | | | | | | | |
| Expenditures: | | | | | | | | |
| Judiciary | . 1,764 | _ | _ | _ | _ | _ | _ | |
| Inspector General | , | _ | _ | _ | _ | _ | _ | |
| Governor and Lieutenant Governor | | _ | _ | _ | _ | _ | _ | |
| Secretary of the Commonwealth | | _ | _ | _ | _ | _ | _ | |
| Treasurer and Receiver-General | | 4,310,129 | 34,347 | 195 | _ | _ | _ | |
| Attorney General | | | _ | 1,562 | _ | _ | _ | |
| District Attorney | | _ | _ | | _ | _ | _ | |
| Sheriffs' Departments | | _ | _ | 12 | _ | _ | _ | |
| Disabled Persons Protection Commission | . 571 | _ | _ | _ | _ | _ | _ | |
| Board of Library Commissioners | . 2,791 | _ | _ | _ | _ | _ | _ | |
| Massachusetts Gaming Commission | . '— | _ | _ | 22,087 | _ | _ | _ | |
| Comptroller | . — | _ | _ | _ | _ | _ | _ | |
| Administration and Finance | . 6,091 | _ | _ | _ | _ | _ | 307,277 | |
| Energy and Environmental Affairs | . 39,055 | _ | _ | _ | _ | _ | _ | |
| Health and Human Services | . 436,302 | _ | _ | 1,008 | _ | 2,107 | _ | |
| Executive Office of Technology Services and Security | . – | _ | _ | _ | _ | _ | _ | |
| Massachusetts Department of Transportation | . 379 | _ | _ | _ | _ | _ | _ | |
| Executive Office of Education | . 1,008,084 | _ | _ | _ | _ | _ | _ | |
| Center for Health Information and Analysis | . 5 | _ | _ | _ | _ | _ | _ | |
| Public Safety and Security | . 116,827 | _ | _ | 17 | _ | _ | _ | |
| Housing and Economic Development | . 519,408 | _ | _ | _ | _ | _ | _ | |
| Labor and Workforce Development | . 124,467 | _ | _ | _ | _ | _ | 93 | |
| Debt service: | | | | | | | | |
| Principal retirement | . — | _ | _ | _ | _ | _ | _ | |
| Interest and fiscal charges | | | | | | | | |
| Total expenditures | 2,311,090 | 4,310,129 | 34,347 | 24,881 | | 2,107 | 307,370 | |
| Other financing uses: | | | | | | | | |
| Fringe benefit cost assessment | . 68,364 | 11,155 | _ | 2,585 | _ | 161 | 31 | |
| Lottery operating reimbursements | . – | 103,136 | _ | _ | _ | _ | _ | |
| Lottery distributions | . – | 973,933 | 9,175 | _ | _ | _ | _ | |
| Operating transfers out | . 40,923 | | | 2,132 | 68,010 | 61 | 9,078 | |
| Total other financing uses | . 109,287 | 1,088,224 | 9,175 | 4,717 | 68,010 | 222 | 9,109 | |
| Total expenditures and other financing uses | 2,420,377 | 5,398,353 | 43,522 | 29,598 | 68,010 | 2,329 | 316,479 | |
| Europa ((definion or)) of review ded Europa | | | | | | | | |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | . 8,506 | _ | _ | (1,735) | _ | 746 | 48,947 | |
| () 1 | | | | | | | • | |
| Fund balances/(deficits) at beginning of year | | | | 5,374 | | 4,574 | 34,498 | |
| Fund balances/(deficits) at end of year | . \$ (38,763) | <u>\$</u> | <u> </u> | \$ 3,639 | <u> </u> | \$ 5,320 | \$ 83,445 | |

| | | | | | Universal Health | Care Funds | | | | |
|------|-------------------------|----------------------------|--------------------------|--|--|---------------------------------|---|----------------------------------|---|---|
| Assi | Medical stance Trust | Health Safety Net Trust | Community First Trust | Delivery System Transformation Initiatives Trust | Money Follows the Person Rebalancing Demonstration Grant Trust | Healthcare Payment Reform | Distressed Hospital Trust | Prevention and Wellness Trust | Health Information Exchange | MassHealth Delivery System Reform Trust |
| \$ | | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — | \$ - |
| Ф | _ | 316,498 | , — — | • — — — — — — — — — — — — — — — — — — — | • — — | 3 | • — — — — — — — — — — — — — — — — — — — | \$ <u> </u> | • — — — — — — — — — — — — — — — — — — — | 257,50 306,72 |
| | 214,341 | 994 2,429 | _ | 24,670 | _ | 76 — | | 25 | 619 | - |
| | 214,341 | 319,921 | | 24,670 | | 79 | 2 | 25 | 619 | 564,22 |
| | _ | _ | _ | 186,649 | 1,653 | _ | _ | _ | _ | - |
| | 579,944 579,944 | | | 186,649 | 1,653 | | | | | |
| | 794,285 | 319,921 | | 211,319 | 1,653 | 79 | 2 | 25 | 619 | 564,22 |
| | | | | | | | | | | |
| | _ | | _ | _ | _ | _ | _ | _ | _ | - |
| | _ | 387 | _ | _ | _ | _ | _ | _ | _ | - |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | = |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | - |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | = |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | - |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | - |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | - |
| | _ | _ | _ | _ | _ | 4,292 | 15,576 | _ | _ | - |
| | | | _ | | | _ | | _ | | 502.2 |
| | 794,285 — | 343,693 | 1,668 | 211,319 | 8,801 | _ | 509 | 7,567 | 271 — | 593,2 |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | - |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | = |
| | _ | _ _ | _ _ | _ _ | _ _ | _ _ | _ _ | _ _ | _ _ | 1,70 |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | = |
| | 794,285 | 344,080 | 1,668 | 211,319 | 8,801 | 4,292 | 16,085 | 7,567 | 271 | 594,9 |
| | _ | 736 | 265 | _ | _ | _ | 277 | 154 | _ | 34 |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | = |
| | | 38 | | | | 21 | 144_ | 59_ | 1 | |
| | | 774 | 265 | | | 21 | 421 | 213 | 1 | 34 |
| | 794,285 | 344,854 | 1,933 | 211,319 | 8,801 | 4,313 | 16,506 | 7,780 | 272 | 595,32 |
| | _ | (24,933) | (1,933) | _ | (7,148) | (4,234) | (16,504) | (7,755) | 347 | (31,10 |
| Φ. | | 102,833 | 3,261 | | 18,537 | 14,310 | 33,537 | 9,767 | 15 | 57,16 |
| \$ | | \$ 77,900 | \$ 1,328 | <u>\$</u> | \$ 11,389 | \$ 10,076 | \$ 17,033 | \$ 2,012 | \$ 362 | \$ 26,05 |

continued

Combining Statement of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | Uni | versal Health Care F | unds | Non-Budgeted Other Funds | | | | |
|---|--|--|---|--|--|--|---|--|
| | Community Hospital Reinvestment Trust | Non-acute Care Hospital Reimbursement Trust | Substance Use Disorder Federal Reinvestment Trust | Dam and Seawall Repair or Removal | Department of Telecommunication and Energy Trust | Fingerprint- Based Background Check Trust | Liability Management and Reduction | |
| REVENUES AND OTHER FINANCING SOURCES | | | | | | | | |
| Revenues: | | | | | | | | |
| Taxes | | \$ | \$ — | \$ — | \$ | \$ — | \$ — | |
| Assessments | | 9,153 | | _ | 4,840 | _ | _ | |
| Federal grants and reimbursements | | 8,883 | 6,083 | | _ | | | |
| Departmental | | _ | _ | 835 | _ | 4,022 | 2,234 | |
| Miscellaneous | | 10.026 | | 86 | 6 | 4.022 | 20 | |
| Total revenues | | 18,036 | 6,083 | 921 | 4,846 | 4,022 | 2,254 | |
| Other financing sources: | | | | | | | | |
| Operating transfers in | 10,000 | _ | _ | _ | _ | _ | _ | |
| Medical assistance transfer | | | | | | | | |
| Total other financing sources | 10,000 | _ | | | | | _ | |
| Total revenues and other financing sources | 10,000 | 18,036 | 6,083 | 921 | 4,846 | 4,022 | 2,254 | |
| EXPENDITURES AND OTHER FINANCING USES | | | | | | | | |
| Expenditures: | | | | | | | | |
| Judiciary | _ | _ | _ | _ | _ | | _ | |
| Inspector General | | _ | _ | _ | _ | | _ | |
| Governor and Lieutenant Governor | | _ | _ | _ | _ | | _ | |
| Secretary of the Commonwealth | | _ | _ | _ | _ | | _ | |
| Treasurer and Receiver-General | | _ | _ | _ | _ | | _ | |
| Attorney General | | _ | _ | _ | _ | | 69 | |
| District Attorney | | _ | _ | _ | _ | _ | _ | |
| Sheriffs' Departments | | _ | _ | _ | _ | | _ | |
| Disabled Persons Protection Commission | _ | _ | _ | _ | _ | _ | _ | |
| Board of Library Commissioners | _ | _ | _ | _ | _ | _ | _ | |
| Massachusetts Gaming Commission | | _ | _ | _ | _ | _ | _ | |
| Comptroller | _ | _ | _ | _ | _ | _ | 2,128 | |
| Administration and Finance | _ | _ | _ | _ | _ | _ | _ | |
| Energy and Environmental Affairs | _ | _ | _ | 1,000 | 3,285 | _ | _ | |
| Health and Human Services | 9,662 | 17,609 | 3,156 | _ | _ | _ | _ | |
| Executive Office of Technology Services and Security | _ | _ | _ | _ | _ | _ | _ | |
| Massachusetts Department of Transportation | _ | _ | _ | _ | _ | _ | _ | |
| Executive Office of Education | _ | _ | _ | _ | _ | _ | _ | |
| Center for Health Information and Analysis | _ | _ | _ | _ | _ | _ | _ | |
| Public Safety and Security | _ | _ | _ | _ | _ | 3,295 | _ | |
| Housing and Economic Development | _ | _ | _ | _ | _ | _ | _ | |
| Labor and Workforce Development | _ | _ | _ | _ | _ | _ | _ | |
| Debt service: | | | | | | | | |
| Principal retirement | _ | _ | _ | _ | _ | _ | _ | |
| Interest and fiscal charges | | | | | | | | |
| Total expenditures | 9,662 | 17,609 | 3,156 | 1,000 | 3,285 | 3,295 | 2,197 | |
| Other financing uses: | | | | | | | | |
| Fringe benefit cost assessment | | _ | _ | _ | 1,026 | 285 | 30 | |
| Lottery operating reimbursements | | _ | _ | _ | _ | _ | _ | |
| Lottery distributions | | _ | _ | _ | _ | _ | _ | |
| Operating transfers out | | | | | 85 | 177 | | |
| Total other financing uses | | | | | 1,111 | 462 | 30 | |
| Total expenditures and other financing uses | 9,662 | 17,609 | 3,156 | 1,000 | 4,396 | 3,757 | 2,227 | |
| Excess/(deficiency) of revenues and other financing sources | | | | | | | | |
| over/(under) expenditures and other financing uses | 338 | 427 | 2,927 | (79) | 450 | 265 | 27 | |
| Fund balances/(deficits) at beginning of year | | , | -,, | 5,675 | 3,094 | 4,920 | 1,841 | |
| | | <u> </u> | <u> </u> | | | | | |
| Fund balances/(deficits) at end of year | \$ 835 | \$ 427 | \$ 2,927 | \$ 5,596 | \$ 3,544 | \$ 5,185 | \$ 1,868 | |

| | | | | Non-Budgeted | Other Funds | | | | |
|--------------------|--|---------------------------|---------------------------------|---|------------------------------------|---|-----------------|---|--------------------------------------|
| dical ana Trust | Essex Regional Emergency Communication Center | Dockside Testing Trust | Civil Monetary Penalty (CMP) | MBTA State and Local Contribution | Community Preservation Trust | Health Insurance Portability and Accountability Act | State Racing | Division of Professional Licensure Trust | Victims of Drunk Driving Trust |
| \$ _ | \$ — | \$ — | \$ — | \$ 1,007,945 | \$ 23,794 | \$ — | \$ 887 | \$ — | s — |
| 12 010 | 889 — | 175 | 2,334 | 166,408 | _ _ | 15,422 | 814 — 566 | 10,932 | 343 |
| 12,818 | | | | | 127 | | 581 | | 5 |
| 12,818 | 889 | 175 | 2,334 | 1,174,353 | 23,921 | 15,422 | 2,848 | 10,932 | 348 |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 12,818 | | | 2,334 | 1,174,353 | 23,921 | | 2,848 | 10,932 | 348 |
| 12,616 | 889 | 1/3 | 2,334 | 1,1/4,333 | 23,921 | 13,422 | 2,040 | 10,932 | 348 |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | 1,174,353 | _ | | _ | _ | _ |
| _ | _ | _ | _ | | _ | _ | _ | _ | 486 |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | 194 |
| _ | 954 | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | - | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | | 2,514 | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | | _ | _ |
| _ | _ | _ | _ | _ | 24,135 | _ | _ | _ | _ |
| 5 240 | _ | | | _ | _ | 12.474 | | _ | _ |
| 5,249 | _ | 89 | 990 | _ | _ | 13,474 | 70 | _ | |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 7 | _ | <u> </u> | _ | _ | _ | _ | _ | 8,807 | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | | _ |
| | | | | | | | | | |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 5.256 | 954 | | 990 | 1 174 252 | 24.125 | 12.474 | 2.504 | | |
| 5,256 | 954 | 89 | 990 | 1,174,353 | 24,135 | 13,474 | 2,584 | 8,807 | 680 |
| 701 | 164 | 25 | 5 | _ _ | 31 | 288 | 217 | 1,760 | 50 |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 270 | 50 | 10 | 2 | | 12 | 70 | 179 | 529 | 20 |
| 971 | 214 | 35 | 7 | 1 174 252 | 24.179 | 358 | 396 | 2,289 | 70 |
| 6,227 | 1,168 | 124 | 997 | 1,174,353 | 24,178 | 13,832 | 2,980 | 11,096 | 750 |
| 6,591 | (279) | 51 | 1,337 | _ | (257) | 1,590 | (132) | (164) | (402) |
| 11,231 | 337 | 385 | 5,985 | <u> </u> | 21,538 | 7,621 | 1,688 | 5,018 | 1,031 |
| \$ 17,822 | \$ 58 | \$ 436 | \$ 7,322 | \$ | \$ 21,281 | \$ 9,211 | \$ 1,556 | \$ 4,854 | \$ 629 |

continued

Combining Statement of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | Non-Budgeted Other Funds | | | | | | | | | |
|---|------------------------------|---|--|-------------------------|--------------------------------------|-------------------------------|-----------------|--|--|--|
| | State Athletic Commission | Organ and Tissue Donor Registration | Department of Fire Services Hazardous Material Emergency Mitigation | Registers Technological | County Registers Technological | State Election Campaign | Enhanced 911 | | | |
| REVENUES AND OTHER FINANCING SOURCES | | | Response | | | | | | | |
| Revenues: | | | | | | | | | | |
| Taxes | . \$ 208 | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — | | | |
| Assessments | . – | _ | _ | _ | _ | _ | _ | | | |
| Federal grants and reimbursements | . — | _ | _ | _ | _ | _ | _ | | | |
| Departmental | . 18 | 256 | 195 | 4,552 | 2,455 | _ | 102,366 | | | |
| Miscellaneous | . <u> </u> | | | | | 273 | 344 | | | |
| Total revenues | . 226 | 256 | 195 | 4,552 | 2,455 | 273 | 102,710 | | | |
| Other financing sources: | | | | | | | | | | |
| Operating transfers in | . – | _ | _ | _ | _ | _ | _ | | | |
| Medical assistance transfer | | _ | _ | _ | _ | _ | _ | | | |
| Total other financing sources | . — — | | | | | | | | | |
| Total revenues and other financing sources | | 256 | 195 | 4,552 | 2,455 | 273 | 102,710 | | | |
| EXPENDITURES AND OTHER FINANCING USES | | | | | | | | | | |
| Expenditures: | | | | | | | | | | |
| Judiciary | . — | _ | _ | _ | _ | _ | _ | | | |
| Inspector General | . – | _ | _ | _ | _ | _ | _ | | | |
| Governor and Lieutenant Governor | . – | _ | _ | _ | _ | _ | _ | | | |
| Secretary of the Commonwealth | . – | _ | _ | 4,742 | _ | _ | _ | | | |
| Treasurer and Receiver-General | . – | _ | _ | _ | _ | _ | _ | | | |
| Attorney General | . – | _ | _ | _ | _ | _ | _ | | | |
| District Attorney | . – | _ | _ | _ | _ | _ | _ | | | |
| Sheriffs' Departments | . – | _ | _ | _ | _ | _ | 7,266 | | | |
| Disabled Persons Protection Commission | . — | _ | _ | _ | _ | _ | _ | | | |
| Board of Library Commissioners | | _ | _ | _ | _ | _ | _ | | | |
| Massachusetts Gaming Commission | . — | _ | _ | _ | _ | _ | _ | | | |
| Comptroller | | _ | _ | _ | _ | _ | _ | | | |
| Administration and Finance | | _ | _ | _ | _ | _ | 509 | | | |
| Energy and Environmental Affairs | | _ | _ | _ | _ | _ | _ | | | |
| Health and Human Services | | 200 | _ | _ | | _ | 55 | | | |
| Executive Office of Technology Services and Security | | _ | _ | _ | 2,423 | _ | 185 | | | |
| Massachusetts Department of Transportation | | _ | _ | _ | _ | _ | _ | | | |
| Executive Office of Education | | _ | _ | _ | _ | _ | _ | | | |
| Center for Health Information and Analysis | | _ | | _ | _ | _ | 100.250 | | | |
| Public Safety and Security | | _ | 21 | _ | _ | _ | 100,359 | | | |
| Housing and Economic Development Labor and Workforce Development | | _ | _ | _ | _ | _ | _ | | | |
| Debt service: | . — | _ | _ | _ | _ | _ | | | | |
| Principal retirement | | | | | | | | | | |
| Interest and fiscal charges | | _ | _ | _ | _ | _ | _ | | | |
| Total expenditures | | 200 | 21 | 4,742 | 2.423 | | 108.374 | | | |
| | | | | 4,742 | | | 100,574 | | | |
| Other financing uses: | | | | | | | | | | |
| Fringe benefit cost assessment | | _ | _ | 530 | _ | _ | 3,497 | | | |
| Lottery operating reimbursements | | _ | _ | _ | _ | _ | _ | | | |
| Lottery distributions | | _ | _ | | _ | _ | | | | |
| Operating transfers out | | | 3 | 233 | | | 2,840 | | | |
| Total other financing uses | | | 24 | 763 | 2 422 | | 6,337 | | | |
| Total expenditures and other financing uses | | 200 | | 5,505 | 2,423 | | 114,711 | | | |
| Excess/(deficiency) of revenues and other financing sources | , <u>.</u> | | | (0.55) | ā = | | (4.5.00 | | | |
| over/(under) expenditures and other financing uses | | 56 | 171 | (953) | 32 | 273 | (12,001) | | | |
| Fund balances/(deficits) at beginning of year | | 713 | 406 | 1,767 | 3,102 | 937 | 122,671 | | | |
| Fund balances/(deficits) at end of year | . \$ 294 | \$ 769 | \$ 577 | \$ 814 | \$ 3,134 | \$ 1,210 | \$ 110,670 | | | |

| | | | | Non | -Budgeted Other Fund | ds | | | |
|----------|---|---|---|--|-------------------------|--|---------------------------------------|-----------------------------------|---|
| Salary I | el for Indigent Enhancement Trust | Special Projects Permitting and Oversight | Division of Energy Resources Credit Trust | School Modernization and Reconstruction Trust | Roche Community Rink | Health Care Workforce Transformation | Workforce Competitiveness Trust | Fire Prevention and Public Safety | Cigarette Fire Safety and Firefighter Protection Act Enforcement |
| | | | | | | | | | |
| \$ | _ | \$ <u> </u> | \$ <u> </u> | \$ 847,944 — | \$ <u> </u> | \$ | \$ | \$ <u> </u> | \$ <u> </u> |
| | _ | | _ | _ | | _ | _ | _ | 400 |
| | <u></u> | 6,379 | | | 42 | | | | 480 15 |
| | | 6,379 | | 847,944 | 42 | | | | 495 |
| | _ | _ | _ | _ | _ | _ | 1,990 | _ | |
| | | | | | | | | | |
| | | 6,379 | | 847,944 | 42 | | 1,990 1,990 | | 495 |
| | | 0,377 | | 047,744 | 42 | | 1,990 | | 473 |
| | _ | _ | _ | _ | _ | _ | _ | _ | |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | | _ | _ | _ | _ | _ |
| | _ | _ | _ | 847,944 | _ | _ | _ | _ | _ |
| | _ | _ | _ | | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | | _ _ | <u> </u> | | _ | |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | | _ | <u> </u> | _ | _ | |
| | _ | 1,366 | 36 | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | 26 | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | 27 | 1,060 |
| | _ | _ | _ | _ | _ | _ | | _ | _ |
| | _ | _ | _ | _ | _ | _ | 227 | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | | 1,366 | 36 | 847,944 | | 26 | 227 | 27 | 1,060 |
| | | | | | | | | | |
| | _ | 462 | _ _ | _ _ | _ _ | 3 | = | = | 40 |
| | _ | _ | _ | | _ | _ | _ | _ | _ |
| | | 220 682 | 3 3 | | | 1 4 | | 3 | 63 |
| | | 2,048 | 39 | 847,944 | | 30 | 227 | 30 | 1,123 |
| | _ | 4,331 | (39) | _ | 42 | (30) | 1,763 | (30) | (628 |
| | 2 | 2,799 | 1,740 | | 504 | 288 | _ | 105 | 2,216 |
| \$ | 2 | \$ 7,130 | \$ 1,701 | \$ | \$ 546 | \$ 258 | \$ 1,763 | | \$ 1,588 |

continued

Combining Statement of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | | Nor | n-Budgeted Other | Funds | | |
|---|---|--|--|---|--|--|-------------------------------|
| | Nursing and Allied Health Workforce Development Trust | Health Information Technology Trust | Build America Bonds Subsidy Trust | Housing Preservation and Stabilization | Office of Refugees and Immigrants Trust | Veterans Independence Plus Initiative Trust | Environmental Police Trust |
| REVENUES AND OTHER FINANCING SOURCES | | | | | | | |
| Revenues: | | | | | | | |
| Taxes | | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — |
| Assessments | | _ | _ | _ | _ | _ | _ |
| Federal grants and reimbursements | | 79,903 | 46,692 | _ | _ | _ | _ |
| Departmental | | _ | _ | _ | _ | 600 | 693 |
| Miscellaneous | | | | | 144 | | |
| Total revenues | 248 | 79,903 | 46,692 | | 144 | 600 | 693 |
| Other financing sources: | | | | | | | |
| Operating transfers in | 193 | 19,153 | _ | 7,475 | | _ | _ |
| Medical assistance transfer | | 17,133 | | 7,475 | _ | _ | _ |
| Total other financing sources | | 19,153 | | 7,475 | | | |
| Total revenues and other financing sources | | 99,056 | 46,692 | 7,475 | 144 | 600 | 693 |
| | 441 | 99,030 | 40,092 | 7,473 | 144 | | |
| EXPENDITURES AND OTHER FINANCING USES | | | | | | | |
| Expenditures: | | | | | | | |
| Judiciary | | _ | _ | _ | _ | _ | _ |
| Inspector General | | _ | _ | _ | _ | _ | _ |
| Governor and Lieutenant Governor | | _ | _ | _ | _ | _ | _ |
| Secretary of the Commonwealth | | _ | _ | _ | _ | _ | _ |
| Treasurer and Receiver-General | | _ | _ | _ | _ | _ | _ |
| Attorney General | | _ | _ | _ | _ | _ | _ |
| District Attorney | | _ | _ | _ | _ | _ | _ |
| Sheriffs' Departments | _ | _ | _ | _ | _ | _ | _ |
| Disabled Persons Protection Commission | _ | _ | _ | _ | _ | _ | _ |
| Board of Library Commissioners | _ | _ | _ | _ | _ | _ | _ |
| Massachusetts Gaming Commission | _ | _ | _ | _ | _ | _ | _ |
| Comptroller | | _ | _ | _ | _ | _ | _ |
| Administration and Finance | _ | _ | _ | _ | _ | _ | _ |
| Energy and Environmental Affairs | | _ | _ | _ | _ | _ | 515 |
| Health and Human Services | _ | 50,159 | _ | _ | 49 | 928 | _ |
| Executive Office of Technology Services and Security | _ | 4,384 | _ | _ | _ | _ | _ |
| Massachusetts Department of Transportation | _ | _ | _ | _ | _ | _ | _ |
| Executive Office of Education | | _ | _ | _ | _ | _ | _ |
| Center for Health Information and Analysis | _ | _ | _ | _ | _ | _ | _ |
| Public Safety and Security | _ | _ | _ | _ | _ | _ | _ |
| Housing and Economic Development | _ | _ | _ | 692 | _ | _ | _ |
| Labor and Workforce Development | _ | _ | _ | _ | _ | _ | _ |
| Debt service: | | | | | | | |
| Principal retirement | _ | _ | _ | _ | _ | _ | _ |
| Interest and fiscal charges | | | 38,212 | | | | |
| Total expenditures | 321 | 54,543 | 38,212 | 692 | 49 | 928 | 515 |
| Other financing uses: | | | | | | | |
| Fringe benefit cost assessment | | 1,683 | _ | _ | 6 | _ | 96 |
| Lottery operating reimbursements | _ | _ | _ | _ | _ | _ | _ |
| Lottery distributions | _ | _ | _ | _ | _ | _ | _ |
| Operating transfers out | 5 | 112 | | | 2 | | 51 |
| Total other financing uses | 15 | 1,795 | | | 8 | | 147 |
| Total expenditures and other financing uses | 336 | 56,338 | 38,212 | 692 | 57 | 928 | 662 |
| Excess/(deficiency) of revenues and other financing sources | | | | | | | |
| over/(under) expenditures and other financing sources | 105 | 42,718 | 8,480 | 6,783 | 87 | (328) | 31 |
| Fund balances/(deficits) at beginning of year | | - | | · · | | | |
| | | (45,124) | 298 | 6,129 | 22 | 331 | |
| Fund balances/(deficits) at end of year | \$ 362 | \$ (2,406) | \$ 8,778 | \$ 12,912 | \$ 109 | 3 | 31 |

| | | | | | Non-Budgeted | Other Funds | | | | |
|---|---------------------|--|----------------|--|---|--|---|--|---|-----------------------------------|
| Domes Sexual V Preventi Victim A | /iolence ion and | Seafood Marketing Government Program Land Bank | | Natural Heritage and Endangered Species | Mathematics, Science, Technology and Engineering Grant | Alternative and Clean Energy Investment Trust | Regional Greenhouse Gas Initiative (RGGI) Auction Trust | Mosquito and Greenhead Fly Control | Ocean Resources and Waterways Trust | Off Highway Vehicle Program |
| \$ | | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — |
| J. | _ | • — — | • — — — — | _ | • — — | • — — — | . | 12,072 | • — — — | φ <u> </u> |
| | | | _ | 1,592 | _ | _ | 20.460 | 1.016 | _ | |
| | 13 | 250 | _ | 359 343 | _ | _ | 39,460 | 1,016 | _ | 609 |
| | 13 | 250 | | 2,294 | | | 39,460 | 13,088 | | 609 |
| | _ | _ | 5,433 | _ | 1,500 | _ | _ | _ | _ | _ |
| | | | | | | | | | | |
| | 13 | 250 | 5,433 | 2,294 | 1,500 1,500 | | 39,460 | 13,088 | | 609 |
| | | | 3,133 | 2,271 | 1,500 | | 37,100 | 13,000 | | |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | 199 | _ | 1,537 | _ | _ | 27 41,758 | 11,504 | 205 | 705 |
| | _ | _ | _ | | _ | _ | 81 | 79 | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | | 1,424 | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | 125 | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | 3,712 | _ | _ | _ | _ | _ | _ | _ |
| | | 199 | 1,721 5,433 | 1,537 | 1,424 | | 41,991 | 11,583 | 205 | 705 |
| | | 199 | 3,433 | 1,337 | | | 41,991 | 11,363 | | 703 |
| | _ | _ | | 389 | 19 | _ | _ _ | 1,633 | _ _ | 100 |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | | | | 389 | 31 | | | 1,633 | 23 23 | 47 147 |
| | | 199 | 5,433 | 1,926 | 1,455 | | 41,991 | 13,216 | 228 | 852 |
| | 13 | 51 | _ | 368 | 45 | _ | (2,531) | (128) | (228) | (2/12 |
| | 25 | 211 | (35,033) | 2,051 | 1,054 | 24 | 16,940 | 1,902 | 606 | (243) 895 |
| \$ | 38 | \$ 262 | \$ (35,033) | \$ 2,419 | | \$ 24 | \$ 14,409 | \$ 1,774 | | \$ 652 |

continued

Combining Statement Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | | Nor | n-Budgeted Other | Funds | | |
|--|-------------------------------------|-------------------|--------------------------------|---|---|--|--|
| | Workforce Training Trust Fund | Oil Overcharge | Substance Abuse Services | Victims of Human Trafficking Trust | Department of Public Utilities Storm Trust | Homeless Animal Prevention and Care | Horseneck Beach Reservation Trust |
| REVENUES AND OTHER FINANCING SOURCES | | | | | | | |
| Revenues: | | | | | | | |
| Taxes | | \$ — | \$ — | \$ — | \$ — | \$ — | \$ — |
| Assessments | _ | _ | _ | _ | 233 | _ | _ |
| Federal grants and reimbursements | _ | _ | _ | _ | _ | _ | _ |
| Departmental | | _ | _ | _ | _ | _ | 35 |
| Miscellaneous | | 1 | | | | 362 | |
| Total revenues | 24,676 | 1 | | | 233 | 362 | 35 |
| Other financing sources: | | | | | | | |
| Operating transfers in | _ | _ | _ | _ | _ | _ | _ |
| Medical assistance transfer | | _ | _ | _ | _ | _ | _ |
| Total other financing sources | | | | | | | |
| Total revenues and other financing sources | | 1 | | | 233 | 362 | 35 |
| EXPENDITURES AND OTHER FINANCING USES | 21,070 | | | | 233 | | |
| | | | | | | | |
| Expenditures: | | | | | | | |
| Judiciary | | _ | _ | _ | _ | _ | _ |
| Inspector General | | _ | _ | _ | _ | _ | _ |
| | | _ | _ | _ | _ | _ | _ |
| Secretary of the Commonwealth | | _ | _ | _ | _ | _ | |
| Treasurer and Receiver-General | | _ | _ | _ | _ | _ | |
| Attorney General | | _ | _ | _ | _ | _ | _ |
| District Attorney | | _ | _ | _ | _ | _ | |
| Sheriffs' Departments | | _ | _ | _ | _ | _ | |
| Disabled Persons Protection Commission | | _ | _ | _ | _ | _ | _ |
| Board of Library Commissioners | | _ | _ | _ | _ | _ | _ |
| Massachusetts Gaming Commission | | _ | _ | _ | _ | _ | _ |
| Comptroller | | _ | _ | _ | _ | _ | _ |
| Administration and Finance | | | _ | _ | 270 | 245 | |
| Energy and Environmental Affairs | | 96 | 202 | _ | 270 | 245 | 64 |
| Health and Human Services | | _ | 303 | _ | _ | _ | _ |
| Executive Office of Technology Services and Security | | _ | _ | _ | _ | _ | |
| Massachusetts Department of Transportation | | _ | _ | _ | _ | _ | |
| Executive Office of Education | | _ | _ | _ | _ | _ | _ |
| Center for Health Information and Analysis | | _ | _ | _ | _ | _ | _ |
| Public Safety and Security Housing and Economic Development | | _ | _ | _ | _ | _ | _ |
| Labor and Workforce Development | | | _ | _ | _ | _ | _ |
| Debt service: | 19,412 | _ | _ | _ | _ | _ | _ |
| Principal retirement | | | | | | | |
| Interest and fiscal charges | | _ | _ | _ | _ | _ | _ |
| _ | 19,412 | 96 | 303 | | 270 | 245 | 64 |
| Total expenditures | 19,412 | 90 | 303 | | | 243 | - 04 |
| Other financing uses: | | | | | | | |
| Fringe benefit cost assessment | 87 | _ | _ | _ | 84 | 28 | _ |
| Lottery operating reimbursements | _ | _ | _ | _ | _ | _ | _ |
| Lottery distributions | _ | _ | _ | _ | _ | _ | _ |
| Operating transfers out | 8 | | | | 7 | | |
| Total other financing uses | 95 | | | | 91 | 28 | |
| Total expenditures and other financing uses | 19,507 | 96 | 303 | | 361 | 273 | 64 |
| F//d-6 | | | | | | | |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | 5,169 | (95) | (303) | _ | (128) | 89 | (29) |
| Fund balances/(deficits) at beginning of year | | 419 | 362 | 16 | 296 | 316 | |
| Fund balances/(deficits) at end of year | | | \$ 59 | \$ 16 | | \$ 405 | \$ 56 |
| r und varances/(denens) at end of year | φ 41,144 | э 324 | <u> </u> | <i>φ</i> 10 | ф 108 | φ 405 | \$ 56 |

| | | _ | , | Non-Budg | eted Other Funds | | | | |
|-------------------|--|---------------------|------------------------------|---------------------------|--|---|---|--|---|
| onmental Trust | Social Innovation Financing Trust | Children's Trust | Child Support Enforcement | Military Family Relief | Department of Industrial Accidents Special | Logan Airport Health Study Trust | State Public Health HIV and Hepatitis | Head Injury Treatment Services Trust | Board of Registration in Medicine Trust |
| | | | | | | | | | |
| \$ _ | s — | \$ — | \$ | \$ | \$ | s — | \$ | \$ | \$ |
| _ | _ | _ | 25,522 | _ | 24,724 | _ | | _ | _ |
| 681 | _ | _ | 5,224 | _ | 5,712 | _ | _ | 5,322 | 8,912 |
| 718 | | 3 3 | 30,901 | 275 275 | 30,479 | | 129 | 5,330 | 8,912 |
| /18 | | | 30,901 | | 30,479 | | 129 | 3,330 | 8,912 |
| _ | 10,925 | _ | _ | _ | _ | _ | _ | s – | \$ — |
| | | | | | | | | <u>\$</u> | <u>\$</u> |
| | 10,925 | | | | | | | | |
| 718 | 10,925 | 3 | 30,901 | 275 | 30,479 | | 129 | 5,330 | 8,912 |
| | | | | | | | | | |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | 9 | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | 199 | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | 3,239 | _ | 32,411 | _ | _ | _ | _ | _ | _ |
| 1,000 | _ | _ | _ | _ | _ | — 81 | 93 | 6.092 | 7.026 |
| _ | _ | _ | _ | _ | _ | - 61 | 93 | 6,982 | 7,026 |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | 3 | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | 501 | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | 871 | _ | _ | _ | _ |
| | | | | | | | | | |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | |
| 1,000 | 3,239 | 3 | 32,619 | 501 | 871 | 81 | 93 | 6,982 | 7,026 |
| 87 | _ | _ | 2,816 | _ | 4,988 | _ | _ | _ | 1,583 |
| _ | _ | _ | _ _ | _ | _ _ | _ | _ | _ | _ |
| 31 | _ | _ | 1,076 | _ | 19,553 | _ | _ | _ | 615 |
| 118 | | | 3,892 | | 24,541 | | | | 2,198 |
| 1,118 | 3,239 | 3 | 36,511 | 501 | 25,412 | 81 | 93 | 6,982 | 9,224 |
| (400) | 7,686 | _ | (5,610) | (226) | 5,067 | (81) | 36 | (1,652) | (312) |
| 2,655 | 3,297 | 196 | 13,865 | 882 | 10,176 | 171 | 171 | 7,041 | 9,639 |
| \$ 2,255 | \$ 10,983 | \$ 196 | \$ 8,255 | \$ 656 | | \$ 90 | \$ 207 | \$ 5,389 | \$ 9,327 |

continued

Combining Statement Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | | No | n-Budgeted Other F | unds | | |
|--|---|-----------------------|--|--|-------------------------------------|---------------------------|-------------------------|
| | Water Pollution Abatement Project Administration | Child Care Quality | Convention and Exhibition Center | Firearms Fingerprint Identity Verification Trust | Grant Anticipation Note Trust | Race Horse Development | Community Mitigation |
| REVENUES AND OTHER FINANCING SOURCES | | | | | | | |
| Revenues: | | | | | | | |
| Taxes | \$ — | \$ — | \$ 146,872 | \$ — | \$ — | \$ — | \$ — |
| Assessments | | _ | _ | _ | _ | _ | _ |
| Federal grants and reimbursements | 7,583 | _ | _ | _ | 542,712 | _ | _ |
| Departmental | | 190 | _ | 1,913 | _ | 15,242 | _ |
| Miscellaneous | | | 1,059 | | 2,265 | | |
| Total revenues | 7,583 | 190 | 147,931 | 1,913 | 544,977 | 15,242 | |
| Other financing sources: | | | | | | | |
| Operating transfers in | _ | _ | | _ | 36,406 | _ | |
| Medical assistance transfer | | _ | | | 50,400 | _ | _ |
| Total other financing sources | | | | | 36,406 | | |
| Total revenues and other financing sources | | 190 | 147,931 | 1,913 | 581,383 | 15,242 | |
| | 7,363 | 190 | 147,931 | 1,913 | 361,363 | 13,242 | |
| EXPENDITURES AND OTHER FINANCING USES | | | | | | | |
| Expenditures: | | | | | | | |
| Judiciary | | _ | _ | _ | _ | _ | _ |
| Inspector General | | _ | _ | _ | _ | _ | _ |
| Governor and Lieutenant Governor | | _ | _ | _ | _ | _ | _ |
| Secretary of the Commonwealth | | _ | _ | _ | | _ | _ |
| Treasurer and Receiver-General | | _ | _ | _ | 1,483 | _ | _ |
| Attorney General | | _ | _ | _ | _ | _ | _ |
| District Attorney | | _ | _ | _ | _ | _ | |
| Sheriffs' Departments | | _ | _ | _ | _ | _ | 400 |
| Disabled Persons Protection Commission | | _ | _ | _ | _ | _ | _ |
| Board of Library Commissioners | | _ | _ | _ | _ | | |
| Massachusetts Gaming Commission | | _ | _ | _ | _ | 16,557 | 3,080 |
| Comptroller | | _ | | _ | _ | _ | _ |
| Administration and Finance | | _ | 24,387 | _ | _ | _ | _ |
| Energy and Environmental Affairs | | _ | _ | _ | _ | _ | _ |
| Health and Human Services | | _ | _ | _ | _ | _ | _ |
| Executive Office of Technology Services and Security | | _ | _ | _ | _ | _ | _ |
| Massachusetts Department of Transportation | | _ | _ | _ | _ | _ | |
| Executive Office of Education | | 36 | _ | _ | _ | _ | 65 |
| Center for Health Information and Analysis | | _ | _ | _ | _ | _ | _ |
| Public Safety and Security | | _ | _ | 889 | _ | _ | _ |
| Housing and Economic Development. | | _ | _ | _ | _ | _ | _ |
| Labor and Workforce Development | _ | _ | _ | _ | _ | _ | _ |
| Debt service: | | | 22.210 | | 60.025 | | |
| Principal retirement | | _ | 23,310 | _ | 60,835 | _ | _ |
| Interest and fiscal charges | | | 31,163 | | 36,654 | | |
| Total expenditures | 5,076 | 36 | 78,860 | 889 | 98,972 | 16,557 | 3,545 |
| Other financing uses: | | | | | | | |
| Fringe benefit cost assessment | 1,591 | _ | _ | _ | _ | _ | 10 |
| Lottery operating reimbursements | _ | _ | _ | _ | _ | _ | _ |
| Lottery distributions | _ | _ | _ | _ | _ | _ | _ |
| Operating transfers out | 2,016 | 7_ | | | 479,727 | | 181 |
| Total other financing uses | 3,607 | 7 | _ | _ | 479,727 | _ | 191 |
| Total expenditures and other financing uses | 8,683 | 43 | 78,860 | 889 | 578,699 | 16,557 | 3,736 |
| Eveneral (definitionary) of revenues and alternative | | | | | | | |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | (1,100) | 147 | 69,071 | 1,024 | 2,684 | (1,315) | (3,736) |
| · · · · · | | | - | - | | . , , | |
| Fund balances/(deficits) at beginning of year | | 1,003 | 127,199 | 3,199 | 89,852 | 13,832 | 16,410 |
| Fund balances/(deficits) at end of year | \$ 1,198 | \$ 1,150 | \$ 196,270 | \$ 4,223 | \$ 92,536 | \$ 12,517 | \$ 12,674 |

| | | | Non-Budgeted | Other Funds | | | MassDOT | | | | |
|-----------------|-------------------|----------------|---|---|--|----------------------------------|--|---|---|--|--|
| Capita Inves | l Needs stment | Tourism Trust | Long-Term Care Facility Quality Improvement | Sexual Assault Nurse Examiner Trust | Transportation Infrastructure Enhancement Trust | Nickerson State Park Trust | Massachusetts Transportation Trust | Central Artery/ Tunnel Project Repair and Maintenance Trust | Motor Vehicle Safety Inspection Trust | Transportation Infrastructure and Development | |
| ø | | e 10.000 | ¢. | 6 | e | 6 | ¢. | ¢. | ¢. | e | |
| \$ | _ | \$ 10,000 — | \$ <u> </u> | \$ <u> </u> | \$ — 12,961 | \$ <u> </u> | \$ <u> </u> | \$ <u> </u> | \$ _ | \$ | |
| | _ | _ | 22 | | _ | 52 | 18,802 504,845 | _ | 57,408 | _ | |
| | | | | | | | 32,084 | 2,148 | 258 | 15 | |
| | | 10,000 | 22 | 2 | 12,961 | 52 | 555,731 | 2,148 | 57,666 | 15 | |
| | | | | | | | (55.121 | | | | |
| | _ | _ | _ | _ | _ | _ | 655,121 | _ _ | _ | _ | |
| | | | | | | | 655,121 | | | | |
| | | 10,000 | 22 | 2 | 12,961 | 52 | 1,210,852 | 2,148 | 57,666 | 15: | |
| | | | | | | | | | | | |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | - | |
| | _ | 5 | <u> </u> | _ | _ | _ | 68 | _ | _ | = | |
| | _ | _ | _ | _ | _ | _ | 214 | _ | _ | = | |
| | _ | _ | _ | _ | _ | _ | _ _ | _ | _ | = | |
| | _ | _ | _ | _ | _ | _ | 1,913 | _ | _ | = | |
| | _ | _ | _ | _ | _ | = | _ | _ | _ | = | |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | = | |
| | _ | _ | _ | _ | _ | _ | | _ | _ | - | |
| | _ | _ | - | | 9,720 | _ | 5,757 3,612 | | 2,281 | = | |
| | _ | _ | _ | _ | - | _ | 68 | _ | | - | |
| | _ | _ | _ | _ | _ | _ | 1,762 1,015,253 | 7,729 | 10,278 | 8,10 | |
| | _ | _ | | _ | _ | _ | 1,013,233 | 7,729 | 10,278 | 6,10 | |
| | _ | _ | _ | _ | _ | _ | | _ | _ | = | |
| | _ | 9,602 | _ | _ | _ | _ | 190 533 | _ | _ | - | |
| | _ | ´— | _ | _ | _ | _ | 22 | _ | _ | - | |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | |
| | | | | | | | | | | | |
| | | 9,607 | | | 9,720 | | 1,029,392 | 7,729 | 12,559 | 8,10 | |
| | _ | 2 | | _ | _ | _ | 75,595 | _ | 1,525 | _ | |
| | _ | _ | _ | _ | _ | _ | _ | _ | | = | |
| | _ | _ | _ | _ | 3,240 | _ | 15,357 | _ | 43,687 | - | |
| | | | | | 3,240 | | 90,952 | | 45,212 | | |
| | | 9,609 | | | 12,960 | | 1,120,344 | 7,729 | 57,771 | 8,10 | |
| | | | | | | | | | | | |
| | _ | 391 | 22 | 2 | 1 | 52 | 90,508 | (5,581) | (105) | (7,95 | |
| <u></u> | 722 | 432 | 5 | | | | 752,566 | 384,321 | 5,717 | 12,61 | |
| \$ | 722 | \$ 823 | \$ 27 | \$ 2 | \$ 1 | \$ 52 | \$ 843,074 | \$ 378,740 | \$ 5,612 | \$ 4,66 | |

continued

Combining Statement Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | Totals (Memorandum only) | | |
|--|------------------|-----------------------------|----|----------------------|
| | | 2018 | | 2017 |
| REVENUES AND OTHER FINANCING SOURCES | | | | |
| Revenues: | | 2 2 6 0 0 4 2 | • | 2 21 4 27 4 |
| Taxes | | 2,269,843 | \$ | 2,214,074 |
| Assessments | | 806,095 | | 754,577 |
| Federal grants and reimbursements | | 3,488,353 | | 3,255,134 |
| Departmental | | 6,731,084 | | 6,368,897 |
| Miscellaneous | | 48,909 13,344,284 | | 46,203 12,638,885 |
| | | 15,511,201 | | 12,030,003 |
| Other financing sources: Operating transfers in | | 939,573 | | 930,715 |
| Medical assistance transfer | | 579,944 | | 403,367 |
| Total other financing sources | | 1,519,517 | | 1,334,082 |
| Total revenues and other financing sources. | | 14,863,801 | | 13,972,967 |
| EXPENDITURES AND OTHER FINANCING USES | | - 1,000,000 | | |
| | | | | |
| Expenditures: | | 1,764 | | 1,668 |
| Judiciary | | 387 | | 218 |
| Inspector General Governor and Lieutenant Governor | | 73 | | 132 |
| Secretary of the Commonwealth | | 5,710 | | 4,864 |
| Treasurer and Receiver-General | | 6,369,962 | | 6,097,339 |
| Attorney General | | 48,675 | | 24,515 |
| District Attorney | | 3,108 | | 3,042 |
| Sheriffs' Departments | | 14,362 | | 10,985 |
| Disabled Persons Protection Commission | | 571 | | 159 |
| Board of Library Commissioners | | 2,791 | | 2,854 |
| Massachusetts Gaming Commission | | 44,238 | | 36,749 |
| Comptroller | | 2,128 | | 2,022 |
| Administration and Finance | | 423,701 | | 392,502 |
| Energy and Environmental Affairs | | 123,529 | | 117,823 |
| Health and Human Services. | | 2,517,235 | | 1,948,856 |
| Executive Office of Technology Services and Security | | 8,754 | | |
| Massachusetts Department of Transportation. | | 1,041,745 | | 1,196,021 |
| Executive Office of Education. | | 1,009,933 | | 991,602 |
| Center for Health Information and Analysis | | 5 | | 208 |
| Public Safety and Security | | 223,318 | | 245,863 |
| Housing and Economic Development | | 539,198 | | 503,427 |
| Labor and Workforce Development. | | 146,796 | | 168,718 |
| Debt service: | | | | |
| Principal retirement | | 87,857 | | 76,797 |
| Interest and fiscal charges | | 107,750 | | 117,079 |
| Total expenditures | ····· | 12,723,590 | | 11,943,443 |
| Other financing uses: | | | | |
| Fringe benefit cost assessment. | | 185,564 | | 189,437 |
| Lottery operating reimbursements | | 103,136 | | 100,392 |
| Lottery distributions | | 983,108 | | 1,025,411 |
| Operating transfers out | | 690,996 | | 889,844 |
| Total other financing uses | | 1,962,804 | | 2,205,084 |
| Total expenditures and other financing uses | ······· <u> </u> | 14,686,394 | | 14,148,527 |
| | | 155 465 | | (155.555 |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | | 177,407 | | (175,560 |
| Fund balances/(deficits) at beginning of year | | 1,891,339 | | 2,066,899 |
| Fund balances/(deficits) at end of year | \$ | 2,068,746 | \$ | 1,891,339 |

Capital Projects Funds

The Capital Projects Funds are used to account for the financial resources used to acquire or construct major capital assets of the Commonwealth and to finance local governmental capital projects.

General Capital Projects Fund - to account for proceeds of bonds sold to fund the construction or acquisition of capital assets for general Commonwealth purposes, excluding highway construction and projects targeted for specific localities or purposes. Effective September 1, 2009, this fund includes reimbursements to the Massachusetts Department of Transportation (MassDOT) for capital projects activity.

Convention and Exhibition Center Project Fund - to account for proceeds of bonds to finance the construction of a convention center in the City of Boston.

Capital Improvements and Investment Trust Fund - to account for the Commonwealth's reimbursement to cities and towns for expenses incurred for projects for construction and reconstruction of town and county ways.

Highway Capital Projects Fund - to account for the proceeds of bonds sold to finance construction of state highways and to fund the Commonwealth's share of Federally sponsored highway construction.

Federal Highway Construction Program - to account for federal highway construction grants which, with the Commonwealth's required share of matching funds, finance interstate highways and similar projects within Massachusetts to promote a nationwide highway system.

OTHER FUNDS:

This fund accounts for the proceeds of bonds used to finance land and transportation equipment for economic development.

Government Land Bank Capital Projects Fund - to account for proceeds of bonds used to finance the acquisition, holding, protection, maintenance, repair or use of lands and for personnel and the administrative costs of the Massachusetts Development Finance Agency.

LOCAL AID FUND:

Local Aid Capital Projects Fund - to account for the proceeds of bonds sold to finance the construction of correctional facilities, water pollution abatement projects and other local projects in specific localities of the Commonwealth. The fund accounts for the proceeds of bonds to finance improvements to lockup facilities, state police lockup facilities and to finance improvements to County Correctional Facilities, and other monies received by the Department of Conservation and Recreation pertaining to state parks, reservations and recreation areas outside the metropolitan parks district.

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MassDOT) FUND:

Central Artery Statewide Road and Bridge Infrastructure Fund - to account for bond proceeds, certain revenues from Registry of Motor Vehicle fees, (net of debt service expenditures) and payments from authorities. The purpose of expenditures from the fund is to meet the estimated additional costs associated with the Central Artery/Ted Williams Tunnel Project and for costs of the statewide road and bridge program.

The following funds have been enacted in legislation but were inactive in FY18 and are not presented in this report:

Capital Investment Trust Fund - to account for a transfer from the General Fund to finance appropriated items of a capital nature pursuant to sections 2E and 107 of Chapter 88 of the Acts of 1997.

Transportation Deferred Maintenance Trust Fund - to account for funds transferred from various sources by the Secretary of Administration and Finance to design, construct, maintain and repair the Commonwealth's roads and bridges.

Capital Projects Funds

Combining Statement Of Revenues, Expenditures And Changes In Fund Balances - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | General Capital Projects | Convention and Exhibition Center Capital | Capital Improvements and Investment Trust | Highway Capital Projects |
|--|-----------------------------|--|---|-----------------------------|
| REVENUES AND OTHER FINANCING SOURCES | | | | |
| Revenues: | | | | |
| Federal grants and reimbursements | \$ 78,586 | \$ — | \$ — | \$ — |
| Departmental | | _ | _ | _ |
| Miscellaneous | | | | 2,784 |
| Total revenues | 78,586 | | | 2,784 |
| Other financing sources: | | | | |
| Issuance of general obligation bonds | 1,235,600 | _ | _ | 497,843 |
| Bond premiums (discounts) on general obligation bonds | 149,514 | _ | _ | 83,778 |
| Issuance of special obligation bonds | _ | _ | _ | 650,000 |
| Bond premiums (discounts) on special obligation bonds | _ | _ | _ | 109,304 |
| Issuance of current refunding bonds | 34,346 | _ | 1,182 | 188,470 |
| Bond premiums (discounts) on current refunding bonds | _ | _ | _ | 25,064 |
| Issuance of advance refunding bonds | 154,243 | _ | _ | 371,931 |
| Bond premiums (discounts) on advance refunding bonds | 34,764 | _ | _ | 67,053 |
| Operating transfers in | _ | _ | _ | 11,254 |
| State share of federal highway construction | _ | _ | _ | _ |
| Total other financing sources | 1,608,467 | | 1,182 | 2,004,697 |
| Total revenues and other financing sources | 1,687,053 | | 1,182 | 2,007,481 |
| EXPENDITURES AND OTHER FINANCING USES Expenditures: | 12 202 | | | |
| Judiciary | - | _ | _ | - |
| Inspector General | | _ | _ | _ |
| Secretary of the Commonwealth | - | _ | _ | _ |
| Treasurer and Receiver-General | - , | _ | _ | _ |
| Auditor of the Commonwealth | | _ | _ | _ |
| Attorney General | | _ | _ | 155 |
| Ethics Commission | | _ | _ | _ |
| District Attorney | | _ | _ | _ |
| Sheriffs' Departments | - | _ | _ | _ |
| Board of Library Commissioners | | _ | _ | _ |
| Comptroller | | _ | _ | _ |
| Administration and Finance. | * | _ | _ | _ |
| Energy and Environmental Affairs | | _ | _ | 1,693 |
| Health and Human Services | 62,810 | _ | _ | _ |
| Executive Office of Technology Services and Security | | _ | _ | _ |
| Massachusetts Department of Transportation | | _ | _ | 1,103,959 |
| Executive Office of Education | 53,081 | _ | _ | _ |
| Center for Health Information and Analysis | 4 | _ | _ | _ |
| Public Safety and Security | 39,218 | _ | _ | _ |
| Housing and Economic Development | 427,561 | _ | _ | 631 |
| Labor and Workforce Development | 1,147 | | | |
| Total expenditures | 1,473,213 | | _ | 1,106,438 |
| Other financing uses: | | | | |
| Payments to advance refunding bonds escrow | 189,007 | _ | _ | 438,984 |
| Principal on current refundings | | _ | 1,182 | 213,534 |
| Fringe benefit cost assessment | | _ | | _ |
| Operating transfers out | | _ | _ | _ |
| State share of federal highway construction | | _ | _ | 108,859 |
| Total other financing uses | | | 1,182 | 761,377 |
| Total expenditures and other financing uses | | | 1,182 | 1,867,815 |
| Excess/(deficiency) of revenues and other financing sources over/(under) | (2(111) | | 1,102 | 139,666 |
| expenditures and other financing uses | | 8,393 | _ | (144,116) |
| Fund balances/(deficits) at end of year | | \$ 8,393 | <u> </u> | \$ (4,450) |
| See accountant's review report | . 223,720 | . 0,575 | | . (.,.50) |

| | | | | MassDOT | | |
|--------|-----------|------------------|------------------|-----------------------|------------------------|------------------------|
| Federa | l Highway | Government | | Central Artery | | tals |
| Cons | struction | Land Bank | Local Aid | Statewide Road and | | idum only) |
| Pr | ogram | Capital Projects | Capital Projects | Bridge Infrastructure | 2018 | 2017 |
| | | | | | | |
| \$ | 20,415 | \$ — | \$ — | \$ — | \$ 99,001 | \$ 58,354 |
| | 7,070 | _ | _ | 108 | 7,178 | 2,757 |
| | | | | 575 | 3,359 | 1,324 |
| | 27,485 | _ | | 683 | 109,538 | 62,435 |
| | | 1.000 | | | 1 724 442 | 2 400 675 |
| | _ | 1,000 | _ | _ | 1,734,443 | 2,408,675 |
| | _ | _ | _ | _ | 233,292 | 210,424 |
| | | _ | _ | _ | 650,000 109,304 | 461,975 55,148 |
| | | _ | 961 | 377,466 | 602,425 | 188,490 |
| | | _ | 901 | 55,129 | 80,193 | 188,490 |
| | | _ | 6 | 33,129 | 526,180 | 1,664,790 |
| | | _ | 1 | _ | 101,818 | 415,912 |
| | 479,727 | _ | 1 | _ | 490,981 | 489,130 |
| | 108,859 | _ | _ | _ | 108,859 | 111,172 |
| | 588,586 | 1,000 | 968 | 432,595 | 4,637,495 | 6,005,716 |
| | 616,071 | 1,000 | 968 | 432,393 | 4,747,033 | 6,068,151 |
| | 010,071 | 1,000 | 708 | 433,276 | 4,747,033 | 0,008,131 |
| | | | | | | |
| | _ | _ | _ | _ | 12,302 | 18,847 |
| | _ | _ | _ | _ | _ | 40 |
| | _ | _ | _ | _ | 1,501 | 1,530 |
| | _ | _ | _ | _ | 45,643 | 14,148 |
| | _ | _ | _ | _ | 1,299 | 2,936 |
| | _ | _ | _ | _ | 973 | 943 |
| | _ | _ | _ | _ | 6 | 87 |
| | _ | _ | _ | _ | _ | 5 |
| | _ | _ | _ | _ | 3,027 | 3,448 |
| | _ | _ | _ | _ | 19,936 | 12,435 |
| | _ | _ | _ | _ | _ | 137 |
| | _ | 500 | _ | _ | 439,483 | 619,824 |
| | 548 | _ | _ | _ | 210,408 | 201,141 |
| | _ | _ | _ | _ | 62,810 | 61,986 |
| | _ | _ | _ | _ | 55,627 | _ |
| | 604,962 | _ | _ | 24 | 1,811,028 | 1,793,170 |
| | _ | _ | _ | _ | 53,081 | 54,352 |
| | _ | _ | _ | _ | 4 | _ |
| | _ | _ | _ | _ | 39,218 | 40,760 |
| | _ | _ | _ | _ | 428,192 | 359,467 |
| | | | | | 1,147 | 1,754 |
| | 605,510 | 500 | | 24 | 3,185,685 | 3,187,010 |
| | | | - | | 627.000 | 2.000.702 |
| | _ | _ | 7 | 422.505 | 627,998 | 2,080,702 |
| | 10.550 | _ | 961 | 432,595 | 682,618 | 188,490 |
| | 10,559 | _ | | _ | 27,157 | 15,528 |
| | _ | _ | 11 | _ | 100 050 | 111 172 |
| | 10.550 | | 979 | 422.505 | 108,859 | 2 205 802 |
| | 10,559 | 500 | 979 | 432,595 | 1,446,643 4,632,328 | 2,395,892 5,582,902 |
| | | | 717 | | 1,032,320 | 5,502,702 |
| | 2 | 500 | (11) | 659 | 114,705 | 485,249 |
| | 514 | (500) | 11 | 36,216 | 150,555 | (334,694) |
| | 516 | \$ — | \$ — | \$ 36,875 | \$ 265,260 | \$ 150,555 |



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Supplemental Information



Calculation of Transfers – Stabilization and Tax Reduction Funds

Schedule A – FY2018 Tax Revenues by Revenue Class

Schedule B – Calculation of Cap on Stabilization Fund

Schedule C – Detail of Elimination of Budgetary Inter Fund Activity

Non-Tax Revenue Initiatives

Schedule of Pension and Post Employment Health Benefits - Last Six Fiscal Years

See accountants' review report

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Calculation of Transfers: Stabilization Fund*

Fiscal Year Ended June 30, 2018 (Amounts are in thousands)

This statement is prepared on the statutory basis of accounting pursuant to General Laws Chapter 29, Section 5c. It presents information contained in the official books and accounting records of the Commonwealth. Financial statements supporting this calculation are presented in the Financial Section of this report.

| | General Fund | | | Marijuana Regulation Fund | Total |
|--|--------------|------------|-----------|------------------------------|------------|
| Budgeted Fund Undesignated Balances (Consolidated Net Surplus) | \$ 95,754 | \$ 129,820 | 5 \$ 3,66 | 8 \$ 39 | \$ 229,286 |
| Disposition of Consolidated Net Surplus per Section 65 of Ch. 273 of the Acts of 2018: | | | | | |
| To the Massachusetts Community Preservation Trust Fund | (10,000) | _ | | | (10,000) |
| To the Massachusetts Life Sciences Investment Fund | (10,000) | | <u> </u> | <u> </u> | (10,000) |
| Remaining Consolidated Net Surplus to be Deposited in Stabilization Fund | \$ 75,754 | \$ 129,820 | 5 \$ 3,66 | 8 \$ 39 | \$ 209,287 |

Stabilization Balance Reconciliation:

| Balance as of July 1, 2017 | \$ 1,300,678 |
|---|-----------------|
| Capital Gains Tax Transfers to Stabilization Fund during FY2018 per Chapter 29, Section 5G | 513,908 |
| Minus Capital Gains Tax Transfers from Stabilization Fund to State Pension and State Retiree Benefits Trust Funds | (51,390) |
| Transfer to Stabilization Fund from Abandoned Property Revenue Growth from Prior Fiscal Year | 13,450 |
| Transfer of certain tax revenues to the Stabilization Fund | 272 |
| Stabilization Fund investment income | 15,094 |
| Remaining Consolidated Net Surplus Deposited in Stabilization Fund, per Calculation Above | 209,287 |
| Stabilization Fund Balance as of June 30, 2018 | \$ 2,001,299 |
| Memo: Change in Stabilization Fund Balance, FY17-18 | \$ 700,621 |

^{*} Excludes funds with no FY18 balances or activity

Note: Details may not add to totals due to rounding

Calculation Of Transfers: Tax Reduction Fund

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

This statement is prepared pursuant to Chapters 29 Sections 2H and 2I of the Massachusetts General Laws, as amended. It is prepared on the statutory basis of accounting and presents information contained in the official books and accounting records of the Commonwealth. Supporting information is presented in individual schedules, as indicated, and in the Financial Section of this report.

The computation is as follows:

| Part 1: Comparison of Stabilization Fund, after current fiscal year transfers, to 15% of budgeted revenues and other financial resources: | |
|---|-----------------|
| Undesignated fund balance in the Stabilization Fund. | \$ 2,001,299 |
| Allowable Stabilization Fund balance (per Schedule B) | 6,572,883 |
| Stabilization Fund excess, if any, transferable to Tax Reduction Fund | \$ |
| Part 2: Status of Stabilization Fund after transfers: | |
| Stabilization Fund balance | \$ 2,001,299 |
| Transfer to Tax Reduction Fund | |
| Stabilization Fund balance after transfer to Tax Reduction Fund | \$ 2,001,299 |
| Part 3: Status of Tax Reduction Fund after transfers: | |
| Tax Reduction Fund balance | |
| Tax Reduction Fund balance after transfers | \$ _ |

Schedule A FY2018 Tax Revenues By Revenue Class

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| Alcoholic beverages | \$ 84,978 |
|--|------------------|
| Cigarette | 471,246 |
| Cigarette excise - Commonwealth Care | 122,927 |
| Corporations | 2,408,947 |
| Deeds | 284,497 |
| Estate and inheritance | 472,956 |
| Health care coverage penalty - Commonwealth Care | 16,093 |
| Income | 16,239,568 |
| Insurance | 363,569 |
| Motor and special fuels | 769,144 |
| Room occupancy | 261,938 |
| Sales and use | 6,490,418 |
| Club alcoholic beverages | 865 |
| Motor vehicle excise | 116 |
| Convention center surcharges | 17,178 |
| Community preservation | 23,794 |
| Satellite | 9,721 |
| Gaming revenue - Mass Gaming Commission | 68,010 |
| State racing - Mass Gaming Commission | 887 |
| Beano | 1,218 |
| Raffles and bazaars | 1,031 |
| Boxing | 45 |
| DOI excess and surplus lines | 42,682 |
| UI surcharge | 24,676 |
| FY 2018 state tax revenue | \$ 28,176,504 |

This schedule is prepared on the statutory basis of accounting. It presents tax revenues as reported in the governmental funds of the Commonwealth. It differs from the schedule of tax collections prepared by the Comptroller, Commissioner of Revenue and State Auditor for calculations in accordance with Chapter 62F of the General Laws, as amended. The differences are due to 2/5ths of Beano revenue and the health care coverage penalty in the Commonwealth Care Fund, both of which are recognized on the statutory basis of accounting but are not accounted for on the schedule of tax collections prepared by the Department of Revenue.

Schedule B Calculation of Cap on Stabilization Fund

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| Total budgeted revenues and other financial resources pertaining to the budgeted funds | \$ 45,036,235 |
|--|------------------|
| Elimination of budgetary interfund activity exclusive of fund closure (per Schedule C) | (1,217,014) |
| Budgeted revenues and other financial resources pertaining to the budgeted funds | 43,819,221 |
| Allowable Stabilization Fund balance, 15% of budgeted revenue | \$ 6,572,883 |

Calculation of Stabilization Fund Cap as defined by Massachusetts General Laws Chapter 29 Section 2H.

Schedule C Detail of Elimination of Budgetary Inter Fund Activity

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| Adjustments to revenues : Transfer to the Intragovernmental Service Fund | \$ (437,226) |
|---|-------------------|
| Adjustments to other financing sources and uses: | |
| Fringe benefit cost assessments | (4,952) |
| Transfer from the Intragovernmental Service Fund to the General Fund | (7,416) |
| RMV license plates | (4,026) |
| Transfer from General Fund to the Commonwealth Transportation Fund | (40,000) |
| Transfer from budgeted funds to the Stabilization Fund | (723,195) |
| Other | (199) |
| Elimination of budgetary interfund activity | \$ (1,217,014) |



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Non-Tax Revenue Initiatives

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

Chapter 653, Acts of 1989, amended Chapter 29 of the Massachusetts General Laws by adding Sections 29D and 29E, which authorize certain non-tax revenue initiatives and require reporting thereon, as follows.

I. Debt Collection:

Pursuant to Massachusetts General Laws Chapter 29, Section D, Chapter 7A Section 8, allows private debt collection agencies to engage in debt collection for the Commonwealth. The fees paid are contingency-based from the proceeds collected. Collections and fees paid during FY18 were (amounts in thousands):

| Department Collectors | Col | lections | Fees |
|--|-----|----------|-------------|
| Collecto, Inc | \$ | 3,735 | \$ 606 |
| Allen Daniels | | 1,104 | 172 |
| Premier Credit of North America, LLC | | 567 | 91 |
| Delta | | 542 | 84 |
| Financial Asset Management Systems, Inc | | 256 | 17 |
| Linebarger, Goggan, Blair & Sampson, LLP | | 159 | 35 |
| Total | \$ | 6,363 | \$ 1,005 |

Under the same program, the following amounts were collected and fees paid for the Institutions of Higher Education (these figures are as subset of the above) (amounts in thousands):

| Department Collectors | Collections | | Fees | |
|--|-------------|-------|------|-----|
| Collecto, Inc | \$ | 3,356 | \$ | 542 |
| Allen Daniels | | 869 | | 133 |
| Delta | | 436 | | 67 |
| Premier Credit of North America, LLC | | 371 | | 59 |
| Linebarger, Goggan, Blair & Sampson, LLP | | 30 | | 5 |
| Total | \$ | 5,062 | \$ | 806 |

II. Cost Avoidance:

The Comptroller's appropriation authorizes contract arrangements engaged on a contingent fee basis for the purpose of identification and pursuit of cost saving/avoidance opportunities. During FY18, the following amounts were generated (amounts in thousands):

| State expenditures avoided | \$ 3,183 |
|----------------------------|-------------|
| Contractor payments | (605) |
| Net cost savings/avoidance | \$ 2,578 |

III. Intercept:

Intercept is authorized by M.G.L. Chapter 7A Section 3 and 815 CMR 9:06. Intercept is an automated process that offsets Commonwealth payments to delinquent receivables that have been approved by the Office of the State Comptroller. FY18 activity (amounts in thousands):

| Total Commonwealth intercepts | \$ 19,932 |
|--|--------------|
| Amounts included above that were intercepted on behalf of the Institutions of Higher Education | \$ 9,723 |

Schedule of Pension and Other Post Employment Health Benefits

(Amounts in thousands except for percentages)

Pension funding progress for the last six fiscal years

| _1 | Actuarial Value of Plan Assets | | Actuarial Accrued Liability | | Unfunded Actuarial Liability (UAAL) | Funded Ratio | | Annual Covered Payroll | UAAL as a % of Covered Payroll |
|--|--------------------------------------|----|-----------------------------------|----|--|-----------------|----|------------------------------|---|
| State Employee's Retirement System | | | | | | | | | |
| Actuarial Valuation as of January 1, 2018 \$ | 26,248,250 | \$ | 40,456,611 | \$ | 14,208,361 | 64.9% | \$ | 6,155,194 | 230.8% |
| Actuarial Valuation as of January 1, 2017 | 24,773,042 | | 38,316,719 | | 13,543,677 | 64.7% | | 5,927,012 | 228.5% |
| Actuarial Valuation as of January 1, 2016 | 23,465,963 | | 36,966,278 | | 13,500,315 | 63.5% | | 5,792,288 | 233.1% |
| Actuarial Valuation as of January 1, 2015 | 22,720,160 | | 33,679,150 | | 10,958,990 | 67.5% | | 5,591,911 | 196.0% |
| Actuarial Valuation as of January 1, 2014 | 21,581,133 | | 30,679,600 | | 9,098,467 | 70.3% | | 5,344,510 | 170.2% |
| Actuarial Valuation as of January 1, 2013 | 20,317,389 | | 29,385,442 | | 9,068,053 | 69.1% | | 5,183,195 | 175.0% |
| Teachers' Retirement System | | | | | | | | | |
| Actuarial Valuation as of January 1, 2018 \$ | 27,057,700 | \$ | 51,653,285 | \$ | 24,595,585 | 52.4% | \$ | 6,829,012 | 360.2% |
| Actuarial Valuation as of January 1, 2017 | 25,638,136 | | 49,193,503 | | 23,555,367 | 52.1% | | 6,583,871 | 357.8% |
| Actuarial Valuation as of January 1, 2016 | 24,593,787 | | 46,562,807 | | 21,969,020 | 52.8% | | 6,388,732 | 343.9% |
| Actuarial Valuation as of January 1, 2015 | 23,946,759 | | 44,115,769 | | 20,169,010 | 54.3% | | 6,204,274 | 325.1% |
| Actuarial Valuation as of January 1, 2014 | 22,940,196 | | 40,741,695 | | 17,801,499 | 56.3% | | 5,962,650 | 298.6% |
| Actuarial Valuation as of January 1, 2013 | 21,787,470 | | 39,135,218 | | 17,347,748 | 55.7% | | 5,783,294 | 300.0% |

For a complete analysis of the Commonwealth's actuarial valuation report, please go to http://www.mass.gov/perac. Alternatively, copies of the Commonwealth's actuarial valuation may be obtained by contacting the Massachusetts Public Employee Retirement Administration Commission, 5 Middlesex Avenue, Suite 304, Somerville, MA 02145. Telephone number: (617) 666-4446.

State Retiree Benefits Trust

The results of the January 1, 2018 Other Post-employment Benefits (OPEB) Actuarial Valuation will be presented in the Comprehensive Annual Financial Report (CAFR) due to changes in accounting standards.



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Statistical Section



Ten-Year Schedules – Statutory Basis Higher Education Non-appropriated Funds – Statutory Basis

Ten-Year Schedule of Revenues and Other Financing Sources

All Governmental Fund Types - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in millions)

| | 2018 | % Total | 2017 | % Total | 2016 | % Total | 2015 | % Total |
|---|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| Taxes | \$ 28,177 | 44.0 | \$ 26,042 | 42.1 | \$ 25,800 | 42.7 | \$ 25,239 | 44.4 |
| Federal reimbursements | 12,536 | 19.5 | 11,801 | 19.1 | 11,528 | 19.1 | 10,287 | 18.1 |
| Federal grants | 2,428 | 3.8 | 2,370 | 3.8 | 2,363 | 3.9 | 2,269 | 4.0 |
| Lotteries | 5,441 | 8.5 | 5,257 | 8.5 | 5,407 | 8.9 | 5,194 | 9.1 |
| Assessments | 1,246 | 1.9 | 1,209 | 2.0 | 1,058 | 1.7 | 1,033 | 1.8 |
| Motor vehicle licenses and registrations | 565 | 0.9 | 546 | 0.9 | 546 | 0.9 | 546 | 1.0 |
| Fees, investment earnings, etc | 5,525 | 8.6 | 4,963 | 8.0 | 5,016 | 8.3 | 4,409 | 7.8 |
| Proceeds of general and special obligation bonds and related premiums | 2,727 | 4.3 | 3,136 | 5.1 | 3,003 | 5.0 | 3,404 | 6.0 |
| Proceeds of refunding bonds | 1,311 | 2.0 | 2,269 | 3.7 | 1,674 | 2.8 | 707 | 1.2 |
| Other interfund transfers | 4,202 | 6.5 | 4,233 | 6.8 | 4,067 | 6.7 | 3,748 | 6.6 |
| Total revenues and other financing sources | \$ 64,158 | 100.0 | \$ 61,826 | 100.0 | \$ 60,462 | 100.0 | \$ 56,836 | 100.0 |

| 2014 | % Total | 2013 | % Total | 2012 | % Total | 2011 | % Total | 2010 | % Total | 2009 | % Total |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| \$ 23,665 | 43.6 | \$ 22,396 | 43.8 | \$ 21,384 | 42.7 | \$ 20,776 | 38.2 | \$ 18,792 | 40.3 | \$ 18,513 | 38.8 |
| 9,265 | 17.1 | 9,078 | 17.8 | 8,931 | 17.8 | 10,151 | 18.6 | 9,374 | 20.1 | 9,139 | 19.1 |
| 2,328 | 4.3 | 2,396 | 4.7 | 2,655 | 5.3 | 3,097 | 5.7 | 3,134 | 6.7 | 2,646 | 5.5 |
| 5,050 | 9.3 | 5,043 | 9.9 | 4,941 | 9.9 | 4,632 | 8.5 | 4,629 | 9.9 | 4,649 | 9.7 |
| 1,079 | 2.0 | 1,018 | 2.0 | 986 | 2.0 | 960 | 1.8 | 971 | 2.1 | 894 | 1.9 |
| 495 | 0.9 | 487 | 1.0 | 474 | 0.9 | 497 | 0.9 | 463 | 1.0 | 383 | 0.8 |
| 4,252 | 7.9 | 3,858 | 7.5 | 3,580 | 7.2 | 3,461 | 6.4 | 2,828 | 6.0 | 2,798 | 5.9 |
| 2,262 | 4.2 | 1,512 | 3.0 | 1,921 | 3.8 | 2,306 | 4.2 | 1,672 | 3.6 | 2,141 | 4.5 |
| 722 | 1.3 | 231 | 0.5 | 480 | 1.0 | 947 | 1.7 | 538 | 1.2 | 390 | 0.8 |
| 5,093 | 9.4 | 4,982 | 9.8 | 4,731 | 9.4 | 7,618 | 14.0 | 4,233 | 9.1 | 6,197 | 13.0 |
| \$ 54,211 | 100.0 | \$ 51,001 | 100.0 | \$ 50,083 | 100.0 | \$ 54,445 | 100.0 | \$ 46,634 | 100.0 | \$ 47,750 | 100.0 |

Ten-Year Schedule of Tax Revenues by Source

All Governmental Fund Types - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in millions)

| | 2018 | % Total | 2017 | % Total | 2016 | % Total | 2015 | % Total |
|------------------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| Income | \$ 16,240 | 57.7 | \$ 14,684 | 56.3 | \$ 14,394 | 55.9 | \$ 14,449 | 57.2 |
| Sales and use | 6,490 | 23.0 | 6,241 | 24.0 | 6,090 | 23.6 | 5,804 | 23.0 |
| Corporations | 2,409 | 8.5 | 2,196 | 8.4 | 2,333 | 9.0 | 2,227 | 8.8 |
| Motor fuels | 769 | 2.7 | 769 | 3.0 | 767 | 3.0 | 756 | 3.0 |
| Cigarette and tobacco. | 594 | 2.1 | 619 | 2.4 | 641 | 2.5 | 647 | 2.6 |
| Insurance | 364 | 1.3 | 358 | 1.4 | 369 | 1.4 | 333 | 1.3 |
| Estate and inheritance | 473 | 1.7 | 337 | 1.3 | 399 | 1.5 | 341 | 1.4 |
| Alcoholic beverages | 85 | 0.3 | 84 | 0.3 | 83 | 0.3 | 80 | 0.3 |
| Other | 753 | 2.7 | 754 | 2.9 | 724 | 2.8 | 602 | 2.4 |
| Total taxes | \$ 28,177 | 100.0 | \$ 26,042 | 100.0 | \$ 25,800 | 100.0 | \$ 25,239 | 100.0 |

| 2014 | % Total | 2013 | % Total | 2012 | % Total | 2011 | % Total | 2010 | % Total | 2009 | % Total |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| \$ 13,202 | 55.8 | \$ 12,831 | 57.3 | \$ 11,911 | 55.6 | \$ 11,576 | 55.6 | \$ 10,110 | 53.8 | \$ 10,584 | 57.2 |
| 5,519 | 23.3 | 5,184 | 23.1 | 5,079 | 23.8 | 4,921 | 23.7 | 4,626 | 24.6 | 3,880 | 21.0 |
| 2,195 | 9.3 | 1,888 | 8.4 | 2,002 | 9.4 | 1,931 | 9.3 | 1,835 | 9.8 | 1,790 | 9.7 |
| 732 | 3.1 | 651 | 2.9 | 662 | 3.1 | 661 | 3.2 | 655 | 3.5 | 654 | 3.5 |
| 661 | 2.8 | 558 | 2.6 | 574 | 2.6 | 599 | 2.9 | 597 | 3.1 | 603 | 3.2 |
| 316 | 1.3 | 373 | 1.7 | 318 | 1.5 | 296 | 1.4 | 285 | 1.5 | 309 | 1.7 |
| 402 | 1.7 | 313 | 1.4 | 293 | 1.4 | 310 | 1.5 | 221 | 1.2 | 260 | 1.4 |
| 79 | 0.3 | 77 | 0.3 | 77 | 0.4 | 73 | 0.4 | 72 | 0.4 | 73 | 0.4 |
| 559 | 2.4 | 521 | 2.3 | 468 | 2.2 | 409 | 2.0 | 391 | 2.1 | 360 | 1.9 |
| \$ 23,665 | 100.0 | \$ 22,396 | 100.0 | \$ 21,384 | 100.0 | \$ 20,776 | 100.0 | \$ 18,792 | 100.0 | \$ 18,513 | 100.0 |

Ten-Year Schedule of Expenditures And Other Financing Uses By Secretariat

All Governmental Fund Types - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in millions)

| | 2018 | % Total | 2017 | % Total | 2016 | % Total | 2015 | % Total |
|---|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| Legislature | \$ 68 | 0.1 | \$ 67 | 0.1 | \$ 61 | 0.1 | \$ 60 | 0.1 |
| Judiciary | 933 | 1.5 | 929 | 1.5 | 896 | 1.5 | 852 | 1.5 |
| Inspector General | 4 | _ | 4 | _ | 4 | _ | 5 | _ |
| Governor and Lieutenant Governor | 7 | _ | 7 | _ | 7 | _ | 7 | _ |
| Secretary of the Commonwealth | 46 | 0.1 | 52 | 0.1 | 45 | 0.1 | 52 | 0.1 |
| Treasurer and Receiver-General | 6,631 | 10.5 | 6,314 | 10.3 | 6,485 | 10.7 | 6,224 | 11.1 |
| Auditor of the Commonwealth | 20 | _ | 21 | _ | 20 | _ | 21 | _ |
| Attorney General | 98 | 0.2 | 71 | 0.1 | 63 | 0.1 | 56 | 0.1 |
| Ethics Commission | 2 | _ | 2 | _ | 3 | _ | 2 | _ |
| District Attorney | 122 | 0.2 | 123 | 0.2 | 116 | 0.2 | 111 | 0.2 |
| Office of Campaign and Political Finance | 2 | _ | 2 | _ | 2 | _ | 2 | _ |
| Sheriffs' Departments | 637 | 1.0 | 624 | 1.0 | 616 | 1.0 | 595 | 1.1 |
| Disabled Persons Protection Commission | 4 | _ | 3 | _ | 3 | _ | 3 | _ |
| Board of Library Commissioners | 48 | 0.1 | 40 | 0.1 | 48 | 0.1 | 49 | 0.1 |
| Massachusetts Gaming Commission | 45 | 0.1 | 38 | 0.1 | 35 | 0.1 | 21 | _ |
| Comptroller | 16 | _ | 16 | _ | 17 | _ | 20 | _ |
| Administration and Finance | 8,975 | 14.2 | 9,016 | 14.6 | 8,823 | 14.8 | 8,832 | 15.9 |
| Energy and Environmental Affairs | 565 | 0.9 | 543 | 0.9 | 627 | 1.0 | 628 | 1.1 |
| Health and Human Services | 24,438 | 38.2 | 23,037 | 37.6 | 22,579 | 37.3 | 20,398 | 36.0 |
| Executive Office of Technology Services and Security. | 137 | 0.2 | _ | _ | _ | _ | _ | _ |
| Transportation and Public Works | _ | _ | _ | _ | _ | _ | _ | _ |
| Massachusetts Department of Transportation | 2,980 | 4.7 | 3,129 | 5.1 | 3,287 | 5.4 | 3,248 | 5.8 |
| Office of the Child Advocate | 1 | _ | 1 | _ | 1 | _ | _ | _ |
| Cannabis Control Commission | 2 | _ | _ | _ | _ | _ | _ | _ |
| Executive Office of Education | 3,353 | 5.3 | 3,280 | 5.3 | 3,320 | 5.5 | 3,218 | 5.7 |
| Center for Health Information and Analysis | 21 | _ | 23 | _ | 27 | _ | 28 | _ |
| Public Safety and Security | 1,430 | 2.3 | 1,406 | 2.3 | 1,396 | 2.3 | 1,350 | 2.4 |
| Housing and Economic Development | 1,500 | 2.4 | 1,359 | 2.2 | 1,320 | 2.2 | 1,281 | 2.3 |
| Labor and Workforce Development | 195 | 0.3 | 214 | 0.3 | 214 | 0.4 | 223 | 0.4 |
| Post employment benefits | 2,891 | 4.6 | 2,660 | 4.3 | 2,503 | 4.1 | 2,287 | 3.9 |
| Debt service | 2,519 | 4.0 | 2,479 | 4.0 | 2,470 | 4.1 | 2,507 | 4.5 |
| Payments to advance refunding escrow agent/Principal on current refunding | 1,311 | 2.1 | 2,269 | 3.7 | 1,674 | 2.8 | 707 | 1.3 |
| Other fund deficit support | _ | _ | 145 | 0.2 | 71 | 0.1 | 89 | 0.2 |
| Other interfund transfers | 4,412 | 7.0 | 3,677 | 6.0 | 3,685 | 6.1 | 3,409 | 6.2 |
| Total expenditures and other financing uses | \$ 63,414 | 100.0 | \$ 61,550 | 100.0 | \$ 60,417 | 100.0 | \$ 56,285 | 100.0 |

Schedule reflects changes in accordance with Article 87 reorganizations of the Massachusetts Constitution at various times over the last ten years at point of implementation.

| 2014 | % Total | 2013 | % Total | 2012 | % Total | 2011 | % Total | 2010 | % Total | 2009 | % Total |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| \$ 56 | 0.1 | \$ 57 | 0.1 | \$ 58 | 0.1 | \$ 58 | 0.1 | \$ 59 | 0.1 | \$ 60 | 0.1 |
| 831 | 1.5 | 802 | 1.5 | 780 | 1.6 | 788 | 1.5 | 788 | 1.7 | 814 | 1.6 |
| 6 | _ | 6 | _ | 3 | _ | 3 | _ | 4 | _ | 3 | _ |
| 5 | _ | 6 | _ | 7 | _ | 5 | _ | 5 | _ | 8 | _ |
| 53 | 0.1 | 50 | 0.1 | 43 | 0.1 | 46 | 0.1 | 54 | 0.1 | 53 | 0.1 |
| 5,893 | 10.9 | 5,867 | 11.3 | 5,847 | 11.7 | 5,610 | 10.6 | 5,483 | 11.5 | 6,043 | 12.2 |
| 19 | _ | 19 | _ | 18 | _ | 17 | _ | 17 | _ | 20 | _ |
| 53 | 0.1 | 50 | 0.1 | 53 | 0.1 | 51 | 0.1 | 53 | 0.1 | 57 | 0.1 |
| 2 | _ | 2 | _ | 2 | _ | 2 | _ | 2 | _ | 2 | _ |
| 108 | 0.2 | 108 | 0.2 | 101 | 0.2 | 97 | 0.2 | 96 | 0.2 | 104 | 0.2 |
| 1 | _ | 1 | _ | 1 | _ | 3 | _ | 1 | _ | 1 | _ |
| 571 | 1.0 | 543 | 1.0 | 532 | 1.1 | 511 | 1.0 | 378 | 0.8 | 295 | 0.6 |
| 2 | _ | 2 | _ | 2 | _ | 2 | _ | 2 | _ | 3 | _ |
| 45 | 0.1 | 41 | 0.1 | 34 | 0.1 | 34 | 0.1 | 34 | 0.1 | 48 | 0.1 |
| 23 | _ | 14 | _ | 1 | _ | _ | _ | _ | _ | _ | _ |
| 18 | _ | 14 | _ | 13 | _ | 14 | _ | 15 | _ | 14 | _ |
| 8,862 | 16.3 | 8,665 | 16.8 | 7,456 | 14.9 | 7,206 | 13.7 | 7,040 | 14.9 | 6,892 | 14.2 |
| 561 | 1.0 | 490 | 0.9 | 456 | 0.9 | 482 | 0.9 | 529 | 1.1 | 526 | 1.1 |
| 18,649 | 34.1 | 17,447 | 34.1 | 17,632 | 35.1 | 17,737 | 33.5 | 16,044 | 33.8 | 16,468 | 33.3 |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | 509 | 1.1 | 1,689 | 3.4 |
| 2,914 | 5.4 | 2,439 | 4.7 | 2,323 | 4.6 | 2,278 | 4.3 | 1,542 | 3.2 | _ | _ |
| _ | _ | _ | _ | _ | _ | 3,225 | 6.1 | 3,184 | 6.7 | 3,390 | 6.9 |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 3,130 | 5.8 | 2,952 | 5.7 | 3,030 | 6.0 | _ | _ | _ | _ | | _ |
| 25 | _ | 9 | _ | _ | _ | 1,172 | 2.2 | 1,308 | 2.7 | 1,456 | 2.9 |
| 1,313 | 2.4 | 1,324 | 2.6 | 1,236 | 2.5 | _ | _ | _ | _ | _ | _ |
| 1,251 | 2.3 | 1,214 | 2.3 | 1,203 | 2.4 | 1,283 | 2.4 | 1,245 | 2.6 | 981 | 2.0 |
| 237 | 0.4 | 300 | 0.6 | 390 | 0.8 | 428 | 0.8 | 403 | 0.8 | 331 | 0.7 |
| 2,109 | 3.7 | 1,990 | 3.8 | 1,892 | 3.8 | 1,839 | 3.5 | 1,749 | 3.7 | 1,314 | 2.7 |
| 2,410 | 4.4 | 2,351 | 4.5 | 2,272 | 4.5 | 2,128 | 4.0 | 2,117 | 4.5 | 2,145 | 4.3 |
| 722 | 1.3 | 230 | 0.4 | 388 | 0.8 | 540 | 1.0 | 538 | 1.1 | _ | _ |
| 168 | 0.3 | _ | _ | _ | _ | 65 | 0.1 | _ | _ | 220 | 0.4 |
| 4,673 | 8.6 | 4,752 | 9.2 | 4,352 | 8.7 | 7,272 | 13.8 | 4,373 | 9.2 | 6,456 | 13.1 |
| \$ 54,710 | 100.0 | \$ 51,745 | 100.0 | \$ 50,125 | 100.0 | \$ 52,896 | 100.0 | \$ 47,572 | 100.0 | \$ 49,393 | 100.0 |

Ten-Year Schedule of Budgeted Funds Expenditures and Other Financing Uses By Major Program Category

Fiscal Year Ended June 30, 2018 (Amounts in millions)

| | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Direct local aid | \$ 5,886 | \$ 5,703 | \$ 5,568 | \$ 5,420 | \$ 5,292 | \$ 5,116 | \$ 4,929 | \$ 4,785 | \$ 4,837 | \$ 4,724 |
| Medicaid | 15,745 | 15,252 | 14,851 | 13,655 | 11,901 | 10,800 | 10,431 | 10,237 | 9,287 | 8,537 |
| Other Health and Human Services | 5,930 | 5,600 | 5,433 | 5,301 | 4,980 | 4,769 | 4,711 | 4,615 | 4,616 | 4,970 |
| Elementary and Secondary Education | 552 | 523 | 539 | 515 | 515 | 489 | 436 | 349 | 358 | 496 |
| Higher Education | 1,173 | 1,168 | 1,194 | 1,162 | 1,092 | 991 | 937 | 943 | 846 | 1,036 |
| Early Education and Care | 564 | 540 | 548 | 538 | 510 | 483 | 494 | 515 | 513 | 560 |
| Public Safety and Security | 1,102 | 1,060 | 1,066 | 1,041 | 1,010 | 960 | 930 | 905 | 1,053 | 1,224 |
| Energy and Environmental Affairs | 230 | 222 | 221 | 225 | 215 | 202 | 187 | 186 | 202 | 216 |
| Post employment benefits | 2,900 | 2,660 | 2,503 | 2,287 | 2,109 | 1,990 | 1,892 | 1,839 | 1,749 | 1,314 |
| Group health insurance | 1,634 | 1,663 | 1,630 | 1,665 | 1,403 | 1,278 | 1,206 | 1,130 | 1,064 | 973 |
| Debt service | 2,323 | 2,285 | 2,174 | 2,190 | 2,133 | 2,117 | 1,923 | 1,664 | 1,860 | 1,891 |
| Major programs | 38,039 | 36,676 | 35,727 | 33,999 | 31,160 | 29,195 | 28,076 | 27,168 | 26,385 | 25,941 |
| Other program expenditures | 3,113 | 3,235 | 3,241 | 3,326 | 3,294 | 3,007 | 2,899 | 2,851 | 2,999 | 2,762 |
| Interfund transfers and other financing uses | 2,945 | 1,908 | 1,959 | 1,527 | 3,200 | 3,149 | 2,515 | 5,520 | 1,810 | 3,867 |
| Total expenditures and other financing uses | \$ 44,097 | \$ 41,819 | \$ 40,927 | \$ 38,852 | \$ 37,654 | \$ 35,351 | \$ 33,490 | \$ 35,539 | \$ 31,194 | \$ 32,570 |

Ten-Year Schedule of Long-Term Bonds And Notes Outstanding

As of June 30, 2018 (Amounts in millions)

| | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | | | | |
| General obligation bonds | \$ 23,144 | \$ 22,717 | \$ 21,668 | \$ 20,802 | \$ 19,387 | \$ 19,140 | \$ 18,852 | \$ 18,517 | \$ 17,683 | \$ 17,052 |
| Grant anticipation notes* | 748 | 738 | 657 | 700 | 531 | 449 | 610 | 766 | 991 | 1,134 |
| Special obligation bonds | 3,469 | 2,991 | 2,754 | 2,324 | 2,292 | 1,924 | 1,972 | 1,592 | 1,053 | 1,079 |
| | | | | | | | | | | |
| Commonwealth long-term bonds | \$ 27,361 | \$ 26,446 | \$ 25,079 | \$ 23,826 | \$ 22,210 | \$ 21,513 | \$ 21,434 | \$ 20,875 | \$ 19,727 | \$ 19,265 |

^{*}Inclusive of cross-over refunding notes but exclusive of unamortized premiums.



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HIGHER EDUCATION NON-APPROPRIATED ACTIVITY

The Commonwealth's Public Institutions of Higher Education are allowed, by their enabling statutes, to collect, retain, and expend certain fees, rents, donations and other types of revenue. These financial resources are important elements in the overall financial operations of the respective institutions, and are in addition to amounts made available from appropriations. The Public Institutions of Higher Education include:

University of Massachusetts System - The University system includes the campuses at Amherst, Worcester, Boston, Lowell, Dartmouth and certain institutes and programs operated by the Office of the University President.

State University Systems - The State College and University Systems include the three state colleges, and six state universities, which provide four-year post-secondary education programs. These include:

- Bridgewater State University
- Framingham State University
- Fitchburg State University
- Massachusetts College of Art & Design
- Massachusetts Maritime Academy
- Massachusetts College of Liberal Arts
- Salem State University
- Worcester State University
- Westfield State University

Community College System - The Community College System includes the fifteen community colleges, which provide two-year post secondary education programs.

- Berkshire Community College
- Bunker Hill Community College
- Bristol Community College
- Cape Cod Community College
- Greenfield Community College
- Holyoke Community College
- · Massasoit Community College
- Massachusetts Bay Community College
- Middlesex Community College
- Mount Wachusett Community College
- Northern Essex Community College
- North Shore Community College
- Quinsigamond Community College
- Roxbury Community College
- Springfield Technical Community College

Higher Education System

Combining Higher Education Non-Appropriated Activity - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | | | | | | То | tals | |
|------|--|----------------------------------|------------------------------------|----|----------------------|----|-----------|------|-----------|
| | | Jniversity of assachusetts | State niversities d Colleges | | ommunity Colleges | | 2018 | | 2017 |
| Reve | nues and other financing sources: | | | | | | | | |
| | Federal grants and reimbursements | \$ 297,417 | \$ 60,836 | \$ | 159,260 | \$ | 517,513 | \$ | 515,589 |
| | Departmental revenue | 1,491,102 | 585,416 | | 403,145 | | 2,479,663 | | 2,296,093 |
| | Miscellaneous revenue | 1,267,970 | 394,060 | | 270,418 | | 1,932,448 | | 1,930,299 |
| | | | | | | | | | |
| | Total revenues and other financing sources | 3,056,489 | 1,040,312 | | 832,823 | _ | 4,929,624 | _ | 4,741,981 |
| Expe | nditures and other financing uses | | | | | | | | |
| (by | MMARS subsidiary): | | | | | | | | |
| AA | Regular employee compensation | 746,058 | 194,211 | | 166,067 | | 1,106,336 | | 1,102,621 |
| BB | Regular employee related expenses | 19,621 | 6,135 | | 3,390 | | 29,146 | | 29,787 |
| CC | Special employees and contracted services | 264,634 | 143,999 | | 181,286 | | 589,919 | | 611,586 |
| DD | Pension and insurance | 217,011 | 60,329 | | 45,964 | | 323,304 | | 312,233 |
| EE | Administrative expenditures | 245,595 | 79,617 | | 29,779 | | 354,991 | | 326,700 |
| FF | Facility operational supplies | 128,035 | 18,042 | | 16,032 | | 162,109 | | 205,856 |
| GG | Energy costs and space rental | 136,646 | 42,704 | | 29,121 | | 208,471 | | 206,301 |
| НН | Consultant services | 162,964 | 13,163 | | 16,130 | | 192,257 | | 248,759 |
| JJ | Operational services | 45,252 | 39,116 | | 14,759 | | 99,127 | | 101,448 |
| KK | Equipment purchase | 25,670 | 5,939 | | 6,322 | | 37,931 | | 45,677 |
| LL | Equipment leases, maintenance and repair | 28,231 | 8,942 | | 6,628 | | 43,801 | | 42,058 |
| MM | Purchased client services and programs | 35,977 | 3,552 | | 3,666 | | 43,195 | | 43,979 |
| NN | Construction and improvements | 134,819 | 40,286 | | 24,463 | | 199,568 | | 198,189 |
| PP | Aid to local governments | _ | 79 | | 3,164 | | 3,243 | | 5,490 |
| RR | Benefit programs | 420,160 | 111,135 | | 166,492 | | 697,787 | | 582,908 |
| SS | Debt payment | 13,618 | 16,377 | | 3,333 | | 33,328 | | 46,908 |
| TT | Loans and special payments | 262,920 | 127,417 | | 39,322 | | 429,659 | | 375,667 |
| UU | Information technology (IT) expenses | 88,540 | 30,986 | | 29,082 | _ | 148,608 | | 149,066 |
| | Total expenditures and other financing uses | 2,975,751 | 942,029 | | 785,000 | _ | 4,702,780 | | 4,635,233 |
| | Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | 80,738 | 98,283 | | 47,823 | | 226,844 | | 106,748 |
| | Fund balance at beginning of year | 988,754 | 487,968 | | 356,695 | | 1,833,417 | | 1,726,669 |
| | Fund balance at end of year | \$ 1,069,492 | \$ 586,251 | \$ | 404,518 | \$ | 2,060,261 | \$ | 1,833,417 |

University of Massachusetts

Combining Higher Education Non-Appropriated Activity - Statutory Basis

Fiscal Year Ended June 30, 2018 (Amounts in thousands)

| | | То | tals | |
|------|--|-----------------|------|-----------|
| | | 2018 | | 2017 |
| Reve | nues and other financing sources: | | | |
| | Federal grants and reimbursements | \$ 297,417 | \$ | 303,622 |
| | Departmental revenue | 1,491,102 | | 1,431,375 |
| | Miscellaneous revenue | 1,267,970 | | 1,230,322 |
| | Total revenues and other financing sources | 3,056,489 | | 2,965,319 |
| _ | nditures and other financing uses MMARS subsidiary): | | | |
| AA | Regular employee compensation | 746,058 | | 733,701 |
| BB | Regular employee related expenses | 19,621 | | 20,361 |
| CC | Special employees and contracted services. | 264,634 | | 266,341 |
| DD | Pension and insurance | 217,011 | | 212,942 |
| EE | Administrative expenditures | 245,595 | | 207,941 |
| FF | Facility operational supplies | 128,035 | | 168,253 |
| GG | Energy costs and space rental | 136,646 | | 136,233 |
| НН | Consultant services | 162,964 | | 219,420 |
| JJ | Operational services | 45,252 | | 47,172 |
| KK | Equipment purchase | 25,670 | | 30,563 |
| LL | Equipment leases, maintenance and repair | 28,231 | | 27,189 |
| MM | Purchased client services and programs | 35,977 | | 37,355 |
| NN | Construction and improvements | 134,819 | | 136,105 |
| RR | Benefit programs | 420,160 | | 317,676 |
| SS | Debt payment | 13,618 | | 26,873 |
| TT | Loans and special payments | 262,920 | | 213,949 |
| UU | Information technology (IT) expenses | 88,540 | | 87,400 |
| | Total expenditures and other financing uses | 2,975,751 | _ | 2,889,474 |
| | Excess (deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | 80,738 | | 75,845 |
| | Fund balance at beginning of year | 988,754 | _ | 912,909 |
| | Fund balance at end of year | \$ 1,069,492 | \$ | 988,754 |

State University and College System

Combining Higher Education Non-Appropriated Activity - Statutory Basis

Fiscal Year Ended June 30, 2018

(Amounts in thousands)

| n | | Bridgewater State University | Framingham State University | Fitchburg State University | Massachusetts College of Art |
|------|--|------------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| Reve | nues and other financing sources: | Ф 16 022 | Φ (712 | Ф 0.424 | Φ 2 (00 |
| | Federal grants and reimbursements | | \$ 6,712 | \$ 8,434 | \$ 2,688 |
| | Departmental revenue | | 54,148 | 60,606 | 33,656 |
| | Miscellaneous revenue | 93,236 | 62,004 | 26,181 | 24,273 |
| | Total revenues and other financing sources | 246,288 | 122,864 | 95,221 | 60,617 |
| _ | nditures and other financing uses MMARS subsidiary): | | | | |
| AA | Regular employee compensation | 78,040 | 11,960 | 18,597 | 11,293 |
| BB | Regular employee related expenses | 1,417 | 453 | 464 | 379 |
| CC | Special employees and contracted services | 44,217 | 10,966 | 15,020 | 6,273 |
| DD | Pension and insurance | 26,849 | 3,828 | 6,339 | 818 |
| EE | Administrative expenditures | 5,601 | 43,710 | 2,840 | 2,401 |
| FF | Facility operational supplies | 1,742 | 1,314 | 1,688 | 1,340 |
| GG | Energy costs and space rental | 5,219 | 3,812 | 4,524 | 2,266 |
| HH | Consultant services | 1,932 | 1,013 | 1,048 | 1,926 |
| JJ | Operational services | 12,414 | 6,698 | 1,886 | 2,570 |
| KK | Equipment purchase | 1,183 | 613 | 545 | 455 |
| LL | Equipment leases, maintenance and repair | 2,296 | 713 | 913 | 346 |
| MM | Purchased client services and programs | 1,854 | 434 | 260 | _ |
| NN | Construction and improvements | 5,126 | 4,453 | 5,748 | 8,466 |
| PP | Aid to local governments | _ | _ | _ | _ |
| RR | Benefit programs | 29,884 | 9,723 | 10,676 | 10,395 |
| SS | Debt payment | 1,866 | 423 | _ | _ |
| TT | Loans and special payments | 18,064 | 24,797 | 18,335 | 9,081 |
| UU | Information technology (IT) expenses | 5,589 | 4,283 | 3,629 | 1,510 |
| | Total expenditures and other financing uses | 243,293 | 129,193 | 92,512 | 59,519 |
| | Excess (deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | 2,995 | (6,329) | 2,709 | 1,098 |
| | Fund balance at beginning of year | 34,581 | 63,615 | 48,224 | 14,864 |
| | Fund balance at end of year | \$ 37,576 | \$ 57,286 | \$ 50,933 | \$ 15,962 |

| | | | | | | | To | tals | |
|----|----------------------------------|-----|------------------------------------|-----------------------------|---------------------------------|---------------------------------|---------------|------|---------|
| M | sachusetts faritime cademy | Col | achusetts llege of eral Arts | Salem State niversity | Vorcester State niversity | Vestfield State niversity | 2018 | | 2017 |
| \$ | 1,343 | \$ | 3,144 | \$ 13,093 | \$ 454 | \$ 8,945 | \$ 60,836 | \$ | 56,969 |
| | 42,612 | | 22,088 | 81,106 | 64,535 | 89,636 | 585,416 | | 471,319 |
| | 13,787 | | 14,071 | 94,093 | 23,566 | 42,849 | 394,060 | | 406,368 |
| | 57,742 | | 39,303 | 188,292 | 88,555 | 141,430 | 1,040,312 | | 934,656 |
| | | | | | | | | | |
| | 8,853 | | 8,664 | 30,141 | 4,268 | 22,395 | 194,211 | | 193,115 |
| | 1,153 | | 511 | 369 | 734 | 655 | 6,135 | | 5,895 |
| | 8,774 | | 7,494 | 17,794 | 9,025 | 24,436 | 143,999 | | 140,459 |
| | 1,346 | | 1,055 | 10,389 | 1,111 | 8,594 | 60,329 | | 57,257 |
| | 1,239 | | 2,034 | 16,215 | 3,334 | 2,243 | 79,617 | | 82,988 |
| | 1,480 | | 413 | 3,285 | 2,228 | 4,552 | 18,042 | | 18,731 |
| | 1,669 | | 1,911 | 5,995 | 11,947 | 5,361 | 42,704 | | 41,970 |
| | 1,123 | | 1,132 | 1,381 | 1,860 | 1,748 | 13,163 | | 12,420 |
| | 8,891 | | 3,574 | 1,372 | 1,177 | 534 | 39,116 | | 38,354 |
| | 558 | | 231 | 391 | 517 | 1,446 | 5,939 | | 6,098 |
| | 1,678 | | 97 | 453 | 1,470 | 976 | 8,942 | | 8,607 |
| | _ | | _ | 507 | _ | 497 | 3,552 | | 4,108 |
| | 2,223 | | 831 | 3,390 | 4,429 | 5,620 | 40,286 | | 40,545 |
| | _ | | 79 | _ | _ | _ | 79 | | 93 |
| | 1,508 | | 6,404 | 18,599 | 12,310 | 11,636 | 111,135 | | 101,102 |
| | _ | | 732 | 543 | 696 | 12,117 | 16,377 | | 16,210 |
| | 8,796 | | 2,926 | 14,401 | 772 | 30,245 | 127,417 | | 121,936 |
| | 3,030 | | 1,055 | 5,530 | 1,935 | 4,425 | 30,986 | | 31,413 |
| | 52,321 | | 39,143 | 130,755 | 57,813 | 137,480 | 942,029 | | 921,301 |
| | 5,421 | | 160 | 57,537 | 30,742 | 3,950 | 98,283 | | 13,355 |
| | 14,117 | | 13,912 | 23,748 | 205,343 | 69,564 | 487,968 | | 474,613 |
| \$ | 19,538 | \$ | 14,072 | \$ 81,285 | \$ 236,085 | \$ 73,514 | \$ 586,251 | \$ | 487,968 |

Community College System

Combining Higher Education Non-Appropriated Activity - Statutory Basis

Fiscal Year Ended June 30, 2018

(Amounts in thousands)

| | | Com | kshire munity bllege | Co | inker Hill ommunity College | Co | Bristol mmunity College | Co | ape Cod ommunity College | Cor | eenfield mmunity College | Con | lolyoke mmunity College | Coı | assasoit nmunity College |
|-------|--|-----|----------------------------|----|-----------------------------------|----|-------------------------------|----|--------------------------------|-----|--------------------------------|-----|-------------------------------|-----|--------------------------------|
| Rever | nues and other financing sources: | | | | | | | | | | | | | • | |
| | Federal grants and reimbursements | \$ | 3,992 | \$ | 23,704 | \$ | 17,333 | \$ | 5,240 | \$ | 3,262 | \$ | 11,114 | \$ | 16,510 |
| | Departmental revenue | | 7,435 | | 56,369 | | 36,731 | | 11,448 | | 10,997 | | 13,316 | | 35,898 |
| | Miscellaneous revenue | | 7,385 | | 34,124 | | 28,682 | | 16,877 | | 5,512 | | 18,417 | | 21,341 |
| | Total revenues and other financing sources | | 18,812 | | 114,197 | | 82,746 | | 33,565 | | 19,771 | | 42,847 | | 73,749 |
| Expe | nditures and other financing uses | | | | | | | | | | | | | | |
| (by | MMARS subsidiary): | | | | | | | | | | | | | | |
| AA | Regular employee compensation | | 2,223 | | 39,951 | | 12,858 | | 5,558 | | 3,928 | | 7,207 | | 12,488 |
| BB | Regular employee related expenses | | 147 | | 233 | | 306 | | 192 | | 17 | | 344 | | 138 |
| CC | Special employees and contracted services | | 5,556 | | 18,271 | | 27,827 | | 11,009 | | 5,611 | | 8,768 | | 19,985 |
| DD | Pension and insurance | | 840 | | 3,395 | | 4,762 | | 2,481 | | 1,349 | | 2,335 | | 4,521 |
| EE | Administrative expenditures | | 1,142 | | 3,243 | | 1,606 | | 1,657 | | 959 | | 1,636 | | 2,056 |
| FF | Facility operational supplies | | 425 | | 1,241 | | 921 | | 429 | | 239 | | 1,286 | | 1,333 |
| GG | Energy costs and space rental | | 717 | | 4,146 | | 3,670 | | 1,924 | | 944 | | 2,037 | | 1,178 |
| HH | Consultant services | | 400 | | 1,253 | | 1,138 | | 353 | | 373 | | 639 | | 1,892 |
| JJ | Operational services | | 620 | | 1,689 | | 959 | | 550 | | 256 | | 1,010 | | 522 |
| KK | Equipment purchase | | 161 | | 794 | | 436 | | 87 | | 89 | | 354 | | 230 |
| LL | Equipment leases, maintenance and repair | | 143 | | 603 | | 298 | | 153 | | 136 | | 167 | | 584 |
| MM | Purchased client services and programs | | 13 | | 881 | | 529 | | _ | | 6 | | 14 | | 288 |
| NN | Construction and improvements | | 421 | | 5,348 | | 3,446 | | 494 | | 309 | | 1,538 | | 1,555 |
| PP | Aid to local governments | | _ | | _ | | 251 | | _ | | 69 | | 289 | | 1,995 |
| RR | Benefit programs | | 1,882 | | 25,016 | | 17,270 | | 6,610 | | 4,188 | | 13,491 | | 11,803 |
| SS | Debt payment | | 16 | | 245 | | _ | | _ | | _ | | 247 | | 961 |
| TT | Loans and special payments | | 3,321 | | _ | | 3,129 | | _ | | 147 | | 1 | | 5,955 |
| UU | Information technology (IT) expenses | | 974 | | 5,876 | _ | 1,617 | _ | 1,172 | | 592 | | 2,787 | | 2,964 |
| | Total expenditures and other financing uses | | 19,001 | | 112,185 | | 81,023 | | 32,669 | _ | 19,212 | | 44,150 | | 70,448 |
| | Excess (deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | | (189) | | 2,012 | | 1,723 | | 896 | | 559 | | (1,303) | | 3,301 |
| | Fund balance at beginning of year | | 3,082 | | 23,436 | | 12,668 | _ | 22,844 | | 2,127 | | 15,037 | | 34,914 |
| | Fund balance at end of year | \$ | 2,893 | \$ | 25,448 | \$ | 14,391 | \$ | 23,740 | \$ | 2,686 | \$ | 13,734 | \$ | 38,215 |

| | | | | | | | | Tot | tals |
|-------------------------------------|-----------------------------------|--|---|--|--------------------------------------|---------------------------------|--|------------|-----------|
| Massachusetts Bay Community College | Middlesex Community College | Mount Wachusett Community College | Northern Essex Community College | North Shore Community College | Quinsigamond Community College | Roxbury Community College | Springfield Technical Community College | 2018 | 2017 |
| \$ 4,732 | \$ 17,817 | \$ 1,037 | \$ 10,343 | \$ 13,275 | \$ 14,053 | \$ 4,765 | \$ 12,083 | \$ 159,260 | \$ 154,99 |
| 20,289 | 37,216 | 26,376 | 40,476 | 30,578 | 46,167 | 73 | 29,776 | 403,145 | 393,39 |
| 16,490 | 28,445 | 16,761 | 23,914 | 15,030 | 5,956 | 16,184 | 15,300 | 270,418 | 293,60 |
| 41,511 | 83,478 | 44,174 | 74,733 | 58,883 | 66,176 | 21,022 | 57,159 | 832,823 | 842,00 |
| | | | | | | | | | |
| 2,599 | 11,470 | 20,976 | 13,770 | 21,484 | 9,643 | 158 | 1,754 | 166,067 | 175,80 |
| 125 | 542 | 173 | 315 | 157 | 50 | 32 | 619 | 3,390 | 3,53 |
| 6,751 | 17,258 | 9,089 | 16,126 | 7,637 | 14,226 | 3,723 | 9,449 | 181,286 | 204,78 |
| 845 | 11,283 | 3,202 | 4,954 | 2,149 | 3,005 | 60 | 783 | 45,964 | 42,0 |
| 2,059 | 1,540 | 2,072 | 1,628 | 1,220 | 2,487 | 3,600 | 2,874 | 29,779 | 35,7 |
| 542 | 1,563 | 895 | 1,325 | 2,345 | 1,074 | 496 | 1,918 | 16,032 | 18,8 |
| 2,180 | 2,408 | 353 | 2,783 | 1,184 | 3,397 | 563 | 1,637 | 29,121 | 28,0 |
| 724 | 1,426 | 1,135 | 346 | 1,186 | 1,625 | 1,169 | 2,471 | 16,130 | 16,9 |
| _ | 2,441 | 967 | 2,203 | 230 | 1,041 | 920 | 1,351 | 14,759 | 15,9 |
| _ | 400 | 242 | 501 | 179 | 1,226 | 606 | 1,017 | 6,322 | 9,0 |
| _ | 1,638 | 435 | 333 | 160 | 523 | 131 | 1,324 | 6,628 | 6,2 |
| 222 | _ | 815 | 325 | 160 | _ | _ | 413 | 3,666 | 2,5 |
| 2,119 | _ | 3,537 | 1,564 | 1,309 | 715 | 929 | 1,179 | 24,463 | 21,5 |
| _ | _ | 173 | _ | 387 | _ | _ | _ | 3,164 | 5,39 |
| 9,307 | 368 | 1,083 | 23,864 | 11,860 | 16,471 | 6,552 | 16,727 | 166,492 | 164,13 |
| 24 | _ | 311 | 334 | 1,195 | _ | _ | _ | 3,333 | 3,82 |
| _ | 20,380 | _ | 558 | _ | 3,831 | 2,000 | _ | 39,322 | 39,7 |
| 2,310 | 1,153 | 55 | 2,333 | 2,698 | 4,007 | 477 | 67 | 29,082 | 30,2 |
| 29,807 | 73,870 | 45,513 | 73,262 | 55,540 | 63,321 | 21,416 | 43,583 | 785,000 | 824,45 |
| 11,704 | 9,608 | (1,339) | 1,471 | 3,343 | 2,855 | (394) | 13,576 | 47,823 | 17,54 |
| 20,231 | 13,643 | 9,540 | 5,563 | 12,672 | 9,692 | 21,201 | 150,045 | 356,695 | 339,14 |
| 31,935 | \$ 23,251 | | \$ 7,034 | \$ 16,015 | \$ 12,547 | \$ 20,807 | | \$ 404,518 | \$ 356,6 |



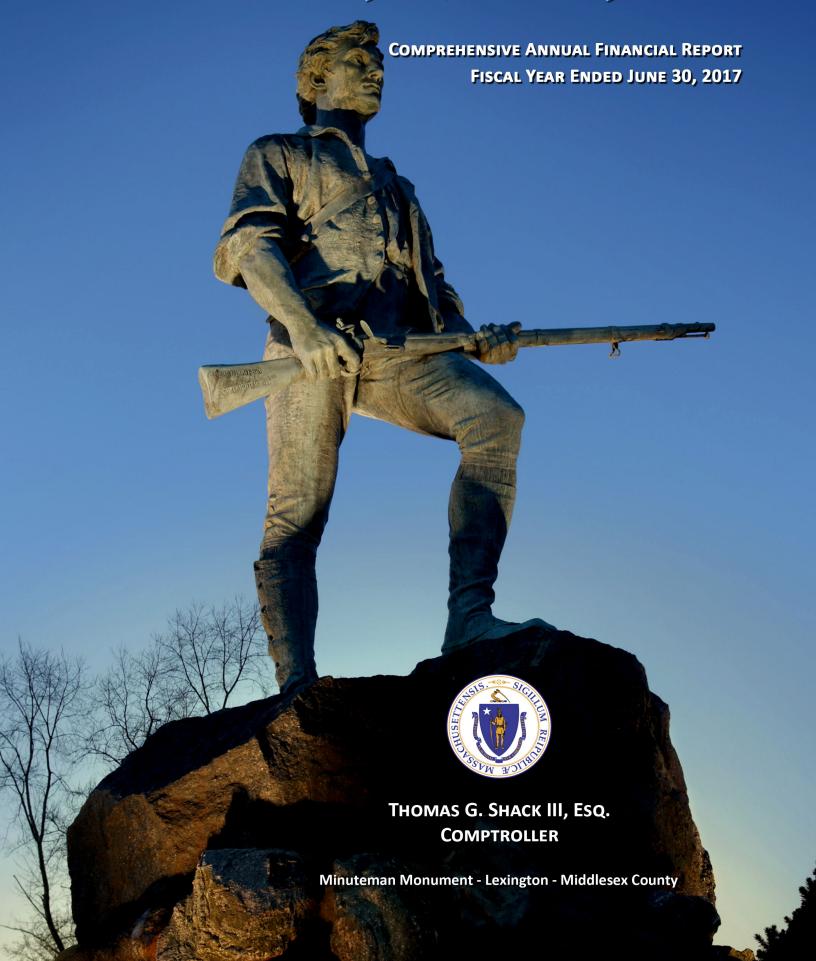
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Exhibit C



Commonwealth of Massachusetts



Commonwealth of Massachusetts



Comprehensive Annual Financial Report

For the Fiscal Year Ended June 30, 2017

Thomas G. Shack III, Esq. Comptroller of the Commonwealth

Prepared by
Financial Reporting and Analysis Team
Office of the Comptroller

This document is available at the Comptroller's website: www.macomptroller.org

| Minuteman Statue - Lexington - Middlesex County |
|---|
| The Lexington Minuteman is a life-size bronze figure of a colonial farmer with musket by Boston sculptor Henry H. Kitson. It stands at the southeast corner of the Lexington Battle Green, facing the route of the British advance. The statue was unveiled on April 19, 1900, the 125th anniversary of the battle. |
| Photo courtesy of Massachusetts Office of Travel and Tourism |
| |
| |
| |

Comprehensive Annual Financial Report For the Fiscal Year Ended June 30, 2017

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Introductory Section

(Unaudited)

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Constitutional Officers
Commonwealth Organizational Structure
Advisory Board to the Comptroller
Acknowledgements
Certificate of Achievement



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Thomas G. Shack III, Comptroller One Ashburton Place Boston. MA 02108

January 10, 2018

To the Citizens of the Commonwealth of Massachusetts, Governor Charles D. Baker and Honorable Members of the General Court

I am pleased to provide this Letter of Transmittal for the Commonwealth's fiscal year 2017 (FY17) Comprehensive Annual Financial Report (CAFR) prepared in accordance with Generally Accepted Accounting Principles (GAAP) in the United States of America. The objective of this report is to provide a clear financial picture of our government as a single, unified entity.

This document presents the Commonwealth's financial information on three bases of accounting, each serving a different purpose. The end portion of the report includes "required supplementary information" in the form of budgetary basis statements, which are prepared in accordance with the Commonwealth's budgetary or statutory basis of accounting and summarized by Commonwealth cabinet. This information is aggregated from FY17 line item appropriations, the legal level of budgetary control -- i.e., the level at which state departments cannot overspend their budgets without the approval of additional appropriations by the Massachusetts Legislature. More detailed information on the statutory basis of accounting and the results of operating on that basis from FY17 are found in the Statutory Basis Financial Report (SBFR) issued separately this past November. The SBFR documents compliance with the legislatively adopted budget at a fund level. Further documentation is found within the Commonwealth's accounting system, the Massachusetts Management Accounting and Reporting System (MMARS). Each state maintains different rules for budgetary reporting and therefore the SBFR should not be used for comparisons across states.

The CAFR's "fund perspective" statements present the governmental operations on a modified accrual basis of accounting. The fund perspective is designed to measure inter-period equity, the extent to which current resources (available within one year) fully fund all current services provided by the government. Long-term liabilities are excluded with the implicit assumption that future tax revenues will fund these liabilities as they come due. This fund perspective provides results similar to the SBFR.

In addition to the fund perspective, this CAFR presents a "government-wide" perspective. This perspective combines all governmental and business-type activities in a statement of net position and a statement of activities, presenting all functions on a full accrual basis of accounting. All capital assets are added to the government-wide statements, as are most long-term liabilities. Funds that are shown as fiduciary under the fund perspective are not portrayed in the government-wide statements, as the assets do not belong to the Commonwealth.

In the government-wide statements, the balance sheet has been organized into a "net position format." This format classifies all assets and liabilities as short and long-term and then subtracts liabilities from assets to arrive at net position.

The Commonwealth's government-wide revenues, expenses and activities are included in the statement of activities. The expenses of the Commonwealth, organized by function, are netted against fees, fines, grant revenues, and assessments generated to fund each function in an attempt to derive the net cost to the taxpayer of each function. This format allows the reader of the financial statements to discern the net cost of a particular function of government funded by taxation and other general revenues.

This CAFR is presented in three sections: **Introductory**, **Financial**, and **Statistical**. The **Introductory Section** contains an overview of current initiatives and summary financial data. The **Financial Section** contains the Management's

Discussion and Analysis (MD&A) and the Commonwealth's Basic Financial Statements. GAAP requires that management provide a narrative overview and analysis in the form of an MD&A to accompany the basic financial statements.

This letter of transmittal is designed to complement the MD&A, where the financial analysis is presented. The Commonwealth's MD&A can be found immediately following the independent auditors' report. The **Statistical Section** contains selected financial and demographic information; it also contains background information on the Commonwealth.

PROFILE OF THE COMMONWEALTH

The Commonwealth of Massachusetts was the sixth of the original 13 colonies to ratify the United States Constitution, joining the United States on February 6, 1788. Boston, the capital of the Commonwealth since its founding, dates from 1630. The Commonwealth has an area of 8,257 square miles. Geographically, the Commonwealth includes 351 cities and towns. The largest city is the capital, Boston. Employment is largely in the education, health services, wholesale and retail trade, financial, and public sectors. Due to the Commonwealth's high levels of basic and advanced education and the presence of world-class educational institutions, the Commonwealth's economy is driven in large part by innovation in high technology, life sciences, health care, and business services.

The Massachusetts Constitution was ratified in 1780 while the Revolutionary War was still in progress, nine years before the United States Constitution was adopted, and is the oldest written Constitution now in use. It specified three branches of Government: Legislative, Executive, and Judicial. "The Great and General Court," elected every two years, is made up of a Senate of 40 members and a House of Representatives of 160 members. It is the second oldest democratic deliberative body in the world.

The table on page 3 reconciles the fund balances on three bases of accounting: the statutory basis presented in separately issued financial statements this past November; the fund basis; and the entity-wide basis statements, the latter two of which are included in this report.

Governmental Funds - Statutory to GAAP - Fund Perspective and to Governmental Net Position (Amounts in millions)

| Governmental Funds - Statutory Basis, June 30, 2017 | | | |
|--|------------|----|------------|
| Budgeted fund balance | \$ 1,447.7 | | |
| Non-budgeted special revenue fund balance | 1,891.3 | | |
| Capital projects fund balance | 150.6 | | |
| | | ф | 2.400 < |
| Governmental Fund Balance - Statutory Basis, June 30, 2017 | | \$ | 3,489.6 |
| Plus: Expendable Trust and Similar Fund Statutory balances that are | | | - 10 - |
| considered Governmental Funds for GAAP reporting purposes | | | 640.6 |
| Less: Massachusetts Department of Transportation Funds. | | | (1,191.4) |
| Adjusted Statutory Governmental fund balance | | | 2,938.8 |
| Short term accruals, net of allowances and deferrals for increases /(decreases): | | | |
| Taxes, net of refunds and abatements | 1,697.3 | | |
| Tobacco Settlement Agreement receivable | 125.6 | | |
| Medicaid | (559.5) | | |
| Other short term accruals: | | | |
| Assessments and other receivables | 213.1 | | |
| Amounts due to authorities and municipalities, net | (606.8) | | |
| Claims, judgments and other risks | (12.5) | | |
| Amounts due to health care providers and insurers | (43.7) | | |
| Workers' compensation and group insurance | (154.2) | | |
| Compensated absences | (11.1) | | |
| Other accruals, net | 297.3 | | |
| Net increase to governmental fund balances | 945.5 | | |
| Massachusetts School Building Authority fund balance | 1,712.6 | | |
| Total changes to governmental funds | | | 2,658.1 |
| Total changes to governmental funds | | | 2,030.1 |
| Governmental fund balance (fund perspective) | | | 5,596.9 |
| ` . , , , , , , , , , , , , , , , , , , , | | | , |
| Plus: Capital assets including infrastructure, net of accumulated depreciation | | | 4,793.1 |
| Deferred revenue, net of other eliminations | | | 655.1 |
| Long term accruals: | | | |
| Net pension liability | | | (36,941.9) |
| Net deferred (inflows) / outflows of resources related to pension | | | 8,002.2 |
| Post employment benefits other than pensions cumulative over / (under) funding | | | (7,581.0) |
| Environmental remediation liability | | | (533.1) |
| Massachusetts School Building Authority debt and school construction payables | | | (7,540.9) |
| Long term debt, unamortized premiums and net deferrals on debt refundings | | | (28,438.2) |
| Compensated absences | | | (593.2) |
| Capital leases | | | (30.9) |
| Accrued interest on bonds | | | (388.8) |
| Other long term liabilities | | | (386.3) |
| | | | (500.5) |
| Total governmental net position (entity wide perspective) | | \$ | (63,387.0) |

The deficit of \$63.387 billion in governmental activities net position is largely attributable to two factors: first, the Commonwealth's policy decision to finance the construction of assets owned by other government entities, particularly Commonwealth roads and bridges, which as a result of transportation reform completed during FY10 shifted these assets from the books of the Commonwealth to the Massachusetts Department of Transportation (MassDOT), a component unit of the Commonwealth; and second, the Commonwealth's net (or unfunded) pension liability, that

starting in FY15 has been placed on the Commonwealth's books in accordance with GASB Statement No. 68, Accounting and Financial Reporting for Pensions. At the end of FY17, MassDOT held \$34.944 billion in road, bridge, and other transportation-related assets (excluding assets of the Massachusetts Bay Transportation Authority) net of related depreciation, the vast majority of which were formerly held by the Commonwealth. The Commonwealth also has financed significant transportation and non-transportation assets currently held by Massachusetts Institutions of Higher Education, Massachusetts cities and towns, and quasi-public authorities. While the exact amount of Commonwealthfunded assets held by these entities is difficult to determine, between FY05 and FY17 the Commonwealth's capital spending on Higher Education capital projects totaled approximately \$1.8 billion, capital spending for transportationrelated financial assistance to local governments totaled approximately \$3.0 billion, and other grants and financial assistance for non-Commonwealth entities such as cities and towns and quasi-public authorities funded through the Commonwealth's capital budget totaled \$4.7 billion, including \$1.0 billion to fund the Massachusetts School Building Authority (MSBA) in FY05 and FY06. In addition, the Commonwealth has a net liability of \$5.743 billion for debt and grant obligations for the School Building Assistance Program that finances construction of schools for the Commonwealth's cities and towns. As almost all of this capital spending was financed by Commonwealth debt, the liabilities are retained by the Commonwealth while the assets are held by the Institutions of Higher Education, Massachusetts cities and towns, and entities such as local housing and other quasi-governmental authorities.

Since MassDOT ended FY17 with a positive net position of \$26.488 billion, it is more informative to view the Commonwealth's financial statements in combination with MassDOT than to analyze the two separately, while also keeping in mind that significant assets owned by the Institutions of Higher Education and local governments and authorities were financed by liabilities still on the Commonwealth's books.

As mentioned above, GASB 68 required that the Commonwealth's net pension liability, or NPL, be recorded on the Commonwealth's books for the first time in FY15. The FY17 NPL for the Commonwealth totaled \$37.680 billion, offset by GASB 68 related adjustments (in the form of deferred inflows and outflows) of \$8.200 billion; resulting in a reduction of net position of \$29.480 billion.

The net deficit in governmental activities (which excludes "business-type activities" of Unemployment Insurance and Higher Education) increased by \$4.747 billion between June 30, 2016 and June 30, 2017. Virtually all growth in the net deficit was due to the following three factors:

- The Commonwealth's net pension liability, after taking into account deferrals of FY17 investment gains and other adjustments that will be recognized over the next several years, grew by \$2.109 billion, primarily due to a reduction, from 7.75%, to 7.50%, in the rate used to discount liabilities, and incorporation of the assumption that retirees are living longer.
- Until FY08, the Commonwealth had funded its retiree health insurance benefits (Other Post-Employment Benefits, or OPEB) entirely on a pay-as-you-go basis, and since then has only partially met the annual required contribution (ARC) for those benefits, including in FY17. As a result, the change in the accrual was \$1.115 billion in FY17, reducing net position; cumulative OPEB underfunding is \$7.581 billion. However, the Commonwealth has dedicated payments from the Master Settlement Agreement with tobacco companies to fund its OPEB liability. These payments are being phased in over ten years, until per statute they should reach approximately \$250 million annually by FY23, although the statutorily-required payments were frozen at approximately \$25 million in FY17 and FY18.

Beginning with the FY18 CAFR, GASB requirements (under Statement No. 75) mandate that the full amount of the net (or unfunded) OPEB liability be recorded in the Commonwealth's Statement of Net Position. As a result of this change, the primary government's net OPEB liability will increase from the FY17 amount of \$7.581 billion to \$19.775 billion, as shown in Note 10 of this report.

As explained on page 3, the Commonwealth continues to fund, through its own debt, transportation-related assets owned by the Massachusetts Department of Transportation (MassDOT), Institutions of Higher Education, cities and towns and quasi-public authorities. In FY17, approximately \$2.029 billion of the more than \$2.652 billion in state-funded capital spending generated assets not owned by the Commonwealth, including \$1.291 billion in transportation spending (more than \$336 million of which were grants and other financial assistance to cities and towns), \$189 million for Institutions of Higher Education (which are attributed to the Commonwealth's business-type activities), and approximately \$327 million in other capital grants and financial assistance to local governments and quasi-public entities. As a result of this capital spending on assets

owned by entities other than the Commonwealth, the amount of amount of debt outstanding increased by \$1.992 billion but Commonwealth fixed assets net of depreciation grew by only \$49 million.

The net deficit in government-wide activities, which includes the Commonwealth's business-type as well as governmental activities, increased by \$4.401 billion from FY16, with the deficit in governmental activities partially offset by surpluses in Higher Education.

The Commonwealth engages in multi-year financial planning in several areas, including the adoption of a statutorily required triennial pension funding schedule (which is funded prior to the adoption of each year's annual budget), a five year capital spending plan, and a multi-year debt issuance planning process via a Debt Affordability Committee established in statute, comprised of Massachusetts government and non-government financial experts. The Commonwealth's short and long-term goal is to achieve annual statutory structural budget balance, i.e., where annual revenues equal or exceed annual expenditures, thus minimizing the use of one-time resources. A related goal is to limit the growth in state expenditures to increases in budgeted revenues. The current Administration has also committed to a policy of annual increases in unrestricted aid to cities and towns equal to the growth in projected budgetary fund tax revenues.

REPORTING ENTITY

The financial statements incorporate activity from over 150 departments. These departments include the various agencies, boards, and commissions, the 25 Institutions of Higher Education, the judicial and legislative branches of government, and constitutional offices. The departments record their daily financial operations in the state accounting system, MMARS, operated by the Office of the Comptroller.

In addition, the financial statements include 40 independent public authorities. These entities are defined as component units and meet the criteria for inclusion in the Commonwealth's reporting entity in accordance with GAAP. They are further described in Note 14 to the basic financial statements. The Massachusetts School Building Authority (MSBA) is blended into the Commonwealth's operations.

INDEPENDENT AUDIT

The Commonwealth's independent auditors, KPMG LLP, have performed an independent audit of the Commonwealth for the fiscal year ended June 30, 2017. The <u>independent auditors' report</u> is presented in the Financial Section.

The Office of the Comptroller prepares these financial statements and is responsible for the completeness and reliability of the information presented in this report. To provide a reasonable basis for making these representations, the Office of the Comptroller, working in conjunction with the State Auditor, has established a comprehensive internal control framework that is designed to protect the Commonwealth's assets from loss, theft, or misuse and to compile sufficient reliable information for the preparation of the Commonwealth's financial statements in conformity with GAAP. Because of the cost, internal controls should not outweigh their benefits. The Commonwealth's comprehensive framework of internal controls has been designed to provide reasonable, rather than absolute assurance that the financial statements will be free from material misstatement.

I would like to express my sincere thanks to the dedicated employees of the Office of the Comptroller, and in particular Deputy Comptrollers Chris Guido, Jenny Hedderman, Howard Merkowitz, Jeff Shapiro, and Kathy Sheppard, whose tireless efforts serve the people of the Commonwealth well on a daily basis. I am proud to have them all on my team as we embark on another year of innovation within the Comptroller's Office and establish a model for good governance nationwide.

Respectfully submitted,

Thomas G. Shack III Comptroller of the Commonwealth

CONSTITUTIONAL OFFICERS

Charles D. Baker *Governor*

Karyn E. Polito Lieutenant Governor

William F. Galvin Secretary of State

Maura Healey
Attorney General

Deborah B. Goldberg
Treasurer and Receiver-General

Suzanne Bump *Auditor*

LEGISLATIVE OFFICERS

Harriette L. Chandler *Acting Senate President*

Robert A. DeLeo Speaker of the House

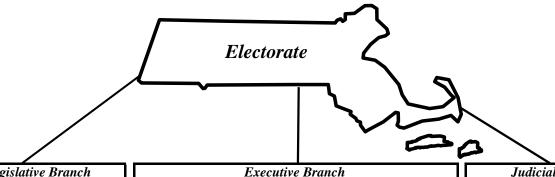
JUDICIAL OFFICERS

Ralph D. Gants
Chief Justice, Supreme Judicial Court

Mark Green
Chief Justice, Appeals Court

Jonathan Williams
Court Administrator, Trial Court

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Legislative Branch

House of Representatives Senate

Governor and Lieutenant Governor State Auditor

Governor's Council Secretary of the Commonwealth Attorney General Treasurer and Receiver-General

Sheriffs District Attorneys

Independent Offices and Commissions*

Judicial Branch

Supreme Judicial Court Appeals Court Trial Court

Committee for Public Counsel

Board of Bar Examiners

Commission on Judicial Conduct

Mental Health Legal Advisors

Executive Branch Independent Offices and Commissions*

Board of Library Commissioners Campaign and Political Finance

Center for Health Information & Analysis Commission Against Discrimination University of Massachusetts System

Commission on the Status of Women Disabled Persons Protection Commission Massachusetts Gaming Commission Office of the Child Advocate

Office of the Comptroller Office of the Inspector General State Ethics Commission

State Retiree Benefits Trust Fund Board

Executive Departments Under Gubernatorial Authority

Administration and Finance

Executive Office for Administration and Finance

Appellate Tax Board Bureau of the State House Civil Service Commission Department of Revenue

Developmental Disabilities Council Division of Administrative Law Appeals

Division of Capital Asset Management

and Maintenance

George Fingold Library

Group Insurance Commission

Health Policy Commission

Human Resource Division

Massachusetts Office on Disability

Massachusetts Office of

Information Technology

Massachusetts Teachers' Retirement System

Operational Services Division Public Employee Retirement

Administration Commission

Education

Executive Office of Education

Department of Early Education and Care

Department of Elementary and

Secondary Education

Department of Higher Education

Community Colleges State Universities

Housing and Economic Development

Executive Office of Housing and Economic

Development

Department of Business Development

Office of Consumer Affairs & Business

Regulations

Massachusetts Marketing Partnership

Department of Housing & Community Development

Department of Telecommunications

and Cable

Division of Banks

Division of Insurance

Division of Professional Licensure

Division of Standards

Energy and Environmental Affairs

Executive Office of Energy and Environmental

Affairs

Department of Agricultural Resources

Department of Conservation and Recreation

Department of Energy Resources

Department of Environmental Protection

Department of Fish and Game

Department of Public Utilities

State Reclamation Board

Transportation and Public Works

Executive Office of Transportation and Public Works

Executive Office of Labor and Workforce

Development

Health and Human Services

Executive Office of Health and

Human Services

Executive Office of Elder Affairs

Department of Children and Families

Department of Developmental Services

Department of Mental Health

Department of Public Health

Department of Transitional Assistance

Department of Veterans' Services

Department of Youth Services

Massachusetts Commission for the Blind

Massachusetts Commission for the Deaf

and Hard of Hearing

Massachusetts Rehabilitation Commission

Office for Refugees and Immigrants

Soldiers' Home, Holyoke

Soldiers' Home, Massachusetts

Executive Office of Public Safety and Security

Chief Medical Examiner

Department of Criminal Justice Information Services

Department of Correction

Department of Fire Services

Department of State Police

Massachusetts Emergency Management Agency

Military Division/ Massachusetts National Guard

Municipal Police Training Committee Parole Board

Sex Offender Registry

ADVISORY BOARD TO THE COMPTROLLER

Michael J Heffernan (Chair)
Secretary of Administration and Finance

Suzanne Bump *Auditor*

Deborah B. Goldberg

Treasurer and Receiver-General

Jonathan Williams Chief Administrator, Trial Court

> Maura Healey Attorney General

Michael Esmond Gubernatorial Appointee

REPORT PREPARED BY:

Howard Merkowitz

Deputy Comptroller

Statewide Financial Reporting and Analysis

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Director

Pauline Lieu, CPA, CFE, CGFM Deputy Director

Mayowa Taiwo, CPA

Accountant

Christine Bender *Accountant*

Paul O'Leary *Accountant*

Craig Delmonte

Accountant

Wagdy Rizk Accountant

Steve Kiander, CPA Accountant

Cathy Hunter Program Coordinator

Statewide General Accounting

Tim O'Neill Acting Director, General Accounting

Statewide Department Assistance

Scott Olsen
Director, Department Assistance



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For its Comprehensive Annual Financial Report for the Fiscal Year Ended

June 30, 2016

Jeffry P. Ener

Executive Director/CEO



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Financial Section

Independent Auditors' Report
Management's Discussion and Analysis
Basic Financial Statements
Notes to the Basic Financial Statements
Required Supplementary Information Other Than Management's Discussion and Analysis
Other Supplementary Information



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KPMG LLP Two Financial Center 60 South Street Boston, MA 02111

Independent Auditors' Report

Mr. Thomas G. Shack III, Comptroller The Commonwealth of Massachusetts Boston, Massachusetts

Report on the Financial Statements

We have audited the accompanying financial statements of the governmental activities, the business-type activities, the aggregate discretely presented component units, each major fund, and the aggregate remaining fund information of the Commonwealth of Massachusetts (the Commonwealth), as of and for the year ended June 30, 2017, and the related notes to the financial statements, which collectively comprise the Commonwealth's basic financial statements as listed in the accompanying table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We did not audit the financial statements of the Massachusetts School Building Authority which is a major governmental fund and represents 7.3% of the total assets and deferred outflows of the governmental activities. Additionally, we did not audit the financial statements of the University of Massachusetts, the State Universities and the Community Colleges all of which are major enterprise funds and represent 87.6% of the total assets and deferred outflows of the business-type activities. Further, we did not audit the financial statements of the nonmajor component units, which represent 7.6% of the total assets and deferred outflows of the aggregate discretely presented component units. Those financial statements were audited by other auditors, whose reports thereon have been furnished to us, and our opinions, insofar as they relate to the amounts included for those entities, is based solely on the reports of the other auditors. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. The financial statements of certain entities identified in Note 14 of the basic financial statements were not audited in accordance with *Government Auditing Standards*.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.



We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, based on our audit and the reports of other auditors, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, the aggregate discretely presented component units, each major fund, and the aggregate remaining fund information of the Commonwealth of Massachusetts as of June 30, 2017, and the respective changes in financial position, and where applicable, cash flows thereof for the year then ended in accordance with U.S. generally accepted accounting principles.

Emphasis of Matters

As discussed in Note 1 to the basic financial statements, in fiscal year 2017, the Commonwealth adopted the provisions of Governmental Accounting Standard Board (GASB) Statement No. 74, *Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans* and GASB Statement No. 77, *Tax Abatement Disclosures*. Our opinions are not modified with respect to these matters.

Other Matters

Required Supplementary Information

U.S. generally accepted accounting principles require that the management's discussion and analysis and required supplementary information, as listed in the accompanying table of contents (collectively referred to as RSI) be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the RSI in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Supplementary and Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Commonwealth's basic financial statements. The introductory section, other supplementary information and statistical section as listed in the accompanying table of contents are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The other supplementary information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the other supplementary information is fairly stated in all material respects in relation to the basic financial statements as a whole.

The introductory and statistical sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on them.



Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated January 10, 2018 on our consideration of the Commonwealth's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Commonwealth's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Commonwealth's internal control over financial reporting and compliance.



January 10, 2018



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Management's Discussion and Analysis (Unaudited)

Financial Highlights - Primary Commonwealth Government

Government-Wide Highlights

This analysis, prepared by the Office of the Comptroller, offers readers of the Commonwealth's financial statements a narrative overview of the activities of the Commonwealth for the fiscal year ended June 30, 2017 (FY17). We encourage readers to consider this information in conjunction with the additional information that is furnished in the letter of transmittal and with the Commonwealth's financial statements, which follow. This analysis is required by the Governmental Accounting Standards Board (GASB), which provides preparers with guidelines on what must be included in and excluded from this analysis.

Net Position – The liabilities and deferred inflows of resources of the primary government exceeded its assets and deferred outflows of resources at the end of FY17 by almost \$57.305 billion, an increase in the net deficit of \$4.401 billion from FY16.

Of the \$57.305 billion deficit, "unrestricted net position" has a deficit of \$63.270 billion and there is a \$2.303 billion positive balance attributable to net investment in capital assets. There are five primary reasons for the negative unrestricted net position:

- 1. With the implementation of Governmental Accounting Standards Board (GASB) Statement No. 68, Accounting and Financial Reporting for Pensions—an amendment of GASB Statement No. 27, which was effective starting in FY15, the Commonwealth was required to place on its books the full amount of its unfunded pension liability (known as the "net pension liability"), which totaled \$37.680 billion as of June 30, 2017.
- 2. The Commonwealth has a net liability of \$5.743 billion for its share of the construction costs of schools owned and operated by municipalities through the Massachusetts School Building Authority (MSBA);
- 3. In FY10, the Commonwealth implemented transportation reform, which created the Massachusetts Department of Transportation (MassDOT) and transferred to that entity virtually all highway and bridge assets of the Commonwealth totaling approximately \$15.521 billion, as of the date of the transfer, net of depreciation. These and subsequently constructed road and bridge assets were valued at \$34.944 billion as of June 30, 2017. However, the Commonwealth originally paid and continues to pay for the construction of these assets and retains approximately \$12.466 billion in transportation-related debt, which is now unrelated to any capital asset owned by the Commonwealth.
- 4. The Commonwealth, through debt issuances, also pays for non-transportation capital assets held by quasipublic entities and local governments and housing authorities.
- 5. Until FY08, the Commonwealth had funded its retiree health insurance benefits (Other Post-Employment Benefits, or OPEB) entirely on a pay-as-you-go basis, and since then has only partially met the annual required contribution (ARC) for those benefits. As a result, as of June 30, 2017, it had accumulated a \$7.581 billion liability for OPEB.

At the end of FY17, the Commonwealth also held \$3.662 billion in "restricted net position", which are assets restricted primarily for payment of debt service, unemployment insurance benefits, and the Institutions of Higher Education. Approximately \$1.473 billion in restricted net position balances were set aside for unemployment benefits, an additional \$1.021 billion was restricted for debt retirement (of which \$913 million was restricted for MSBA debt retirement), \$262 million was restricted for Higher Education, and \$905 million was restricted for other governmental purposes.

The Commonwealth's governmental activity (which excludes the "business-type activities" of the Institutions of Higher Education and Unemployment Insurance) net deficit increased by \$4.747 billion, to \$63.387 billion, and its governmental activities unrestricted net deficit increased by approximately \$4.881 billion, to \$63.993 billion in as of June 30, 2017.

Total revenues of the primary government increased by \$468 million, or 0.8% in FY17, to \$58.637 billion. Total expenses of the primary government increased by \$1.526 billion, or approximately 2.5%, to \$63.038 billion. Detail on revenue and expenses can be found on pages 24–28.

The net position of business—type activities increased by \$346 million, due to a surplus of approximately \$351 million in Higher Education activity and a deficit of \$5 million in the Unemployment Insurance program.

On a "funds perspective" basis, at June 30, 2017, the Commonwealth's governmental funds reported a combined ending fund balance of \$5.597 billion, an increase of \$324 million from June 30, 2016. Of the ending balances:

- There are no nonspendable balances, \$1.927 billion is restricted, \$2.351 billion is committed, \$685 million is assigned and \$634 million is unassigned fund balance (a full discussion of these classifications is included in Note 1 to the basic financial statements, on pages 69–71).
- The MSBA's fund balance of \$1.713 billion is blended with the Commonwealth. Within this fund balance is \$1.216 billion in cash and restricted investments, which resulted primarily from the issuance of debt in FY17 and previous fiscal years, less approximately \$45 million in liabilities. In FY17, \$818 million was dedicated to the MSBA from Commonwealth sales taxes, and the MSBA issued \$594 million in long-term dedicated sales tax bonds, of which \$189 million refunded already outstanding debt and \$405 million was new money bonds.

Other highlights of FY17 financial operations include:

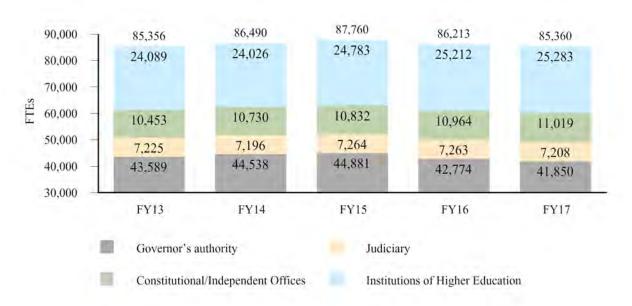
- Tobacco settlement proceeds for the year were approximately \$254 million on a GAAP basis, a decrease of approximately \$8 million from FY16. Approximately \$126 million has been reported as a receivable in the governmental funds, equal to half of the anticipated tobacco settlement proceeds to be received in FY18. In FY17 approximately \$25 million, or the equivalent of 10% of tobacco settlement proceeds, was transferred to the State Retiree Benefits Trust Fund (SRBTF) to fund the Commonwealth's liability for retiree health care. Per statute, the proportion of tobacco settlement revenues transferred to the SRBTF increases annually until an amount equal to 100% of the tobacco settlement proceeds is to be transferred to the SRBTF in FY23, although the requirement to transfer increasing percentages of tobacco settlement proceeds was suspended for FY17 and FY18 and the required percentage reduced to 10% for both years.
- During the fiscal year, the Commonwealth passed or agreed to terms of approximately \$1.893 billion in bond authorizations. There were no bond de-authorizations of previously approved capital appropriations during the fiscal year. The Commonwealth determines the timing and extent of capital spending and bonding as part of its five-year capital plan.
- Lottery revenues for FY17 were \$5.259 billion, a decrease of approximately \$148 million, or 2.7%, from FY16. Prizes were approximately \$4.123 billion. Lottery profits, after deducting administrative expenses and fringe benefit charges to reimburse the Commonwealth's General Fund for pension and employee health insurance benefits, but prior to distributions to reimburse the Massachusetts Cultural Council and compulsive gamblers appropriation as mandated in the FY17 budget, totaled \$1.041 billion an increase of \$53 million, or 5.3%, from FY16. Mandated transfers to the General Fund to reimburse it for administrative expense appropriations and other spending totaled \$1.137 billion.

Full-Time Equivalent Employment

The chart on the following page shows the Commonwealth's full-time equivalent employment, including the Massachusetts Department of Transportation (MassDOT) for all state funding sources (budgetary, non-budgetary, capital, federal, and trust) over the past five fiscal years. In FY17, the number of Commonwealth employees decreased by a net of approximately 853 full-time equivalent employees (FTEs), to a total of 85,360. The largest decreases were in MassDOT (approximately 522 FTEs) and the Department of Corrections (approximately 262 FTEs).

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Full Time Equivalent Workforce Including Higher Education June 2013 – June 2017



OVERVIEW OF THE FINANCIAL STATEMENTS

This MD&A is intended to serve as an introduction to the Commonwealth's basic financial statements. The Commonwealth's basic financial statements comprise the following: 1) government-wide financial statements; 2) fund financial statements; and 3) notes to the financial statements. This report also contains additional required supplementary information in the form of budgetary schedules, which are prepared on the statutory basis of accounting, as well as pension and other post-employment benefits (OPEB) funding schedules. Other supplementary information is also provided to furnish additional detail to support the basic financial statements.

Government-Wide Financial Statements

The government-wide financial statements present the reader with a broad overview of the Commonwealth's finances in a manner similar to a private sector business. The statements include the <u>Statement of Net Position</u>, which presents the assets and deferred outflows of resources, liabilities and deferred inflows of resources and net position for the government as a whole. Also presented is the <u>Statement of Activities</u>, which presents the functional expenses, offsetting revenues and changes in net position of the Commonwealth. The statements report the Commonwealth's net position and changes in net position. An increase or decrease in the Commonwealth's net position is one way to measure financial health as well as the trend of increases or decreases over time. Non-financial measures such as the types of capital investments, changes in taxation, population, employment and economic conditions are also indicators of the overall health of any government.

Both the statement of net position and the statement of activities have separate sections for three different categories of the Commonwealth's operations. These activities are Governmental Activities, Business-type Activities, and Discretely Presented Component Units. Governmental activities are where the Commonwealth's basic services are reported. Business-type activities are those for which fees are charged for particular services. For the Commonwealth, business-type activities comprise the unemployment insurance compensation system and the Institutions of Higher Education. The component units are separate legal entities that are included in this report due to the nature of their governance and financial relationship with the Commonwealth.

The government-wide financial statements can be found on pages 38-41 of this report.

Fund Financial Statements and Component Unit Financial Statements

Funds are groups of related accounts that are used to maintain control over resources that have been segregated for specific activities or objectives. The Commonwealth, like other governments, uses fund accounting to ensure and demonstrate compliance with finance-related legal requirements. Within the funds, budgetary compliance is demonstrated at the appropriation level for budgeted expenditures.

Only the major funds are shown separately in the fund financial statements, with the remaining funds aggregated and reported as nonmajor funds.

Fund financial statements focus on individual parts of the Commonwealth, reporting its operations in more detail than the government—wide statements. The Commonwealth's funds can be divided into three categories: <u>Governmental Funds</u>, <u>Proprietary Funds</u>, and <u>Fiduciary Funds</u>. It is important to realize that these fund categories use different bases of accounting and should be interpreted differently. Further discussion of the funds can be found in the section "Financial Analysis of the Commonwealth's Funds" and in <u>Note 1</u> to the basic financial statements.

Component unit financial statements are presented for entities where the Commonwealth has financial accountability, but the entities are independent of the core Commonwealth operations. Most component units operate similar to private-sector businesses.

Although the Massachusetts School Building Authority (MSBA) is a component unit, the MSBA's operations have been determined by management to operate in a similar fashion to a Commonwealth department due to the MSBA's service to the Commonwealth and because it relies on a pledged portion of the Commonwealth's sales tax revenue to fund its debt service. In FY05, legislation changed the funding of school construction from a direct appropriation of the Commonwealth to a dedicated portion of the sales tax allocated to the MSBA. Because of the nature of transactions between the Commonwealth and this authority, per GASB <u>Statement No. 39</u>, <u>Determining Whether Certain Organizations Are Component Units</u> as amended by <u>GASB Statement No. 61</u>, <u>The Financial Reporting Entity: Omnibus</u>, the authority's operations are reported within a governmental fund as a "blended component unit" and on the government—wide financial statements.

Notes to the Financial Statements, Required Supplementary Information and Other Supplementary Information

The notes to the financial statements provide additional information that is essential to a full understanding of the financial statements as of the date provided in the government—wide and the fund financial statements. The notes to the financial statements can be found on pages 63–136.

The required supplementary information section includes a budgetary comparison schedule for the General Fund, along with a reconciliation comparing the original General Appropriation Act and supplemental appropriations to actual budgetary spending. A variance column is also provided. A further reconciliation schedule of the budgeted revenues and expenses to governmental fund perspective revenues and expenditures for the General Fund is also provided. Required pension and OPEB schedules are also presented in this section.

Other supplementary information is not required, but is included to present combining schedules of various nonmajor funds and component units.

GOVERNMENT-WIDE ANALYSIS

The primary government's combined net position (governmental and business-type activities) showed a net deficit of \$57.305 billion at the end of FY17, an increase in the net deficit of \$4.401 billion from the end of FY16. Governmental activities unrestricted net position is negative by \$63.993 billion. As explained previously, in addition to the \$37.680 billion government-wide net pension liability recorded on the Commonwealth's books, a substantial portion of this deficit is a result of programs where the Commonwealth has funded assets owned by political subdivisions of the Commonwealth (in particular the result of the transfer of assets to MassDOT during FY10), as well as continued borrowing by the Commonwealth that funds, through its capital budget and debt issuance, construction of new assets owned by MassDOT, local governments, and local authorities. MassDOT reports its capital assets on its financial statements, which are incorporated into the Commonwealth's financial statements similarly to other component units.

Major Long – Term Obligations for Assets of Political Subdivisions (amounts in thousands)

| Massachusetts School Building Authority net deficit | \$ 5,742,709 |
|--|------------------|
| Outstanding bonds issued to fund the MBTA | 207 |
| Debt related to MassDOT assets | 12,466,359 |
| Effect on unrestricted net position of item unique to the Commonwealth | \$ 18,209,275 |

Of the Commonwealth's approximately \$2.652 billion in FY17 state funded capital spending, about \$2.029 billion did not result in capital assets attributed to governmental activities of the Commonwealth, including approximately \$1.291 billion in transportation spending (with \$336 million in grants and other financial assistance to cities and towns), \$189 million for Institutions of Higher Education (which are included in the Commonwealth's business-type activities) and approximately \$327 million in other capital grants and financial assistance to local governments and quasi-public entities. Between FY05 and FY17 the Commonwealth's capital spending on projects owned by non-Commonwealth entities or by the Institutions of Higher Education totaled \$21.120 billion. These include Higher Education capital projects totaling approximately \$1.813 billion, capital spending for transportation projects now owned by the Massachusetts Department of Transportation totaling approximately \$10.792 billion, transportation-related financial assistance to local governments totaling more than \$3.045 billion and other grants and financial assistance for non-Commonwealth entities such as cities and towns and quasi-public authorities funded through the Commonwealth's capital budget of almost \$4.667 billion, including \$1 billion in FY05 and FY06 to capitalize the Massachusetts School Building Authority.

The Commonwealth also funds school construction through debt issued by the MSBA (beyond its initial \$1 billion capitalization), and includes the MSBA's debt on its statement of net position, but the assets paid for with that debt are owned by Massachusetts cities, towns, and school districts.

Current assets and liabilities are amounts that are available in the current period and obligations that will be paid within one year of the financial statement date, respectively. As of June 30, 2017, the Commonwealth's government-wide current cash and cash equivalents totaled \$4.322 billion, an increase of \$170 million from June 30, 2016. Total current assets were \$11.980 billion, an increase of \$657 million from June 30, 2016. As of June 30, 2017, the Commonwealth's current liabilities were \$9.966 billion, an increase of \$187 million from June 30, 2016.

As of June 30, 2017, the primary government's non-current assets totaled \$17.850 billion, an increase of \$596 million from June 30, 2016. This increase was due mainly to a \$472 million increase in capital assets, the majority of which occurred in business-type of activities, as the result of increases in assets recorded by the Institutions of Higher Education.

The Commonwealth holds \$12.404 billion in traditional capital assets such as land, construction in process, buildings, infrastructure, and equipment, net of accumulated depreciation. GASB requires the reporting of the value of investments in the Commonwealth's infrastructure, including roads, bridges, beaches, dams and other immovable assets on the face of the Commonwealth's financial statements. As these assets provide services to citizens, they are not available to finance future spending unless they are sold. Although the Commonwealth's investment in its capital assets is also reported net of related debt, it should be noted that the resources needed to repay this debt must be provided from other sources, since the capital assets themselves cannot be used to liquidate these liabilities.

The table on page 24 shows the Commonwealth's net position. Restricted net position represents resources that are subject to external constraints.

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Net Position as of June 30, 2017 and 2016 (in thousands of dollars)

| | Government | al Activities | | Busin | ess-Ty | pe A | ctivities | | Total Primary | Go | vernment |
|--|-----------------|---------------|-------|------------|--------|------|-------------|----|---------------|----|--------------|
| | June 30, 2017 | June 30, 20 | 016 | June 30, 2 | 2017 | Ju | ne 30, 2016 | Ju | ine 30, 2017 | Jı | une 30, 2016 |
| Current assets | \$ 10,199,139 | \$ 9,554 | ,420 | \$ 1,780 | 0,484 | \$ | 1,768,448 | \$ | 11,979,623 | \$ | 11,322,868 |
| Non-capital non-current assets | 2,823,600 | 2,724 | ,615 | 2,62 | 1,920 | | 2,597,073 | | 5,445,520 | | 5,321,688 |
| Capital assets | 4,793,086 | 4,743 | ,718 | 7,610 | 0,936 | | 7,188,135 | | 12,404,022 | _ | 11,931,853 |
| Total assets | 17,815,825 | 17,022 | ,753 | 12,013 | 3,340 | | 11,553,656 | | 29,829,165 | _ | 28,576,409 |
| Deferred outflows of resources | 8,646,181 | 7,257 | ,284 | 43° | 7,529 | | 458,721 | | 9,083,710 | _ | 7,716,005 |
| Total assets and deferred outflows | 26,462,006 | 24,280 | ,037 | 12,450 | 0,869 | _ | 12,012,377 | _ | 38,912,875 | | 36,292,414 |
| Current liabilities | 8,971,117 | 8,625 | ,845 | 994 | 4,622 | | 1,153,151 | | 9,965,739 | | 9,778,996 |
| Long term liabilities | 80,227,342 | 73,380 | ,320 | 5,270 | 6,554 | | 5,074,453 | | 85,503,896 | _ | 78,454,773 |
| Total liabilities | 89,198,459 | 82,006 | ,165 | 6,27 | 1,176 | | 6,227,604 | | 95,469,635 | | 88,233,769 |
| Deferred inflows of resources | 650,580 | 913 | ,817 | 9 | 7,229 | _ | 48,608 | | 747,809 | | 962,425 |
| Total liabilities and deferred inflows | 89,849,039 | 82,919 | ,982 | 6,368 | 8,405 | _ | 6,276,212 | _ | 96,217,444 | | 89,196,194 |
| Net Position: | | | | | | | | | | | |
| Net investment in capital assets | (1,320,834) | (1,067 | ,098) | 3,623 | 3,966 | | 3,311,658 | | 2,303,132 | | 2,244,560 |
| Restricted | 1,926,716 | 1,538 | ,662 | 1,733 | 5,575 | | 1,745,840 | | 3,662,291 | | 3,284,502 |
| Unrestricted | (63,992,915) | (59,111 | ,509) | 722 | 2,923 | | 678,667 | | (63,269,992) | | (58,432,842) |
| Total Net Position | \$ (63,387,033) | \$ (58,639 | ,945) | \$ 6,082 | 2,464 | \$ | 5,736,165 | \$ | (57,304,569) | \$ | (52,903,780) |

Changes in Net Position

As noted earlier, the Commonwealth's total primary government net deficit increased by approximately \$4.401 billion between FY16 and FY17, to \$57.305 billion. The primary reasons for the \$4.401 billion growth in the net deficit were the increase in the Commonwealth's pension liability, which, net of deferrals, increased by \$2.169 billion, a \$2.088 billion increase in the Commonwealth's net outstanding debt, and a \$1.115 billion increase in the Commonwealth's OPEB liability due to FY17 OPEB contributions that were the below the actuarially required contribution for the fiscal year.

The table on page 25 shows the major categories of government-wide revenues and expenses for FY16 and FY17, as well as net position for the two fiscal years. In FY17, approximately 44% of the primary government's total revenue came from taxes, while the remainder resulted from programmatic revenues, including charges for services and grants and contributions, the bulk of which was federal aid. FY17 revenues totaled \$58.637 billion, an increase of \$468 million, or 0.80% from FY16, with tax revenue totaling \$25.950 billion, an increase of \$273 million, or 1.1%, from FY16. The increase in tax revenue was attributable primarily to income tax revenue, which increased by \$530 million, or 3.8%, as growth in withholding on wages more than made up for a decline in capital gains tax revenues. Sales tax revenue grew by \$174 million, or 2.9%, but corporate excise tax decreased by \$323 million, or 13.3%, explaining the relatively slow growth in total tax revenue.

24

Revenue from Taxation FY07-FY17



Changes in Net Position during the Fiscal Years Ended June 30, 2017 and 2016 (in thousands of dollars except percentages)

| | Government | al Activities | Business - Ty | pe Activities | Total Primary | Government | Total | Primary Governme | ent |
|--|----------------|----------------|---------------|---------------|----------------|----------------|-------------------------------|-------------------------------|------------------------|
| | June 30, 2017 | June 30, 2016 | June 30, 2017 | June 30, 2016 | June 30, 2017 | June 30, 2016 | June 30, 2017 Distribution | June 30, 2016 Distribution | '16 to '17 % Change |
| Revenues | | | | | | | | | |
| Program Revenues: | | | | | | | | | |
| Charges for services | \$ 10,373,902 | \$ 10,308,129 | \$ 4,280,429 | \$ 4,376,517 | \$ 14,654,331 | \$ 14,684,646 | 25.0% | 25.2% | (0.8)% |
| Operating grants and contributions | 15,519,380 | 15,158,087 | 909,228 | 891,823 | 16,428,608 | 16,049,910 | 28.0% | 27.6% | 1.4 % |
| Capital grants and contributions | 58,354 | 85,759 | 238,621 | 265,714 | 296,975 | 351,473 | 0.5% | 0.6% | (16.7)% |
| General Revenues: | | | | | | | | | |
| Taxes | 25,949,577 | 25,676,303 | _ | _ | 25,949,577 | 25,676,303 | 44.3% | 44.2% | 0.2 % |
| Other | 994,982 | 1,160,994 | 312,347 | 245,441 | 1,307,329 | 1,406,435 | 2.2% | 2.4% | (8.3)% |
| Total Revenues | 52,896,195 | 52,389,272 | 5,740,625 | 5,779,495 | 58,636,820 | 58,168,767 | 100.0% | 100.0% | (24.2)% |
| Expenses | | | | | | | | | |
| Medicaid | 17,182,691 | 16,825,110 | _ | _ | 17,182,691 | 16,825,110 | 27.3% | 27.3% | — % |
| Direct local aid | 5,734,682 | 5,598,687 | _ | _ | 5,734,682 | 5,598,687 | 9.1% | 9.1% | — % |
| Health and human services | 8,131,843 | 7,912,817 | _ | _ | 8,131,843 | 7,912,817 | 12.9% | 12.9% | — % |
| Lottery | 4,128,209 | 4,299,592 | _ | _ | 4,128,209 | 4,299,592 | 6.5% | 7.0% | (7.1)% |
| Higher education | _ | _ | 5,167,033 | 5,081,859 | 5,167,033 | 5,081,859 | 8.2% | 8.3% | (1.2)% |
| Early elementary and secondary education | 6,243,115 | 5,420,052 | _ | _ | 6,243,115 | 5,420,052 | 9.9% | 8.8% | 12.5 % |
| Unemployment compensation | _ | _ | 1,514,002 | 1,499,811 | 1,514,002 | 1,499,811 | 2.4% | 2.4% | — % |
| Other | 14,936,034 | 14,873,463 | | | 14,936,034 | 14,873,463 | 23.7% | 24.2% | (2.1)% |
| Total Expenses | 56,356,574 | 54,929,721 | 6,681,035 | 6,581,670 | 63,037,609 | 61,511,391 | 100.0% | 100.0% | 2.1 % |
| Excess/(Deficiency) | | | | | | | | | |
| before transfers | (3,460,379) | (2,540,449) | (940,410) | (802,175) | (4,400,789) | (3,342,624) | | | |
| Transfers | (1,286,709) | (1,246,055) | 1,286,709 | 1,246,055 | | | | | |
| Change in net position (deficits) | (4,747,088) | (3,786,504) | 346,299 | 443,880 | (4,400,789) | (3,342,624) | | | |
| Net position/(deficit) - beginning | (58,639,945) | (54,853,441) | 5,736,165 | 5,292,285 | (52,903,780) | (49,561,156) | | | |
| Net position/(deficit) - ending | (\$63,387,033) | (\$58,639,945) | \$ 6,082,464 | \$ 5,736,165 | (\$57,304,569) | (\$52,903,780) | | | |

Operating grants and contributions (including federal revenue for Medicaid and Unemployment Insurance) totaled \$16.429 billion, an increase of \$379 million, or 2.4%, in FY17, with Medicaid reimbursements increasing by \$364 million, or 3.7%, as enrollment in the program expanded and some reimbursement rates increased due to implementation of the federal Affordable Care Act.

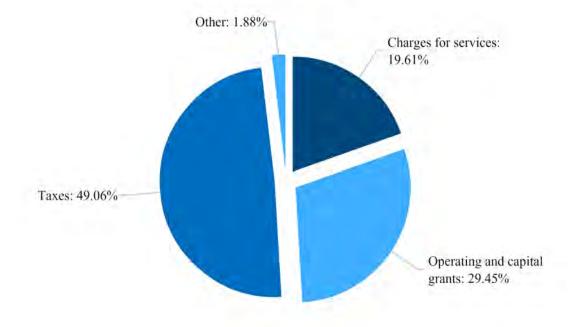
Charges for services totaled \$14.654 billion a decline of \$30 million, or 0.2% from FY16, with increases in charges in Health and Human Services Medicaid and general government, almost fully offset by declines in Lottery ticket purchases and a decrease in Energy and Environmental Affairs charges.

As of June 30, 2017, government-wide restricted net position totaled \$3.662 billion, an increase of \$378 million, with a decline in assets restricted for indebtedness mostly offset by an increase in assets restricted for other purposes.

Primary government spending totaled \$63.038 billion, an increase of \$1.526 billion, or 2.5%, from FY16, with governmental activities spending (i.e., excluding business-type activities such as Higher Education and the Unemployment Insurance program) totaling \$56.357 billion, an increase of \$1.427 billion, or 2.6%, and business-type activities spending totaling \$6.681 billion, an increase of \$99 million, or 1.5%. Medicaid expenses totaled \$17.183 billion, an increase of \$358 million, or 2.1%, from FY16, as cost saving measures offset increased enrollment growth and higher medical costs. Unemployment insurance compensation expenditures totaled \$1.514 billion, an increase of \$14 million, or 0.9%. Other significant spending changes occurred in Health and Human services, where spending totaled \$8.132 billion, an increase of \$219 million or 2.8%, in transportation and public works, where spending totaled \$2.535 billion, a decrease of \$177 million, or 6.5%, in direct local aid, where spending totaled \$5.735 billion, an increase of \$136 million, or 2.4%, and in general government expenses, where spending totaled \$2.765 billion, an increase of \$149 million, or 5.7%.

Income taxes comprise the bulk of tax revenue. Of the \$25.950 billion in FY17, tax revenue within governmental activities, \$14.655 billion, or approximately 56.5%, of total taxes, was from income taxes, \$6.282 billion, or 24.2%, was from sales taxes, \$2.116 billion, or 8.2%, was from corporate taxes, \$771 million, or 3.0%, was from motor fuels taxes and \$2.126 billion, or 8.1%, was from other forms of taxation. Lottery revenues of \$5.254 billion made up 51% of the Commonwealth's governmental charges for services. The largest operating grants were federal Medicaid subsidies, which totaled \$10.146 billion, or approximately 65%, of all grants, other health and human services grants of \$2.569 billion, or 17% of all grants, and education grants of \$1.278 billion, or 8% of grants. Most of the state's capital grants are for highway construction, and those federal grants are recorded not in the Commonwealth's financial statements but in the financial statements of the Massachusetts Department of Transportation.

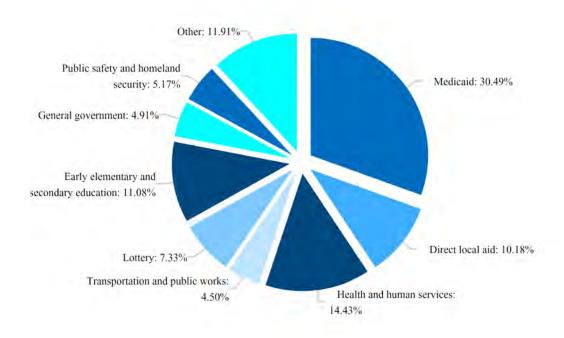
Revenue-Governmental Activities Fiscal Year Ending June 30, 2017



Medicaid expenses of \$17.183 billion accounted for 30.5% of the Commonwealth's governmental activities expenses. Historically, approximately half of Medicaid expenses have been reimbursed by the federal government, although under the Affordable Care Act some Medicaid expenditures are reimbursed at higher rates. The largest expense that is not subsidized by program revenues is direct local aid to the municipalities of the Commonwealth of approximately \$5.735 billion.

Other large expenditures for governmental activities included non-Medicaid health and human services costs of approximately \$8.132 billion, accounting for 14.4% of governmental expenses, pre-kindergarten through secondary education costs of approximately \$6.243 billion, accounting for 11.1% of governmental expenses and public safety and homeland security costs of approximately \$2.914 billion, accounting for 5.2% of governmental expenses. State employees' pensions and other post-employment benefits, which are included in the department spending amounts above, were \$3.197 billion.

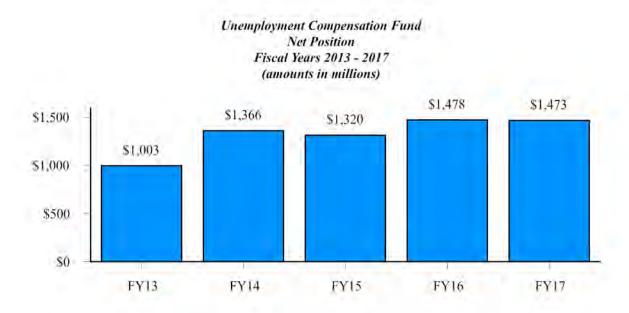
Major Expenses—Governmental Activities Fiscal Year Ending June 30, 2017



Business-Type Activities

Business-type activities are functions that equate to activities of a private enterprise. In the Commonwealth, the Institutions of Higher Education are deemed to be business-type activities because of their lack of separate taxation. Also, Unemployment Compensation is considered to be a business-type activity.

As of June 30, 2017, business-type activities' net position totaled \$6.082 billion, an increase of \$346 million, or 6.0%, from FY16, with the net position of the Institutions of Higher Education increasing by \$351 million to \$4.609 billion, and the net position of the Unemployment Insurance program decreasing by \$5 million, to \$1.473 billion. Program revenues of business-type activities totaled \$5.428 billion a decrease of \$106 million, or 1.9%, charges for services totaled \$4.280 billion, a decrease of \$96 million, or 2.2%, with Unemployment Insurance charges decreasing by \$143 million, or 8.9%, and Higher Education charges increasing by \$47 million, 1.7%. Operating grants and contributions totaled \$909 million, an increase of \$17 million, or 2.0%, and Capital Grants and Contributions totaled \$239 million, a decrease of \$27 million, or 10.2%.

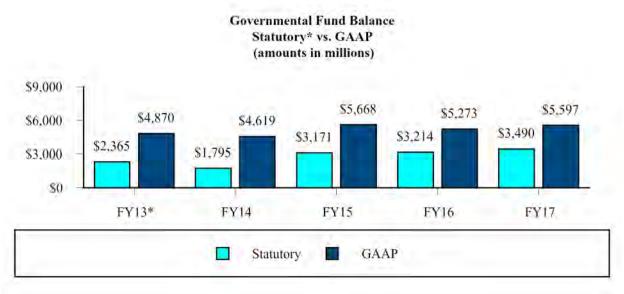


FINANCIAL ANALYSIS OF THE COMMONWEALTH'S FUNDS

The Commonwealth uses fund accounting to demonstrate inter-period equity and the extent to which current resources are financing the full cost of services that citizens are receiving. The basic governmental funds financial statements can be found immediately following the government-wide financial statements.

Governmental Funds

Governmental funds account for the near term inflows, outflows, and balances of expendable resources of the Commonwealth's core functions and services. Each major fund is presented in a separate column in the governmental fund balance sheet and in the governmental fund statement of revenues, expenditures, and changes in fund balances. The General Fund is the primary operating fund of the Commonwealth. At the end of FY17, the fund balance of the General Fund was \$2.338 billion. Of this amount, \$1.301 billion represents the balance in the Commonwealth's Stabilization Fund. \$98 million was classified as assigned for continuing appropriations from FY17 into FY18 and \$939 million was unassigned.



^{*}Statutory basis includes the Massachusetts Department of Transportation (MassDOT) and excludes expendable trust funds

Governmental Fund Operations - GAAP Basis - Fund Perspective (amounts in thousands)

| _ | FY17 | FY16 | FY15 | FY14 | FY13 |
|-------------------------|---|---|---|---|---|
| Beginning fund balances | \$ 5,273,305 68,437,099 68,113,534 | \$ 5,305,219 67,749,586 67,781,500 | \$ 4,619,434 60,658,637 59,972,852 | \$ 4,869,951 57,209,970 57,460,487 | \$ 6,318,958 55,289,871 56,738,878 |
| Excess/(deficiency) | 323,565 | (31,914) | 685,785 | (250,517) | (1,449,007) |
| Ending fund balances | \$ 5,596,870 | \$ 5,273,305 | \$ 5,305,219 | \$ 4,619,434 | \$ 4,869,951 |

FY17 governmental fund revenues and other financing sources totaled \$68.437 billion, an increase of \$688 million, or 1.0%, from FY16. Tax revenues totaled \$25.828 billion, an increase of \$82 million, or 0.3%, primarily due to growth in income, sales and corporate taxes as the Massachusetts economy continued to recover from recession. Federal grants and reimbursements totaled \$15.567 billion, an increase of \$334 million, or 2.2%, due primarily to growth in reimbursable Medicaid spending. Assessments, fees, and investment earnings totaled \$11.996 billion, a decrease of \$17 million, or 0.1%. Revenues from other financing sources totaled \$15.046 billion, an increase of \$288 million, or 2.0%.

FY17 governmental fund expenditures and other financing uses totaled \$68.114 billion, an increase of \$332 million, or 0.5% from FY16. Medicaid expenditures totaled \$17.183 billion, an increase of \$358 million or 2.1%, with the increase due primarily to enrollment growth and higher medical costs. Debt service expenditures totaled \$5.938 billion, an increase of \$204 million, or 3.5%, though more than half the increase was the result of a one-time debt service savings of \$113 million in FY16 that was not repeated in FY17. Post-employment benefits totaled \$1.127 billion, an increase of \$24 million, or 2.2%, with growth due mainly to increased pension contributions, and direct local aid totaled \$5.735 billion, an increase of \$136 million, or 2.4%. Other financing uses totaled \$9.520 billion, a decrease of \$187 million, or 1.9%, with the decrease due primarily to less refunding of debt compared to FY16.

As of June 30, 2017 the Commonwealth's governmental funds reported combined ending fund balance of \$5.597 billion, an increase of \$324 million, or 6.1%, from the previous year.

Governmental Funds - Fund Balance Classification (amounts in thousands)

| | 2017 | 2016* | Change | % Change |
|---------------------|-----------------|-----------------|---------------|----------|
| Restricted | \$ 1,926,716 | \$ 1,377,671 | \$ 549,045 | 39.9% |
| Unrestricted: | | | | |
| Committed | 2,351,175 | 2,421,647 | (70,472) | (2.9)% |
| Assigned | 684,655 | 845,567 | (160,912) | (19.0)% |
| Unassigned | 634,324 | 628,420 | 5,904 | 0.9% |
| Total Unrestricted | 3,670,154 | 3,895,634 | (225,480) | (5.8)% |
| Total fund balances | \$ 5,596,870 | \$ 5,273,305 | \$ 323,565 | 6.1% |

^{* -} Restated

GAAP requires that fund balances be classified by the degree of restriction placed upon their use by constitutional, statutory, or contractual requirements, and these classifications are shown in the table on the previous page. Restricted fund balances represent amounts restricted for Commonwealth and MSBA debt service or restricted by bond covenants, funds that are restricted in capital projects and special revenue funds, balances in the federal grants funds, and some balances held in expendable trusts. Unrestricted amounts include fund balances classified as committed, including those generated by revenue sources directed to specific purposes but with a lower level of constraint on their use than restricted balances, as well the fund balance of the Stabilization Fund. Unrestricted amounts also included prior appropriations continued, which are classified as assigned, and residual balances in the General Fund, which are classified as unassigned. A full discussion of the Commonwealth's fund balance classification policy under GASB 54 can be found in Note 1 to the basic financial statements, on pages 69–71.

Proprietary Funds

Proprietary Funds report activities of the Commonwealth that are structured similar to for-profit businesses. Proprietary fund financial statements provide the same type of information as the government—wide financial statements, only in greater detail.

As discussed above, the business-type activities increased the Commonwealth's net position by approximately \$346 million.

BUDGETARY HIGHLIGHTS

The FY17 legally enacted budget (the General Appropriation Act) included an FY17 tax revenue estimate of \$26.110 billion (a reduction from the FY17 consensus estimate of \$26.860 billion, which had been adjusted downward by \$750 million after tax revenue was below forecast at the end of FY17), further adjusted upward by \$174 million to \$26.284 billion as a result of \$49 million in tax law changes and \$125 million in tax settlements included in the budget. \$24.428 billion of that revenue was to be deposited in the budgeted funds and \$1.856 billion was to be deposited directly into non-budgeted funds for transfers of sales tax revenue dedicated to the Massachusetts Bay Transportation Authority (\$998 million) and the Massachusetts School Building Authority (\$835 million), and revenue deposited in the non-budgeted Workforce Training Fund (\$23 million). The FY17 budget appropriations also reflected the assumption that a reduction in the personal income tax rate would not be triggered during FY17 (as had been previously projected in the FY17 consensus tax revenue estimate and as reflected in the \$26.110 billion legally adopted tax estimate) as well as other technical adjustments, resulting in a further increase of \$72 million in available tax revenues, though that assumption was not reflected in the section of the budget that specified the tax revenue estimate.

As a result of below-forecast revenue performance over the first three months of FY17, in October 2016 the Secretary of Administration and Finance adjusted the FY17 tax revenue estimate downward to \$26.181 billion, (including \$125 million in settlements exceeding \$10 million each, virtually all of which were projected be tax-related, and the previously mentioned increase of \$72 million due to the income tax rate reduction not being triggered, as well as other technical adjustments), of which \$24.353 billion was to be deposited in the budgeted funds.

FY17 tax revenues upon which the FY17 General Appropriation Act was based ended the year at \$25.662 billion (including \$58 million in tax settlements exceeding \$10 million each -- the Commonwealth also received \$54 million in non-tax settlements), of which \$23.828 billion was deposited in the budgeted funds. Tax revenue deposited in the budgeted funds grew by \$211 million, or 0.9% from FY16, and was \$524 million below the final FY17 tax estimate.

The FY17 General Appropriation Act (GAA) authorized approximately \$39.917 billion in spending, exclusive of approximately \$2.198 billion in required pension contributions and \$109 million in FY16 spending authorized to be continued into FY17 as part of FY16 end-of-year supplemental budgets.

Approximately \$571 million in supplemental appropriations were authorized during FY17, \$486 million of which were enacted prior to June 30, 2017. Subsequent to year end, a supplemental budget was enacted totaling approximately \$86 million in new appropriations, \$50 million of which was for snow and ice removal costs, \$20 million of which was to fund county Sheriffs' payroll expenses in FY17, with virtually all of the remainder continued to FY18 and reappropriated. The year's significant supplemental appropriation activity included:

• \$274 million for transfers to the Medical Assistance Trust Fund;

- \$64 million for snow and ice removal expenses incurred by the Massachusetts Department of Transportation;
- \$52 million for compensation of private counsel representing indigent defendants;
- \$48 million to fund county Sheriffs' payroll expenses
- \$29 million to fund administration and operations of the Department of Corrections;
- \$21 million for family shelter services.

In order to maintain a balanced budget in the face of lower than projected FY17 tax revenue collections, the Governor reduced spending authorizations, or allotments, using his authority under Section 9C of Chapter 29. Those allotment reductions totaled approximately \$116 million. The Executive Office for Administration and Finance in conjunction with state departments also took action in the fourth quarter of FY17 to minimize discretionary spending to maintain a balanced budget. Finally, the following specific actions were taken in FY17 to the maximize the General Fund's balance and thus maintain a statutory balanced budget:

- \$167 million in revenues was transferred to the General Fund from non-budgeted funds;
- \$102 million was retained in the General Fund by reducing the statutorily required tobacco settlement transfer to the State Retiree Benefits Trust Fund:
- \$62 million in capital gains tax revenue that under statute was required to be deposited in the Stabilization Fund (\$56 million), the State Pension Fund (\$3 million), and the State Retiree Benefits Trust Fund (\$3 million) was retained in the General Fund, per a provision in the FY17 General Appropriation Act that increased the threshold set in statute:
- \$13 million in Sheriffs' General Fund payroll expenses was shifted from FY17 to FY18.

FY17 budgeted revenues and other financing sources (before transfers between the budgeted funds, which are included in both spending and revenue and thus have no effect on fund balances) totaled \$41.167 billion, an increase of \$802 million, or 2.0%, from FY16. Tax revenue grew by \$211 million, or 0.9%; while the economy continued to expand modestly, growth in withholding and sales tax revenue was offset by a decline in corporate tax revenue and capital gains tax revenue the latter which, according to a preliminary Department of Revenue estimate, dropped by \$180 million, or 13.1%, from \$1.370 billion in FY16 to \$1.190 billion in FY17. (There were also declines in other non-withholding, or non-wage, income taxes, though details on these will not be available until 2016 income tax returns filed on extension are analyzed.) Federal reimbursements totaled \$10.858 billion, an increase of \$215 million, or 2.0%, primarily due to growth in reimbursements for increased Medicaid program spending. Departmental revenue, which consists primarily of assessments and fees for state licenses and state services, totaled \$4.382 billion, an increase of \$125 million, or 2.9%, from FY16, driven largely by an increase of \$169 million in pharmacy rebates paid to the state employee health insurance program. Interfund transfers from non-budgeted funds totaled \$2.099 billion, an increase of \$250 million, or 13.5%, from FY16, due primarily to growth in Lottery revenues and fringe benefit recoveries from capital, federal grants, and non-budgeted funds.

FY17 budgeted expenditures and other financing uses, including transfers to non-budgeted funds (but before transfers between the budgeted funds) totaled \$41.202 billion, an increase of \$747 million, or 1.8%, from FY16, with the increase primarily attributable to higher spending on Medicaid and other health care spending, pension contributions, and Local Aid.

Spending on programs and services totaled \$34.967 billion, an increase of \$676 million, or 2.0%, from FY16. Medicaid expenditures totaled \$15.252 billion, an increase of \$401 million, or 2.7%, from FY16, primarily due to growth in enrollment, Medicare premium increases, increased health services utilization, and health care cost growth, especially pharmacy costs for emerging drugs.

Spending on state employee health benefits paid through the Group Insurance Commission (excluding benefits paid to retirees) increased by \$33 million, or 2.0%, from \$1.630 billion to \$1.663 billion. Budgeted debt service totaled \$2.285 billion, up \$110 million, or 5.1%, from FY16.

Interfund transfers to non-budgeted funds (primarily the Universal Health Care funds) totaled \$1.290 billion, a decrease of \$196 million or 13.2%, primarily due to a decline in transfers to the Medical Assistance Trust Fund. Post-employment benefits (for pension contributions and retiree health insurance) totaled \$2.660 billion, an increase of \$156 million, or 6.2%, as the Commonwealth increased its pension contribution by 10%, or \$179 million, over FY16. Spending for direct local aid (both education aid and unrestricted aid), at \$5.703 billion, was up \$135 million, or 2.4%, from FY16.

CAPITAL ASSETS

Capital assets of the Commonwealth include land, buildings, improvements, equipment, vehicles and infrastructure. The Commonwealth's investment in capital assets for its governmental and business-type activities as of June 30, 2017 amounts to approximately \$21.734 billion, with accumulated depreciation of approximately \$9.330 billion, leaving a net book value of \$12.404 billion. Infrastructure includes assets that are normally immovable and of value only to the Commonwealth, such as roads, bridges, piers and dams. (The investments in capital assets noted above do not include capital assets owned by MassDOT.) The total increase in the Commonwealth's investment in capital assets from 2016 to 2017 was approximately \$472 million, with \$49 million in governmental activities and \$423 million in business-type activities. The major increases in the net value of capital assets was in construction in process for governmental activities and construction in process, buildings and machinery and equipment for the business-type activities.

The table below details the capital assets for the Commonwealth.

Capital Assets at Year - End

(net of depreciation)(amounts in thousands)

| | Govern | mei | ntal | Busines | s - 7 | ype | | | |
|--|-----------------|------|-----------|-----------------|-------|-----------|------------------|-----|------------|
| | Activ | itie | S | Activ | vitie | S | То | tal | |
| | 2017 | | 2016 | 2017 | | 2016 | 2017 | | 2016 |
| Land | \$ 894,529 | \$ | 877,493 | \$ 158,275 | \$ | 137,937 | \$ 1,052,804 | \$ | 1,015,430 |
| Historical treasures | _ | | _ | 1,365 | | 1,760 | 1,365 | | 1,760 |
| Construction in process | 866,377 | | 819,321 | 979,065 | | 1,048,579 | 1,845,442 | | 1,867,900 |
| Buildings | 2,593,744 | | 2,605,085 | 5,588,573 | | 5,152,943 | 8,182,317 | | 7,758,028 |
| Machinery and equipment | 288,416 | | 282,812 | 820,537 | | 777,807 | 1,108,953 | | 1,060,619 |
| Infrastructure, excluding central artery | 150,020 | | 159,007 | _ | | _ | 150,020 | | 159,007 |
| Library collections | | | | 63,121 | | 69,109 | 63,121 | | 69,109 |
| Total | \$ 4,793,086 | \$ | 4,743,718 | \$ 7,610,936 | \$ | 7,188,135 | \$ 12,404,022 | \$ | 11,931,853 |

Additional detail on the Commonwealth's FY17 capital asset activity can be found in <u>Note 5</u> to the basic financial statements ("Capital Assets") on pages 92–93.

DEBT ADMINISTRATION

The Commonwealth issues short-term and long-term debt. Debt that is general obligation in nature is backed by the full faith and credit of the Commonwealth and paid from governmental funds. Additionally, short-term notes are issued and redeemed annually.

To fund the FY17 capital budget, the Commonwealth borrowed by issuing \$2.871 billion in long-term bonds, \$2.409 billion of which was general obligation debt and \$462 million of which was special obligation debt secured by motor fuels taxes, motor vehicle license and registration fees, and future federal reimbursements for transportation spending. All new bond sales were either for general government purposes, for road and bridge repair, or unallocated as of yearend and assumed to be for general purposes, including for construction and equipment purchases. In addition, the Commonwealth issued \$1.853 billion in debt to refund already existing debt, taking advantage of continued low interest

rates in FY17. During the year, the Commonwealth also issued \$1.5 billion in Revenue Anticipation Notes (RANs) in three separate \$500 million series which were retired in April, May and June 2017.

Approximately 15.4% percent of the Commonwealth's \$22.717 billion in general obligation debt outstanding as of June 30, 2017 was issued as variable rate bonds. Included in this variable rate debt was approximately \$402 million in auction rate securities (about 1.8% of all general obligation debt). During fiscal 2017 there were no changes to credit ratings on any of the Commonwealth's outstanding debt.

The following table details the Commonwealth's debt by type for the fiscal year compared to the prior fiscal year, excluding premiums and discounts.

Additional detail on the Commonwealth's short-term debt can be found in <u>Note 6</u> ("Short-Term Financing and Credit Arrangements") on pages 93–94 and <u>Note 7</u> ("Long-Term Obligations") on pages 94–110.

Outstanding Long - Term Debt Obligations

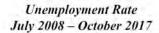
(amounts in thousands)

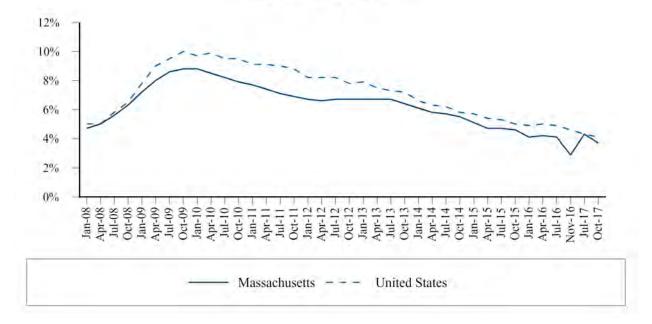
| | Govern | | | Busines Acti | | •• | То | otal |
|---|---------------|---------------|----|-----------------|----|-----------|---------------|---------------|
| | 2017 | 2016 | _ | 2017 | | 2016 | 2017 | 2016 |
| General obligation bonds | \$ 22,716,695 | \$ 21,668,296 | \$ | _ | \$ | _ | \$ 22,716,695 | \$ 21,668,296 |
| Special obligation bonds (excluding GANs) | 2,990,960 | 2,754,255 | | _ | | _ | 2,990,960 | 2,754,255 |
| Revenue obligation bonds | _ | _ | | 4,529,353 | | 4,438,282 | 4,529,353 | 4,438,282 |
| Grant anticipation notes | 738,010 | 657,040 | | | | | 738,010 | 657,040 |
| Subtotal | 26,445,665 | 25,079,591 | | 4,529,353 | | 4,438,282 | 30,975,018 | 29,517,873 |
| Massachusetts School Building Authority | 5,828,790 | 5,624,275 | | | _ | | 5,828,790 | 5,624,275 |
| Total | \$ 32,274,455 | \$ 30,703,866 | \$ | 4,529,353 | \$ | 4,438,282 | \$ 36,803,808 | \$ 35,142,148 |

ECONOMIC FACTORS AFFECTING NEXT YEAR'S BUDGET

The Commonwealth, with an international reputation for medical, cultural, historical and educational institutions remains the economic and educational hub of New England. The Commonwealth's economy remains diversified, but its strongest component is its knowledge–based technology and service industries and consequently the state relies heavily on a highly educated workforce. The Commonwealth is home to sixteen S&P 500 companies, among them thirteen Fortune 500 headquarters.

The Massachusetts economy, with its concentration of higher education institutions, life sciences and medical industries and high technology companies has outperformed the nation's economy as a whole during and immediately following the most recent recession. In June 2017 the Massachusetts unemployment rate was 4.3%, identical to the national rate, but by October 2017 had fallen to 3.7%, compared to the national rate of 4.1%.





The General Appropriation Act for FY18 is based on an FY18 tax revenue estimate of approximately \$26.7431 billion, (adjusted downward by approximately \$649.9 million from the consensus tax estimate due to below-forecast tax collections at the end of FY17), an increase of \$1.081 billion, or 4.2%, from FY17 actual tax collections. Of that amount, \$22.470 billion represents taxes available for budget after adjusting for \$4.273 billion in tax revenue that is allocated to state pension contributions (\$2.395 billion), sales tax revenue dedicated to the Massachusetts Bay Transportation Authority (\$1.007 billion) and the Massachusetts School Building Authority (\$847 million), and revenue allocated to the non-budgetary Workforce Training Fund (\$24.5 million).

Through November 30, 2017, FY18 year-to-date tax collections totaled \$9.921 billion, up \$452 million, or 4.8%, from the same period in FY17, \$204 million above the year-to-date benchmark based on the \$26.743 billion FY18 tax revenue estimate. In October 2017 the Secretary of Administration and Finance re-affirmed the FY18 tax revenue estimate of \$26.743 billion and tax revenues available for budget.

REQUESTS FOR INFORMATION

This financial report is designed to provide a general overview of the Commonwealth's finances and accountability for all of the Commonwealth's citizens, taxpayers, customers, investors and creditors. Questions concerning any of the information provided in this report or requests for additional information should be addressed via email to comptroller.info@state.ma.us or mail to: Commonwealth of Massachusetts, Office of the State Comptroller, 1 Ashburton Place, 9th Floor, Boston, Massachusetts, 02108. You may also download this report at: https://www.macomptroller.org/cafr.



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Basic Financial Statements

Government-wide Financial Statements
Statement of Net Position
Statement of Activities

Statement of Net Position

June 30, 2017

(Amounts in thousands)

| | | Primary Governmen | nt | |
|---|----------------------------|-----------------------------|--------------------------|--------------------|
| | Governmental Activities | Business-Type Activities | Government Wide Total | Component Units |
| ASSETS AND DEFERRED OUTFLOWS | | | | |
| Current assets: | | | | |
| Cash and cash equivalents | \$ 3,752,502 | \$ 569,978 | \$ 4,322,480 | \$ 3,258,433 |
| Restricted cash with fiscal agent | 574,959 | _ | 574,959 | _ |
| Short-term investments | 272,224 | 372,196 | 644,420 | _ |
| Assets held in trust | _ | _ | _ | 68,149 |
| Receivables, net of allowance for uncollectibles: | | | | |
| Taxes | 3,007,944 | _ | 3,007,944 | _ |
| Federal grants and reimbursements receivable | 2,302,979 | 101,400 | 2,404,379 | 88,853 |
| Loans | 7,094 | 60,311 | 67,405 | 451,685 |
| Other receivables | 265,878 | 628,536 | 894,414 | 434,735 |
| Due from cities and towns | 15,033 | _ | 15,033 | _ |
| Due from component units | 526 | 1,524 | 2,050 | _ |
| Due from primary government | _ | _ | _ | 647,417 |
| Other current assets | _ | 46,539 | 46,539 | 54,799 |
| Total current assets | 10,199,139 | 1,780,484 | 11,979,623 | 5,004,071 |
| Noncurrent assets: | | - | | |
| Cash and cash equivalents - restricted | _ | 484,659 | 484.659 | 840,240 |
| Long-term investments. | _ | 947,289 | 947,289 | 1,458,734 |
| Investments, restricted investments and annuity contracts | 2,059,541 | 790 | 2,060,331 | 47,695 |
| Receivables, net of allowance for uncollectibles: | 2,039,341 | 790 | 2,000,331 | 47,093 |
| Taxes | 514 022 | | 514 022 | |
| | 514,933 | _ | 514,933 | _ |
| Federal grants and reimbursements receivable | 70,580 | _ | 70,580 | |
| Loans | 100,339 | 8,022 | 108,361 | 4,401,512 |
| Other receivables | 69,627 | 62,232 | 131,859 | 36,123 |
| Due from component units | 8,477 | _ | 8,477 | _ |
| Due from primary government | | | _ | 5,452 |
| Non-depreciable capital assets | 1,760,906 | 1,138,705 | 2,899,611 | 11,636,623 |
| Depreciable capital assets, net | 3,032,180 | 6,472,231 | 9,504,411 | 24,469,223 |
| Other noncurrent assets | 103 | 22,032 | 22,135 | 46,532 |
| Other noncurrent assets - restricted | | 1,096,896 | 1,096,896 | |
| Total noncurrent assets | 7,616,686 | 10,232,856 | 17,849,542 | 42,942,134 |
| Total assets | 17,815,825 | 12,013,340 | 29,829,165 | 47,946,205 |
| Deferred outflows of resources: | | | | |
| Deferred change in fair value of interest rate swaps | 214,971 | 39,072 | 254,043 | 112,014 |
| Deferred loss on refunding | 168,237 | 120,680 | 288,917 | 337,628 |
| Deferred outflows related to pension | 8,262,973 | 277,777 | 8,540,750 | 486,720 |
| Total deferred outflows of resources. | 8,646,181 | 437,529 | 9,083,710 | 936,362 |
| Total assets and deferred outflows | 26,462,006 | 12,450,869 | 38,912,875 | 48,882,567 |
| LIABILITIES AND DEFERRED INFLOWS | | | | |
| Current liabilities: | | | | |
| Accounts payable and other liabilities | 3,699,160 | 267,149 | 3,966,309 | 1,269,330 |
| Accrued payroll | 84,193 | 149,351 | 233,544 | 1,568 |
| Compensated absences | 418,932 | 151,145 | 570,077 | 26,593 |
| Accrued interest payable | 388,794 | 22,938 | 411,732 | 207,459 |
| Tax refunds and abatements payable | 1,245,351 | 49,515 | 1,294,866 | _ |
| Due to component units | 583,261 | 123 | 583,384 | _ |
| Due to primary government | _ | _ | _ | 17,050 |
| Due to federal government | 20,874 | _ | 20,874 | _ |
| Claims and judgments | 12,518 | _ | 12,518 | _ |
| Unearned revenue | | 20,149 | 20,149 | 194,550 |
| | | 20,1.7 | 20,1.7 | 1,000 |

Statement of Net Position

June 30, 2017

(Amounts in thousands)

| | | Primary Governmen | nt | |
|--|----------------------------|-----------------------------|--------------------------|--------------------|
| | Governmental Activities | Business-Type Activities | Government Wide Total | Component Units |
| Deposits and unearned revenue | _ | 71,711 | 71,711 | _ |
| School construction grants payable | 309,194 | _ | 309,194 | _ |
| Capital leases | 7,889 | 2,062 | 9,951 | 3,458 |
| Massachusetts School Building Authority notes payable | 450,000 | _ | 450,000 | _ |
| Massachusetts School Building Authority bonds and unamortized premiums | 171,107 | _ | 171,107 | _ |
| Bonds payable and unamortized premiums | 1,574,618 | 260,479 | 1,835,097 | 839,298 |
| Environmental remediation liability | 5,226 | _ | 5,226 | _ |
| Total current liabilities | 8,971,117 | 994,622 | 9,965,739 | 2,559,306 |
| Noncurrent liabilities: | | | | |
| Compensated absences | 185,380 | 65,655 | 251,035 | 14,926 |
| Accrued interest payable | | _ | _ | 206,187 |
| Due to component units | | _ | 5,452 | _ |
| Due to primary government | | _ | _ | 8,477 |
| Due to federal government - grants | | 4,524 | 4,524 | _ |
| Unearned revenue | | _ | _ | 69,411 |
| Prizes payable | 1,062,350 | _ | 1,062,350 | _ |
| Capital leases | | 6,917 | 29,884 | 59,640 |
| Bonds payable and unamortized premiums | 26,642,032 | 4,268,874 | 30,910,906 | 10,742,511 |
| Massachusetts School Building Authority bonds and unamortized premiums | 6,280,175 | _ | 6,280,175 | _ |
| School construction grants payable | 370,296 | _ | 370,296 | _ |
| Environmental remediation liability | | _ | 527,834 | _ |
| Liability for derivative instruments | | 63,143 | 278,114 | 344,320 |
| Net pension liability | | 738,167 | 37,680,032 | 2,001,910 |
| Post-employment benefits obligations (other than pensions) | | _ | 7,581,000 | 1,134,934 |
| Other noncurrent liabilities | 393,020 | 129,274 | 522,294 | 143,452 |
| Total noncurrent liabilities. | 80,227,342 | 5,276,554 | 85,503,896 | 14,725,768 |
| Total liabilities | 89,198,459 | 6,271,176 | 95,469,635 | 17,285,074 |
| Deferred inflows of resources: | | | | |
| Deferred service concession arrangements | _ | 13,294 | 13,294 | 190 |
| Deferred inflows related to pension | 260,767 | 80,422 | 341,189 | 44,495 |
| Deferred gain on refunding | 389,813 | _ | 389,813 | 193 |
| Other | | 3,513 | 3,513 | |
| Total deferred inflows of resources | 650,580 | 97,229 | 747,809 | 44,878 |
| Total liabilities and deferred inflows | 89,849,039 | 6,368,405 | 96,217,444 | 17,329,952 |
| NET POSITION | | | | |
| Net investment in capital assets | (1,320,834) | 3,623,966 | 2,303,132 | 29,354,162 |
| Restricted for: | | | | |
| Unemployment benefits | _ | 1,473,220 | 1,473,220 | _ |
| Retirement of indebtedness | 1,021,280 | _ | 1,021,280 | _ |
| Higher education endowment funds | | 27,916 | 27,916 | _ |
| Higher education academic support and programs | _ | 1,900 | 1,900 | _ |
| Higher education scholarships and fellowships: | | | | |
| Nonexpendable | | 3,486 | 3,486 | _ |
| Expendable | | 7,321 | 7,321 | _ |
| Other nonexpendable purposes | | 2,984 | 2,984 | _ |
| Capital projects - expendable purposes | | 2,350 | 2,350 | |
| Other purposes | | 216,398 | 1,121,834 | 3,657,358 |
| | (63,992,915) | 722,923 | (63,269,992) | (1,458,905 |
| Unrestricted (deficits) | (,,,,,,,,,,,,, | · | | |

The notes to the financial statements are an integral part of this statement.

(concluded)

Statement of Activities

Fiscal Year Ended June 30, 2017

(Amounts in thousands)

| | | 2 | Prooram Revenues | v | Net (Ex | Net (Expenses) Revenues and Changes in Net Assets | s and | |
|---|----------------|-------------------------|--|--|----------------------------|---|----------------|--------------------|
| | | | 0 | | Prii | Primary Government | it it | |
| Functions/Programs | Expenses | Charges for Services | Operating Grants and Contributions | Capital Grants and Contributions | Governmental Activities | Business- Type Activities | Total | Component Units |
| Primary government: | | | | | | | | |
| Governmental Activities: | | | | | | | | |
| General government | . \$ 2,764,614 | \$ 594,132 | \$ 656,302 | \$ 38,998 | \$ (1,475,182) | | \$ (1,475,182) | - |
| Judiciary | 1,226,221 | 95,937 | 2,022 | | (1,128,262) | | (1,128,262) | |
| Direct local aid | 5,734,682 | | | | (5,734,682) | | (5,734,682) | |
| Medicaid | 17,182,691 | 897,542 | 10,146,459 | 1 | (6,138,690) | 1 | (6,138,690) | I |
| Group health insurance | 1,668,100 | 802,628 | 1 | 1 | (865,472) | 1 | (865,472) | I |
| Energy and environmental affairs | 720,182 | 249,565 | 64,011 | 1 | (406,606) | 1 | (406,606) | 1 |
| Housing and economic development | 1,411,189 | 194,940 | 450,851 | | (765,398) | | (765,398) | |
| Health and human services | 8,131,843 | 1,359,519 | 2,569,105 | 14,310 | (4,188,909) | | (4,188,909) | |
| Transportation and public works | 2,535,121 | 596,200 | 98 | 5,046 | (1,933,789) | | (1,933,789) | |
| Early elementary and secondary education | 6,243,115 | 7,919 | 1,278,249 | | (4,956,947) | | (4,956,947) | |
| Public safety and homeland security | 2,913,849 | 280,400 | 219,926 | | (2,413,523) | | (2,413,523) | |
| Labor and workforce development | 312,510 | 40,652 | 132,369 | | (139,489) | | (139,489) | |
| Lottery | 4,128,209 | 5,254,468 | | | 1,126,259 | | 1,126,259 | |
| Interest (unallocated) | 1,384,248 | | | | (1,384,248) | | (1,384,248) | |
| Total governmental activities | 56,356,574 | 10,373,902 | 15,519,380 | 58,354 | (30,404,938) | | (30,404,938) | I |
| Business-Type Activities: Unemployment Compensation | 1,514,002 | 1,468,492 | 40,677 | | I | (4,833) | (4,833) | I |
| University of Massachusetts | 3,167,596 | 1,882,899 | 566,683 | 121,380 | l | (596,634) | (596,634) | l |
| State Universities | | 654,170 | 74,512 | 16,176 | 1 | (318,338) | (318,338) | 1 |
| Community Colleges | 936,241 | 274,868 | 227,356 | 101,065 | | (332,952) | (332,952) | |
| Total business-type activities | 6,681,035 | 4,280,429 | 909,228 | 238,621 | | (1,252,757) | (1,252,757) | 1 |
| Total primary government | \$ 63,037,609 | \$ 14,654,331 | \$ 16,428,608 | \$ 296,975 | (30,404,938) | (1,252,757) | (31,657,695) | I |
| Component Units: | ALL ALC 2 9 | \$ 1560336 | 2 108 401 | 7 364 127 | | | | \$ 846,000 |
| Massachuseus Department of Mansportanon | | | 1 | | | | | 0 |
| Commonwealth Health Insurance Connector | | 626,004 | 47,887 | | | | | (4,439) |
| Massachusetts Clean Water Trust | | 98,002 | 26,572 | 73,697 | | | | 39,965 |
| Other nonmajor component units | 507,110 | 358,827 | 45,029 | 41,843 | 1 | | | (61,411) |
| Total component units | . \$ 6,620,520 | \$ 2,643,169 | \$ 2,317,889 | \$ 2,479,667 | | | | 820,205 |
| | | | | | | | | |

(continued)

Comprehensive Annual Financial Report

| | Prin | Primary Government | nt | |
|--|----------------------------|---------------------------------|-----------------|--------------------|
| General revenues: | Governmental Activities | Business- Type Activities | Total | Component Units |
| Taxes: | | | | |
| Income | 14,655,104 | 1 | 14,655,104 | I |
| Sales taxes | 6,281,579 | | 6,281,579 | |
| Corporate taxes | 2,115,863 | 1 | 2,115,863 | 1 |
| Motor and special fuel taxes | 770,984 | | 770,984 | 1 |
| Other taxes | 2,126,047 | | 2,126,047 | |
| Miscellaneous: | | | | |
| Investment earnings/(loss) | 60,846 | (55,444) | 5,402 | 78,817 |
| Tobacco settlement | 254,090 | | 254,090 | |
| Contribution from municipalities | 69,455 | | 69,455 | |
| Other revenue | 610,591 | 367,791 | 978,382 | 81,893 |
| Transfers | (1,286,709) | 1,286,709 | | |
| Total general revenues and transfers | 25,657,850 | 1,599,056 | 27,256,906 | 160,710 |
| Change in net position | (4,747,088) | 346,299 | (4,400,789) | 980,915 |
| Net position (deficits) - beginning, as restated | (58,639,945) | 5,736,165 | (52,903,780) | 30,571,700 |
| Net position (deficits) - ending | \$ (63,387,033) | \$ 6,082,464 | \$ (57,304,569) | \$ 31,552,615 |

The notes to the financial statements are an integral part of this statement.

(concluded)



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Governmental Fund Financial Statements

Balance Sheet

Governmental Funds June 30, 2017

(Amounts in thousands)

| | General | I | Lotteries | Sch | assachusetts nool Building Authority | G | Other overnmental Funds | Total |
|---|-----------------|----|-----------|-----|--|----|-------------------------------|------------------|
| ASSETS | | | | | | | | |
| Cash and cash equivalents | \$ 1,258,083 | \$ | 43,910 | \$ | 218,590 | \$ | 2,231,919 | \$ 3,752,502 |
| Restricted cash with fiscal agent | _ | | _ | | 374,199 | | 200,760 | 574,959 |
| Investments and restricted investments | 272,224 | | _ | | 997,191 | | _ | 1,269,415 |
| Receivables, net of allowance for uncollectibles: | | | | | | | | |
| Taxes | 3,282,105 | | _ | | 65,528 | | 175,244 | 3,522,877 |
| Due from federal government | 1,983,857 | | _ | | _ | | 389,702 | 2,373,559 |
| Loan receivable | _ | | _ | | 92,841 | | 14,592 | 107,433 |
| Other receivables | 255,840 | | 4,075 | | 9,013 | | 63,113 | 332,041 |
| Due from cities and towns | 15,033 | | _ | | _ | | _ | 15,033 |
| Due from other funds | 78,140 | | _ | | _ | | 78,617 | 156,757 |
| Due from component units | 526 | | | | _ | | _ | 526 |
| Total assets | \$ 7,145,808 | \$ | 47,985 | \$ | 1,757,362 | \$ | 3,153,947 | \$ 12,105,102 |
| LIABILITIES AND FUND BALANCES | | | | | _ | | | |
| Liabilities: | | | | | | | | |
| Accounts payable | \$ 2,754,702 | \$ | 41,926 | | 4,673 | \$ | 854,208 | \$ 3,655,509 |
| Accrued payroll | 77,885 | | _ | | _ | | 6,308 | 84,193 |
| Compensated absences | 11,107 | | _ | | _ | | 9 | 11,116 |
| Tax refunds and abatements payable | 1,244,553 | | _ | | 243 | | 555 | 1,245,351 |
| Due to other funds | _ | | _ | | _ | | 156,757 | 156,757 |
| Due to component units | 85,476 | | _ | | _ | | 497,785 | 583,261 |
| Due to federal government. | 20,874 | | _ | | _ | | _ | 20,874 |
| Claims and judgments | 12,518 | | _ | | _ | | _ | 12,518 |
| School construction grants payable | _ | | _ | | 39,862 | | _ | 39,862 |
| Other accrued liabilities | _ | | _ | | _ | | 43,651 | 43,651 |
| Total liabilities | 4,207,115 | | 41,926 | | 44,778 | | 1,559,273 | 5,853,092 |
| Deferred inflows of resources | 600,681 | | 5,146 | | | | 49,313 | 655,140 |
| Total liabilities and deferred inflows of resources | 4,807,796 | | 47,072 | | 44,778 | | 1,608,586 | 6,508,232 |
| Fund balances: | | | | | | | | |
| Restricted | _ | | _ | | 1,277,537 | | 649,179 | 1,926,716 |
| Committed | 1,300,678 | | 913 | | _ | | 1,049,584 | 2,351,175 |
| Assigned | 98,316 | | _ | | 435,047 | | 151,292 | 684,655 |
| Unassigned (deficits) | 939,018 | | | | | | (304,694) | 634,324 |
| Fund balances | 2,338,012 | | 913 | | 1,712,584 | | 1,545,361 | 5,596,870 |
| | | | | | | | | |

The notes to the financial statements are an integral part of this statement.

Reconciliation of Governmental Fund Balances to the Statement of Net Position

June 30, 2017

(Amounts in thousands)

| Total fund balances - governmental funds | | \$ 5,596,870 |
|---|--|-----------------|
| Amounts reported for governmental activities in the statement of net position are different because: | | |
| Capital assets used in governmental activities are not financial resources and, therefore, are not reported in the funds. Those assets consist of: | | |
| Capital assets not being depreciated | 1,760,906 | |
| Capital assets being depreciated, net | 3,032,180 | |
| Capital assets, net of accumulated depreciation | | 4,793,086 |
| Revenues are not available soon enough after year end to pay for the current period's expenditures and | | |
| therefore are unavailable deferred inflows of resources in the governmental funds | | 655,140 |
| Deferred inflows of resources are not reported in the governmental funds: | | |
| Gain on refunding | (389,813) | |
| Pension related | (260,767) | |
| Total deferred inflow of resources | | (650,580) |
| Deferred outflows of resources are not reported in the governmental funds: | | |
| Loss on refunding | 168,237 | |
| Pension related | 8,262,973 | |
| Total deferred outflow of resources | | 8,431,210 |
| Massachusetts School Building Authority assets and deferred outflows | | 3,567 |
| Lottery annuity contracts | | 1,062,350 |
| Due from component units | | 8,477 |
| Certain liabilities, including bonds payable, are not due and payable in the current period and therefore are not reported in the funds. These liabilities include: | | |
| Retirement systems' net pension liability | (36,941,865) | |
| Net post-employment benefits obligations | (7,581,000) | |
| Commonwealth bonded debt | (26,445,665) | |
| Unamortized bond premiums | (1,770,985) | |
| Accrued interest on bonds | (388,794) | |
| Massachusetts School Building Authority notes payable | (450,000) | |
| Massachusetts School Building Authority bonded debt | (6,451,282) | |
| Massachusetts School Building Authority grants to municipalities | (639,628) | |
| Prizes payable | (1,062,350) | |
| Capital leases | (30,856) | |
| Environmental remediation liability | (533,060) | |
| Employee benefits, including compensated absences, health insurance benefits and other compensation claims. | (991,668) | |
| Long-term liabilities (including current portions) | ······································ | (83,287,153) |
| | | |

The notes to the financial statements are an integral part of this statement.

Statement of Revenues, Expenditures and Changes in Fund Balances

Governmental Funds
Fiscal Year Ended June 30, 2017
(Amounts in thousands)

| | Amounts in thou | sands) | | | |
|---|--------------------------|-------------|---|--------------------------------|----------------------------|
| | General | Lotteries | Massachusetts School Building Authority | Other Governmental Funds | Total |
| REVENUES | A 22 207 201 | | A 017.056 | A 2 722 505 | ¢ 25.020.247 |
| Taxes | \$ 22,287,281 429,428 | \$ 525 | \$ 817,856 | \$ 2,722,585 790,011 | \$ 25,828,247 1,219,439 |
| Federal grants and reimbursements | 11,005,864 | _ | _ | 4,561,223 | 15,567,087 |
| Departmental | 3,086,857 | 5,255,458 | _ | 1,329,143 | 9,671,458 |
| Miscellaneous | 586,744 | 2,926 | 11,336 | 504,049 | 1,105,055 |
| Total revenues | 37,396,174 | 5,258,909 | 829,192 | 9,907,011 | 53,391,286 |
| EXPENDITURES | | | | | |
| Current: | | | | | |
| Legislature | 66,754 | _ | _ | _ | 66,754 |
| Judiciary | 906,051 | _ | _ | 2,123 | 908,174 |
| Inspector General | 4,207 | _ | _ | 218 | 4,425 |
| Governor and Lieutenant Governor | 6,567 | _ | _ | 33 | 6,600 |
| Secretary of the Commonwealth | 45,850 | 4 122 728 | 12.707 | 4,865 | 50,715 |
| Treasurer and Receiver-General | 224,930 | 4,122,738 | 13,797 | 1,295,081 | 5,656,546 |
| Auditor of the Commonwealth | 18,227 | _ | _ | 104 | 18,331 |
| Attorney General | 47,389 | _ | _ | 29,001 | 76,390 1,883 |
| | 1,883 | _ | _ | 10,177 | 129,970 |
| District Attorney | 119,793 | _ | _ | 10,177 | |
| Office of Campaign and Political Finance | 1,521 | _ | _ | 12.452 | 1,521 |
| Sheriff's Departments Disabled Persons Protection Commission | 610,063 | _ | _ | 13,452 | 623,515 |
| | 3,043 | _ | _ | 159 | 3,202 |
| Board of Library Commissioners | 25,157 | _ | _ | 2,854 | 28,011 |
| Massachusetts Gaming Commission | 14.064 | _ | _ | 36,749 | 36,749 |
| Comptroller | 14,064 | _ | _ | 2,507 | 16,571 |
| Administration and Finance | 2,122,808 | _ | _ | 321,429 | 2,444,237 |
| Energy and Environmental Affairs | 207,785 | _ | _ | 196,992 | 404,777 |
| Health and Human Services | 5,570,245 | _ | _ | 1,892,795 | 7,463,040 |
| Massachusetts Department of Transportation | 622 | _ | _ | 2,390,620 | 2,390,620 |
| Office of the Child Advocate | 633 | _ | _ | 1 027 952 | 633 |
| Executive Office of Education. | 2,561,293 | _ | _ | 1,027,852 285 | 3,589,145 23,316 |
| Center for Health and Information Analysis | 23,031 | _ | 621,466 | 263 | 621,466 |
| Massachusetts School Building Assistance | 1,119,982 | _ | 021,400 | 254,190 | 1,374,172 |
| Public Safety and Homeland Security | 495,596 | _ | _ | 525,080 | 1,020,676 |
| Labor and Workforce development | 43,796 | _ | _ | 215,156 | 258,952 |
| Medicaid | 15,486,332 | _ | _ | 1,696,359 | 17,182,691 |
| Post employment benefits | 1,109,393 | _ | 1,643 | 15,948 | 1,126,984 |
| Direct local aid | 5,670,712 | _ | 1,043 | 63,970 | 5,734,682 |
| Capital outlay: | 3,070,712 | _ | _ | 03,770 | 3,734,002 |
| Capital acquisition and construction | _ | _ | _ | 1,201,681 | 1,201,681 |
| Debt service/commercial paper repayments | _ | _ | 3,459,759 | 2,478,553 | 5,938,312 |
| Principal on current refundings | _ | _ | | 188,490 | 188,490 |
| Total expenditures | 36,507,105 | 4,122,738 | 4,096,665 | 13,866,723 | 58,593,231 |
| Excess (deficiency) of revenues over (under) expenditures | 889,069 | 1,136,171 | (3,267,473) | (3,959,712) | (5,201,945) |
| OTHER FINANCING SOURCES | | | | | |
| Bonds premium | _ | _ | 110,559 | 701,495 | 812,054 |
| Issuance of general and special obligation bonds | _ | _ | 593,625 | 2,870,650 | 3,464,275 |
| Issuance of current refunding bonds | _ | _ | _ | 188,490 | 188,490 |
| Issuance of advance refunding bonds | _ | _ | _ | 1,664,790 | 1,664,790 |
| Commercial paper proceeds | _ | _ | 2,986,165 | _ | 2,986,165 |
| Proceeds of capital leases | 804 | _ | _ | _ | 804 |
| Transfers in for debt service | _ | _ | _ | 2,431,826 | 2,431,826 |
| Transfers in | 2,082,249 | | | 1,415,160 | 3,497,409 |
| Total other financing sources | 2,083,053 | | 3,690,349 | 9,272,411 | 15,045,813 |
| OTHER FINANCING USES | | | 224 501 | 2.070.769 | 2 204 250 |
| Payments to refunding bond escrow agent | | 1 127 450 | 224,591 | 2,079,768 | 2,304,359 |
| Transfers out | 685,928 | 1,137,459 | _ | 1,432,834 | 3,256,221 |
| Transfers of appropriations | 1,333,004 | _ | _ | 1,261 | 1,334,265 |
| Transfers of bond proceeds | 1 100 500 | _ | _ | 193,632 | 193,632 |
| Transfers out for debt service | 1,189,569 | 1 125 450 | 224 501 | 1,242,257 | 2,431,826 |
| Total other financing uses | 3,208,501 | 1,137,459 | 224,591 | 4,949,752 | 9,520,303 |
| Total other financing sources and uses | (1,125,448) | (1,137,459) | 3,465,758 | 4,322,659 | 5,525,510 |
| Net change in fund balances (deficits) | (236,379) | (1,288) | 198,285 | 362,947 | 323,565 |
| Fund balances at end of year | 2,574,391 | 2,201 | 1,514,299 | 1,182,414 | 5,273,305 |
| Fund balances at end of year | \$ 2,338,012 | \$ 913 | \$ 1,712,584 | \$ 1,545,361 | \$ 5,596,870 |

The notes to the financial statements are an integral part of this statement.

Reconciliation of Statement of Revenues, Expenditures and Changes in Fund Balances of Governmental Funds to the Statement of Activities

For the fiscal year ended June 30, 2017 (Amounts in thousands)

| Net change in fund balances - total governmental funds | \$ | 323,565 |
|--|----|-------------|
| Amounts reported for governmental activities in the statement of activities are different because: | | |
| Governmental funds report capital outlays as expenditures. However, in the statement of activities, the cost of those assets is allocated over their estimated useful lives and reported as depreciation expense. This amount represents capital outlays including increases to construction in process, but excluding reductions and dispositions | | 256,647 |
| Current year depreciation expense | | (207,279) |
| Amounts presented in the statement of activities, but not in the change in fund balances due to difference in revenue and expense recognition under different bases of accounting | | 151,760 |
| The issuance of long - term debt provides current financial resources to governmental funds, while the repayment of principal of long - term debt consumes the current financial resources of governmental funds. Neither transaction has any effect on net assets. Also, governmental funds report the effect of premiums, discounts, and similar items when debt is first issued, whereas these amounts are deferred and amortized as part of the statement of activities. This amount is the net effect of these differences in the treatment of long-term debt and related items | | (1,981,974) |
| Decrease in capital leases | | 10,446 |
| Massachusetts School Building Authority | | (50,109) |
| Net pension costs | | (2,109,334) |
| Net underfunding of post employment benefit obligations | | (1,115,000) |
| Some expenses reported in the statement of activities do not require the use of current financial resources and therefore, are not reported as expenditures in governmental funds. These expenses include accrued interest, lottery prizes, claims and benefits that are reported in the statement of activities, but not in funds | _ | (25,810) |
| Change in net position of governmental activities | \$ | (4,747,088) |

The notes to the financial statements are an integral part of this statement



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Proprietary Fund Financial Statements

Statement of Net Position

Proprietary Funds June 30, 2017

(Amounts in thousands)

| | Unemployment Compensation Trust Fund | University of Massachusetts | State Universities | Community Colleges | Total |
|--|--|--------------------------------|-----------------------|-----------------------|---------------------|
| ASSETS AND DEFERRED OUTFLOWS: | | | | | |
| Current assets: | | | | | |
| Cash and cash equivalents | \$ 33,652 | \$ 107,458 | \$ 296,328 | \$ 132,540 | \$ 569,978 |
| Short-term investments | _ | 286,171 | 28,029 | 57,996 | 372,196 |
| Receivables, net of allowance for uncollectibles: | | 02 204 | 1 122 | 6 974 | 101 400 |
| Federal grants and reimbursements receivable | _ | 93,394 | 1,132 | 6,874 | 101,400 |
| Loans | 413,676 | 59,161 122,611 | 1,150 22,582 | 35,849 | 60,311 |
| Other receivables | 413,070 | | 22,382 | 33,849 | 594,718 |
| Due from affiliates Due from foundation | _ | 33,818 21 | 347 | 1,156 | 33,818 1,524 |
| Other current assets | _ | 37,213 | 4,574 | 4,752 | 46,539 |
| Fotal current assets | 447,328 | 739,847 | 354,142 | 239,167 | 1,780,484 |
| | | | | | |
| Noncurrent assets: | | | | | |
| Cash and cash equivalents - restricted | _ | 446,184 | 38,430 | 45 | 484,659 |
| Long-term investments | _ | 766,392 | 143,028 | 37,869 | 947,289 |
| Investments and restricted investments | _ | _ | 790 | _ | 790 |
| Other receivables, net | _ | 62,121 | 86 | 25 | 62,232 |
| Loans receivable, net | _ | | 7,707 | 315 | 8,022 |
| Non-depreciable capital assets | _ | 797,869 | 131,111 | 209,725 | 1,138,705 |
| Depreciable capital assets, net | _ | 4,133,043 | 1,885,047 | 454,141 | 6,472,231 |
| Other noncurrent assets - restricted | 1,096,896 | 8,849 | 13,173 | 10 | 22,032 1,096,896 |
| | | | | | |
| Total noncurrent assets | 1,096,896 | 6,214,458 | 2,219,372 | 702,130 | 10,232,856 |
| Total assets | 1,544,224 | 6,954,305 | 2,573,514 | 941,297 | 12,013,340 |
| Deferred outflows of resources: | | | | | |
| Deferred change in fair value of interest rate swaps | _ | 37,768 | _ | 1,304 | 39,072 |
| Deferred outflows related to pensions | _ | 158,185 | 77,803 | 41,789 | 277,777 |
| Loss on debt refunding | | 79,772 | 40,908 | | 120,680 |
| Total deferred outflows of resources | | 275,725 | 118,711 | 43,093 | 437,529 |
| Total assets and deferred outflows | 1,544,224 | 7,230,030 | 2,692,225 | 984,390 | 12,450,869 |
| LIABILITIES AND DEFERRED INFLOWS: | | | | | |
| Current liabilities: | | | | | |
| Accounts payable and other liabilities | 21,489 | 180,506 | 34,312 | 30,842 | 267,149 |
| Accrued payroll | _ | 83,543 | 39,301 | 26,507 | 149,351 |
| Compensated absences | _ | 81,357 | 35,384 | 34,404 | 151,145 |
| Accrued interest payable | _ | 22,694 | 122 | 122 | 22,938 |
| Tax refunds and abatements payable | 49,515 | _ | _ | _ | 49,515 |
| Unearned revenue | _ | _ | 15,647 | 4,502 | 20,149 |
| Student deposits and unearned revenues | _ | 44,128 | 6,447 | 21,136 | 71,711 |
| Due to foundation | _ | 123 | _ | _ | 123 |
| Capital leases | _ | 203 | 1,353 | 506 | 2,062 |
| Bonds, notes payable and other obligations | | 206,696 | 49,363 | 4,420 | 260,479 |
| Total current liabilities | 71,004 | 619,250 | 181,929 | 122,439 | 994,622 |
| Noncurrent liabilities: | | | | | |
| Compensated absences | _ | 30,395 | 18,910 | 16,350 | 65,655 |
| Due to federal government - grants | _ | | 4,524 | | 4,524 |
| Capital leases | _ | 389 | 5,673 | 855 | 6,917 |
| Bonds, notes payable and other obligations | _ | 2,885,146 | 1,324,390 | 59,338 | 4,268,874 |
| Liability for derivative instruments | _ | 61,839 | ,, | 1,304 | 63,143 |
| Net pension liability | _ | 429,871 | 189,596 | 118,700 | 738,167 |
| Other noncurrent liabilities | | 115,116 | 9,351 | 4,807 | 129,274 |
| Total noncurrent liabilities | | 3,522,756 | 1,552,444 | 201,354 | 5,276,554 |
| Total liabilities | 71,004 | 4,142,006 | 1,734,373 | 323,793 | 6,271,176 |
| Total Internation | /1,004 | 7,142,000 | 1,734,373 | 343,173 | 0,2/1,1/0 |

Statement of Net Position

Proprietary Funds June 30, 2017

(Amounts in thousands)

| | Unemployment Compensation Trust Fund | University of Massachusetts | State Universities | Community Colleges | Total |
|--|--|--------------------------------|-----------------------|-----------------------|--------------|
| Deferred inflows of resources: | | | | | |
| Deferred service concession arrangements | _ | _ | 12,810 | 484 | 13,294 |
| Deferred inflows related to pensions | _ | 37,671 | 16,977 | 25,774 | 80,422 |
| Other | | | | 3,513 | 3,513 |
| Total deferred inflows of resources | | 37,671 | 29,787 | 29,771 | 97,229 |
| Total liabilities and deferred inflows | 71,004 | 4,179,677 | 1,764,160 | 353,564 | 6,368,405 |
| NET POSITION: | | | | | |
| Net investment in capital assets | _ | 2,204,001 | 816,420 | 603,545 | 3,623,966 |
| Restricted for: | | | | | |
| Unemployment benefits | 1,473,220 | _ | _ | _ | 1,473,220 |
| Higher education endowment funds | _ | 27,443 | 54 | 419 | 27,916 |
| Higher education academic support and programs | _ | _ | 899 | 1,001 | 1,900 |
| Higher education scholarships and fellowships: | | | | | |
| Nonexpendable | _ | _ | 3,486 | _ | 3,486 |
| Expendable | _ | _ | 5,602 | 1,719 | 7,321 |
| Other nonexpendable purposes | _ | _ | 2,984 | _ | 2,984 |
| Capital projects - expendable purposes | _ | _ | 2,350 | _ | 2,350 |
| Other purposes | _ | 201,710 | 13,367 | 1,321 | 216,398 |
| Unrestricted | | 617,199 | 82,903 | 22,821 | 722,923 |
| Total net position | \$ 1,473,220 | \$ 3,050,353 | \$ 928,065 | \$ 630,826 | \$ 6,082,464 |

The notes to the financial statements are an integral part of this statement.

(concluded)

Statement of Revenues, Expenses and Changes in Net Position

Proprietary Funds

Fiscal Year Ended June 30, 2017

(Amounts in thousands)

| | Unemployment Compensation Trust Fund | University of Massachusetts | State Universities | Community Colleges | Total |
|---|--|--------------------------------|-----------------------|-----------------------|--------------|
| Operating revenues: | | | | | |
| Unemployment compensation contribution | \$ 1,422,969 | \$ — | \$ — | \$ — | \$ 1,422,969 |
| Net tuition and fees | _ | 847,832 | 404,196 | 219,914 | 1,471,942 |
| Grants and reimbursements | _ | 560,081 | 74,512 | 227,356 | 861,949 |
| Auxiliary enterprises | _ | 400,822 | 123,902 | 15,320 | 540,044 |
| Sales & services | _ | 526,897 | 111,020 | 23,434 | 661,351 |
| Miscellaneous | 45,523 | 107,348 | 15,052 | 16,200 | 184,123 |
| Total operating revenues | 1,468,492 | 2,442,980 | 728,682 | 502,224 | 5,142,378 |
| Operating expenses: | | | | | |
| Unemployment compensation | 1,514,002 | _ | _ | _ | 1,514,002 |
| Instruction | _ | 824,042 | 336,944 | 320,811 | 1,481,797 |
| Research | _ | 447,370 | 1,735 | 14 | 449,119 |
| Academic support | _ | 177,173 | 96,236 | 109,487 | 382,896 |
| Student services | _ | 151,033 | 106,822 | 131,239 | 389,094 |
| Scholarships and fellowships | _ | 47,710 | 31,488 | 54,021 | 133,219 |
| Public service | _ | 68,083 | 7,658 | 10,595 | 86,336 |
| Operation and maintenance of plant | _ | 240,501 | 96,860 | 81,007 | 418,368 |
| Institutional support | _ | 247,740 | 120,290 | 124,989 | 493,019 |
| Other operating expenses | _ | 403,151 | 3,394 | _ | 406,545 |
| Depreciation | _ | 249,669 | 99,652 | 34,924 | 384,245 |
| Auxiliary operations | | 306,850 | 148,954 | 14,427 | 470,231 |
| Total operating expenses | 1,514,002 | 3,163,322 | 1,050,033 | 881,514 | 6,608,871 |
| Operating income/(loss) | (45,510) | (720,342) | (321,351) | (379,290) | (1,466,493) |
| Nonoperating revenues/(expenses): | | | | | |
| Other federal revenues | 18,604 | 6,602 | _ | _ | 25,206 |
| Other revenues | | 300.656 | 67,135 | _ | 367,791 |
| Other expenses | _ | (4,274) | (13,163) | (54,727) | (72,164) |
| Investment income/(loss) | 22,073 | (17,692) | (44,160) | 6,408 | (33,371) |
| Total nonoperating revenues/(expenses) | 40,677 | 285,292 | 9,812 | (48,319) | 287,462 |
| Income/(loss) before capital grants and contributions and | (4.922) | (425.050) | (211 520) | (427.600) | (1.170.021) |
| transfers | (4,833) | (435,050) | (311,539) | (427,609) | (1,179,031) |
| Capital grants and contributions | _ | 121,380 | 16,176 | 101,065 | 238,621 |
| Transfers, net | | 563,930 | 298,584 | 424,195 | 1,286,709 |
| Total capital grants and contributions and transfers | | 685,310 | 314,760 | 525,260 | 1,525,330 |
| Change in net position | (4,833) | 250,260 | 3,221 | 97,651 | 346,299 |
| Total net position - beginning | 1,478,053 | 2,800,093 | 924,844 | 533,175 | 5,736,165 |
| Total net position - ending | \$ 1,473,220 | \$ 3,050,353 | \$ 928,065 | \$ 630,826 | \$ 6,082,464 |

The notes to the financial statements are an integral part of this statement.

Statement of Cash Flows

Proprietary Funds June 30, 2017

(Amounts in thousands)

| | Con | nployment npensation ust Fund | Univers Massacl | | | State iversities | | ommunity Colleges | Total |
|---|-----|-------------------------------------|--------------------|-------------------|----|---------------------|----|----------------------|-------------------|
| CASH FLOWS FROM OPERATING ACTIVITIES | | | | | | | | | |
| Collection of unemployment contributions | \$ | 1,439,685 | \$ | | \$ | _ | \$ | | \$ 1,439,685 |
| Tuition, residence, dining and other student fees | | _ | | 52,889 | | 412,493 | | 220,074 | 1,485,456 |
| Research grants and contracts | | _ | | 14,018 | | 179,809 | | 253,102 | 1,246,929 |
| Payments to suppliers | | _ | | 31,219) | | (257,424) | | (197,297) | (1,585,940) |
| Payments to employees | | _ | | 62,243) | | (526,294) | | (493,717) | (2,882,254) |
| Payments to students | | | (| 47,675) | | (21,915) | | (59,153) | (128,743) |
| Payments for unemployment benefits | | (1,517,767) | | _ | | _ | | _ | (1,517,767) |
| Collection of loans to students and employees | | _ | | (1,116) | | 1,331 | | 16 | 231 |
| Income from contract services | | _ | | _ | | 4,382 | | 2,460 | 6,842 |
| Maintenance costs | | _ | | | | (243) | | _ | (243) |
| Auxiliary enterprise charges. | | _ | | 57,968 | | 71,581 | | (566) | 428,983 |
| Other receipts | | 45,523 | 5 | 29,351 | | 14,075 | | 28,683 | 617,632 |
| Net cash (used in) operating activities | | (32,559) | (4 | 88,027) | | (122,205) | _ | (246,398) | (889,189) |
| CASH FLOW FROM NON-CAPITAL FINANCING ACTIVITIES | | | _ | | | | | | |
| State appropriations | | _ | | 20,819 | | 254,399 | | 276,219 | 1,251,437 |
| Grants and contracts | | 18,604 | 1 | 13,506 | | 2,033 | | 2,016 | 136,159 |
| Student organizations agency transactions | | _ | | 155 | | _ | | 203 | 358 |
| Principal on notes payable | | | | | | | | (272) | (272) |
| Net cash provided by non-capital financing activities | | 18,604 | 8 | 34,480 | | 256,432 | | 278,166 | 1,387,682 |
| CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES | | | | | | | | | |
| Capital appropriations | | _ | 1 | 21,333 | | 5,435 | | 15,700 | 142,468 |
| Purchases of capital assets | | _ | (1 | 05,493) | | (85,551) | | (40,823) | (231,867) |
| Proceeds from sales of capital assets | | _ | | _ | | 29,094 | | (143) | 28,951 |
| Proceeds from debt issuance | | _ | 2 | 36,666 | | 97 | | 2,878 | 239,641 |
| Other capital asset activity | | _ | | 9,332 | | 20,213 | | _ | 29,545 |
| Advance payment related to service concession arrangement | | _ | | _ | | _ | | (829) | (829) |
| Investments held by bond trustee, net | | _ | (3 | 69,995) | | _ | | (13) | (370,008) |
| Principal paid on capital debt and leases | | _ | (1 | 20,353) | | (47,910) | | (4,514) | (172,777) |
| Interest paid on capital debt and leases | | | (1 | 15,821) | | (70,170) | | (2,430) | (188,421) |
| Net cash (used in) capital financing activities | | | (3 | 44,331) | | (148,792) | | (30,174) | (523,297) |
| CASH FLOWS FROM INVESTING ACTIVITIES | | | | | | | | | |
| Proceeds from sales and maturities of investments | | _ | 1,1 | 24,176 | | 91,228 | | 95,987 | 1,311,391 |
| Purchases of investments | | _ | (1,1 | 87,713) | | (94,037) | | (80,685) | (1,362,435) |
| Investment earnings | | 22,073 | | 10,605 | | 8,241 | | 716 | 41,635 |
| Net cash provided by/(used in) investing activities | | 22,073 | (| 52,932) | | 5,432 | | 16,018 | (9,409) |
| Net increase (decrease) in cash and cash equivalents | | 8,118 | (| 50,810) | | (9,133) | | 17,612 | (34,213) |
| Cash and cash equivalents, restricted cash and cash equivalents at the beginning of the fiscal year | | 25,534 | 6 | 04,452 | | 343,891 | | 114,973 | 1,088,850 |
| Cash and cash equivalents, restricted cash and cash equivalents at the end of the fiscal year | \$ | 33,652 | \$ 5 | 53,642 | \$ | 334,758 | \$ | 132,585 | \$ 1,054,637 |
| Reconciliation of net operating revenues and expenses to cash used by operating activities: | | | | | | | | | |
| Operating income/(loss) | \$ | (45,510) | \$ (7 | 20,342) | \$ | (321,351) | \$ | (379,290) | \$ (1,466,493) |
| Adjustments to reconcile operating income/(loss) to net cash (used in) operating activities: | Ψ | (43,310) | Ψ (/ | 20,342) | Ψ | (321,331) | Ψ | (317,270) | ψ (1,400,493) |
| Depreciation expense | | _ | 2 | 49,669 | | 99,652 | | 34,924 | 384,245 |
| Fringe benefits paid by the Commonwealth | | _ | | _ | | 79,468 | | 92,277 | 171,745 |
| Changes in assets and liabilities: | | | | | | | | | |
| Accounts receivable, prepaids and other assets | | 52,968 | | 10,696 | | 7,530 | | 2,367 | 73,561 |
| Student deposits and other unearned and deferred revenues | | (3,765) | | 26,041) 11,846 | | 1,192 (1,717) | | 295 (421) | (28,319) 9,708 |
| Other noncurrent assets - restricted and liabilities | | (36,252) | | 13,855) | | 13,021 | | 3,450 | (33,636) |
| Net cash (used in) by operating activities | \$ | (32,559) | \$ (4 | 88,027) | \$ | (122,205) | \$ | (246,398) | \$ (889,189) |
| | | | | | _ | | | | |

 $Non-cash\ investing,\ capital\ and\ financing\ activities:$

The University System had approximately \$191 million of non-cash activities, and the State Universities and Community Colleges had approximately \$163 million and \$196 million, respectively, of non-cash activities, including new capital leases.

The notes to the financial statements are an integral part of this statement.



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Fiduciary Fund Financial Statements

Statement of Net Position

Fiduciary Funds June 30, 2017

(Amounts in thousands)

| | Post-Employment Benefits and OPEB Trust Funds | External Investment Trust Funds | Private Purpose Trust Funds | Ago | ency Funds |
|--|---|---------------------------------------|--------------------------------|-----|------------|
| ASSETS | | | | | |
| Cash and cash equivalents | \$ 236,193 | \$ 3,790,390 | \$ 666 | \$ | 630,781 |
| Short-term investments | _ | 39,052 | _ | | _ |
| Net investment in PRIT at fair value | 53,955,626 | 12,894,815 | _ | | _ |
| Investments, restricted investments and annuity contracts | _ | _ | _ | | 1,615,327 |
| Receivables, net of allowance for uncollectibles: | | | | | |
| Taxes | _ | _ | _ | | 37,578 |
| Other receivables | 118,289 | 4,025 | _ | | 130,917 |
| Other assets | 131,827 | _ | _ | | _ |
| | | | | | |
| Total assets | 54,441,935 | 16,728,282 | 666 | \$ | 2,414,603 |
| LIABILITIES | | | | | |
| Accounts payable and other accrued liabilities | 24,687 | 27,506 | _ | \$ | 115,226 |
| Due to cities and towns | _ | _ | _ | | 47,536 |
| Due to federal government | _ | _ | _ | | 1 |
| Lottery prizes payable | _ | _ | _ | | 1,062,350 |
| Agency liabilities | | | | | 1,189,490 |
| Total liabilities | 24,687 | 27,506 | | \$ | 2,414,603 |
| NET POSITION | | | | | |
| Restricted for employees' post-employment benefits | 54,417,248 | _ | _ | | |
| Restricted for external investment trust fund participants | _ | 16,700,776 | _ | | |
| Restricted for private purposes | _ | _ | 666 | | |
| | | | | | |
| Total net position | \$ 54,417,248 | \$ 16,700,776 | \$ 666 | | |

The notes to the financial statements are an integral part of this statement.

Statement of Changes in Net Position

Fiduciary Funds

Fiscal Year Ended June 30, 2017

(Amounts in thousands)

| | Benefi | Employment its and OPEB ust Funds | External Investment Trust Funds | | e Purpose t Funds |
|---|--------|---|---------------------------------------|------------|----------------------|
| ADDITIONS | | | | | |
| Contribution: | | | | | |
| Employer contributions - Commonwealth | \$ | 1,181,715 | \$ | _ | \$ _ |
| Non-employer contributions - Commonwealth | | 1,263,970 | | _ | _ |
| Employer contributions - other employers | | 7,999 | | _ | _ |
| Employee contributions | | 1,334,984 | | _ | _ |
| ERIP funding contribution - Commonwealth | | 29,093 | | _ | _ |
| Boston teachers' contribution from Commonwealth | | 132,477 | | _ | _ |
| Other additions | | 324,601 | | 994,315 | _ |
| Proceeds from sale of units | | | | 26,870,148 | |
| Total contributions | | 4,274,839 | | 27,864,463 | |
| Net investment gain/(loss): | | | | | |
| Investment gain/(loss) | | 6,473,170 | | 1,809,921 | _ |
| Less: investment expense | | (279,364) | | (299,336) | |
| Net investment gain/(loss) | | 6,193,806 | | 1,510,585 | |
| Total additions | | 10,468,645 | | 29,375,048 | |
| DEDUCTIONS | | | | | |
| Administration | | 54,210 | | _ | _ |
| Retirement benefits and refunds | | 5,545,213 | | 1,054,703 | _ |
| Payments to State Boston Retirement System | | 132,477 | | _ | _ |
| Other deductions | | 98,768 | | _ | _ |
| Cost of units redeemed | | _ | | 26,255,251 | _ |
| Distribution to unit holders | | | | 32,235 | |
| Total deductions | | 5,830,668 | | 27,342,189 | |
| Change in net position | | 4,637,977 | | 2,032,859 | _ |
| Net position - beginning | | 49,779,271 | | 14,667,917 | 666 |
| Net position - ending | \$ | 54,417,248 | \$ | 16,700,776 | \$ 666 |

The notes to the financial statements are an integral part of this statement.



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Discretely Presented Component Unit Financial Statements

Statement of Net Position

Component Units June 30, 2017 (Amounts in thousands)

| | Massachusetts Department of Transportation | Commonwealth Health Insurance Connector | Massachusetts Clean Water Trust | Nonmajor Component Units | Total |
|--|--|---|------------------------------------|-----------------------------|-----------------------|
| ASSETS AND DEFERRED OUTFLOWS | | | | | |
| Current assets: | | | | | |
| Cash and cash equivalents | \$ 366,590 | \$ 50,961 | \$ 586,633 | \$ 206,930 | \$ 1,211,114 |
| Short-term investments | - 1 244 406 | _ | 221,170 | 278,727 | 499,897 |
| Restricted cash and investments | 1,244,406 | _ | | 303,016 | 1,547,422 |
| Assets held in trust | _ | _ | 66,573 | 1,576 | 68,149 |
| Federal grants and reimbursement receivable | 57,645 | 2,394 | 28,814 | _ | 88,853 |
| Loans | 57,045 | 2,374 | 389,912 | 61,773 | 451,685 |
| Other receivables | 200,170 | 145,578 | 54,312 | 34,675 | 434,735 |
| Due from primary government | | 20,810 | | 85,599 | 647,417 |
| Inventory | _ | | _ | 53 | 53 |
| Other current assets | 49,176 | 1,207 | _ | 4,363 | 54,746 |
| Total current assets | 2,458,995 | 220,950 | 1,347,414 | 976,712 | 5,004,071 |
| Noncurrent assets: | | | | | |
| Cash and cash equivalents - restricted | 818,677 | _ | _ | 21,563 | 840,240 |
| Long-term investments. | | _ | 695,527 | 763,207 | 1,458,734 |
| Restricted investments and annuity contracts | _ | _ | | 47,695 | 47,695 |
| Other receivables, net | 20,434 | _ | _ | 15,689 | 36,123 |
| Loans receivables, net | | _ | 3,715,507 | 686,005 | 4,401,512 |
| Due from primary government | 5,452 | _ | _ | _ | 5,452 |
| Non-depreciable capital assets | 11,421,178 | _ | _ | 215,445 | 11,636,623 |
| Depreciable capital assets, net | 23,522,568 | 356 | _ | 946,299 | 24,469,223 |
| Other noncurrent assets | 26,671 | | 1,823 | 18,038 | 46,532 |
| Total noncurrent assets | 35,814,980 | 356 | 4,412,857 | 2,713,941 | 42,942,134 |
| Total assets | 38,273,975 | 221,306 | 5,760,271 | 3,690,653 | 47,946,205 |
| Deferred outflows of resources: | | | | | |
| Deferred change in fair value of interest rate swaps | 108,395 | | 3,604 | 15 | 112,014 |
| Deferred loss on refunding | 252,578 | _ | 85,050 | 13 | 337,628 |
| Deferred outflows related to pension | | _ | - 05,050 | 11,668 | 486,720 |
| Total deferred outflows of resources | 836,025 | | 88,654 | 11,683 | 936,362 |
| | | | | | |
| Total assets and deferred outflows | 39,110,000 | 221,306 | 5,848,925 | 3,702,336 | 48,882,567 |
| LIABILITIES AND DEFERRED INFLOWS | | | | | |
| Current liabilities: | | | | | |
| Accounts payable and other liabilities | 903,039 | 161,112 | 67,256 | 137,923 | 1,269,330 |
| Accrued payroll | _ | 138 | _ | 1,430 | 1,568 |
| Compensated absences | | 505 | _ | 2,604 | 26,593 |
| Accrued interest payable | | _ | 58,035 | 1,946 | 207,459 |
| Due to primary government | 15,000 | 26.740 | 27.270 | 2,050 | 17,050 |
| Unearned revenue | | 36,740 | 27,270 | 50,383 | 194,550 |
| Capital leases | | _ | 221 495 | 29 211 | 3,458 |
| Bonds, notes payable and other obligations | 569,602 1,742,218 | 198,495 | 231,485 384.046 | 38,211 234,547 | 839,298 |
| Total current liabilities | 1,742,218 | 198,495 | 384,040 | 234,547 | 2,559,306 |
| Noncurrent liabilities: | | | | | |
| Compensated absences | 13,427 | _ | _ | 1,499 | 14,926 |
| Accrued interest payable | 206,187 | _ | _ | _ | 206,187 |
| Due to primary government | | _ | _ | 8,477 | 8,477 |
| Unearned revenue | | _ | _ | 36,371 | 69,411 |
| Capital leases | 59,640 | _ | 2 094 724 | | 59,640 |
| Bonds, notes payable and other obligations | 6,988,596 | _ | 3,084,724 | 669,191 | 10,742,511 |
| Net pension liability | 1,956,803 | | _ | 45,107 | 2,001,910 |
| Post-employment benefits obligations | 1,118,374 340,701 | 5,224 | 3,604 | 11,336 15 | 1,134,934 344,320 |
| Other noncurrent liabilities | | _ | 3,004 | | |
| Total noncurrent liabilities | 118,679 10,835,447 | 5,224 | 3,088,328 | 24,773 796,769 | 143,452 14,725,768 |
| | | | | | |
| Total liabilities | 12,577,665 | 203,719 | 3,472,374 | 1,031,316 | 17,285,074 |
| Deferred inflows of resources: | | | | | |
| Deferred gain on refundings | 193 | _ | _ | _ | 193 |
| Deferred service concession arrangements | _ | _ | _ | 190 | 190 |
| Deferred inflows related to pension | 44,018 | | | 477 | 44,495 |
| Total deferred inflows of resources | 44,211 | | | 667 | 44,878 |
| Total liabilities and deferred inflows | 12,621,876 | 203,719 | 3,472,374 | 1,031,983 | 17,329,952 |
| NET POSITION | | | | | <u> </u> |
| Net investment in capital assets | 28,248,327 | 356 | _ | 1,105,479 | 29,354,162 |
| Restricted for: | | | | | |
| Economic development financing | _ | _ | _ | 195,285 | 195,285 |
| Other purposes | 706,765 | _ | 1,899,565 | 855,743 | 3,462,073 |
| Ummontainted | (2,466,968) | 17,231 | 476,986 | 513,846_ | (1,458,905) |
| Total net position | \$ 26,488,124 | \$ 17,587 | \$ 2,376,551 | \$ 2,670,353 | \$ 31,552,615 |

The notes to the financial statements are an integral part of this statement.

Statement of Revenues, Expenses and Changes in Net Position

Component Units
Fiscal Year Ended June 30, 2017
(Amounts in thousands)

| | Massachusetts Department of Transportation | | Health | onwealth Insurance nector | Massachusetts Clean Water Trust | | Nonmajor Component Units | | Total |
|---------------------------------------|--|-----|--------|---------------------------------|------------------------------------|-----------|-----------------------------|-----------|------------------|
| Operating revenues: | | | | | | | | | |
| Charges for services | \$ 1,560,336 | 5 | \$ | 625,321 | \$ | 7,429 | \$ | 288,532 | \$ 2,481,618 |
| Other | | | | 683 | | 90,573 | | 70,295 | 161,551 |
| Total operating revenues | 1,560,336 | 6 | | 626,004 | | 98,002 | | 358,827 | 2,643,169 |
| Operating expenses: | | | | | | | | | |
| Cost of services | 3,214,36 | 1 | | 597,625 | | 153,096 | | 293,209 | 4,258,291 |
| Administration costs | 997,163 | 3 | | 80,581 | | 5,210 | | 137,864 | 1,220,818 |
| Depreciation | 1,065,250 | 0 | | 124 | | | | 76,037 | 1,141,411 |
| Total operating expenses | 5,276,774 | 4 | | 678,330 | | 158,306 | | 507,110 | 6,620,520 |
| Operating loss | (3,716,438 | 8) | | (52,326) | | (60,304) | | (148,283) | (3,977,351) |
| Nonoperating revenues/(expenses): | | | | | | | | | |
| Operating grants | 2,198,40 | 1 | | 47,887 | | 26,572 | | 45,029 | 2,317,889 |
| Interest income/(loss) | 15,514 | 4 | | 208 | | _ | | 63,095 | 78,817 |
| Other nonoperating revenue/(expense) | 9,093 | 3 _ | | 2,191 | | | | 70,609 | 81,893 |
| Nonoperating revenues/(expenses), net | 2,223,008 | 8 | | 50,286 | | 26,572 | | 178,733 | 2,478,599 |
| Income/(loss) before contributions | (1,493,430 | D) | | (2,040) | | (33,732) | | 30,450 | (1,498,752) |
| Capital contributions | 2,364,12 | 7 | | _ | | 73,697 | | 41,843 | 2,479,667 |
| Change in net position | 870,697 | 7 | | (2,040) | | 39,965 | | 72,293 | 980,915 |
| Net position - beginning, as restated | 25,617,427 | 7 | | 19,627 | | 2,336,586 | | 2,598,060 | 30,571,700 |
| Net position - ending | \$ 26,488,124 | 4 | \$ | 17,587 | \$ | 2,376,551 | \$ | 2,670,353 | \$ 31,552,615 |

The notes to the financial statements are an integral part of this statement.



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1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

A. FINANCIAL REPORTING ENTITY – BASIS OF PRESENTATION

The accompanying financial statements of the Commonwealth of Massachusetts (Commonwealth) have been prepared in accordance with accounting principles generally accepted in the United States of America (GAAP). The Governmental Accounting Standards Board (GASB) is the recognized standard-setting body for establishing governmental accounting and financial reporting principles. The significant Commonwealth accounting policies are described below.

The Commonwealth is comprised of three branches: the Executive Branch, with the Governor as the chief executive officer; the Legislative Branch, consisting of a Senate of 40 members and a House of Representatives of 160 members; and the Judicial Branch, made up of the Supreme Judicial Court, the Appeals Court, and the Trial Court. In addition, the Legislature has established 57 independent authorities and agencies. Below the level of state government are 351 cities and towns exercising the functions of local governments. The cities and towns of the Commonwealth are also organized into 14 counties.

For financial reporting purposes, the Commonwealth has included all funds, organizations, agencies, boards, commissions, and institutions. The Commonwealth has also considered all potential component units for which it is financially accountable, as well as other organizations for which the nature and significance of their relationship with the Commonwealth is such that exclusion would cause the Commonwealth's financial statements to be misleading or incomplete. As required by GAAP, these financial statements present the Commonwealth (the primary government) and its component units. The Commonwealth has included 40 entities as component units in the reporting entity because of the significance of their operational and/or financial relationships with the Commonwealth. Additional information related to the component units is found in Note 14 to the basic financial statements.

Blended Component Units – Blended component units are entities that are legally separate from the Commonwealth but are so closely related to the Commonwealth, that they are, in substance, the same as the Commonwealth or entities providing services entirely or almost entirely to the Commonwealth. The net position and results of operations of the following legally separate entities are presented as part of the Commonwealth's operations:

The Massachusetts School Building Authority (MSBA) is charged with administering the Commonwealth's school construction and renovation program. The MSBA's revenues are derived almost entirely from dedicated sales taxes from the Commonwealth, that starting in FY11, increased to 1% of applicable sales in the Commonwealth. The MSBA's bonded debt is secured by these sales tax revenues. Expenditures by the MSBA are made on behalf of the Commonwealth as a successor to a long-standing Commonwealth program of school construction. The MSBA's operations and results thereon are blended with the Commonwealth and as such are reported as a major governmental fund.

The Pension Reserves Investment Trust Fund (PRIT) is the investment portfolio for the pension assets of the Commonwealth and as such, is presented as a blended component unit. PRIT is managed by the Pension Reserves Investment Management (PRIM) Board. Certain portions of PRIT's net position totaling approximately \$12.895 billion relate to holdings on behalf of cities and towns that participate in the Pool and are reported as an external investment trust within the fiduciary fund type.

The Massachusetts Municipal Depository Trust (MMDT) is an investment pool of the Commonwealth and its political subdivisions. The various local governments and other political subdivisions share of net position is approximately \$3.806 billion at June 30, 2017, and is reported as an external investment trust within the fiduciary fund type.

Departments Audited Separately from the Commonwealth but not legally separate from the Commonwealth - the following entities are audited separately from the Commonwealth but are not legally separate from the Commonwealth:

The Massachusetts State Lottery Commission, a division of the Office of the State Treasurer and Receiver–General, operates the Commonwealth's lottery. The net position of the Commission and results thereon are presented as a major

governmental fund.

The Institutions of Higher Education of the Commonwealth are also not legally separate from the Commonwealth and have operations and net position that are presented as part of the Commonwealth's business—type activities. These systems include:

The University of Massachusetts System including the University of Massachusetts Building Authority, and the Worcester City Campus Corporation. The Worcester City Campus Corporation includes a not-for-profit subsidiary, the Worcester Foundation for Biomedical Research, Inc.

The State University and Community College Systems including the 9 state universities and 15 community colleges located throughout the Commonwealth and the Massachusetts State College Building Authority.

Other Discretely Presented Component Units that are Separately Audited – Discrete component units are entities that are legally separate (often called Authorities) but financially accountable to the Commonwealth, or whose relationships with the Commonwealth are such that exclusion would cause the Commonwealth's financial statements to be misleading or incomplete. The component units column of the basic financial statements includes the financial data of the following entities:

Major component units:

The Massachusetts Department of Transportation (MassDOT) incorporates the former Massachusetts Turnpike Authority and has jurisdiction over the Massachusetts Bay Transportation Authority (MBTA) and the Regional Transit Authorities. MassDOT has attributes of a state department as well as an authority. It operates like a state department for purposes of state finance laws and is reported as part of the Commonwealth for compliance with federal and state tax law. In this unique relationship all road and bridge assets of the Commonwealth (including the former Turnpike Authority (MTA)) have been transferred to MassDOT, while the Commonwealth will continue to hold current and future debt for the construction repair, improvement, and replacement of these assets.

The Massachusetts Clean Water Trust provides a combination of federal and Commonwealth funds for water and sewer projects around the Commonwealth as operator of the Commonwealth's State Revolving Fund.

Commonwealth Insurance Connector Authority administers the Commonwealth health insurance programs to facilitate subsidized health insurance for individuals without access to employer-sponsored health insurance as well as offer an affordable commercial health insurance product named Commonwealth Care for small businesses that are eligible for the program.

Related Organizations

The following are "related organizations" under GASB Statement No. 14, *The Financial Reporting Entity*, as amended by Statement No. 39, *Determining Whether Certain Organizations are Component Units – an Amendment of GASB Statement No. 14* and Statement No. 61, *The Financial Reporting Entity: Omnibus, an amendment of GASB Statements No. 14 and No. 34*: Massachusetts Port Authority, Massachusetts Housing Finance Agency, MassVentures, and Massachusetts Educational Finance Authority. The Commonwealth is responsible for appointing a voting majority of the members of each entity's board, but the Commonwealth's authority does not extend beyond the appointments. These entities do not meet the criteria for inclusion as component units of the Commonwealth and therefore are not part of these financial statements.

Availability of Financial Statements

The separately audited financial statements of the Commonwealth's component units and funds may be obtained from the various entities, or by contacting Financial Reporting in the Office of the Comptroller at (617) 973-2660 for component unit contact information.

B. GOVERNMENT-WIDE AND FUND FINANCIAL STATEMENTS

The Statement of Net Position and the Statement of Activities report information on all non-fiduciary activities of the primary government and its component units. Primary government activities are defined as either governmental or business-type activities. Governmental activities generally are financed through taxes, intergovernmental revenues, and other non-exchange revenues. Business-type activities are financed in whole or in part by fees charged to external parties for goods and services.

C. MEASUREMENT FOCUS AND BASIS OF ACCOUNTING

Government-Wide Financial Statements

The **Statement of Net Position** presents all of the reporting entity's non-fiduciary assets and liabilities, with the difference reported as net position. Net position is reported in three categories:

- Net investment in capital assets consists of capital assets, net of accumulated depreciation and reduced by
 outstanding balances for bonds, notes and other debt that are attributed to the acquisition, construction or
 improvement of those assets.
- **Restricted net position** results when constraints placed on net position use are either externally imposed by creditors, grantors, contributors, and the like, or imposed by law through enabling legislation.
- Unrestricted net position consists of net position which does not meet the definition of the two preceding categories.

Resources from restricted net position are used prior to those from unrestricted net position.

The **Statement of Activities** demonstrates the degree to which the direct expenses of a given function or segment are offset by program revenues. Direct expenses are those that are clearly identifiable within a specific function. Program revenues include charges to customers or applicants who purchase, use or directly benefit from goods, services, or privileges that are restricted to meeting the operational or capital requirements of a particular function. Taxes and other items not meeting the definition of program revenues are instead reported as general revenue and offset or supplant the net operating deficit or surplus from governmental or business—type operations.

Fund Financial Statements

The fund financial statements present a balance sheet and a statement of revenues, expenditures, and changes in fund balances for its major and aggregated non-major funds.

Separate financial statements are provided for governmental funds, proprietary funds, and fiduciary funds. Major individual governmental funds and major individual proprietary funds are reported as separate columns in the fund financial statements pursuant to GASB reporting standards, with non-major funds being combined into a single column. The Commonwealth reports its financial position and results of operations in funds, each of which is considered a separate accounting entity. The operations of each fund are accounted for with a set of self-balancing accounts that comprise its assets, liabilities, fund equity, revenues, and expenditures/expenses. Transactions between funds within a fund type, if any, have not been eliminated.

Governmental Activities – Government-wide financial statements are reported using the economic resources management focus and the full accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of cash flows. Grants and similar items are recognized as revenues as soon as all eligibility requirements have been met.

Governmental Funds – Fund financial statements account for the general governmental activities of the Commonwealth. Governmental fund statements are reported using the current financial resources measurement focus

and the modified accrual basis of accounting. Revenues are recognized as they become susceptible to accrual and are both measurable and available. Revenues are considered to be available when they are collected within the current period or soon enough thereafter to pay liabilities of the current period. Significant revenues susceptible to accrual include income, sales and use, corporation, and other taxes, federal grants, federal reimbursements and other reimbursements for use of materials and services which are recognized in the year the materials are received, the grants are expended, or services are provided. The measurement period for accrual for taxes earned is generally one year for income, corporate and other taxes and within thirty days for sales and use taxes. For federal and other reimbursements, the measurement period for accrual is generally sixty days if the related expenditures being reimbursed occurred prior to year-end. Expenditures are recorded in the period in which the related fund liability is incurred. Principal and interest on general long-term obligations are recorded as fund liabilities when due. Compensated absences, claims and judgments, termination benefits and similar activities are recognized to the extent that they are normally expected to be liquidated with expendable available financial resources. Amounts incurred but not reported for Medicaid are reported to the extent that services are rendered before June 30th.

Business-Type Activities – Government-wide financial statements account for activities for which a fee is charged to external users for goods or services. In these services, debt may be issued backed solely by these fees and charges.

There may be also a legal requirement or a policy decision to recover costs. As such, these funds account for operations similarly to a for–profit business. The Commonwealth's Institutions of Higher Educations operations are reported as systems within the proprietary funds. Proprietary fund types are described in more detail below.

Proprietary and Fiduciary Funds – Fund financial statements are presented on the same basis of accounting as the business-type activities in the government–wide financial statements. For fiduciary funds, post-employment benefits and refunds are recognized when due and payable.

The Commonwealth reports the following fund types:

Governmental Fund Types:

General Fund, a governmental fund, is the primary operating fund of the Commonwealth. It is used to account for all governmental transactions except those required to be accounted for in another fund.

Special Revenue Funds account for specific revenue sources that have been aggregated according to Commonwealth general laws to support specific governmental activities.

Debt Service Fund accounts for the accumulation of resources for and the payment of debt.

Capital Projects Funds account for the acquisition or construction of major Commonwealth capital facilities financed primarily from bonds and federal reimbursements.

Within the governmental fund types, the Commonwealth has established the following major funds, in addition to the General Fund:

Lottery Funds are governmental funds and account for the operations of the State and Arts Lotteries, which primarily reimburse the General Fund for local aid to cities and towns.

The Massachusetts School Building Authority is presented as a governmental fund, reflecting the activity of the blended component unit, the Massachusetts School Building Authority, accounting for grants to cities, towns and regional school districts for school construction and renovation projects.

Proprietary Fund Types:

Business-Type Activities account for programs financed in whole or in part by fees charged to external parties for goods and services.

The proprietary funds include the following:

Unemployment Compensation Fund reports the taxes collected from employers and held by the United States Treasury in the Federal Unemployment Trust Fund, from which funds are drawn for the payment of benefits to the unemployed.

College and University Information, is presented here, aggregated by the University's activity, the State Universities' activity and the Community Colleges' activity.

Fiduciary Fund Types:

Post-Employment Benefit and OPEB Trust Funds report resources that are required to be held in trust for the members and beneficiaries of the Commonwealth's post-employment and OPEB benefit plans. These funds recognize employer contributions when legally due and employee contributions in the period when due. Further information on the significant accounting policies for post-employment and OPEB benefit trust funds may be found in Notes 9 and 10 to the basic financial statements on pages 110–126.

External Investment Trust Funds account for the portion of pooled cash and pension assets held under the custodianship of the Commonwealth for the benefit of cities, towns and other political subdivisions of the Commonwealth.

Private Purpose Funds account for various gifts and bequests held by the Commonwealth of which only the income is expendable for purposes specified by the donor. The majority of the individual accounts are for perpetual cemetery care endowments on behalf of deceased individuals.

Agency Funds account for assets the Commonwealth holds on behalf of others. Agency Funds are custodial in nature and do not involve measurement of operations.

Fund Balances:

Governmental fund balances are considered nonspendable, restricted, committed, assigned, and unassigned, based on the relative strength of spending constraints.

Nonspendable fund balances are those that cannot be spent because they are either: (a) not in spendable form; or (b) legally or contractually required to be maintained intact, such as balances in the form of inventories, permanent funds, and notes receivable. As of June 30, 2017, there were no nonspendable fund balances.

Restricted fund balances are those where constraints on their use are: a) externally imposed by creditors (such as through debt covenants), grantors, contributors or laws or regulations of other governments; or b) imposed by constitutional provisions or enabling legislation such that there is a legally enforceable requirement that those resources be used only for the specific purposes stipulated. Legal enforceability means that a government can be compelled by an external party—such as citizens, public interest groups, or the judiciary—to use resources created by enabling legislation only for the stipulated purposes.

Committed fund balances are those that can be used only for specific purposes pursuant to constraints imposed by formal action of the government's highest level of decision-making authority, which in the case of the Commonwealth is the Legislature and Governor. Committed amounts cannot be used for other than the specified purposes unless the Governor and Legislature remove or change the specified use through legislation. The authorization specifying the purposes for which amounts can be used must have the consent of both the legislative and executive branches of the government prior to the end of the reporting period.

Assigned fund balances are amounts that are constrained by the government's intent to be used for specific purposes, but are neither restricted nor committed. Intent should be expressed by: (a) the governing body itself; or (b) a body (a budget or finance committee, for example) or official to which the governing body has delegated the authority to assign amounts to be used for specific purposes. The Massachusetts Legislature has the authority to assign or modify previously assigned fund balance. In distinction to restricted and committed balances, the authority for making an assignment is not required to be the government's highest level of decision-making authority, i.e., the Legislature and Governor, and the action to assign fund balance can occur after the end of the year. Furthermore, the nature of the actions necessary

to remove or modify an assignment is not as prescriptive as it is with committed fund balances—constraints imposed on the use of assigned amounts are more easily removed or modified than those imposed on amounts that are classified as committed. Per GASB 54, assigned balances include those funds remaining at the end of the fiscal year that are reappropriated for the following fiscal year. Assigned balances also include administratively established accounts whose purpose is defined by Secretary of Administration and Finance and other cabinet secretaries.

Unassigned fund balance is the residual classification for the General Fund. This classification represents fund balance that has not been assigned to other funds and that has not been restricted, committed, or assigned to specific purposes in the General Fund. The General Fund is the only fund that reports a positive unassigned fund balance amount. In addition, in accordance with GASB No. 54, negative balances in other governmental funds are classified as unassigned.

While the Commonwealth has not announced a formal policy governing the priority of spending fund balances, in conformance with GASB 54 requirements, when an expenditure is incurred for purposes for which both restricted and unrestricted resources are available, restricted resources are spent first, followed by committed resources, assigned resources, and unassigned resources.

Detail of FY17 ending fund balances is shown below.

Governmental Fund Balances at June 30, 2017

(amounts in thousands)

| | Restricted Purposes | Committed Purposes | Assigned Unassigned Purposes Purposes | | Totals |
|--|------------------------|-----------------------|---------------------------------------|------------|--------------|
| General Fund | | | | | |
| General Government | \$ — | \$ | \$ | \$ 939,018 | \$ 939,018 |
| Stabilization Fund | _ | 1,300,678 | _ | _ | 1,300,678 |
| FY17 Appropriations Reappropriated in FY18 | | | 98,316 | | 98,316 |
| Subtotals, General Fund | | 1,300,678 | 98,316 | 939,018 | 2,338,012 |
| Lottery Funds | | | | | |
| Lottery Operations | _ | 913 | _ | _ | 913 |
| Subtotals, Lottery Funds | | 913 | | | 913 |
| Massachusetts School Building Authority (MSBA) | | | | | |
| Debt Service | 912,814 | _ | _ | _ | 912,814 |
| Grants to Cities, Towns and Local School Districts | 364,723 | _ | 435,047 | _ | 799,770 |
| Subtotals, MSB A | 1,277,537 | | 435,047 | | 1,712,584 |
| Other Governmental Funds | | | | | |
| Restricted by Federal Grantors | 2,082 | _ | _ | _ | 2,082 |
| Child Support Restricted by Federal Grantors | 17,720 | _ | _ | _ | 17,720 |
| Environmental | _ | 16,150 | 1,000 | _ | 17,150 |
| Public Safety Enhanced 911 Services | _ | 122,671 | _ | _ | 122,671 |
| Public Safety Other | _ | 3,214 | _ | _ | 3,214 |
| Universal Health Care - Distressed Hospital Relief | _ | 33,537 | _ | _ | 33,537 |
| Universal Health Care - Non-Institutional Long-Term Care | 15,298 | _ | _ | _ | 15,298 |
| Universal Health Care - Other | _ | 34,602 | _ | _ | 34,602 |
| Other Health Care | _ | 24,068 | _ | _ | 24,068 |
| Workforce Training | _ | 42,352 | _ | _ | 42,352 |
| Convention Centers | 8,393 | 144,720 | _ | _ | 153,113 |
| General Government Capital Projects Fund | 244,782 | _ | _ | _ | 244,782 |
| Highway Capital Projects Fund | _ | _ | _ | (211,762) | (211,762) |
| General Government Debt Service | 534 | _ | _ | _ | 534 |
| Transportation (GANS*/Commonwealth Transportation Fund) | 107,932 | 55,276 | _ | _ | 163,208 |
| Gaming | _ | 11,495 | _ | _ | 11,495 |
| Expendable Trusts | 238,750 | 264,012 | 150,292 | _ | 653,054 |
| Other | 13,688 | 297,487 | | (92,932) | 218,243 |
| Subtotals, Other Governmental Funds | 649,179 | 1,049,584 | 151,292 | (304,694) | 1,545,361 |
| Totals | \$ 1,926,716 | \$ 2,351,175 | \$ 684,655 | \$ 634,324 | \$ 5,596,870 |

^{*}Federal Grant Anticipation Notes

The Commonwealth does not have a formally adopted minimum fund balance policy. However, most governmental funds cannot end a fiscal year in deficit. Those funds that are authorized to end a fiscal year in deficit are discussed in Note 8 to the basic financial statements, "Individual Fund Deficits" on page 110.

Stabilization Fund Arrangements:

In accordance with Section 2H of Chapter 29 of the Massachusetts General Laws, the Commonwealth maintains a Stabilization ("Rainy Day") Fund. Per Chapter 29, balances in the Stabilization Fund can be expended only when nonroutine budget shortfalls occur and upon appropriation by the Legislature and approval by the Governor. Chapter 29 requires that after calculating the Commonwealth's "consolidated net surplus" (the sum of the "undesignated" balances in certain specific state budgeted funds, equal to balances that are neither restricted nor reappropriated for the following fiscal year) any remaining surplus be transferred to the Stabilization Fund. In addition, withholding taxes on certain Lottery transfers are required to be transferred to the Stabilization Fund. Starting in FY10, statute requires the Comptroller, after certification by the Commissioner of Revenue, to transfer any capital gains tax revenues in excess of \$1 billion (adjusted annually for economic growth) during a fiscal year to the Stabilization Fund. Starting in FY12, statute requires the Comptroller, after certification by the Commissioner of Revenue and the Attorney General, to transfer to the Stabilization Fund all revenue from individual settlements and judgments greater than \$10 million each that exceeds the five year rolling annual average of such settlements and judgments. For FY17, the capital gains statute was suspended by budgetary legislation enacted during the fiscal year and because settlements and judgments revenue did not reach the five year average threshold, all such revenue was retained in the General Fund.

Historically, balances in the Stabilization Fund have been used almost exclusively during recessionary periods to offset budget shortfalls after other budgetary measures have been taken. Per Chapter 29, the Commonwealth is required to maintain a balanced budget, and if a revenue shortfall is projected, the Secretary of Administration and Finance is required to reduce state agencies' spending authorizations in an amount equal to any projected shortfall.

The Stabilization Fund ended FY17 with a balance of \$1.301 billion. For the fiscal year ending June 30, 2017, the Stabilization Fund's balance increased by \$9 million from investment income, and approximately \$377 thousand in statutorily mandated deposits of withholding taxes on certain Lottery proceeds. There were no withdrawals during the fiscal year. In accordance with GASB 54 requirements, balances in the Stabilization Fund are classified as committed.

Fiscal Year-End

All funds and component units are reported using fiscal years, which end on June 30.

Program Revenue

Program revenue is defined by the Commonwealth to be the revenue from fees and assessments collected by departments that are directly applicable to that department's operations.

Operating and non-operating revenues and expenses

Revenues and expenses of business-type activities and proprietary funds are classified as operating or non-operating and are subclassified by object. Operating revenues and expenses generally result from providing services and producing and delivering goods. All other revenues and expenses are reported as non-operating.

D. CASH, CASH EQUIVALENTS, SHORT-TERM INVESTMENTS AND INVESTMENTS

The Commonwealth follows the practice of pooling cash and cash equivalents. Cash equivalents consist of short-term investments with an original maturity of three months or less and are stated at cost. Interest earned on pooled cash is allocated to the General Fund and, when so directed by law, to certain other Governmental Funds.

The Office of the Treasurer and Receiver-General (Treasury) manages the Commonwealth's short-term external mixed investment pool, the Massachusetts Municipal Depository Trust (MMDT). MMDT is comprised of two portfolios: a Cash Portfolio and a Short Term Bond Portfolio. The Cash Portfolio is a money-market-like investment pool; its investments are carried at amortized cost. As of June 30, 2017, the MMDT's entire cash fund is included as cash equivalents in the accompanying financial statements. The Short Term Bond Portfolio investments are carried at fair value. As of June 30, 2017, the MMDT's entire bond fund is included as short-term investments in the accompanying financial statements.

Investors in MMDT are not allowed to overdraw their shares. For a complete copy of MMDT's separately issued financial statements, please contact the Office of the State Treasurer's Cash Management Department, at (617) 367-9333 or download the statements from the Cash Management section of the Office of the State Treasurer's website at www.mass.gov/treasury. General Law Chapter 29, Section 38 enumerates the Commonwealth's investment policy for non-pension assets.

The post-employment and OPEB benefit trust funds invest in the Pension Reserves Investment Trust (PRIT) Fund, a diversified external investment pool managed by the Pension Reserves Investment Management (PRIM) Board and are reported at fair value in the accompanying financial statements. The State Employees', Teachers' Public Employee Retirement Systems (PERS) and the State Retirees' Benefit Trust (SRBT) are required to invest in the PRIT Fund and comprise approximately 38.9%, 40.3% and 1.5% respectively, of the net position of the PRIT Fund. For a complete copy of PRIT's separately issued financial statements, contact the PRIM Board at 84 State Street, Boston, MA 02109.

Other Commonwealth investments are comprised of equities (marketable securities) and fixed income securities, as well as interests in alternative investment funds such as private equity, debt and real estate. Marketable securities are reported at fair value based upon quoted market prices. Investments in fixed income securities, including U.S. government agency obligations, are reported at fair value using independent pricing services. In determining the price, the services may reflect such factors as market prices, yields, maturities, and ratings, supplemented by deal quotations. Alternative investments are generally reported at net asset values (NAV) reported by the investment manager for the respective securities, which are used as a practical expedient to estimate the fair value of the Commonwealth's interests therein, unless it is probable that all or a portion of the investment will be sold for an amount different from NAV. As of June 30, 2017, the Commonwealth had no plans or intentions to sell investments at amounts different from NAV.

Reported fair values for shares in registered mutual funds are based on share prices reported by the funds as of the last business day of the fiscal year.

Investments also include pooled investment funds with Commonfund which are valued at fair value based upon estimated net asset values provided by the management of Commonfund. These pooled investment funds are invested in marketable debt and equity securities.

Certificates of deposit and guaranteed investment/annuity contracts are carried at amortized cost.

E. RECEIVABLES

In general, tax revenue is recognized on the government-wide statements when assessed or levied and on the governmental financial statements to the extent that it is both measurable and available, based upon collection experience. If revenue is not received within the availability period, receivables are deferred. Receivables are stated net of estimated allowances for uncollectible accounts.

Reimbursements due to the Commonwealth for its expenditures on federally-funded-reimbursement and grant programs are reported as "Federal grants and reimbursements" or "Due from federal government" in the statement of net position.

"Other Receivables" represent amounts due to Commonwealth including Lottery revenues and Higher Education receivables from students, amounts due to the University of Massachusetts from related organizations and other items. Also included in other receivables for FY17 are amounts due to the Commonwealth under provisions of the Master Settlement Agreement among five tobacco companies and 46 states, including the Commonwealth. Pursuant to provisions of GASB Technical Bulletin No. 2004-1 "Tobacco Settlement Recognition and Financial Reporting Entity Issues", a receivable has been recorded in the general fund for approximately \$126 million, representing 50% of the amounts expected to be received during FY18.

"Loans Receivables" - The MSBA has entered into various loan agreements with municipalities at a 2.0% interest rate with principal to be paid in equal installments for varying terms. Currently, the longest repayment schedule has a final payment in FY43. This program is designed to assist school districts with unanticipated inflationary construction costs over the district's original amount budgeted for a project. The loans outstanding as of June 30, 2017 were \$92.8 million, of which \$6.4 million is due in FY18. During FY17, the MSBA collected \$6.4 million of scheduled principal payments.

F. DUE FROM CITIES AND TOWNS

"Due from Cities and Towns" represents reimbursements due to the Commonwealth for its expenditures on certain programs for the benefit of cities and towns.

G. CAPITAL ASSETS

Capital assets, which include property, plant, equipment and infrastructure (e.g. roads, bridges, ramps and other similar items), are reported in the applicable governmental or business-type activity columns of the government-wide financial statements.

Methods used to value capital assets

Capital assets are recorded at historical cost or estimated historical cost if purchased or constructed. Donated capital assets are recorded at acquisition value at the date of acquisition.

Capitalization policies

All land, non-depreciable land improvements and donated historical treasures or works of art are capitalized. Single pieces of equipment, vehicles, computer equipment and software that equal or exceed \$50,000 are capitalized. Buildings and infrastructure projects with a cost that equals or exceeds \$100,000 are capitalized. The costs of normal maintenance and repairs that do not add to the value of assets or materially extend asset lives are not capitalized.

Capital assets of the Component Units are capitalized upon purchase and depreciated on a straight-line basis over the estimated useful lives of the assets.

Depreciation and useful lives

Applicable capital assets are depreciated using the straight-line method. Unless unallocable, depreciation expense is charged to the function of the capital asset being depreciated. Estimated useful lives are as follows:

| | Estimated Useful Life |
|---|--------------------------|
| Type of Asset | (in years) |
| Buildings | 40 |
| Infrastructure - roads, bridges and tunnels | 40 |
| Infrastructure - beaches, boardwalks, bike ways, etc | 20 |
| Infrastructure - dams, water and sewer systems | 50 |
| Furniture | 10 |
| Library collections that are not historical treasures | 15 |
| Equipment, office equipment and life safety equipment | 10 |
| Computer hardware and software | 3 to 7 |
| Vehicles | 5 |

Construction in process

Construction in process includes all associated cumulative costs of a constructed capital asset. Construction in process is relieved at the point at which an asset is placed in service for its intended use.

H. INTERFUND / INTRAFUND TRANSACTIONS

As a general rule, the effect of interfund activity has been eliminated in the government-wide statements. Exceptions to this rule are: 1) activities between funds reported as governmental activities and funds reported as business-type activities and 2) activities between funds that are reported in different functional categories in either the governmental or business-type activities column. Elimination of these activities would distort the direct costs and program revenues for the functions concerned. Interfund receivables and payables have been eliminated from the government-wide Statement of Net Position, except for the residual amounts due between governmental and business-type activities.

I. STATEWIDE COST ALLOCATION PLAN – FRINGE BENEFIT COST RECOVERY

The Commonwealth has elected not to present its cost allocation and recovery separately on the Statement of Activities. Certain costs of nine "central service" agencies of the Commonwealth are recovered from the remaining agencies in a federally approved statewide cost allocation plan. These costs that are allocated are based upon benefits received by the user agency that benefit from these services. The Commonwealth also appropriates and pays the fringe benefit costs of its employees and retirees, as well as MassDOT employees and retirees, through the General Fund. These fringe benefits include the costs of employees' group health insurance, pensions, unemployment compensation, and other costs necessary to support the workforce. As directed by Massachusetts General Laws, these costs are assessed to other funds based on payroll costs, net of credits for direct payments. Since fringe benefit costs are not separately appropriated or otherwise provided for in these funds, the required assessment creates an unfavorable budget variance in the budgeted funds. The employees' group health insurance and workers' compensation activity is accounted for in the governmental funds.

J. SCHOOL CONSTRUCTION GRANTS, CONTRACT ASSISTANCE AND OTHER PAYABLES

Under the former school building assistance program (prior to the creation of the MSBA) the Commonwealth reimbursed 50% to 90% of approved eligible construction and borrowing costs for school construction and renovation to municipalities and regional school districts for 728 previously approved projects noted by MSBA as Prior Grant projects. The MSBA has assumed responsibility for these projects under its enabling statute.

The MSBA records a liability for its share of total eligible project costs differently depending on the type of project. However, for all projects, the MSBA recognizes a liability for its estimated share of total eligible project costs when the applicable eligibility requirements have been met.

Prior Grants - All of the 728 Prior Grant projects had been receiving an annual payment under the former program. The liability for these projects will be reduced over time through annual payments, and savings from debt refundings by the local communities in which the MSBA shares in the savings based on the reimbursement rate of the project. As of June 30, 2017, the liability for prior grant projects is approximately \$407.8 million.

Waiting List - The MSBA funds Waiting List projects using two different methods, lump sum and progress payments. Each funding method has different eligibility requirements.

Waiting List projects that are under the lump sum method were recognized as a liability once construction started. The liability for these projects will be reduced over time through annual payments and savings from debt refundings by the local communities in which the MSBA shares in the savings based on the reimbursement rate of the project. These projects operate similar to Prior Grant projects.

Under the progress payment method, the MSBA's shares of costs incurred are generally recognized as a liability once a grantee requests reimbursement from the MSBA. Of the \$91 million liability associated with Waiting List projects, the liability related to the progress payment method is approximately \$2 million.

Waiting List projects that are not currently recognized as a liability are considered commitments of the MSBA. As of June 30, 2017, the amount of commitments outstanding for the Waiting List project is \$2 million, and is anticipated to

be funded under the progress payment method.

New Program - The MSBA funds New Program projects on a progress payment basis. Under this process, communities may submit reimbursement requests no more frequently than once per month. Upon review, audit, and approval, the MSBA processes payment for its share of eligible costs incurred. The MSBA's share of costs incurred for New Program projects are recognized as a liability once a grantee's request for reimbursement is reviewed, audited, and approved by the MSBA. The MSBA has recorded a liability of \$39.9 million in the governmental funds for reimbursements received, reviewed, and approved for payment by June 30, 2017. Additionally, a liability of \$140.6 million was recorded for the reimbursements not reviewed or approved for payment prior to June 30, 2017, as well as final project hold back payments subject to final audit and Board approval after year end. The long-term portion of this liability is estimated at \$19 million. New Program projects that are not currently recognized as a liability are considered commitments of the MSBA. As of June 30, 2017, the amount of commitments outstanding for the New Program projects is \$949 million, and will be funded under the progress payment method.

For all projects, regardless of the funding mechanism, costs incurred by the grantees are subject to audit by the MSBA. Completion of these audits will allow the MSBA to determine the final approved cost of these projects, and the MSBA will adjust the payments it makes for these projects, as necessary, in accordance with the results of those audits.

As of June 30, 2017, MSBA had an outstanding liability of \$180.5 million, and \$949 million of commitments outstanding, for the New Program projects. The Commonwealth dedicates a 1% statewide sales tax (drawn from the existing statewide 6.25% sales tax), excluding sales tax revenues on meals and from certain additional statutorily exempted revenues from sales, to the School Modernization and Reconstruction Trust Fund (the "SMART Fund"), in support of these grant programs and for all other operations of the MSBA, including debt service.

The Commonwealth recognizes contract assistance on an annual basis due to the Massachusetts Clean Water Trust (the Trust). This assistance is applied as a subsidy to repayments from the Trust loan borrowers. The expectation is that the assistance will be available for the life of the Trust financing agreement. The assistance is drawn from the Commonwealth on a 20-year repayment stream, even if the loan is for a longer period. If there is a differential between the assistance received and the amounts needed for loan subsidies, that amount is invested by the Trust in an annuitized fashion to be used beyond year 20. If assistance is not provided by the Commonwealth, the Trust borrower is obligated for any shortfall.

Accounts payable includes amounts due to vendors of the Commonwealth for goods and services delivered before June 30th but paid for after year-end, the largest of which is Medicaid for \$1.789 billion.

K. COMPENSATED ABSENCES

Compensated absences are recorded as a long-term liability in the Statement of Net Position. For the governmental fund statements, accumulated vacation and sick leave are reported as expenditures and fund liabilities when incurred upon retirement, termination or death. Sick and vacation payments to terminated employees as of June 30, 2017 but paid after the fiscal year ends are also reported in the funds.

Employees are granted vacation and sick leave in varying amounts based on collective bargaining agreements and state laws. Upon retirement, termination or death, certain employees are compensated for unused vacation and sick leave (subject to certain limitations) at their current rate of pay.

Compensated absences in the governmental funds are liquidated from the same sources that fund the personnel expenses of the employees who are compensated for unused vacation and sick leave pay. In most cases, this is the General Fund, but also includes non-General Fund sources to the extent that personnel expenses are charged to those funding sources. In the business-type activity and the discretely presented component units, employees' accumulated vacation and sick leave are recorded as an expense and liability as the benefits accrue.

L. DEDICATED REVENUES AND PLEDGES

The Commonwealth has a number of pledges of revenue streams for its own bonds and various other bond issues of other authorities. Commonwealth debt supported by dedicated revenue streams include special obligation bonds for road and bridge construction secured by motor fuels taxes and federal grant anticipation notes (GANS) secured by federal grants for highway construction. Detailed information on pledges for the Commonwealth's own debt is included in sections B and C of Note 7, on pages 99–100.

The Commonwealth dedicates receipts from the sales tax (other than the tax on meals) to the Massachusetts Bay Transportation Authority (MBTA) and the Massachusetts School Building Authority (MSBA). Each entity receives 1.0% of the sales tax. The MBTA's portion is subject to an inflation-adjusted floor.

The amount dedicated to the MBTA is accounted for in a nonbudgeted special revenue fund and is subject to adjustment equal to the lesser of the annual increase in the Boston consumer price index or prior calendar year annual sales taxes, with a floor of 0.0% and a ceiling of 3.0%. Legislation approved by the Governor on October 31, 2014 increased the amount statutorily required to be credited to the MBTA by \$160 million annually, starting in fiscal 2015. The \$160 million increase in the dedicated sales tax revenue amount and the amount included in the inflation-adjusted floor was intended to replace the \$160 million annual state appropriation the MBTA received from fiscal 2010 through fiscal 2014.

In FY17, approximately \$997 million and \$818 million of the dedicated sales tax revenue stream was directed to the MBTA and the MSBA, respectively.

The Commonwealth has also pledged sales tax revenue and rooms tax surcharges from areas contiguous to convention centers and the Worcester DCU Arena and Convention Center to support such centers' operations. As of June 30, 2017, taxes within the Convention Center districts support approximately \$575 million of outstanding principal and approximately \$323 million of interest on debts related to these Convention Centers. Taxes collected in FY17 were approximately \$135 million, while debt service on the bonds was approximately \$55 million.

Under additional transportation finance reform effective July 1, 2013, motor vehicle sales tax collections were shifted from the General Fund to the Commonwealth Transportation Fund (CTF), while also eliminating a 0.385% pledge of regular and meals sales tax to the CTF. During FY17, approximately \$548 million in motor vehicle sales tax revenue was transferred to MassDOT. From the Commonwealth Transportation Fund, \$140 million was dedicated to funding the operations of the MBTA while an additional \$82 million was dedicated to funding the operations of the regional transit authorities. These amounts are transferred through the CTF.

M. LOTTERY REVENUE AND PRIZES

Ticket revenues and prizes awarded by the Massachusetts Lottery Commission are recognized as drawings are held. For certain prizes payable in installments, the Commonwealth purchases annuities and principal-only and interest-only treasury strips in the Commonwealth's name, which are recorded as annuity contracts and prizes payable in the agency fund and on the Statement of Net Position. Though the annuities are in the Commonwealth's name in the case of a default, they are solely for the benefit of the prizewinner. The Commonwealth retains the risk related to such annuities.

N. RISK FINANCING

The Commonwealth self-insures for employees' workers' compensation, casualty, theft, tort claims and other losses. Such losses, including estimates of amounts incurred but not reported, are included as accrued liabilities in the accompanying financial statements when the loss is incurred. For employees' workers' compensation, the Commonwealth assumes the full risk of claims filed under a program managed by the Human Resources Division. For personal injury or property damages, Massachusetts General Laws limit the risk assumed by the Commonwealth to \$100,000 per occurrence, in most circumstances. The Group Insurance Commission administers health care and other insurance for the Commonwealth's employees and retirees.

O. DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES

Deferred outflows of resources are defined as a consumption of net assets by the government that is applicable to a future reporting period. Deferred inflows of resources are defined as an acquisition of net assets by the government that is applicable to a future reporting period. Deferred outflows of resources increase net position, similar to assets, and deferred inflows of resources decrease net position, similar to liabilities.

P. NET POSITION

The Commonwealth reports net position as restricted where legally segregated for a specific future use by enabling legislation. Otherwise, these balances are considered unrestricted.

Net position has been restricted as follows:

"Restricted for unemployment benefits" – identifies amounts solely for the payment of unemployment compensation under federal labor laws.

"Restricted for retirement of indebtedness" – identifies amounts held by fiscal agents to fund future debt service obligations pertaining to Special Obligation Revenue Bonds authorized under Section 20 of Chapter 29 of the Massachusetts General Laws and Chapter 33, Acts of 1991. It also includes amounts held for Grant Anticipation Notes authorized by Chapter 11 of the Acts of 1997 and Chapter 121 of the Acts of 1998.

"Restricted for other purposes" – identifies amounts held for various externally imposed restrictions either by creditors, grantors or laws and regulations of other governments.

As of June 30, 2017, the government-wide statement of net position reports the following as restricted net position (amounts in thousands):

| | G | overnmental Activities | Business Type Activities | | Government Wide Total | |
|--|----|---------------------------|-----------------------------|-----------|--------------------------|-----------|
| Restricted for: | | | | | | |
| Unemployment benefits | \$ | _ | \$ | 1,473,220 | \$ | 1,473,220 |
| Retirement of indebtedness | | 1,021,280 | | _ | | 1,021,280 |
| Restricted for other purposes including: | | | | | | |
| Higher education endowment funds | | _ | | 27,916 | | 27,916 |
| Higher education academic support and programs | | _ | | 1,900 | | 1,900 |
| Higher education scholarships and fellowships: | | | | | | |
| Nonexpendable | | _ | | 3,486 | | 3,486 |
| Expendable | | _ | | 7,321 | | 7,321 |
| Other nonexpendable purposes | | _ | | 2,984 | | 2,984 |
| Capital projects - expendable trusts | | _ | | 2,350 | | 2,350 |
| Other purposes | | 905,436 | | 216,398 | | 1,121,834 |
| Total restricted net position | \$ | 1,926,716 | \$ | 1,735,575 | \$ | 3,662,291 |

The net position of the Post-Employment Benefit and OPEB Trust Funds and the Pension Reserves Investment Trust portion of the External Investment Trust Funds are restricted for post-employment benefits. These restrictions identify resources held in trust for the members and beneficiaries of the Commonwealth's post-employment benefit plans. The Pension Reserves Investment Trust portion of the External Investment Trust Funds also includes pooled cash and pension assets held under the custodianship of the Commonwealth for the benefits of cities, towns and other political subdivisions of the Commonwealth.

Q. SERVICE CONCESSION AGREEMENTS

The higher education institutions of the Commonwealth (State Universities and Colleges) enter in to services concession agreements for campus dining facilities and bookstores. In exchange for these agreements the vendors provide contributions to the institutions to improve the facilities as well as revenue sharing arrangements. All improvements and equipment purchased with the payments remain the property of institutions. The contracts range from five to eighteen years in duration. These agreements generate deferred inflows of resources, and liability for the unamortized portion of assets transferred. Per terms of the agreements, either party can terminate the agreement at any time, without cause, by providing a written notice. In the event of termination, the unamortized portion is to be returned. Following is a summary of amounts of the arrangements as of June 30, 2017 (amounts in thousands):

| State Universities | \$ 12,810 |
|--------------------|--------------|
| Community Colleges | 484 |
| Total | \$ 13,294 |

The amount of assets and liabilities associated with these service concession agreements are immaterial and are not disclosed in these footnotes.

R. RECLASSIFICATIONS / RESTATEMENTS

Certain amounts in the separately issued component units' financial statements have been reclassified to conform to the accounting classifications used by the Commonwealth.

MassDOT, a discretely presented component unit, restated their beginning net position from \$25.615 billion, as previously reported, to \$25.617 billion due to a change in accounting principle by certain Regional Transit Authorities,

which are discretely presented component units of MassDOT.

S. ESTIMATES

The preparation of the Comprehensive Annual Financial Report requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures at the date of the financial report.

Estimates also affect the reported amounts of revenues and expenditures during the reporting period. Actual results could differ from those estimates.

T. PENSIONS

For purposes of measuring the net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the State Employees' Retirement System (SERS) and the Massachusetts Teachers' Retirement System (MTRS) and additions to/deductions from the SERS and the MTRS fiduciary net position have been determined on the same basis as they are reported by SERS and MTRS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

For purposes of measuring the liability, deferred outflows of resources and deferred inflows of resources, and expense associated with the Commonwealth's requirement to contribute to the Boston Retirement System (BRS) for Boston teachers, information about BRS's fiduciary net position and additions to/deductions from BRS's fiduciary net position have been determined on the same basis as they are reported by BRS. For this purpose, benefit payments (including refunds of contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

U. SIGNIFICANT NEW ACCOUNTING PRONOUNCEMENTS

The Commonwealth has implemented the following significant new accounting pronouncements during FY17:

GASB Statement 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans. This Statement replaces GASB Statement No. 43, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans, and specifies the required approach to measuring the OPEB liability for plans administered through trusts or equivalent arrangements. This Statement requires the plan to calculate a net OPEB liability to be measured as the total OPEB liability less the amount of OPEB plan's fiduciary net position. See Note 10 for further information.

GASB Statement 77, *Tax Abatement Disclosures*. This Statement addresses financial reporting standards for tax abatement agreements entered into by state and local governments. See <u>Note 3B</u> for further information on tax abatements.

2. DEPOSITS, SHORT-TERM INVESTMENTS AND INVESTMENTS

Primary Government

The Commonwealth's cash and cash equivalents and restricted cash is comprised of the following (amounts in thousands):

| | vernmental Activities | Bı | usiness-Type Activities | | vernment ide Total | | Fiduciary Funds |
|-----------------------------------|--------------------------|----|----------------------------|--------|-----------------------|-----|--------------------|
| Cash | \$ 26,506 | \$ | 514,870 | \$ 5 | 541,376 | (1) | \$ 517,257 |
| MMDT - cash fund | 3,725,996 | | 539,767 | 4,2 | 265,763 | (1) | 4,140,773 |
| Restricted cash with fiscal agent | 574,959 | | _ | | 574,959 | | |
| Total | \$ 4,327,461 | \$ | 1,054,637 | \$ 5,3 | 382,098 | | \$ 4,658,030 |

⁽¹⁾ of which \$484,659 is presented as restricted cash in the accompanying financial statements.

Lottery Annuity Contracts and U.S. Treasury Strips

The Massachusetts State Lottery Commission, a division of the Office of the State Treasurer and Receiver–General, purchases annuity contracts from insurance companies and United States treasury strips to fund the Commonwealth's liability for future installment prize obligations. These annuities and treasury strips represent obligations of the insurance companies and the custodial banks, respectively, to provide a fixed series of payments over a specified period. Only the annuity investments are subject to credit risk. For the annuity contracts, risk is controlled by purchasing these investments only from insurance companies with the top two ratings issued by a national recognized ratings organization. However, due to the nature of these annuity contracts, the credit quality of the insurance company issuer is subject to change. As of June 30, 2017, the amortized cost of annuities was approximately \$103 million. At June 30, 2017, the U.S Treasury Strips have a fair value of approximately \$960 million. Approximately 90.3% of these amounts are held in United States Treasury strips at a custodial bank. No insurance company has an amount of annuities over 5.1% of the overall portfolio.

MSBA Deposits and Investments

The MSBA is authorized to invest in obligations of the US Treasury, its agencies and instrumentalities, bonds or notes of public agencies or municipalities, bank time deposits, guaranteed investment contracts, money market accounts and repurchase agreements. These investments are recorded at fair value. The MSBA has an investment policy that establishes the minimum credit quality for certain instruments, outlines investment procedures and updates for periodic reporting. The MSBA investment policy does not specifically limit the amount the MSBA may invest in any one issuer.

As of June 30, 2017, the MSBA held the following deposits and investments which are a component of Governmental Activities above (amounts in thousands):

| Cash and cash equivalents | \$ 218,590 |
|-----------------------------------|-----------------|
| Restricted cash with fiscal agent | 374,199 |
| Restricted investments | 997,191 |
| Total | \$ 1,589,980 |

Custodial Credit Risk - Pooled Cash

Custodial credit risk is the risk that in the event of a bank failure, deposits and investments may not be returned to the Commonwealth. Cash balances represent amounts held in bank depository accounts that may be subject to custodial credit risk.

The Commonwealth requires all bank deposits in excess of insurance coverage by the Federal Deposit Insurance

Corporation (FDIC) to be collateralized with a perfected pledge of eligible collateral or a letter of credit. For programs created by the Treasury, such as the Small Business Banking Program, eligible collateral must be pledged in an amount equal to 102% of the amount of the deposits that exceed FDIC insurance. Sufficient collateral to cover total Commonwealth deposits in excess of the FDIC insured amount must be pledged and held in safekeeping by a custodian that is approved by and under the control of the Treasurer and Receiver General.

Membership by a financial institution in the Depositors Insurance Fund (DIF) or the Share Insurance Fund (SIF) will be accepted by the Treasurer and Receiver General's Office as alternative security, provided that the financial institution submits proof of membership in the DIF or the SIF. Membership in the DIF is limited to Massachusetts chartered savings banks while membership in the SIF is limited to Massachusetts cooperative banks.

Custodial Credit Risk - Higher Education

The Institutions of Higher Education have investment policies that may vary by institution for custodial credit risk. Each institution carries deposits that are fully insured by the FDIC, as well as uninsured deposits. As of June 30, 2017, the bank balances of uninsured deposits totaled approximately \$431 million.

Custodial Credit Risk - MSBA

The MSBA does not have a formal investment policy for custodial credit risk. The MSBA carries deposits that are fully insured by the Federal Deposit Insurance Corporation (FDIC) insurance, as well as deposits that are fully collateralized. As of June 30, 2017, all MSBA bank balances were fully protected against loss.

Interest Rate Risk - MMDT

Interest rate risk is the extent that changes in interest rates of debt investments will adversely affect the fair value of an investment. These investments include certain short–term cash equivalents, various long-term items and restricted assets by maturity in years. The Treasury cash portfolio minimizes the risk of the market value of securities falling due to changes in interest rates by maintaining a dollar-weighted average portfolio maturity of 60 days or less. The Treasury cash portfolio's assets are managed to maintain a dollar-weighted average life to maturity of 120 days or less.

The MMDT Cash Portfolio's dollar-weighted average maturity fluctuated from 51 days on July 1, 2016 to 43 days on June 30, 2017.

Investments in the MMDT Short Term Bond Portfolio are made in investment-grade securities as defined by national statistical rating agencies. The Commonwealth assesses risk for the Short Term Bond Portfolio by using duration. Duration is the weighted maturity of the security's cash flows, where the present values of the cash flows serve as weights.

For the MMDT Short Term Bond Portfolio, the duration fluctuated from 2.7 to 2.6 years. At June 30, 2017, investments in the MMDT Short Term Bond Portfolio had a total net position of \$769 million with investment maturities ranging from less than one year to more than ten years. At June 30, 2017, the Short Term Bond Portfolio's effective maturity schedule was as follows:

| Percentage of Total Net Position | | | | |
|--|--|--|--|--|
| 18.0% | | | | |
| 69.3% | | | | |
| 8.6% | | | | |
| 0.0% | | | | |
| 95.9% | | | | |
| | | | | |

^{*}The remaining 4.1% consists of cash equivalents and other assets.

Interest Rate Risk - Higher Education

As of June 30, 2017, the Institutions of Higher Education had debt investments stated at fair value of approximately \$300 million and had investment maturities ranging from less than one year to more than ten years, with approximately 32.1% of the investment's fair values maturing in less than 1 year, approximately 49.7% from one to five years, approximately 7.9% from six to ten years, and approximately 10.3% more than ten years.

Interest Rate Risk - MSBA

The MSBA's investment policy does not specifically limit investment maturities as a means of managing its exposure to fair value losses arising from interest rates. As of June 30, 2017, the MSBA had approximately \$200 million invested in a collateralized guaranteed investment contract and approximately \$500 million invested in U.S. Treasury Bonds and Municipal Bonds. These investments are included in restricted investments on the balance sheet. The guaranteed investment contract matures on August 15, 2030 while the U. S. Treasury Bonds and Municipal Bonds mature from 2019 to 2045. These investments represent approximately 50% of the MSBA's total investments in debt service funds and debt service reserve funds.

Interest Rate Risk - Agency Funds

The agency funds hold certain debt investments in trust as collateral for regulatory purposes. As of June 30, 2017, these investments had a fair value of approximately \$553 million, with investment maturities ranging from less than one year to more than ten years. Of the total fair value, approximately 23.6% has maturities of less than one year, 44.4% from one to five years, 18.8% from six to ten years and 13.2% greater than ten years.

Credit Risk – MMDT

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The Commonwealth, exclusive of Pension Trust Funds, minimizes concentration of credit risk, the risk attributed to the magnitude of the investment in a single issuer. The Commonwealth's investment policy prohibits the Treasury from investing more than 5% of the total investment portfolio in any single financial institution or issuer, excluding various public entity securities and repurchase agreements. However, there are no restrictions on the amount that can be invested in public entity securities and the portfolio may be invested in U.S. Treasury and other Government Sponsored Enterprises (GSE's) obligations and repurchase agreements.

The Treasury cash portfolio is invested only in First Tier and Second Tier Securities as defined by the Securities and Exchange Commission's Rule 2A-7 of the <u>Investment Company Act of 1940</u>. The Treasury does have additional policies regarding credit ratings of investments which can be found at http://www.mymmdt.com/MMDT/daf/pdf/products/regulatory/G44885-27.pdf. At June 30, 2017, the Cash Portfolio's securities were all rated as First Tier. At June 30, 2017, the Short Term Bond Portfolio's follows:

| Portfolio Composition | Percentage of Total Net Position | | | | |
|-----------------------|--|--|--|--|--|
| AAA | 62.7% | | | | |
| AA | 2.9% | | | | |
| A | 14.3% | | | | |
| BBB | 16.0% | | | | |
| Total* | 95.9% | | | | |

^{*} The remaining 4.1% consists of cash equivalents and other assets.

Credit Risk - Higher Education

For the Institutions of Higher Education presented in the Business-Type Activities, fair values of debt investments were approximately \$75 million at AAA, approximately \$65 million from AA+ to A- and approximately \$160 million either unrated, BBB+ or less.

Credit Risk - MSBA

The MSBA's investment policy generally limits investments in fixed income products with institutions that have an investment grade rating as determined by one of the nationally recognized rating agencies. The MSBA's policy requires issuers of investment contracts to be rated AA or above by at least two of the nationally recognized rating agencies or A with pledged collateral equal to 102% of the principal balance. As of June 30, 2017, the guaranteed investment contracts were not rated; however, the issuer was rated AA by Standard & Poor's and A2 by Moody's and the guaranteed investment contracts were collateralized.

As of June 30, 2017, the MSBA's investments in municipal bonds were rated AA+ or above.

Credit Risk – Agency Funds

The agency funds debt investments with a fair value of \$553 million, of which approximately \$316 million were in U.S Government securities. Of the remaining \$237 million the majority were investment grade or above.

Interest Rate Risk - PRIT Funds

As pension and OPEB trust funds have a longer investment horizon than many of the Commonwealth's other investments, the PRIM Board manages PRIT's exposure to fair value loss arising from movements in interest rates by establishing duration guidelines with its fixed income investment managers. The guidelines with each individual manager require that the effective duration of the domestic fixed income investment portfolio be within a specified percentage or number of years of the effective duration band of the appropriate benchmark index. For emerging markets fixed income investments, the portfolio must have a duration with a band ranging from three to eight years.

Effective duration is a measure of a fixed income investment's exposure to fair value changes arising from changes in interest rates. Effective duration makes assumptions regarding the most likely timing and amounts of variable cash flows. These assumptions take into consideration factors indicative of investments highly sensitive to interest rate changes, including callable options, prepayments and other factors.

The PRIM Board compares the effective duration of a manager's portfolio to their relevant benchmark including Barclays Capital Aggregate index, US Treasury STRIPS 20+ Year index, Barclays Capital US TIPS index, Barclays Capital Inflation Linked Bonds index, S&P LSTA Leveraged Loan index, JP Morgan Global Emerging Markets Bond index, JP Morgan Global Diversified Emerging Markets Bond index, and the Merrill Lynch High Yield Master II index. The PRIT Fund had fixed income and short-term investments totaling approximately \$16.689 billion at fair value with an effective weighted average duration range from 0.15 to 16.31 years at June 30, 2017.

Credit Risk - PRIT Funds

The PRIM Board establishes credit investment guidelines with each of its fixed income securities investment managers in establishing a diversified portfolio. These guidelines vary depending on the manager's strategy and the role of its portfolio to the overall diversification of the PRIT fund. The guidelines for the PRIT Fund's core fixed income portfolio establish the minimum credit rating for any security in the portfolio and the overall weighted average credit rating of the portfolio. The guidelines for the PRIT Fund's high yield, fixed income portfolio establish a market value range of securities to be held with a specific minimum credit rating and the overall weighted average credit rating of the portfolio.

Credit risk for derivative instruments held by PRIT results from counterparty risk. PRIT is exposed to credit risk resulting from counterparties being unable to meet their obligations under the terms of the derivative agreements. The weighted average quality rating of the debt securities portfolio, excluding pooled investments, investments explicitly backed by the United States Government and other nonrated investments was BBB+ at June 30, 2017.

Credit ratings associated with the Commonwealth's investment in the PRIT Fund ranged from AAA to A- investments with a fair value of approximately \$2.277 billion, BBB+ to B- investments with a fair value of approximately \$2.356 billion, \$192 million rated CCC+ to D, \$6.810 billion are unrated, and the remaining \$5.361 billion are investments that are explicitly backed by the U. S. Government.

Foreign Currency Risk - PRIT Funds

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of investments. The Treasury does not have a policy regarding foreign currency risk for the Pension Trust. The PRIM Board manages PRIT's exposure to foreign currencies by hedging a percentage of PRIT's non-U.S. dollar denominated investments through forward foreign currency contracts. The PRIT Fund's investments in foreign currency denominated investments as of June 30, 2017 were approximately \$297 million in cash and investments, \$15.257 billion in equities, \$1.566 billion in fixed income investments, \$221 million in portfolio completion strategies, \$1.123 billion in private equity investments and \$223 million in timber investments. An additional \$3.170 billion is invested in international investments denominated in U. S. dollars.

Concentration of Credit Risk - PRIT

The PRIM Board manages PRIT's exposure to concentration of credit risk by establishing guidelines with each investment manager that limit the percent of investment in any single issue or issuer.

PRIT has no investments at fair value that exceed 5% of PRIT's net position held in trust for pool participants as of June 30, 2017.

A. DERIVATIVE INSTRUMENTS

PRIT may invest in derivative instruments. In accordance with GASB Statement No 53, *Accounting and Financial Reporting for Derivative Instruments*, PRIT's derivatives are accounted for as investment derivatives and are reported at fair value.

Forward Currency Contracts

PRIT enters into forward currency contracts to hedge the exposure to changes in foreign currency exchange rates on foreign portfolio holdings. The market value of the contracts will fluctuate with changes in currency exchange rates. Risks may arise from the potential inability of counterparties to meet the terms of their contracts and from unanticipated movements in the value of a foreign currency relative to the U.S. dollar.

The contracts are marked-to-market daily and the change in fair value is recorded as an unrealized gain or loss by PRIT.

When a contract is closed, PRIT records a realized gain or loss equal to the difference between the value of the contract at the time it was opened and the value at the time it was closed.

As of June 30, 2017, PRIT had open foreign exchange contracts with combined net unrealized loss of approximately \$5 million with various delivery dates.

Further information on derivative instruments can be found in the notes to PRIT's basic financial statements.

Futures Contracts

PRIT may purchase and sell financial futures contracts to hedge against changes in the values of securities the fund owns or expects to purchase.

Upon entering such contracts, they must pledge to the broker an amount of cash or securities equal to a percentage of the contract amount.

The potential risk is that the change in the value of futures contracts may not correspond to the change in the value of underlying instruments, which may not correspond to the change in value of the hedged instruments. In addition, there is a risk that PRIT may not be able to close out its future positions due to a non-liquid secondary market. Risks may also arise from the potential inability of a counterparty to meet the terms of a contract and from unanticipated movements in the value of a foreign currency relative to the U.S. dollar.

PRIT may also invest in financial futures contracts for non-hedging purposes.

PRIT held contracts outstanding at June 30, 2017 with various expirations from FY18 to FY20. These contracts are for cash and cash equivalents, fixed income, equities and commodities. A portion of the contracts were short contracts. The aggregated notional exposure amount as of June 30, 2017 was approximately \$480 million with a fair value of \$477 million, yielding an unrealized net loss of approximately \$3 million.

Payments are made or received by PRIT each day, depending on the daily fluctuations in the value of the underlying security and are recorded as unrealized gains or losses. When the contracts are closed, the PRIT Fund recognizes a realized gain or loss.

Swaps - PRIT

PRIT has entered into swap agreements to gain exposure to certain markets and actively hedge other exposures to market and credit risk. The swap contracts are reported at fair value, which represents their estimated liquidation values on costs. PRIT either receives cash from the swap counterparties or pays the swap counterparties monthly depending on whether the fixed-rate interest is lower or higher than the variable-rate interest. Changes in fair value are included as part of investment income.

As of June 30, 2017, PRIT had contracts in effect with an aggregated notional amount of approximately \$1.845 billion to various investment banks that had maturity dates from FY18 to FY63. The contracts have an aggregate fair value gain of approximately \$7 million. PRIT values these contracts using standard methods and techniques including the discounted cash flow analysis and option pricing models.

PRIT's counterparty exposure was with various major investment companies with ratings ranging from AA- to A- and various other banks with other ratings. Open swap contracts as of June 30, 2017 were as follows (amounts in thousands):

| | | Interest Rate | | st Rate Swaps | | Credit Default Swaps | | | | Inflation Swaps | | | aps |
|--|-------------------|-------------------|----|---------------|---------------|----------------------|-------------------|----|---------------|-----------------|-------------------|----|---------------|
| Counterparty | Credit Ratings | Gross Notional | l | | Fair Value | N | Gross Notional | | Fair /alue | | Gross Notional | _ | Fair Value |
| Bank of America NA | A+ | \$ | _ | \$ | _ | \$ | 12,008 | \$ | (781) | \$ | _ | \$ | _ |
| Barclays Bank PLC | A- | | _ | | _ | | 6,568 | | (155) | | 89,635 | | (814) |
| CME Group Inc | AA- | 512,7 | 99 | | 5,396 | | _ | | _ | | _ | | _ |
| Goldman Sachs | A+ | | _ | | _ | | 20,800 | | (607) | | 10,529 | | (71) |
| Intercontinental Exchange Holdings Inc | A | | _ | | _ | | 50,123 | | 1,303 | | _ | | _ |
| LCH. Clearnet Ltd | A | 258,1 | 48 | | 3,489 | | _ | | _ | | 71,252 | | (92) |
| SMBC Capital Markets Inc | A+ | 250,0 | 00 | | (2,443) | | _ | | _ | | _ | | _ |
| U.S. Bank National Association | A+ | 500,0 | 00 | | 1,265 | | _ | | _ | | _ | | _ |
| All others | Various | 12,7 | 13 | | 305 | | 21,687 | | (165) | | 28,657 | | (61) |
| Totals | | \$ 1,533,6 | 60 | \$ | 8,012 | \$ | 111,186 | \$ | (405) | \$ | 200,073 | \$ | (1,038) |

B. DISCRETELY PRESENTED COMPONENT UNIT INVESTMENTS

Component units invest in derivative transactions. Detailed information on those transactions is found in the notes to the basic financial statements of those component units.

C. FAIR VALUE MEASUREMENTS OF INVESTMENTS

In accordance with GASB 72, the Commonwealth categorizes the fair value measurements of its investments within the fair value hierarchy established by generally accepted accounting principles. The fair value hierarchy categorizes the inputs to valuation techniques used for fair value measurement into three levels as follows:

- Level 1 Inputs are quoted prices for identical investments in active markets.
- Level 2 Observable inputs other than quoted market prices.
- Level 3 Unobservable inputs.

The fair value hierarchy gives the highest priority to Level 1 inputs and the lowest priority to Level 3 inputs. In certain instances where the determination of the fair value measurement is based on inputs from different levels of the fair value hierarchy the level in the fair value hierarchy is based on the lowest level of input that is significant to the fair measurement.

The following tables present a summary of the fair value hierarchy of investments at June 30, 2017 (amounts in thousands):

| | | Level | | | | | | |
|--|--------------|----------|-----------|----|---------|-------------|--|--|
| Primary government | Total | | 1 | | 2 | 3 | | |
| Debt securities: | | | | | | | | |
| US Treasury and agency securities | \$ 527,318 | \$ | 525,568 | \$ | 1,750 | \$ _ | | |
| Municipal securities | 110,194 | | 15,845 | | 94,349 | _ | | |
| Institutional money market funds | 200,618 | ; | 197,201 | | 3,417 | _ | | |
| Corporate debt/bonds | 78,958 | ; | 5,350 | | 73,371 | 237 | | |
| Corporate stock | 6,408 | 3 | 6,408 | | _ | _ | | |
| Asset backed securities | 20,571 | | _ | | 20,571 | _ | | |
| Registered investment companies | 60,665 | i | 60,665 | | _ | _ | | |
| Mortgage backed securities | 9,957 | , | _ | | 9,957 | _ | | |
| Other fixed income | 161,353 | <u> </u> | 147,948 | | 13,405 | | | |
| Total debt securities | 1,176,042 | <u> </u> | 958,985 | | 216,820 | 237 | | |
| Equity securities | 285,937 | <u> </u> | 284,687 | | | 1,250 | | |
| Other investments: | | | | | | | | |
| Commodities | 8,330 |) | 8,330 | | | _ | | |
| REITS | 18,029 |) | 18,029 | | _ | _ | | |
| Total other investments | 26,359 |) | 26,359 | | _ | _ | | |
| Investments measured at the Net Asset Value (NAV): | | | | | | | | |
| Commonfund (pooled investment funds) | 203,918 | ; | | | | | | |
| Private equity | 3,402 | 2 | | | | | | |
| Private debt | 19,221 | | | | | | | |
| Private real estate | 3,829 |) | | | | | | |
| Other | 358 | 3_ | | | | | | |
| Total investments measured at the NAV | 230,728 | | | | | | | |
| Other investments at fair value: | | | | | | | | |
| MMDT - bond fund | 372,634 | _ | | | | | | |
| Subtotal investments at fair value | 2,091,700 | | 1,270,031 | \$ | 216,820 | \$ 1,487 | | |
| Other investments: | | | | | | | | |
| Guaranteed investment contracts | 200,099 |) | | | | | | |
| Certificates of deposit | 17,445 | i | | | | | | |
| Other | 298,122 | <u>!</u> | | | | | | |
| Total other investments | 515,666 | <u>.</u> | | | | | | |
| Total investments - primary government | \$ 2,607,366 | <u>-</u> | | | | | | |
| Investment derivative instruments: | | | | | | | | |
| Interest rate swaps (liabilities) | \$ 278,114 | \$ | | \$ | 278,114 | \$ | | |

Included in the preceding schedule is approximately \$18 million of various money mutual fund investments related to the business type activities which are classified as cash equivalents in the accompanying financial statements.

Lottery annuity contracts and U.S. Treasury Strips of approximately \$1.062 billion as of June 30, 2017 is presented in governmental activities on the Statement of Net Position and also in the fiduciary funds as further explained in the Reconciliation of Fund Balances to the Statement of Net Position. In these fair value tables, the Lottery annuity contracts and U.S. Treasury Strips are presented solely in the fiduciary funds below.

| | | | Level | |
|--|---------------|--------------|-----------|-----------|
| Fiduciary funds: | Total | 1 | 2 | 3 |
| Debt securities: | | | | |
| US Treasury securities | \$ 1,301,936 | \$ 1,301,936 | \$ | \$ |
| Bonds | 96,142 | | 96,142 | |
| Total debt securities | 1,398,078 | 1,301,936 | 96,142 | |
| Equities: | | | | |
| Domestic equities | 57,558 | 57,558 | | |
| Investments measured at the Net Asset Value (NAV): | | | | |
| Mutual funds | 57,146 | | | |
| Other investments at fair value: | | | | |
| MMDT - bond fund | 39,052 | | | |
| Net investment in PRIT | 66,850,441 | | | |
| Total other investments at fair value | 66,889,493 | | | |
| Subtotal investments at fair value | 68,402,275 | \$ 1,359,494 | \$ 96,142 | <u>\$</u> |
| Other investments: | | | | |
| Annuity contacts | 102,545 | | | |
| Total investments - fiduciary funds | \$ 68,504,820 | | | |

3. RECEIVABLES AND TAX ABATEMENTS

A. RECEIVABLES

Taxes, federal reimbursements, loans and other receivables are presented in the statement of net position, exclusive of amounts due from cities and towns and component units as follows (amounts in thousands):

| Primary Government | J | Taxes Receivable | deral Grants and mbursements | Loans | R | Other Receivables | Total |
|---|----|---------------------|------------------------------------|---------------|----|----------------------|-----------------|
| Governmental Activities: | | | | | | | |
| Gross receivables | \$ | 4,945,122 | \$ 2,405,158 | \$ 107,433 | \$ | 1,414,182 | \$ 8,871,895 |
| Less: allowance for uncollectibles | | (1,422,245) | (31,599) | | | (1,078,677) | (2,532,521) |
| Receivables, net allowance for uncollectibles | | 3,522,877 | 2,373,559 | 107,433 | | 335,505 | 6,339,374 |
| Less: current portion | | (3,007,944) | (2,302,979) | (7,094) | | (265,878) | (5,583,895) |
| Noncurrent receivables | \$ | 514,933 | \$ 70,580 | \$ 100,339 | \$ | 69,627 | \$ 755,479 |
| Business-Type activities: | | | | | | | |
| Gross receivables | \$ | _ | \$ 102,783 | \$ 73,615 | \$ | 1,016,672 | \$ 1,193,070 |
| Less: allowance for uncollectibles | | | (1,383) | (5,282) | | (325,904) | (332,569) |
| Receivables, net allowance for uncollectibles | | _ | 101,400 | 68,333 | | 690,768 | 860,501 |
| Less: current portion | | | (101,400) | (60,311) | | (628,536) | (790,247) |
| Noncurrent receivables | \$ | | \$ | \$ 8,022 | \$ | 62,232 | \$ 70,254 |
| | | | | | | | |

B. TAX ABATEMENTS

As of June 30, 2017, the Commonwealth provided tax abatements through the following three programs: The Massachusetts Economic Development Incentive Program Credit (EDIP), Life Sciences Tax Incentive Program and the Film Tax Credit.

Economic Development Incentive Program

Under the Economic Development Incentive Program (EDIP), companies receive state and local tax incentives in exchange for job creation, manufacturing job retention and private investment commitments. On or after January 1, 2010 and before January 1, 2017, the Economic Assistance Coordination Council (EACC) may award to taxpayers up to 40% of the cost of qualifying properties as credits to certain certified projects ("expansion project", "enhanced expansion project", or a "manufacturing retention project"). The EACC may also award EDIP credits of up to \$1,000 per job (\$5,000 per job in gateway municipalities) to certified job creation projects. The total award for a project may not exceed \$1 million. On or after January 1, 2017, the credit is instead determined by the EACC based on factors set out in M.G.L. c. 23A, § 3D.

The total dollar amount of the EDIP credit that may be used in a calendar year is \$30 million.

The taxes eligible for abatement using these credits include the corporate excise, financial institutions excise, insurance premiums excise and personal income tax, with tax payments reduced by applying the amount of the credits directly against the relevant calculation of tax liability as determined by the rules governing the particular tax to be abated.

For projects certified before January 1, 2017, if a project's certification is revoked, or if property upon which a certification is based is sold prior to the end of its useful life, the difference between the credit taken and the credit allowed for actual use must be added back as additional taxes due in the year of disposition, except if the property had been in qualified use for more than twelve consecutive years. For an expansion project where the actual number of permanent full-time employees employed by the controlling business at the project is less than 50% of the number of such permanent full-time employees projected in the project proposal, this shall be deemed a material variance for the purpose of a revocation determination. Upon such a revocation, all tax credits available to the controlling business as a result of project certification shall be revoked and forfeited for the year in which revocation occurred and all subsequent years, and the Commonwealth, in the case of a certified expansion project, shall recover the value of any tax credits received by the controlling business prior to or subsequent to such revocation.

For projects certified on or after January 1, 2017, recapture is required only if the EACC revokes certification. The amount of credit subject to recapture shall be proportionate to the corporation's job creation requirements applicable to the certified project. The corporation's proportion of compliance will be determined by the EACC as part of the revocation process and reported to DOR and the taxpayer at time of revocation.

Life Sciences Tax Incentive Program

The Massachusetts Life Sciences Center (MLSC) certifies and awards four types of tax abatements to life sciences companies, with the purpose of increasing Massachusetts' employment of companies in the life sciences sector of the economy. These abatements, which are 90%-refundable, together with other life sciences tax incentives, are subject to an aggregate \$25 million annual cap.

- The Life Sciences Investment Tax Credit is equal to 10% of the cost of qualifying property acquired, constructed, reconstructed or erected during the taxable year and used exclusively in Massachusetts.
- The Life Sciences User Fees Tax Credit is equal to 100% of the user fees paid to the U.S. Food and Drug Administration (U.S.F.D.A.) upon submission of an application to manufacture a human drug in Massachusetts, and may be claimed in the taxable year in which the application for licensure of an establishment to manufacture the drug is approved by the U.S.F.D.A. To be eligible for the credit, more than 50% of the research and development costs for the drug must have been incurred in Massachusetts.

- Taxpayers seeking to claim a Life Sciences Jobs Tax Credit must commit to the creation of a minimum of 50
 net new permanent full-time positions in Massachusetts. The amount of the credit is determined by the Life
 Sciences Center.
- The Life Sciences Center may authorize a life sciences company to obtain refunds of existing Research Credits. Generally, the Research Credit for research expenses incurred in Massachusetts is based on a formula that measures taxpayers' year-to-year increases in Massachusetts research expenses. See the regulations and public written statements cited below for a more detailed description of the formula.

Under each of these tax abatements, grantees agree to increase or maintain its employee headcount in Massachusetts, compared to the company's "baseline" employee headcount at the time of the award and the company's projected net increase in headcount in the tax year following award. Baseline and projected headcounts are summed to create a "total projected headcount" metric that is used for MLSC agreement and compliance purposes.

A company that has received tax incentives from the MLSC and subsequently fails to achieve the minimum net new headcount thresholds as specified in the MLSC's Annual Tax report and Multiple Awards policy will have the award terminated and must return the amount of the tax abatement claimed to the Commonwealth, although the company may be given an additional year to achieve the employment goals if the MLSC determines that it has the potential to meet those goals. The MLSC is required by statute to de-certify any company that fails to achieve at least 70% of its job target for two consecutive years. The MLSC has decided through administrative action that any company failing to achieve at least 80% of its job target by the end of any extension period and, in the case of the Life Sciences Job Incentive Refundable Credit, failing to create at least 50 net new jobs, will be de-certified. More information on these job creation and clawback requirements is available on the MLSC's website, http://www.masslifesciences.com/programs/tax/.

The taxes eligible for abatement using these credits include the corporate excise, financial institutions excise, insurance premiums excise and personal income tax, with tax payments reduced by applying the amount of the credits directly against the relevant calculation of tax liability as determined by the rules governing the particular tax to be abated.

Film Tax Incentive

Under M.G.L. c. 62, § 6(1) and M.G.L. c. 63, § 38X, the Department of Revenue is authorized to grant tax abatements to encourage the production in Massachusetts of motion pictures, television shows, and commercials. Entities that fund such productions (known under the statute as "motion picture production companies") may claim (1) a credit equal to 25% of the total qualifying aggregate payroll for employing persons within the Commonwealth in connection with filming and production of a motion picture and (2) a credit equal to 25% of their Massachusetts production expenses. Each credit has its own qualification requirements and a taxpayer is allowed to qualify for and claim both credits. The production companies must incur a minimum of \$50,000 in qualified expenses during a consecutive twelve-month qualification period. The credits are either transferable or 90% refundable to the motion picture production companies to the extent that the credits exceed the companies' Massachusetts tax liability. Transferees do not qualify for the 90%-refundability option.

The taxes eligible for abatement using these credits include the corporate excise, financial institutions excise, insurance premiums excise and personal income tax, with tax payments reduced by applying the amount of the credits directly against the relevant calculation of tax liability as determined by the rules governing the particular tax to be abated. There is no cap on the amount of the credits.

There are no provisions in statute to recapture the film tax credits.

In addition to the tax credit, sales of tangible personal property to a qualifying motion picture production company or to an accredited film school student for the production expenses related to a school film project are exempt from the sales tax. In order to qualify for the sales tax exemption, a motion picture production company must incur at least \$50,000 in total production costs in Massachusetts during a consecutive twelve-month period and must be conditionally pre-approved as a qualifying company by the Commissioner of Revenue. Any taxpayer that has been conditionally pre-approved for the sales tax exemption that then fails to expend the requisite \$50,000 within a consecutive twelve-

month period shall be liable for the sales taxes that would have been due had the conditional pre-approval not been granted.

The following is the total revenue estimated to be reduced under these programs for fiscal year 2017 (amounts in thousands):

| Tax abatement program | Total reven | | |
|---|----------------|---------|-----|
| Economic Development Incentive Program (EDIP) | \$ | 21,944 | (1) |
| Life Sciences Tax Incentive Program. | | 19,933 | (2) |
| Film Tax Incentive Program. | | 90,887 | (3) |
| Total | \$ | 132,764 | |

Sources:

- (1) Massachusetts Office of Business Development, credits approved in FY2017
- (2) http://www.masslifesciences.com/wp-content/uploads/Tax-Incentive-Awards-2017-Press-Release-final-41217.pdf, incentives awarded in FY2017
- (3) Comprised of \$90,562 million of Film Tax Credits (Source: Massachusetts Department of Revenue, film tax credits approved during FY2017) and \$325 thousand of sales tax exemptions (Source: Massachusetts Department of Revenue, FY2018 Tax Expenditure Budget, sales tax exemption approved to motion picture production companies or to accredited film school students during FY2017.

4. INTERFUND RECEIVABLES, PAYABLES AND TRANSFERS BETWEEN FUNDS

The purposes of interfund receivables, payables and transfers between funds vary by legislative authority. Transfers include the following: intergovernmental services, fringe benefit cost assessments, the year-end Stabilization Fund transfer, certain license fees collected by the Registry of Motor Vehicles that fund various highway project initiatives, fund closure transfers, and various other transfers for operations, largely for Institutions of Higher Education.

Activity between funds reflected as due to/from primary government in the various statements is summarized as follows (amounts in thousands):

| | General | Lotteries | Other Governmental Funds | Total |
|---|-----------------------------|-----------------------|--------------------------------|--------------|
| Governmental funds: | | | | |
| Transfers in: | | | | |
| Debt service | \$ — | \$ — | \$ 2,431,826 | \$ 2,431,826 |
| Transfers in | 2,082,249 | | 1,415,160 | 3,497,409 |
| Subtotal | 2,082,249 | | 3,846,986 | 5,929,235 |
| Transfers out: | | | | |
| Appropriations | (1,333,004) | _ | (1,261) | (1,334,265) |
| Transfer of bond proceeds | _ | _ | (193,632) | (193,632) |
| Debt service | (1,189,569) | _ | (1,242,257) | (2,431,826) |
| Transfers out | (685,928) | (1,137,459) | (1,432,834) | (3,256,221) |
| Subtotal | (3,208,501) | (1,137,459) | (2,869,984) | (7,215,944) |
| Total governmental funds | (1,126,252) | (1,137,459) | 977,002 | (1,286,709) |
| Proprietary funds: | University of Massachusetts | State Universities | Community Colleges | Total |
| Transfers in: | | | | |
| Transfers in from the General Fund and other governmental funds | 713,684 | 348,293 | 465,921 | 1,527,898 |
| Transfers out: | | | | |
| Transfers out to the General Fund | (149,754) | (49,709) | (41,726) | (241,189) |
| Total proprietary funds | \$ 563,930 | \$ 298,584 | \$ 424,195 | 1,286,709 |
| Net transfers in/(out) between funds | | | | <u> </u> |

Due to/from component units on the Statement of Net Position reflects a timing difference for payments of approximately \$49 million at year end.

Remaining receivables and payables between funds as of June 30, 2017 largely occur due to the timing of accruals and the funding of escrows. The University of Massachusetts also reported unremitted benefits costs as of June 30, 2017. The amount due to the General Fund largely represents deficits funded by the General Fund. The following is a summary of receivables and payables between funds remaining as of June 30, 2017 (amounts in thousands):

| Receivable Fund Payable Fund | | A | Amount | | |
|------------------------------|-----------------------------|----|---------|--|--|
| Governmental Funds: | | | | | |
| General | Nonmajor Governmental Funds | \$ | 78,140 | | |
| Non-major Governmental Funds | Nonmajor Governmental Funds | | 78,617 | | |
| Total Governmental Funds | | \$ | 156,757 | | |

5. CAPITAL ASSETS

Capital asset activities for the fiscal year ended June 30, 2017 were as follows (amounts in thousands):

| Primary Government Governmental Activities | July 1, 2016 Beginning Balance | Increases | Decreases and Reclassifications | June 30, 2017 Ending Balance |
|---|--------------------------------------|--------------|---------------------------------------|------------------------------------|
| Capital assets not being depreciated: | | | | |
| Land | \$ 877,493 | \$ 17,623 | \$ (587) | \$ 894,529 |
| Construction in process | 819,321 | 165,955 | (118,899) | 866,377 |
| Total capital assets not being depreciated | 1,696,814 | 183,578 | (119,486) | 1,760,906 |
| Capital assets being depreciated: | | | | |
| Buildings | 5,755,593 | 99,774 | (5,294) | 5,850,073 |
| Machinery and equipment | 1,378,866 | 104,567 | (22,617) | 1,460,816 |
| Infrastructure non - central artery/tunnel project | 408,574 | 8 | | 408,582 |
| Total capital assets being depreciated | 7,543,033 | 204,349 | (27,911) | 7,719,471 |
| Less, accumulated depreciation: | | | | |
| Buildings | (3,150,508) | (110,735) | 4,914 | (3,256,329) |
| Machinery and equipment | (1,096,054) | (87,549) | 11,203 | (1,172,400) |
| Infrastructure non - central artery/tunnel project | (249,567) | (8,995) | | (258,562) |
| Total accumulated depreciation | (4,496,129) | (207,279) | 16,117 | (4,687,291) |
| Total capital assets being depreciated, net | 3,046,904 | (2,930) | (11,794) | 3,032,180 |
| Governmental activities capital assets, net | 4,743,718 | 180,648 | (131,280) | 4,793,086 |
| Business - Type Activities Capital assets not being depreciated: | | | | |
| Land | 137,937 | 22,062 | (1,724) | 158,275 |
| Construction in process | 1,048,579 | 661,260 | (730,774) | 979,065 |
| Historical treasures | 1,760 | 95 | (490) | 1,365 |
| Total capital assets not being depreciated | 1,188,276 | 683,417 | (732,988) | 1,138,705 |
| Capital assets being depreciated: | | | | |
| Buildings | 9,162,184 | 761,506 | (16,088) | 9,907,602 |
| Machinery and equipment | 1,105,961 | 107,489 | (84,662) | 1,128,788 |
| Library collections, not including historical treasures | 84,381 | 649 | (6,537) | 78,493 |
| Total capital assets being depreciated | 10,352,526 | 869,644 | (107,287) | 11,114,883 |
| Less, accumulated depreciation: | | | | |
| Buildings | (4,009,241) | (322,044) | 12,256 | (4,319,029) |
| Machinery and equipment | (328,154) | (61,634) | 81,537 | (308,251) |
| Library collections, not including historical treasures | (15,272) | (567) | 467 | (15,372) |
| Total accumulated depreciation | (4,352,667) | (384,245) | 94,260 | (4,642,652) |
| Total capital assets being depreciated, net | 5,999,859 | 485,399 | (13,027) | 6,472,231 |
| Business - type activities capital assets, net | 7,188,135 | 1,168,816 | (746,015) | 7,610,936 |
| Total Primary Government capital assets, net | \$ 11,931,853 | \$ 1,349,464 | \$ (877,295) | \$ 12,404,022 |

Depreciation expense was charged to the various functions of governmental and business-type activities as follows (amounts in thousands):

| Function | Amount | | |
|--|--------|---------|--|
| General government | \$ | 72,926 | |
| Judiciary | | 32,872 | |
| Health and human services | | 23,753 | |
| Early elementary and secondary education | | 3,338 | |
| Public safety and homeland security | | 65,784 | |
| Housing and economic development | | 43 | |
| Labor and workforce development | | 8,563 | |
| Total depreciation, governmental activities | \$ | 207,279 | |
| University of Massachusetts | \$ | 249,669 | |
| State universities | | 99,652 | |
| Community colleges | | 34,924 | |
| Total depreciation, business-type activities | \$ | 384,245 | |

6. SHORT-TERM FINANCING AND CREDIT AGREEMENTS

Massachusetts General Laws authorize the Treasurer to issue temporary notes in anticipation of revenue or bond financing. Short-term borrowing may be issued as fixed rate notes, floating rate notes or through a commercial paper program supported by bank liquidity facilities maintained by the Commonwealth. Per the State Constitution, revenue anticipation notes (RANs) issued for cash flow purposes are required to be paid within the same fiscal year. Temporary financings for capital needs, such as bond anticipation notes, may be outstanding for up to five years, per statute.

A. GENERAL FUND

The balance of revenue anticipation notes (RANs) and commercial paper outstanding may fluctuate during a fiscal year, but all short-term borrowing for cash flow purposes must be reduced to zero by June 30. For short-term borrowing for cash flow purposes, the Commonwealth borrowed \$1.5 billion by selling RANs in August, 2016 in three \$500 million series which were retired in April, May and June 2017.

The following schedule details short-term financing for all funds for the fiscal year (amounts in thousands):

| | Beginning Balance | Issued/ | Redeemed/ | Ending Balance |
|----------------------------|-------------------|--------------|----------------|-------------------|
| | July 1, 2016 | Drawn | Repaid | June 30, 2017 |
| General Fund: | | | | |
| Revenue anticipation notes | <u>\$</u> | \$ 1,500,000 | \$ (1,500,000) | <u>\$</u> |

B. CREDIT FACILITIES

During FY17, the Commonwealth maintained credit facilities to provide liquidity support for commercial paper notes totaling \$400 million. The Commonwealth started FY17 with two credit facilities to provide such liquidity support. One facility with TD Bank (\$200 million) will expire in FY18 while the other facility with State Street Bank (\$200 million) will expire in FY19. In addition to credit facilities for commercial paper, the Commonwealth maintained standby bond purchase agreements for outstanding Variable Rate Demand Bonds (VRDBS) sold from (FY01 through FY06). These VRDBs bonds require external liquidity support because bond-holders have the right to tender the bonds back to the Commonwealth at par at any time by an investor. As of June 30, 2017, these agreements totaled \$576 million.

MSBA

During FY17, the MSBA maintained credit facilities to provide liquidity support for commercial paper notes totaling \$450 million. The \$150 million Commercial Paper Notes, Series 2015A, Series 2015B, and Series 2015C, are secured by irrevocable letters of credit provided by Bank of America, N.A., Citibank, N.A., and Barclays Bank PLC, respectively, which expire in March 2018. As of June 30, 2017, there were no draws against available balances on the three lines of credit.

7. LONG-TERM OBLIGATIONS

Section 1 of Article 62 of the Massachusetts Constitution empowers the State Legislature to borrow money on the credit of the Commonwealth for various public purposes. Under the state Constitution, the Commonwealth may pledge its credit to borrow money only by a vote of two-thirds of each house of the Legislature. Borrowed funds may be used for defense of the state or of the United States, and in anticipation of receipts from taxes or other sources, "any such loan to be paid out of the revenue of the year in which the loan is made." The Legislature may not in any manner allow the Commonwealth's credit to be given or loaned to or in aid of any individual, or of any private association, or of any corporation, which is privately owned or managed. The Constitution further provides that borrowed money shall not be expended for any other purpose than that for which it was borrowed or for the reduction or discharge of the principal of the loan.

Statutorily, the authority to borrow is delegated to the Massachusetts State Treasurer & Receiver General pursuant to Chapter 29 of the Massachusetts General Laws. Section 49 of Chapter 29 of the Massachusetts General Laws is the primary statute governing the issuance of Commonwealth debt and contains a number of provisions spelling out the process for the issuance of bonds.

The issuance of bonds to fund the Commonwealth's capital needs must be authorized by the Legislature. Pursuant to legislative authorizations to borrow, the Governor determines the amount and timing of any authorized borrowing to fund capital investments. At the request of the Governor, the State Treasurer & Receiver General borrows by issuing bonds to the public. The Governor approves the use of the bond proceeds by agencies to pay for authorized and budgeted capital projects.

Massachusetts General Law provides for the allocation of bond proceeds to bond authorizations and capital spending in arrears (as needed), as expenditures are made, or at the time of issuance of the bonds. In general, bond proceeds are primarily allocated to capital spending that has already occurred. When allocating in arrears, the allocation of segregated bond proceeds is a reimbursement to the General Fund.

Bond proceeds that are awaiting allocation are typically invested by the State Treasurer in the Commonwealth's primary investment vehicle, the Massachusetts Municipal Depository Trust (MMDT) (for more information please see the notes on the Commonwealth's short-term investments). Bond proceeds are segregated from other funds until they are allocated to capital expenditures, a process that requires review by the Commonwealth's bond counsel.

The Commonwealth has waived its sovereign immunity and consented to be sued on contractual obligations, including bonds and notes issued by it and all claims with respect hereto. However, the property of the Commonwealth is not

subject to attachment or levy to pay a judgment, and the satisfaction of any judgment generally requires legislative appropriation. Enforcement of a claim for the payment of principal or interest on bonds and notes of the Commonwealth may also be subject to the provisions of federal or Commonwealth statutes, if any, enacted to extend the time for payment or impose other constraints upon enforcement. The Commonwealth cannot file for bankruptcy under the United States Bankruptcy code.

As of June 30, 2017, the Commonwealth had issued two types of long-term debt obligations: general obligation bonds and special obligation bonds. General obligation bonds, which account for the large majority of outstanding Commonwealth bonds, are backed by the full faith and credit of the Commonwealth. Special obligation bonds, however, are bonds secured by all or a portion of a specific revenue source that are pledged to bondholders and are not general obligations of the Commonwealth. For these types of securities, bondholders rely on pledged revenue only for repayment of principal and interest.

The following is a summary of the Commonwealth's outstanding debt, exclusive of capital leases, (amounts in thousands):

| Type of Bond | | Amount Outstanding | | |
|---|----|-----------------------|--|--|
| General obligation bonds, net proceeds | \$ | 24,176,615 | | |
| Special obligation bonds (including GANs), net proceeds | | 4,040,035 | | |
| Outstanding Commonwealth bonds, net proceeds | | 28,216,650 | | |
| MSBA bonds, net proceeds | | 6,451,282 | | |
| Total governmental activities, net proceeds | | 34,667,932 | | |
| Less: | | | | |
| Unamortized premiums on general obligation bonds | | (1,459,920) | | |
| Unamortized premiums on special obligation bonds | | (311,065) | | |
| Unamortized premiums on MSBA bonds | | (622,492) | | |
| Total governmental activities, principal | \$ | 32,274,455 | | |

The general obligation (GO) bonds listed in the table above include outstanding tax-exempt bonds, taxable bonds including Build America Bonds, College Opportunity Bonds, and debt assumed from former counties. The special obligation (SO) bonds listed above include outstanding tax-exempt and taxable bonds (including Build America Bonds and Recovery Zone Economic Development Bonds) secured by indentures that legally define the specific revenues pledged to bondholders, as defined in the trust agreement. This includes outstanding bonds or notes secured by Federal Highway funds to be received by the Commonwealth, certain portions of the Commonwealth's motor fuel excise taxes and Registry of Motor Vehicle fees and dedicated taxes and fees levied in certain geographic areas of the state to support the Commonwealth's convention center facilities. As of June 30, 2017, there were four different special obligation bond programs with bonds outstanding. It should be noted that one of the four bond programs has a closed lien, meaning that no additional new-money bonds will be issued under that specific special obligation bond indenture.

The following is a table of GO bonds principal outstanding as of June 30, 2017, (amounts in thousands):

| General Obligation Bonds | Principal Outstanding | Percent of Total GO |
|--------------------------|--------------------------|---------------------------|
| Fixed rate bonds | \$ 19,210,645 | 84.6% |
| Variable rate bonds. | 3,506,050 | 15.4% |
| Total | \$ 22,716,695 | 100.0% |

The following is a table of the different types of outstanding variable rate GO bonds, (amounts in thousands):

| Variable Rate GO Bonds | Principal outstanding | Percent of Total GO |
|----------------------------|--------------------------|---------------------------|
| Direct purchase bonds | \$ 896,540 | 3.9% |
| Variable rate demand bonds | 576,405 | 2.5% |
| Auction rate securities | 401,500 | 1.8% |
| CPI-index bonds | 100,000 | 0.4% |
| LIBOR index bonds | 843,115 | 3.7% |
| SIFMA index bonds | 488,490 | 2.2% |
| Multi-Modal | 200,000 | 0.9% |
| Total | \$ 3,506,050 | 15.4% |

The following is a table of hedged and unhedged variable rate GO bonds, (amounts in thousands):

| | Principal Outstanding | Percent of Total GO |
|---------------------------------|------------------------------|---------------------------|
| Hedged variable rate GO bonds | \$ 1,640,140 | 7.2% |
| Unhedged variable rate GO bonds | 1,865,910 | 8.2% |
| Total variable rate GO bonds | \$ 3,506,050 | 15.4% |

The following is a table of SO bond principal, by rate structure, outstanding as of June 30, 2017, (amounts in thousands):

| Special Obligation Bonds | Principal Outstanding | Percent of Total SO |
|--------------------------|--------------------------|---------------------------|
| Fixed rate bonds | \$ 3,651,635 | 97.9% |
| Variable rate bonds | 77,335 | 2.1% |
| Total | \$ 3,728,970 | 100.0% |

All of the variable rate special obligation bonds are hedged as of June 30, 2017.

The following is a table of the different types of outstanding Special Obligation bonds (amounts in thousands):

| Special Obligation Bonds | Amount Outstanding | | | |
|---|-----------------------|-----------|--|--|
| Special obligation dedicated tax revenue bonds, net proceeds: | | | | |
| Fixed rate convention center bonds | \$ | 552,875 | | |
| CPI variable rate convention center bonds | | 23,310 | | |
| Total convention center bonds, net proceeds | | 576,185 | | |
| Special obligation revenue bonds, net proceeds: | | | | |
| Fixed rate gas tax bonds | | 74,245 | | |
| CPI variable rate gas tax bonds | | 54,025 | | |
| Total gas tax bonds, net proceeds | | 128,270 | | |
| Special obligation revenue bonds, net proceeds: | | | | |
| Accelerated bridge program. | | 1,751,644 | | |
| Special obligation federal highway grant | | | | |
| anticipation notes and accelerated bridge program | | 868,621 | | |
| Special obligation revenue bonds, net proceeds: | | | | |
| Rail enhancement program | | 714,321 | | |
| Total special obligation bonds, net proceeds | | 4,039,041 | | |
| Less: unamortized premiums | | (310,071) | | |
| Outstanding special obligation principal | \$ | 3,728,970 | | |

A. GENERAL OBLIGATION BONDS

General obligation bonds are authorized and issued primarily to provide funds for the Commonwealth's five-year capital improvement program (CIP), including capital infrastructure projects throughout the state as well as Commonwealth-supported local government capital improvements. The five-year plan is developed by the Executive Office for Administration and Finance (A&F) and updated annually. The CIP is primarily funded through the issuance of bonds that are sold by the State Treasurer and Receiver General. The Commonwealth borrows from the capital markets by selling GO bonds and notes pursuant to Chapter 29 of the Massachusetts General Laws. GO bonds are backed by the full faith and credit of the Commonwealth and are paid from the Governmental Funds, to which debt service principal and interest payments are appropriated in the state's operating budget.

In addition to GO bonds issued to fund the state's capital needs, certain bonds are approved by the Legislature to be issued for a specific program. These bonds, known as College Opportunity Bonds, are issued pursuant to statute directly to the Massachusetts Educational Financing Authority for its pre-paid tuition program called the "U.Plan". As of June 30, 2017, the Commonwealth had approximately \$145 million in "U. Plan" bonds (at accreted value) outstanding. Pursuant to statute, all of the outstanding bonds are variable rate bonds. Interest on the bonds is based on the percentage change in the consumer price index plus 2.0% together with current interest at the rate of 0.5%.

In terms of bond structure, the large majority of GO bonds have been sold as fixed rate obligations. As of June 30, 2017, approximately 84.6% of the Commonwealth's outstanding GO debt is in the form of fixed-rate bonds. The remaining 15.4% of outstanding GO debt is in the form of variable rate bonds – bonds whose rate of interest fluctuate based on market or market index changes. The outstanding GO variable rate debt consists of several different variable rate structures. These structures include floating rate notes in various interest rate modes, direct purchase agreements in various interest rated modes, multi-modal bonds currently in the Term Mode, and variable rate demand bonds. Variable rate demand bonds, or "VRDBs", are long-term bonds whose interest rates re-set daily or weekly through an active remarketing process. Because these bonds provide bondholders with a "put" or tender feature enabling the bonds

to be sold back to the Commonwealth at par at any time by an investor, they are supported by standby liquidity facilities provided by third-party commercial banks which require the applicable bank to purchase any bonds that are tendered by investors and not successfully remarketed. As of June 30, 2017, the Commonwealth had approximately \$576 million in outstanding VRDBs. This accounts for approximately 2.5% of total GO debt and approximately 16.4% of total GO variable-rate debt. All of these bonds are uninsured. As of June 30, 2017, none of the Commonwealth's outstanding VRDBs have been subject to failed remarketing and "put" back to the Commonwealth; consequently, there have not been any draws on any of the outstanding bank liquidity facilities.

The Commonwealth has also issued GO variable-rate debt in the form of auction-rate securities. Like VRDBs, these are long-term bonds whose interest rates are re-set at pre-determined, short-term intervals. Unlike VRDBs, these bonds do not provide bondholders with a "put" feature and therefore do not require a supporting credit facility from a commercial bank. The Commonwealth's outstanding auction-rate securities have long-term nominal maturities with interest rates that reset every seven days. A periodic "Dutch auction" process is designed to provide a mechanism of liquidity to bondholders, with bonds re-priced and traded in auctions managed by broker-dealers. Beginning in February 2008 and continuing through FY17, however, all of the Commonwealth's outstanding auction rate securities experienced auction failure on the days interest rates were to re-set, meaning there were insufficient bids from new investors to purchase the securities being offered for sale by existing bondholders. Upon auction failure, the interest rate paid to existing bondholders is the failure rate as specified in the bond documents. For the series of Commonwealth bonds whose auctions have experienced failures (approximately \$402 million in total outstanding debt obligations, including Commonwealth of Massachusetts GO Bonds, Series 2000D, 2000E, 2000F, and 2000G), the failure rate is based on a multiple of the 7-day non-financial commercial paper rate as published by the Federal Reserve, with a maximum failure rate of 12%. The failed auctions have resulted in actual interest costs to the Commonwealth that are consistently below budgeted debt service levels of 5%.

Aportion of the Commonwealth's outstanding bonds have been directly purchased by banks (or "direct purchase bonds"). These variable rate, direct purchase bonds bear interest at an index rate and are payable on the first business day of each month until maturity. As of June 30, 2017, the Commonwealth had \$897 million direct purchase bonds outstanding.

The following table details the general obligation direct purchase bonds (amounts in thousands):

| | | | | | Direct | Direct |
|------------------------------------|-------------|-----------|-------------------------------|----------------------------|------------|------------|
| | | | | | Purchase | Purchase |
| | Par | Final | Reset Mode/ | Direct Purchase | Agreement | Expiration |
| Series | Outstanding | Maturity | Payment Frequency | Bank | Date | Date |
| 2016 Series C | \$ 200,000 | 4/1/2046* | 1 Month LIBOR/ Monthly Pay | State Street | 5/12/2016 | 4/1/2021 |
| 2006 Series B, Subseries B-1 & B-2 | 182,605 | 3/1/2026* | 1 Month LIBOR/ Monthly Pay | Bank of America Merrill | 5/5/2016 | 5/31/2019 |
| 2001 Series B Refunding Bonds | 163,935 | 1/1/2021 | 1 Month LIBOR/ Monthly Pay | Bank of America Merrill | 8/1/2014 | 8/1/2017** |
| 2015 Series B Refunding Bonds | 125,000 | 2/1/2018 | 1 Month SIFMA/ Monthly Pay | JP Morgan Chase Bank | 12/23/2015 | 2/1/2018 |
| 2015 Series C Refunding Bonds | 125,000 | 2/1/2019 | 1 Month SIFMA/ Monthly Pay | JP Morgan Chase Bank | 12/23/2015 | 2/1/2019 |
| 2016 Series B | 100,000 | 4/1/2036* | 1 Month LIBOR/ Monthly Pay | TD Bank | 5/10/2016 | 4/1/2021 |
| Total | \$ 896,540 | | | | | |

^{* -} These issuances have a mandatory tender prior to their final maturity Put dates.

The remaining outstanding GO variable-rate debt pays interest to bondholders based on certain indices. For example, as of June 30, 2017, the Commonwealth had approximately \$100 million of bonds that pay interest based on the consumer price index (CPI); \$843 million of bonds that pay interest based on the three-month London Interbank Offered

^{** -} On August 1, 2017, this direct purchase bond was remarketed and sold to TD Bank, with interest paid monthly based on the LIBOR, with an expiration date of January 1, 2021.

Rate (LIBOR); \$488 million of bonds that pay interest based on the Securities Industry and Financial Markets Association (SIFMA) Index, and \$200 million in Multi-Modal bonds. These bonds make up approximately 0.4%, 3.7%, 2.2% and 0.9% of total outstanding general obligation indebtedness, respectively.

To fund the FY17 capital budget and prior capital spending, the Commonwealth borrowed by issuing \$2.871 billion in long-term bonds, \$2.409 billion of which was general obligation debt, and \$462 million of which was special obligation debt secured by federal highway reimbursements and/or motor fuels taxes and motor vehicle license and registration fees. In addition, \$1.853 billion in refunding bonds were issued in seven separate transactions. Two of these transactions were executed as current refundings a part of a stated plan of finance for the purpose of extending maturities to match that of certain existing hedges, while the remaining transactions were advance refundings executed for savings. The present value savings of the advance refunding transactions are immaterial to these financial statements.

MSBA Debt

As of June 30, 2017, the MSBA had outstanding approximately \$6.451 billion of Dedicated Sales Tax bonds, including approximately \$622 million of unamortized premiums for the purpose of funding school construction and renovation projects. Coupons on the bonds range from approximately 2.0% to 5.715% and each series is payable semiannually with the latest maturity occurring in FY47. A portion of the interest on the Dedicated Sales Tax Bonds is reimbursed by the federal government. Of the \$5.829 billion of debt outstanding as of June 30, 2017, \$450 million is taxable Build America Bonds for which the MSBA is eligible to receive a 35% interest subsidy directly from the United States Treasury. In addition, \$293 million of the Subordinated Dedicated Sales Tax Bonds was issued as "Qualified School Construction Bonds" for which the MSBA is eligible to receive a 100% interest subsidy payment directly from the United States Treasury. During FY17, the federal government continued automatic budget cuts imposed through sequestration required pursuant to the Budget Control Act of 2011. On September 30, 2013, the IRS published a notice indicating that subsidy payments processed on or after October 1, 2013 and on or before September 30, 2014 will be reduced by the FY14 sequestration rate of 7.2%. The notice was updated in September 2014 to announce that subsidy payments processed on or after October 1, 2014 and on or before September 30, 2015 will be reduced by the FY15 sequestration rate of 7.3%. The subsidy payments made between October 1, 2015 and September 30, 2016 were reduced by the FY16 sequestration rate of 6.8%. The subsidy payments made between October 1, 2016 and September 30, 2017 were reduced by the FY16 sequestration rate of 6.9%. The notice states that the sequestration reduction rate will be applied unless and until a law is enacted that cancels or otherwise modifies the sequester. The reductions were approximately \$1.7 million on the 2009 Series B Bonds, 2010 Series A Bonds and 2011 Series A Bonds in FY 17. On August 2, 2017, the IRS announced that the sequestration rate for the federal fiscal year ending September, 2018 would be 6.6%.

B. SPECIAL OBLIGATION BONDS

Commonwealth Transportation Fund (CTF)

The largest amount of special obligation bonds outstanding (by par) are bonds secured by certain revenues of the Commonwealth Transportation Fund. In FY17, the Commonwealth issued approximately \$126 million in special obligation bonds under the Accelerated Bridge Program (ABP), \$210 million under the Rail Enhancement Program (REP) and \$104 million in refunding bonds. These bonds mature from FY18 to FY46 and are secured by a senior lien on 17 cents of the total 24 cents per gallon gasoline tax, the full 24 cents per gallon of special fuels taxes (comprised primarily of taxes on diesel fuel), and the full 19.1% of the average price per gallon tax on liquefied natural gas and all Registry of Motor Vehicle fees deposited into the CTF. These bonds also have a subordinate lien on 6.86 cents of the 24 cent per gallon gasoline tax not included in the senior lien. As of June 30, 2017, approximately \$1.643 billion and \$645 million in principal was outstanding on the ABP and REP bonds, respectively, and approximately \$1.235 billion and \$536 million of interest (net of the federal subsidy) was expected to be paid through maturity related to the ABP and REP bonds, respectively.

Motor Fuels Tax Bonds

Other special obligation bonds for highway construction purposes are secured by a senior lien on 6.86 cents of the 24 cent per gallon gasoline tax. As of June 30, 2017 bonds secured by these pledged funds totaled approximately \$128

million of principal. These bonds mature from FY18 to FY22 and were issued in multiple series. Principal and interest paid during FY17 amounted to approximately \$42 million and \$9 million, respectively.

Convention Center Fund

Chapter 152 of the Acts of 1997, as amended, authorized \$694 million of special obligation bonds to be issued for the purpose of building a new convention center in Boston (\$609 million), the Springfield Civic Center (\$66 million) and the Worcester Convention Center (\$19 million). The bonds are payable from monies credited to the Convention Center Fund created by that legislation, which include certain hotel tax receipts from hotels in Boston, Cambridge, Springfield and Worcester, a surcharge on car rentals in Boston, a parking surcharge at all three facilities, a surcharge on sightseeing tours and cruises in Boston, and sales tax receipts from certain hotels and other retail establishments in Boston, Cambridge, and Springfield. The legislation requires a capital reserve fund to be maintained at a level equal to maximum annual debt service and provides that if the fund falls below its required balance, the 2.75% convention center financing fee in Boston is to be increased (though the overall hotel tax in Boston, including the fee, cannot exceed 14%). As of June 30, 2017, taxes within the Convention Center districts support approximately \$575 million of outstanding principal and approximately \$323 million of interest on debts related to these Convention Centers. Taxes collected in FY17 were approximately \$135 million, while debt service on the bonds was approximately \$55 million.

On July 29, 2014, the then Governor approved legislation authorizing the Commonwealth to issue an additional \$1.1 billion in special obligation bonds to finance an expansion of the convention center in Boston, to finance costs of issuance and fund a debt service reserve fund. Such bonds would be secured by and payable from the Convention Center Fund, with the State Treasurer and Secretary of Administration and Finance having the authority to pledge additional state hotel/motel room occupancy excises to the new bonds. The expansion project is currently on hold.

C. FEDERAL GRANT ANTICIPATION NOTES

All federal highway reimbursements are dedicated to funding the principal portion only of federal grant anticipation notes (GANs) issued in fiscal 2011, 2014, 2015 and 2017. During FY17, the Commonwealth issued approximately \$125 million in GANs for new money needs under the Commonwealth's Accelerated Bridge Program . As of June 30, 2017, total principal remaining to be paid is approximately \$738 million. Maturities are from FY18 through FY27. Debt service paid during FY17 was approximately \$79 million.

The legislation authorizing such notes contains a statutory covenant that as long as any such GANs remain outstanding, the Commonwealth will deposit all federal highway reimbursements into the Grant Anticipation Note Trust Fund, to be released to the Commonwealth once all the debt service and reserve funding obligations of the trust agreement securing the GANs have been met. Principal amortization of the notes will continue through FY27. Such notes and the interest thereon are secured solely by the pledge of federal highway construction reimbursement payments and by a contingent pledge of certain motor fuels excises. In practice, the interest on such notes has been paid from Commonwealth appropriations.

D. THE BUILD AMERICA BOND PROGRAM

As part of the federal America Recovery and Reinvestment Act (ARRA) in 2009, municipal issuers were authorized to issue taxable bonds to fund new capital expenditures and receive an interest rate subsidy from the U.S. Treasury. As part of the temporary Build America Bond (BABs) program issuers, including the Commonwealth, issued taxable bonds in calendar years 2009 and 2010 in return for a subsidy from the federal government equal to 35% to 45% of the interest costs on the bonds, depending on whether the proceeds were used for projects in economically distressed areas. Between the GO bond program and the special obligation bond programs, the Commonwealth issued a total of \$2.791 billion in Build America Bonds and Recovery Zone Economic Development Bonds in six separate financings over the two year period of the program. All of the bonds were issued as "direct pay to issuer", meaning that the interest rate subsidies would be paid to the Commonwealth from the U.S. Treasury and not pledged to bondholders. As of June 30, 2017, the expected interest rate subsidy to be received through final maturity of all of the bonds issued as part of this program totaled \$711 million. The Commonwealth's repayment obligation to bondholders is based on the gross interest rate. From a budgetary perspective, the bonds' debt service is budgeted at the net-of-interest-rate subsidy rate.

Given the interest rate subsidy from the U.S. Treasury and given market conditions at the time of the Commonwealth's BABs sales, this program resulted in borrowings whose net interest costs will be significantly lower than the interest on traditional tax-exempt bonds. The BABs program expired on December 31, 2010.

E. INTEREST RATE SWAP AGREEMENTS - OBJECTIVES AND RISKS

Over the last twenty years, the Commonwealth has periodically entered into interest rate swap agreements for the sole purpose of hedging changes in the interest rates on a portion of its outstanding variable rate bonds, taking advantage of the fact that these bonds, combined with interest rate swaps, generally result in lower interest costs than fixed-rate bonds. Of the Commonwealth's variable-rate debt (including special obligation bonds) outstanding of approximately \$3.583 billion, approximately \$1.717 billion was hedged via floating-to-fixed interest rate swap agreements. Of this amount, \$1.640 billion are for G.O. bonds and the remainder on outstanding special obligation bonds.

Under the terms of these floating-to-fixed rate hedge agreements, counterparties to the hedge agreements are obligated to pay the Commonwealth an amount equal to or approximately equal to the variable-rate interest payment to bondholders of the related bonds or an interest payment based on a market index. In return, the Commonwealth is obligated to pay counterparties a stipulated fixed rate. The floating rate payments received by the Commonwealth from its swap counterparties are used to offset the variable rate payments paid to bondholders. Only the net difference in interest payments is actually exchanged with the swap counterparty. The net payments made or received on these hedge agreements are reported as part of interest expense on the Commonwealth's basic financial statements. In all cases, the Commonwealth remains responsible for making interest payments to the variable rate bondholders.

Objective of the Interest Rate Swap Agreements

In connection with the issuance of variable rate GO refunding bonds in 1998, 2001, 2003, 2005, 2006, and 2007, the Commonwealth entered into interest rate swap hedge agreements with certain counterparties to hedge against the volatility of the interest rates on certain bonds whose interest costs were floating and not fixed. Additional swap agreements were entered into to hedge this same volatility on certain special obligation bonds, including the Commonwealth's Series 2005 Special Obligation Tax Revenue (Gas Tax) Bonds and the Series 2004 Special Obligation Dedicated Tax Revenue (Convention Center) Bonds. In addition, a floating-to-fixed rate swap agreement was novated or transferred to the Commonwealth from the Route 3 North Transportation Improvements Association (secured by Commonwealth Contract Assistance) in November 2008 after the lease revenue bonds associated with that swap experienced remarketing failure. The swap was assigned to a portion of the Commonwealth's previously unhedged variable rate bonds that were outstanding.

The intended effect of these agreements is essentially to fix the Commonwealth's interest rate obligations with respect to its variable-rate bonds in order to hedge or mitigate the Commonwealth's exposure to changes in interest rates on these bonds. For example, during a period when interest rates rise, the Commonwealth would receive higher payments from swap counterparties that would be used to offset higher payments to bondholders of the outstanding variable rate bonds. During a period when interest rates decline, the reduction in interest payments to bondholders would offset the higher payments made to swap counterparties. But in both scenarios, the net obligation of the Commonwealth is essentially fixed through the life of the swap and bonds. This allows the Commonwealth to finance its capital budget using floating rate bonds, which, combined with interest rate hedges, are less costly than fixed-rate bonds while hedging the risk of rising interest rates on those bonds to provide long-term budgetary and cash flow certainty. As of June 30, 2017, all of the Commonwealth's interest rate swaps were floating-to-fixed rate agreements and were deemed effective hedges pursuant to GASB Statement No. 53.

Terms of the Interest Rate Swap Agreements

The variable rate bonds and their related swap agreements have final maturities ranging from 2018 to 2033. The swaps' total notional value of approximately \$1.717 billion effectively matches the par amount of the related variable-rate bonds.

Under the swap agreements, the Commonwealth pays the relevant counterparties fixed rates ranging from 3.724% to 5.059% and receives variable-rate payments equal to or approximately equal to the amount of variable rate payments

the Commonwealth pays on the related variable-rate refunding bonds or a payment based on a market index. In some of the outstanding swap agreements, the Commonwealth receives an interest rate based on changes to LIBOR, the SIFMA index, or the CPI index. In other agreements, the floating payment received by the Commonwealth is precisely equal to the variable rate payment paid to bondholders based on an active remarketing of those bonds.

Credit Risk of the Interest Rate Swap Agreements

As of June 30, 2017, the Commonwealth is not exposed to credit risk because the swaps had a negative fair value. Should interest rates change and the fair value of the swaps become positive, the Commonwealth would be exposed to credit risk in the amount of the swaps fair value. All of the Commonwealth's counterparties are required to post collateral in certain circumstances, including credit rating downgrades. The Commonwealth is not required to post collateral in any of its existing swap agreements.

The chart below details the Commonwealth's outstanding swaps and related bond issuances (amounts in thousands except for percentages).

| | | | | Te | erms | Fair value | Fair value at June 30 | | | | |
|---|------------------------------------|-------------------|---|-------------------------------|--|--------------|-----------------------|----------------------------|------------------------------|--------------------------------------|--|
| Associated Bond Issue | Notional Amounts Outstanding | Effective Date | Replacement Agreement Effective Date | Fixed Rate Paid (Range) | Variable Rate Received | 2017 | 2016 | Change in Fair Value | Final Termination Date | Counterparty | Counterparty Credit Rating Moody's/S&P/ Fitch |
| General Obligation Bonds: | | | | | | | | | | | |
| Series 1998A (refund) Consolidated Loan of 2006, Series A Central Artery Loan of 2000, Series A Central Artery Loan of 2000, Series B | s — | 11/17/2008 | 11/17/2008 | 4.174% | 60% 1- Month LIBOR + 25 basis points | s — | \$ (219) | \$ 219 | 9/1/2016 | Wells Fargo Bank | Aa2/AA-/AA |
| Series 1998A (refunding) | _ | 9/17/1998 | 9/1/2016 | 4.174% | Cost of Funds | _ | (95) | 95 | 9/1/2016 | Wells Fargo Bank | Aa2/AA-/AA |
| Series 2000A | 22,917 | 8/16/2007 | 8/16/2007 | 3.942% | SIFMA - 3 basis points | (529) | (1,866) | 1,337 | 8/1/2018 | Merrill Lynch Cap Svcs | NR/Baa1/A |
| Series 2000A | 11,083 | 8/16/2007 | 8/16/2007 | 3.942% | SIFMA - 3 basis points | (257) | (920) | 663 | 8/1/2018 | JP Morgan formerly Bear Steams | A+/Aa3/AA- |
| Series 2001B & C refunding | 327,870 | 2/20/2001 | 2/20/2001 | 4.15% | Cost of Funds | (22,337) | (40,717) | 18,380 | 1/1/2021 | Morgan Stanley Capital Services | A+t/A1/ |
| Series 2006B, Series 2000D | 293,985 | 4/2/2009 | 4/2/2009 | 4.515% | 67% 3- Month LIBOR | (73,386) | (100,369) | 26,983 | 6/15/2033 | Barclays Bank PLC | A-/A1/A |
| Series 2006C (refunding) | 100,000 | 1/1/2007 | 1/1/2007 | 3.73% - 3.85% | CPI-based formula | (2,820) | (4,939) | 2,119 | 11/1/2020 | Wells Fargo Bank | AA-/Aa2/AA |
| Series 2007A | _ | 10/8/2008 | 10/8/2008 | 4.42% | 67% 3- Month LIBOR + 0.57% | - | (13,588) | 13,588 | 5/1/2037 | Barclays Bank PLC | A2/A-/A |
| Series 2007A (refunding) | 31,665 | 10/8/2008 | 10/8/2008 | 3.936% | 67% 3- Month LIBOR + 0.46% | (2,403) | (3,900) | 1,497 | 11/1/2020 | Wells Fargo Bank | AA-/Aa2/AA |
| Series 2007A (refunding) | 414,130 | 10/8/2008 | 10/8/2008 | 3.936% - 4.083% | 67% 3- Month LIBOR + (0.46- 0.55%) | (50,010) | (75,327) | 25,317 | 11/1/2025 | Bank of NY Mellon | AA-/Aa2/AA |
| Series 2015B, 2015C, 2017A and 2017B refunding | 438,490 | 3/15/2005 | 3/15/2005 | 3.724% - 4.004% | SIFMA | (59,902) | (93,099) | 33,197 | 2/1/2028 | Wells Fargo Bank | AA-/Aa2/AA |
| Subtotal | 1,640,140 | | | | | (211,644) | (335,039) | 123,395 | | | |
| Special Obligation Dedicated Tax | Revenue Bonds: | | | | | | | | | | |
| Series 2004 (Convention Ctr) | 7,770 | 6/29/2004 | 6/29/2004 | 4.450% | CPI-based formula | (161) | (465) | 304 | 1/1/2018 | Goldman Sachs Capital Markets | (A+/A1/A+) |
| Series 2004 (Convention Ctr) | 7,770 | 6/29/2004 | 6/29/2004 | 4.450% | CPI-based formula | (158) | (458) | 300 | 1/1/2018 | JP Morgan formerly Bear Steams | (A+/Aa3/AA-) |
| Series 2004 (Convention Ctr) | 7,770 | 6/29/2004 | 6/29/2004 | 4.450% | CPI-based formula | (158) | (457) | 299 | 1/1/2018 | JPMorgan Chase Bank | (A+/Aa3/AA-) |
| Series 2005A (Gas Tax) | 54,025 | 1/12/2005 | 1/12/2005 | 4.771% - 5.059% | CPI-based formula | (2,850) | (4,511) | 1,661 | 6/1/2022 | Merrill Lynch Capital Services | (NR/Baa1/A) |
| Subtotal | 77,335 | | | | | (3,327) | (5,891) | 2,564 | | | |
| Total | \$ 1,717,475 | | | | | \$ (214,971) | \$ (340,930) | \$125,959 | | | |

Fair value of the Interest Rate Swap Agreements

The aggregate fair value balance of interest rate swaps at June 30, 2017 was negative \$215 million and is reflected on the statement of net position as a liability for derivative instruments which is offset by deferred outflows from derivative instruments. The fair values of the interest rate swaps are estimated using the zero-coupon method. This method calculates the future net settlement payments required by the swap assuming that the current forward rates implied by the yield curve correctly anticipate future spot interest rates. These payments are then discounted using the spot rates implied by the current yield curve for hypothetical zero-coupon bonds due on the date of each future net settlement on the swaps. Because all of the interest rate swaps were deemed effective hedges, changes in fair value of the interest rate swaps during the fiscal year ended June 30, 2017 were recognized as deferred outflows resulting in no impact on the Statement of Activities.

If all the Commonwealth's swap agreements had been terminated as of the end of FY17, the Commonwealth would have been required to make a payment of this magnitude. Although the Commonwealth has the option of terminating its swap agreements at any time (and either make or receive any termination payment due), the Commonwealth's counterparties do not have such an option. Therefore, the Commonwealth would only have to make a payment of the amount estimated above if certain termination events occurred, as described below. Based on the terms and provisions of the swap agreements and the Commonwealth's current bond ratings, an involuntary termination of the swap agreements due to an event of the Commonwealth is remote. In the case of a voluntary termination due to an event of a counterparty, the Commonwealth would likely seek to maintain the existing hedge by replacing that counterparty with another.

Basis and Market-Access Risk of the Interest Rate Swap Agreements

Because the terms on most of the interest rate swap hedge agreements require the Commonwealth's counterparties to make variable rate payments equal or approximately equal to those the Commonwealth makes on the related variable rate bonds, the Commonwealth is not subject to significant basis risk as a result of the terms of these agreements. Under certain circumstances, such as a downgrade of the credit rating of the bonds being hedged or the enactment of tax-related legislation which causes the related bonds to trade differently, certain of the swap agreements provide that the Commonwealth's counterparties, may, at their option, pay a variable rate that is based on one or more market indices such as LIBOR or the SIFMA swap index. Under these circumstances, the Commonwealth would be subject to basis risk if these indices varied from the basis for the variable rates that were paid to bondholders that were determined for the Commonwealth's variable-rate demand bonds through the associated remarketing process. For certain other interest rate swap agreements, the variable rate on the swap is based on a market index that differs from the variable rate on the hedged bonds, which is generally remarketed or auction rate. The Commonwealth is subject to basis risk on these agreements.

A majority of the swap contracts have the same maturity dates and amortizations as the related bonds. For one of the swap agreements, the underlying bonds have maturity dates that come due before the termination date of the associated swaps. This applies to the 2015B, 2015C, 2017A and 2017B refunding bonds being hedged by the \$438 million notional swap with Wells Fargo Bank. The Commonwealth's stated debt plan is to extend the underlying variable rate bonds to match the terms and amounts of the associated swaps. If the Commonwealth is unable to extend the underlying variable rate bonds or identify other variable rate bonds the swaps may hedge, the Commonwealth would be required to make net settlement payments on the swaps without the offsetting effects of changes in variable rate bond settlement payments.

Termination Risk of the Interest Rate Swap Agreements

The swap agreements are based on the International Swap Dealers Association (ISDA) Master Agreement, which includes standard termination events, such as failure to pay and bankruptcy. The swap agreements include termination events additional to those in the standard ISDA master agreement based on credit ratings. The swap agreements are not otherwise subject to termination except at the Commonwealth's option. The swap agreements require that the Commonwealth's counterparties maintain certain ratings levels. If they fail to maintain such ratings, the Commonwealth would have the option to terminate the related swap agreement and receive or pay a termination payment depending on the interest rates at the time. Similarly, the Commonwealth is required to maintain certain credit ratings under the agreements, generally 'BBB-' or above, well above the current credit rating of 'AA-' (based on long-term ratings

assigned by Standard & Poor's). If the Commonwealth's rating fell below the defined threshold levels, the Commonwealth's counterparties would have the option to terminate the related swap agreements or for certain agreements choose to make variable rate payments based on a market index (instead of the actual bond rate) which would subject the Commonwealth to basis risk, as previously described. If one or more of the swap agreements were terminated, then the related variable rate bonds would no longer be hedged and the Commonwealth would no longer be paying a synthetic fixed rate with respect to the bonds. In addition, if at the time of termination, the swap had a negative fair value, the Commonwealth would incur a loss and would be required to settle with the related counterparty or counterparties at the swaps' fair market values. However, to avoid a termination payment and to maintain the interest rate hedge, when the terminating event is an event of the counterparty, the Commonwealth would likely seek to replace counterparties to the swap agreement. Based on the terms and provisions of the swap agreements and the Commonwealth's current bond ratings, an involuntary termination of the swaps due to an event of the Commonwealth is remote.

F. OUTSTANDING SWAPPED DEBT

Security for Interest Rate Swap Agreements

Under legislation approved by the then Governor on August 11, 2008, scheduled, periodic payments to be made by the Commonwealth pursuant to swap agreements in existence on August 1, 2008 or entered into after such date shall constitute general obligations of the Commonwealth for which its full faith and credit is pledged.

Future bond interest payments are calculated using rates applicable to the scheduled payment nearest to June 30, 2017 for variable rate bonds. The net swap payments are calculated by subtracting the projected future variable rate interest payment per the swap agreement from the projected future fixed rate payment per the swap agreement. Projected future variable rate payments on the swap agreements are based on variable rates applicable to the scheduled payment nearest to June 30, 2017. The actual amount of variable rate interest paid to bondholders and net swap payments made to counterparties are affected by changes in variable interest rates, changes in inflation (CPI), as well as changes in the London Interbank Offered Rate (LIBOR) and the Securities Industry and Financial Markets Association (SIFMA) floating rate indices. Changes in the amounts paid to bondholders versus amounts paid to counterparties are largely offsetting.

Debt service requirements to maturity for variable-rate bonds hedged by interest rate swap agreements and projected future net settlement payments on interest rate swap agreements at June 30, 2017 are provided below (amounts in thousands):

| | | Variable-F | Rate | Bonds | | | | | | | | | | |
|----------------|---------|------------|------|----------|----|------------|-----------------|----|--|----|--|-----|--------|--|
| Fiscal Year | | | | _ | | erest Rate | | | | | | | | |
| Ending June 30 | | Principal | _ | Interest | Sv | vaps, Net | Total | | | | | | | |
| 2018 | \$ | 102,100 | \$ | 19,686 | \$ | 49,572 | \$ 171,358 | | | | | | | |
| 2019 | | 191,985 | | 18,321 | | 45,433 | 255,739 | | | | | | | |
| 2020 | | 248,610 | | 15,775 | | 39,712 | 304,097 | | | | | | | |
| 2021 | | 224,780 | | 11,745 | | 33,169 | 269,694 | | | | | | | |
| 2022 | 126,575 | | | 9,731 | | 28,229 | 164,535 | | | | | | | |
| 2023 - 2027 | | 685,825 | | 20,939 | | 74,641 | 781,405 | | | | | | | |
| 2028 - 2032 | | 112,080 | | 3,026 | | 15,775 | 130,881 | | | | | | | |
| 2033 - 2037 | | 25,520 | | 93 | | 93 | | 93 | | 93 | | 483 | 26,096 | |
| Total | \$ | 1,717,475 | \$ | 99,316 | \$ | 287,014 | \$ 2,103,805 | | | | | | | |

Business - Type Activities - Swapped Debt

The business-type activities have various swaps. At June 30, 2017, the fair value liability of the outstanding interest rate swaps was \$63 million.

For financial reporting purposes, long-term debt is carried at its face value. Unamortized discounts and premiums are

shown separately. For capital appreciation bonds, the outstanding amount represents total principal and accreted interest to be repaid.

Component Unit - Swapped Debt

At June 30, 2017, the majority of interest rate swaps outstanding are held by MassDOT, which in aggregate have a negative fair value of approximately \$341 million. For complete details, see separate MassDOT financial statements.

G. OUTSTANDING LONG-TERM DEBT AND CHANGES IN LONG TERM DEBT

The amount of long-term debt authorized but unissued is measured in accordance with the statutory basis of accounting. Long-term debt principal outstanding and debt authorized and unissued at June 30, 2017 is as follows (amounts in thousands):

| Purpose | Principal Outstanding | Fiscal Year Maturities | thorized and Unissued |
|---|--------------------------|---------------------------|--------------------------|
| GANs | \$ 738,010 | 2018 - 2027 | \$ _ |
| Capital projects: | | | |
| General | 12,315,107 | 2018 - 2047 | 10,754,872 |
| Highway | 11,848,128 | 2018 - 2047 | 11,948,836 |
| Local aid | 969,000 | 2018 - 2039 | 12,594 |
| Other | 575,420 | 2018 - 2034 | |
| Subtotal | 25,707,655 | | 22,716,302 |
| Subtotal - governmental activities debt (exclusive of MSBA) | 26,445,665 | | \$ 22,716,302 |
| MSBA debt | 5,828,790 | | |
| Governmental activities debt | \$ 32,274,455 | | |

Interest rates on the Commonwealth's outstanding debt at the end of FY17 ranged from 0.5% to 6.6%.

Changes in long-term debt outstanding (excluding discount and premium) and bonds authorized - unissued for the year ended June 30, 2017 are as follows (amounts in thousands):

| | _ | overnmental nds (excluding MSBA) | MSBA | tal Governmental nds Bonded Debt | Authorized and Unissued |
|---|----|--|-----------------|---|-------------------------|
| Balance July 1, 2016 | \$ | 25,079,591 | \$ 5,624,275 | \$ 30,703,866 | \$ 26,145,997 |
| Plus: Increases in bonds authorized | | _ | _ | _ | 1,893,368 |
| General and special obligation bonds: | | | | | |
| Proceeds, defined as principal, plus premium, | | | | | |
| less discount | | 5,432,040 | 704,184 | 6,136,224 | (5,323,063) |
| Less: Net premium | | (701,495) | (110,559) | (812,054) | _ |
| Less: Principal on refunded bonds | | (1,974,890) | (276,185) | (2,251,075) | _ |
| Less: Bonds retired | | (1,389,581) | (112,925) | (1,502,506) | |
| Outstanding principal June 30, 2017 | \$ | 26,445,665 | \$ 5,828,790 | \$ 32,274,455 | \$ 22,716,302 |

Business - Type Activities - Colleges and University Debt

Building authorities related to the University of Massachusetts and the state universities have issued bonds for construction of higher education facilities and equipment. Such bonds are guaranteed by the Commonwealth in an

aggregate amount not to exceed \$200 million. The bond agreements generally provide that revenues from student fees are pledged as collateral on the bonds and establish bond reserve funds, bond funds, and maintenance reserve funds. The University of Massachusetts and state universities have also entered into various loan agreements as participants in the MassDevelopment's ongoing capital asset program to finance construction projects and equipment.

At June 30, 2017, debt service requirements to maturity for principal and interest are as follows (amounts in thousands):

| | Governmental Activities | | | | | | | | | Business - Ty | pe A | ctivities | | | |
|------------------------|-------------------------|-------------|-----|-------------|----|-----------|----|-----------|----|---------------|------|--------------------|----|-----------|--|
| | | Excluding 1 | MSB | A Debt | | | N | ISBA Debt | | | | Revenue Obligation | | | |
| Fiscal Year | | | | | | | | | | Interest | | | | | |
| Ended June 30 | | Principal | | Interest | | Principal | _ | Interest | su | bsidies (1) | | Principal | _ | Interest | |
| 2018 | \$ | 1,496,099 | \$ | 1,164,923 | \$ | 121,530 | \$ | 284,426 | \$ | (22,602) | \$ | 260,479 | \$ | 189,685 | |
| 2019 | | 1,496,517 | | 1,122,655 | | 144,145 | | 278,951 | | (24,213) | | 152,384 | | 188,728 | |
| 2020 | | 1,410,509 | | 1,059,537 | | 134,440 | | 271,912 | | (24,213) | | 158,359 | | 183,143 | |
| 2021 | | 1,378,838 | | 990,371 | | 141,210 | | 265,310 | | (24,213) | | 164,181 | | 176,969 | |
| 2022 | | 1,328,392 | | 927,452 | | 147,305 | | 258,228 | | (24,213) | | 158,457 | | 170,661 | |
| 2023 - 2027 | | 5,623,498 | | 3,773,592 | | 963,475 | | 1,176,736 | | (121,066) | | 833,570 | | 751,211 | |
| 2028 - 2032 | | 4,461,252 | | 2,586,404 | | 1,365,880 | | 872,971 | | (55,009) | | 828,330 | | 546,486 | |
| 2033 - 2037 | | 3,155,945 | | 1,723,870 | | 1,297,115 | | 545,015 | | (29,065) | | 758,834 | | 359,300 | |
| 2038 - 2042 | | 3,293,095 | | 987,541 | | 1,174,950 | | 214,624 | | (5,093) | | 763,263 | | 174,190 | |
| 2043 -2047 | | 2,801,520 | | 266,548 | | 338,740 | | 28,402 | | _ | | 368,282 | | 39,021 | |
| 2048 - 2052 | _ | | | | _ | | _ | | | | _ | 83,214 | | 958 | |
| Total long - term debt | | 26,445,665 | | 14,602,893 | | 5,828,790 | | 4,196,575 | | (329,687) | | 4,529,353 | | 2,780,352 | |
| Less: current portion | | (1,496,099) | | (1,164,923) | | (121,530) | | (284,426) | | 22,602 | | (260,479) | | (189,685) | |
| Long - term debt | \$ | 24,949,566 | \$ | 13,437,970 | \$ | 5,707,260 | \$ | 3,912,149 | \$ | (307,085) | \$ | 4,268,874 | \$ | 2,590,667 | |

⁽¹⁾ FY18 interest subsidies reflect announced sequestration reductions. There may be sequestration reductions in future years as well.

In addition to the MSBA debt noted above, the MSBA also has \$450 million of commercial paper outstanding as of June 30, 2017 which provides funding of school construction and renovation projects. The commercial paper matures at various dates ranging from 33 to 94 days and interest is payable at maturity. The interest rate on this issuance of commercial paper ranges from 0.41% to 0.57%. The commercial paper that matured after June 30, 2017, a total of \$450 million, was rolled for maturities of 32 to 154 days at interest rates ranging from 0.77% to 0.96%.

H. PRIOR DEFEASANCE

The Commonwealth defeased certain general and special obligation bonds by purchasing securities from the proceeds of advance refunding bonds or from surplus operating funds and placing them in irrevocable trusts to provide for all future debt service payments on the defeased bonds. The trust account assets and the liabilities for the defeased bonds are not included in the financial statements. As of June 30, 2017, approximately \$3.417 billion of bonds outstanding from advance refunding activities is considered defeased.

Business - Type Activities

The University of Massachusetts (UMass) and the Massachusetts State College Building Authority (MSCBA) defeased various bonds by issuing refunding bonds and placing the proceeds in irrevocable trusts to provide for all future debt service payments on the defeased bonds. The trust assets and the liabilities of the defeased bonds are not included in the business type activity financial statements. As of June 30, 2017, approximately \$208 million and \$262 million of bonds outstanding from advanced refunding transactions are considered defeased for UMass and MSCBA, respectively.

I. STATUTORY DEBT LIMIT

The Massachusetts General Laws, as recently amended, establishes limits on the amount of direct debt outstanding. By statutorily limiting the Commonwealth's ability to issue direct debt, a control is established on annual capital spending. The direct debt limit for FY17 was approximately \$21.786 billion. Outstanding debt subject to the limit at June 30, 2017 was approximately \$20.974 billion.

For purposes of determining compliance with the limit, outstanding direct debt is defined by statute, as amended on June 10, 2013 (effective January 1, 2013), as principal outstanding. It excludes BANs and associated discount or premium, if any, special obligation bonds, GANs, refunded bonds, certain refunding bonds, debt issued by counties, debt issued in conjunction with the MBTA Forward Funding, certain Central Artery/Tunnel debt, debt issued for the SMART program and effective August 10, 2016 bonds issued under the Rail Enhancement Program. The amounts excluded from the debt limit are as follows (amounts in thousands):

| | Principal Outstanding |
|---------------------------------------|------------------------------|
| Statutory debt June 30, 2017 | \$ 26,445,665 |
| Less amounts excluded: | |
| Central artery project bonds | (1,110,195) |
| Accelerated bridge program | (2,380,740) |
| MBTA forward funding | (207) |
| SMART bonds | (632,348) |
| Convention center bonds | (575,420) |
| Special obligation gas tax bonds | (128,270) |
| Rail enhancement program bonds | (644,540) |
| Outstanding direct debt June 30, 2017 | \$ 20,973,945 |

J. ADMINISTRATION DEBT LIMIT

During FY09, the Administration announced a policy that sets the annual borrowing limit at a level designed to keep debt service at a maximum of 8% of budgeted revenues. For this purpose, debt service includes principal and interest payments on all general obligation debt, special obligation gas tax debt, interest on federal grant anticipation notes, general obligation contract assistance payment obligations, and budgetary contract assistance payment obligations on certain capital lease financings. Debt of the Massachusetts School Building Authority and of the Massachusetts Bay Transportation Authority that is supported by the portion of the sales tax legally dedicated to such entities is not included for purposes of this analysis, as the Commonwealth is not liable for such debt; similarly, the sales tax revenues legally dedicated to such entities are not included in the budgeted revenue projections.

In addition to keeping debt service at a maximum of 8% of budgeted revenues, the debt management policy limits future annual growth in the bond cap to not more than \$125 million through fiscal 2018. This additional constraint is designed to ensure that projected growth in the bond cap will be held to stable and sustainable levels.

The current Administration intends to treat all debt and debt-like obligations of the Commonwealth as subject to the bond cap for purposes of developing the annual capital budget, except in limited circumstances when there is a sound policy justification for not including a particular debt issue. Debt may be excluded from the bond cap, for example, where there is a new, dedicated source of project-related revenues supporting the payment of debt service on such debt. In such cases, the dedicated revenue would also be excluded from projected budgeted revenues for purposes of determining the bond cap as described above.

The following table shows the annual bond cap, the resulting total annual debt service payment obligations and debt service as a percentage of statutory basis budgeted revenues, (amounts in thousands):

| | Fiscal |
|--|-----------------|
| | 2017 |
| Bond cap as approved by the Governor | \$ 2,190,000 |
| Total annual debt service obligations | 2,667,042 |
| Statutory basis budgeted fund revenues | 41,784,743 |
| Debt service as % of budgeted revenues | 6.4% |

Ending

Due Within

K. CHANGES IN LONG-TERM LIABILITIES

The following table summarizes changes in long-term liabilities for both governmental activities and business-type activities (amounts in thousands):

Beginning

Changes in Long Term Liabilities - Governmental Activities:

| Description | Beginning Balance | Additions | Deletions | Balance | One Year |
|---|----------------------|--------------|-----------------|---------------|--------------|
| Other long-term obligations: | | | | | |
| Compensated absences | \$ 603,490 | \$ 604,312 | \$ (603,490) | \$ 604,312 | \$ 418,932 |
| Claims and judgments | 11,411 | 12,929 | (11,822) | 12,518 | 12,518 |
| Prizes payable | 1,194,945 | 27,592 | (160,187) | 1,062,350 | _ |
| School construction grants payable | 880,537 | 424,399 | (625,446) | 679,490 | 309,194 |
| Post employment benefit obligations | 6,466,000 | 1,661,000 | (546,000) | 7,581,000 | _ |
| Environmental remediation liability | 530,849 | 6,835 | (4,624) | 533,060 | 5,226 |
| Lottery instant grand prizes | 16,893 | 5,356 | _ | 22,249 | _ |
| Workers' compensation | 270,720 | 47,556 | (58,096) | 260,180 | 39,547 |
| Arbitrage rebate - MSBA | 2,187 | 757 | (950) | 1,994 | |
| Group insurance claims | 110,925 | 1,667,920 | (1,662,341) | 116,504 | 114,660 |
| Cost of living adjustment | 161,265 | | (14,965) | 146,300 | _ |
| Net pension liability | 32,855,715 | 6,169,172 | (2,083,022) | 36,941,865 | |
| Total other long-term obligations | 43,104,937 | 10,627,828 | (5,770,943) | 47,961,822 | 900,077 |
| Liability for derivative instruments | 340,930 | 214,971 | (340,930) | 214,971 | _ |
| Bonded Debt: | | | | | |
| Bonds and notes payable - non MSBA | 25,079,591 | 4,730,545 | (3,364,471) | 26,445,665 | 1,496,099 |
| Unamortized bond and note premiums - non MSBA | 1,343,350 | 701,495 | (273,860) | 1,770,985 | 78,519 |
| MSBA Bonds and notes payable excluding premium | 5,624,275 | 593,625 | (389,110) | 5,828,790 | 121,530 |
| Unamortized bond and note premiums - MSBA | 574,256 | 110,559 | (62,323) | 622,492 | 49,577 |
| MSBA other liabilities | 450,000 | 2,986,165 | (2,986,165) | 450,000 | 450,000 |
| Other financing arrangements: | | | | | |
| Capital leases | 41,302 | 804 | (11,250) | 30,856 | 7,889 |
| Total bonded debt and other financing arrangements | 33,112,774 | 9,123,193 | (7,087,179) | 35,148,788 | 2,203,614 |
| Long-term liabilities, governmental activities | \$ 76,558,641 | \$19,965,992 | \$ (13,199,052) | \$ 83,325,581 | \$ 3,103,691 |
| Changes in Major Long Term Liabilities - Business-Type Ac | tivities: | | | | |
| | Beginning | | | Ending | Due Within |
| Description | Balance | Additions | Deletions | Balance | One Year |
| Other long-term obligations: | | | | | |
| Compensated absences | \$ 220,381 | \$ 26,297 | \$ (29,878) | \$ 216,800 | \$ 151,145 |
| Net pension liability | 718,960 | 115,803 | (96,596) | 738,167 | |
| Total other long-term obligations | 939,341 | 142,100 | (126,474) | 954,967 | 151,145 |
| Liability for derivative instruments | 92,391 | _ | (29,248) | 63,143 | _ |
| Bonded Debt: | | | | | |
| Bonds and notes payable, including MSCBA | 4,438,282 | 469,887 | (378,816) | 4,529,353 | 260,479 |
| Other financing arrangements: | 0.00= | 2021 | (2.022) | 0.050 | 20 |
| Capital leases | 9,887 | 2,024 | (2,932) | 8,979 | 2,062 |
| Total bonded debt and other financing arrangements | 4,448,169 | 471,911 | (381,748) | 4,538,332 | 262,541 |
| Long-term liabilities, business - type activities | \$ 5,479,901 | \$ 614,011 | \$ (537,470) | \$ 5,556,442 | \$ 413,686 |

Governmental long-term liabilities, other than debt, are typically liquidated by using General Fund resources.

Discretely Presented Component Units – The change in bonds and notes outstanding at June 30, 2017, net of unamortized discounts and premiums, compensated absences, net pension and net OPEB liability are as follows (amounts in thousands):

| | | | aly 1, 2016 Beginning Balance | 1 | Increases | Decreases | Ju | ine 30, 2017 Ending Balance | ue Within One Year | I | ong Term |
|-------------------------------|----------------|-------------|-------------------------------------|----|-----------|-------------------|----|-----------------------------------|-----------------------|----|------------|
| | Interest Rates | Maturities | | | | | | | | | |
| Major component units: | | | | | | | | | | | |
| MassDOT | 0.00 - 7.000% | 2018 - 2046 | \$ 7,708,462 | \$ | 680,704 | \$ (830,968) | \$ | 7,558,198 | \$ 569,602 | \$ | 6,988,596 |
| MCWT | 1.00 - 6.375% | 2018 - 2043 | 3,328,202 | | 354,577 | (366,570) | | 3,316,209 | 231,485 | | 3,084,724 |
| Nonmajor component units | 1.00 - 6.500% | 2018 - 2038 | 628,251 | | 157,565 | (78,414) | | 707,402 | 38,211 | | 669,191 |
| Total bonds and notes payable | e | | 11,664,915 | | 1,192,846 | (1,275,952) | | 11,581,809 | 839,298 | | 10,742,511 |
| Compensated absences, net | | | 48,700 | | 428 | (7,609) | | 41,519 | 26,593 | | 14,926 |
| Net pension liability | | | 1,784,255 | | 462,561 | (244,906) | | 2,001,910 | _ | | 2,001,910 |
| Net OPEB liability | | | 990,382 | | 205,255 | (60,703) | | 1,134,934 | | | 1,134,934 |
| Total long term liabilities | | | \$ 14,488,252 | \$ | 1,861,090 | \$ (1,589,170) | \$ | 14,760,172 | \$ 865,891 | \$ | 13,894,281 |

The net pension liability of the discretely presented component units of \$2.002 billion includes \$1.312 billion related to the MBTA and RTAs and \$690 million related to entities that participate in SERS. See the MassDOT financial statements for further information regarding the MBTA and RTA pension plans and see pages 110–121 of this report for the SERS pension disclosures.

Further information on debt is found in the notes to the basic financial statements for the various component units.

8. INDIVIDUAL FUND DEFICITS

Certain funds within the Governmental Fund Type had fund deficits at June 30, 2017. None of these funds were in deficit due to finance-related contractual provisions and all were allowed to be in deficit by General Law. The amounts are as follows (amounts in thousands):

| Other Governmental Funds | | Amount |
|--|----|-----------|
| Other Special Revenue Funds: | | |
| Health Information Technology Trust Fund | \$ | (45,124) |
| Government Land Bank Fund | | (35,033) |
| Community Preservation Trust Fund | | (2,508) |
| Highway Capital Projects Fund | | (211,762) |
| Other Capital Project Funds: | | |
| Federal Highway Construction Program Capital Projects Fund | | (9,767) |
| Government Land Bank Capital Projects Fund | | (500) |

9. PENSIONS

The Commonwealth is statutorily responsible for the pension benefits for Commonwealth employees (members of the State Employees' Retirement System) and for teachers of the cities, towns, regional school districts throughout the Commonwealth and Quincy College (members of the Teachers' Retirement System). The members of the retirement systems do not participate in the Social Security System.

A. PLAN DESCRIPTIONS

Plan administration

The Massachusetts *State Employees' Retirement System* (SERS) is a public employee retirement system (PERS), that administers a cost-sharing multiple employer defined benefit plan covering substantially all employees of the Commonwealth and certain employees of the independent authorities and agencies, including the state police officers at the Massachusetts Port Authority. The former Massachusetts Turnpike Authority (MTA) employees and retirees became members of SERS upon the creation of MassDOT. Other employees who transferred to MassDOT have been, and remain, members of SERS. The assets and liabilities of the former MTA have been transferred to SERS. SERS is administered by the Massachusetts State Retirement Board (the SRB) and is part of the reporting entity and does not issue a stand-alone audited financial report.

Management of the SERS is vested in the SRB, which consists of five members—two elected by current and active SERS members, one by the remaining members of the SRB, one who is appointed by the State Treasurer, and the State Treasurer, who serves as ex-officio and is the Chairman of the SRB.

The Massachusetts *Teachers' Retirement System* (MTRS) is a PERS that administers a cost-sharing multiple employer defined benefit plan managed by the Commonwealth on behalf of municipal teachers and municipal teacher retirees. The Commonwealth is a non-employer contributor and is responsible for all contributions and future benefit requirements of the MTRS. The MTRS covers certified teachers in cities (except Boston), towns, regional school districts and Quincy College. The MTRS is administered by the Massachusetts Teachers' Retirement Board (the MTRB) and is part of the reporting entity and does not issue a stand-alone audited financial report.

Management of the MTRS is vested in the MTRB, which consists of seven members—two elected by the MTRS members, one who is chosen by the six other MTRB members, the State Treasurer (or their designee), the State Auditor (or their designee), a member appointed by the Governor, and the Commissioner of Education (or their designee), who serves as ex-officio and is the Chairman of the MTRB.

The Boston Retirement System (BRS) is a PERS that administers a cost-sharing multiple employer defined benefit plan managed by the City of Boston Retirement Board covering all City of Boston departments and agencies as well as the School Department, the Boston Planning and Development Agency, the Boston Housing Authority, the Public Health Commission and the Boston Water and Sewer Commission. The BRS is not administered by the Commonwealth and is not part of the reporting entity of the Commonwealth.

Chapter 112 of the Acts of 2010, signed on May 22, 2010, changed the methodology for the Commonwealth funding of Boston teachers in the BRS (hereafter referred to as BRS-Teachers) and created a special funding situation for the Commonwealth. The cost of pension benefits of the other participants of the BRS is the responsibility of the City of Boston. Chapter 112 clarified that the Commonwealth is responsible for all contributions and future benefit requirements for BRS-Teachers. The net pension liability related to the BRS-Teachers is included in the Commonwealth's net pension liability in this report.

Management of the BRS is vested with in a Board of Trustees, which consists of five members-two elected by the active and retired members of the system, the City Auditor as ex-officio, one member appointed by the Mayor of Boston, and one member who is elected by the other four members. The BRS issues a stand-alone audited financial report. For a complete copy of BRS's separately issued financial statements, please contact the City of Boston Retirement Board at (617) 635-4305, or you may download this report at http://www.cityofboston.gov/retirement/ investment.asp.

Plan membership. As of January 1, 2017, for SERS and MTRS, the dates of the most recent valuations, plan membership consisted of the following:

| | SERS | MTRS |
|--|---------|---------|
| Defense of the Calabara and the Calabara Calabara | (2.250 | CE 02C |
| Retirees and beneficiaries currently receiving benefits | 62,259 | 65,036 |
| Terminated employees entitled to benefits but not yet receiving them | 4,094 | |
| Subtotal | 66,353 | 65,036 |
| Current members | 90,014 | 92,128 |
| Total | 156,367 | 157,164 |

Benefits provided. SERS, MTRS and BRS provide retirement, disability, survivor, and death benefits to members and their beneficiaries. Massachusetts General Laws (MGL) establishes uniform benefit and contribution requirements for all contributory PERS. These requirements provide for superannuation retirement allowance benefits up to a maximum of 80% of a member's highest three-year average annual rate of regular compensation. For employees hired after April 1, 2012, retirement allowances are calculated on the basis of the last five years or any five consecutive years, whichever is greater in terms of compensation. Benefit payments are based upon a member's age, length of creditable service, and group creditable service, and group classification. The authority for amending these provisions rests with the Legislature.

Members become vested after ten years of creditable service. A superannuation retirement allowance may be received upon the completion of twenty years of service or upon reaching the age of 55 with ten years of service. Normal retirement for most employees occurs at age 65; for certain hazardous duty and public safety positions, normal retirement is at age 55. Most employees who joined the system after April 1, 2012 cannot retire and receive benefits prior to age 60.

The policy for post-retirement benefit increases for all retirees of the SERS, MTRS and for those participants who serve in the City of Boston's School Department in a teaching capacity is subject to legislative approval.

Contributions. The retirement systems' funding policies have been established by Chapter 32 of the MGL. The Legislature has the authority to amend these policies. The annuity portion of the SERS and MTRS retirement allowance is funded by employees, who contribute a percentage of their regular compensation. Costs of administering the plan are funded out of plan assets.

Chapter 32 of the General Laws directs the Secretary of Administration and Finance to prepare a funding schedule to meet actuarially determined requirements, and to update this funding schedule every three years on the basis of new actuarial valuation reports prepared under the Secretary's direction. Any such schedule is subject to legislative approval. If a schedule is not so approved, payments are to be made in accordance with the most recently approved schedule. Under the current schedule adopted in January 2017, the amortization payments are designed to eliminate the unfunded liability by FY36 according to the following schedule: annual appropriation increases of 9% per year until FY19 decreasing to 7% thereafter until FY36 (four years before the statutory deadline of FY40). The funding schedule as published follows an acceptable actuarial funding methodology to compute normal cost and the unfunded accrued actuarial liability.

Member contributions for SERS, MTRS and BRS vary depending on the most recent date of membership:

| Hire Date | % of Compensation |
|---------------------|---|
| Prior to 1975 | 5% of regular compensation |
| 1975 - 1983 | 7% of regular compensation |
| 1984 to 6/30/1996 | 8% of regular compensation |
| 7/1/1996 to present | 9% of regular compensation except for State Police, which is 12% of regular compensation |
| 7/1/2001 to present | 11% of regular compensation (for teachers hired after 7/1/01 and those accepting provisions of Chapter 114 of the Acts of 2000) |
| 1979 to present | An additional 2% of regular compensation in excess of \$30,000 |

In addition, members of Group 1 who join the system on or after April 2, 2012 will have their withholding rate reduced to 6% after achieving 30 years of creditable service.

B. INVESTMENTS

Investment Policy. SERS and MTRS are required to invest in the Pension Reserves Investment Trust (PRIT) Fund, which is managed by the Pension Reserves Investment Management (PRIM) Board. The PRIM Board seeks to maximize the total return on investments, within acceptable levels of risk and cost for an approximately 60% funded public pension fund. The PRIM Board recognizes that over the long term, asset allocation is the single greatest contributor of return and risk to the PRIT Fund. The investment policy statement adopted by the PRIM Board requires a comprehensive review of the PRIM Board's asset allocation plan and its underlying assumptions at reasonable intervals of not more than three to five years. In addition, the investment policy statement requires that the PRIM Board conduct an annual evaluation of the PRIT Fund's asset allocation. The PRIM Board's last comprehensive review of the PRIT Fund asset allocation was conducted during fiscal 2017.

The following was the PRIT Fund asset allocation as of June 30, 2017:

| Asset Class | Target Allocation |
|---------------------------------|----------------------|
| Global Equity | 40.0% |
| Portfolio Completion Strategies | 13.0% |
| Core Fixed Income | 12.0% |
| Private Equity | 11.0% |
| Real Estate | 10.0% |
| Value Added Fixed Income | 10.0% |
| Timber/Natural Resources | 4.0% |
| Total | 100.0% |

The annual money-weighted return on pension plan investments calculated as the internal rate of return on pension plan investments net of pension plan expenses for fiscal 2017 was 12.74% for SERS, 12.75% for MTRS. A money-weighted rate of return expresses investment performance, net of pension plan investment expense, adjusted for the changing amounts actually invested.

C. NET PENSION LIABILITY OF THE SYSTEMS REQUIRED BY GASB 67

The components of the net pension liability for SERS and MTRS at June 30, 2017 are as follows (amounts in thousands):

| | SERS | MTRS |
|--|---------------|---------------|
| Total pension liability | \$ 39,107,000 | \$ 50,024,000 |
| Plan fiduciary net position | (26,282,232) | (27,138,609) |
| Net pension liability | \$ 12,824,768 | \$ 22,885,391 |
| Fiduciary net position as a percentage | | |
| of the total pension liability | 67.2% | 54.3% |

Additional information regarding changes in the net pension liability can be found in the Required Supplementary Information section of these financial statements.

Actuarial assumptions. The total pension liability, for both SERS and MTRS, was determined by an actuarial valuation as of January 1, 2017 rolled forward to June 30, 2017, using the following actuarial assumptions:

- 1. The actuarial assumptions included: (a) 7.50% investment rate of return, the same rate used in the January 1, 2016 actuarial valuation; (b) 3.5% interest rate credited to the annuity savings fund; and (c) 3.0% cost of living increase on the first \$13,000 per year.
- 2. Salary increases are based on analyses of past experience but range from 3.5% to 9.0% depending on group and length of service.
- 3. Experience studies were performed as follows:
 - a. SERS:
 - Dated February 27, 2014 and encompasses the period January 1, 2006 to December 31, 2011.
 - b. MTRS
 - Dated July 21, 2014 and encompasses the period January 1, 2006 to December 31, 2011.
- 4. Mortality rates were as follows:
 - a. SERS:
 - Pre-retirement mortality reflects RP-2014 Blue Collar Employees table projected generationally with Scale MP-2016 set forward 1 year for females.
 - Post-retirement mortality reflects RP-2014 Blue Collar Healthy Annuitant table projected generationally with Scale MP-2016 set forward 1 year for females.
 - For disabled members, the mortality rate is assumed to be in accordance with the RP-2000 Healthy Annuitant Table projected generationally with Scale BB and a base year of 2015 (gender distinct).

b. MTRS:

- Pre-retirement mortality reflects RP-2014 White Collar Employees table projected generationally with Scale MP-2016 (gender distinct).
- Post-retirement mortality reflects RP-2014 White Collar Healthy Annuitant table projected generationally with Scale MP-2016 (gender distinct).
- For disabled members, the mortality rate is assumed to be in accordance with RP-2014 Healthy Annuitant Table projected generationally with Scale BB and a base year of 2014 set forward 4 years.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate arithmetic expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These assumptions are converted into nominal assumptions by adding inflation, then combined by weighting them by the target asset allocation percentages. Finally, the arithmetic portfolio expected return is converted into a geometric expected return using assumed asset class standard deviations and correlations. Best estimates of geometric rates of return for each major asset class included in the PRIT Fund's target asset allocation as of June 30, 2017 (see the discussion of the pension plan's investment policy in Note 9(B)) are summarized in the following table:

| | Long-term Expected Real |
|---------------------------------|----------------------------|
| Asset Class | Rate of Return |
| Private Equity | 6.6% |
| Global Equity | 5.0% |
| Value Added Fixed Income | 3.8% |
| Hedge Funds | 3.6% |
| Portfolio Completion Strategies | 3.6% |
| Real Estate | 3.6% |
| Timberland/Natural Resources | 3.2% |
| Core Fixed Income | 1.1% |

Discount rate. The discount rate used to measure the pension liability for SERS and MTRS was 7.50%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rates and the Commonwealth's contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rates. Based on those assumptions, the SERS and MTRS net positions were projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability for SERS and MTRS.

Sensitivity of the net pension liability to changes in the discount rate. The following presents the net pension liability of SERS and MTRS, calculated using the discount rate of 7.50%, as well as what the SERS and MTRS net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.50%) or 1-percentage-point higher (8.50%) than the current rate (amounts in thousands):

| | | Current | | |
|----------------------------|---------------------|--------------------------|---------------------|--|
| | 1% Decrease (6.50%) | Discount Rate (7.50%) | 1% Increase (8.50%) | |
| SERS net pension liability | \$ 17,466,800 | \$ 12,824,768 | \$ 9,085,500 | |
| MTRS net pension liability | 28,424,300 | 22,885,391 | 18.193.400 | |

D. NET PENSION LIABILITY OF THE SYSTEMS REQUIRED BY GASB 68

Proportionate Share of Net Pension Liability

As of the respective measurement dates below, the net pension liability for SERS, MTRS and BRS were \$13.789 billion, \$22.358 billion, and \$4.161 billion, respectively. The net pension liabilities for SERS and MTRS were determined by an actuarial valuation as of January 1, 2016 and rolled forward to June 30, 2016. The BRS net pension liability was determined by an actuarial valuation as of January 1, 2015 and rolled forward to December 31, 2016. The SERS, MTRS and BRS actuarial valuations were rolled forward to their respective measurement dates using generally accepted actuarial procedures.

The Commonwealth (the primary government) reported the following net pension liabilities for its proportionate share of the SERS, MTRS and BRS-Teachers net pension liabilities (amounts in thousands):

| System | Measurement Date | Proportionate Share | Net Pension Liability |
|---|-------------------|------------------------|--------------------------|
| State Employees' Retirement System | June 30, 2016 | 94.3% | \$ 12,996,818 |
| Massachusetts Teachers' Retirement System | June 30, 2016 | 100.0% | 22,357,928 |
| Boston Retirement System - Teachers | December 31, 2016 | 55.9% | 2,325,286 |
| Total net pension liability | | | \$ 37,680,032 |

Certain of the Commonwealth's discretely presented component units (the Massachusetts Convention Center Authority [MCCA] and the Massachusetts Department of Transportation [MassDOT]) participate in SERS. As of the measurement date the proportionate share of the SERS net pension liability for the discretely presented component units was as follows (amounts in thousands):

| System | Measurement Date | Proportionate Share | et Pension Liability |
|------------------------------------|---------------------|------------------------|-------------------------|
| State Employees' Retirement System | June 30, 2016 | 5.0% | \$ 690,172 |

Deferred Outflows and Inflows of Resources

As of the measurement dates, the Commonwealth (primary government) recognized pension expense of approximately \$4.310 billion and the discretely presented component units recognized approximately \$90 million of pension expense. The following details the components of deferred outflows of resources and deferred inflows of resources related to pension expense (amounts in thousands):

| Primary Government | | | | | | | Discretely Presented Component Units | | |
|--|---|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---|-------------------------------------|--|
| | SEI | RS | MT | RS | BR | LS. | | | |
| | Deferred Outflows of Resources | Deferred Inflows of Resources | |
| Change of assumptions | \$ 1,441,216 | \$ _ | 2,141,337 | _ | 163,455 | _ | \$ 77,725 | \$ 4,058 | |
| Changes in proportion | 189,710 | 164,693 | _ | _ | _ | _ | 8,326 | 31,237 | |
| Net difference between projected and actual earnings | | | | | | | | | |
| on pension plan investments | 872,453 | _ | 978,282 | _ | 67,790 | _ | 174,858 | 1,875 | |
| Differences between expected and actual experience | 617,314 | _ | 103,645 | 62,085 | _ | 117,748 | 151,261 | 7,325 | |
| Payments made after the | | | | | | | | | |
| measurement date | 733,370 | | 1,235,515 | | | | 74,550 | | |
| Totals | \$ 3,854,063 | \$ 164,693 | \$ 4,458,779 | \$ 62,085 | \$ 231,245 | \$ 117,748 | \$ 486,720 | \$ 44,495 | |

The statements reflect changes in proportion due to internal allocations between the governmental and business type activities, which are eliminated for footnote presentation.

The \$1.969 billion and \$75 million reported as deferred outflows of resources in the primary government and the discretely presented component units, respectively, are the contributions made subsequent to the measurement date and will be recognized as a reduction of the net pension liability in the next fiscal year. Other amounts reported above as deferred outflows of resources and deferred inflows of resource related to pension will be recognized in pension expense as follows (amounts in thousands):

| | Pr | | | |
|-------------------------------|--------------|--------------|------------|--|
| Fiscal Year Ending June 30 | SERS | MTRS | BRS | Discretely Presented Component Units |
| 2018 | \$ 658,360 | \$ 626,257 | \$ 43,312 | \$ 114,362 |
| 2019 | 658,360 | 626,257 | 43,311 | 113,872 |
| 2020 | 1,008,642 | 1,024,921 | 41,812 | 92,462 |
| 2021 | 584,508 | 793,781 | 7,300 | 47,418 |
| 2022 | 46,130 | 92,351 | (22,238) | (676) |
| Thereafter | _ | (2,388) | _ | 237 |
| Totals | \$ 2,956,000 | \$ 3,161,179 | \$ 113,497 | \$ 367,675 |

The SERS and MTRS total pension liabilities were based on an actuarial valuation as of January 1, 2016 rolled forward to June 30, 2016, using the following actuarial assumptions:

- 1. The actuarial assumptions included (a) 7.5% investment rate of return, (b) 3.5% interest rate credited to the annuity savings fund and (c) 3.0% cost of living increase on the first \$13,000 per year.
- 2. Salary increases are based on analyses of past experience but range from 4.0% to 9.0% (SERS) and 4.0% to 7.5% (MTRS) depending on group and length of service.
- 3. Chapter 176 of the Acts of 2011 created a one-time election for eligible members of the Optional Retirement Plan (ORP) to transfer to SERS and purchase service for the period while members of the ORP. As a result, the total pension liability of SERS has increased by approximately \$400 million as of June 30, 2016.
- 4. Experience studies were performed as follows:

SERS:

Dated February 27, 2014 and encompasses the period January 1, 2006 to December 31, 2011

MTRS:

- Dated July 21, 2014 and encompasses the period January 1, 2006 to December 31, 2011
- 5. Mortality rates were as follows:

SERS:

- Pre-retirement reflects RP-2000 Employees Table projected generationally with Scale BB and a base year of 2009 (gender distinct)
- Post-retirement reflects RP-2000 Healthy Annuitant Table projected generationally with Scale BB and a base year of 2009 (gender distinct)
- Disability the morality rate is assumed to be in accordance with the RP-2000 Healthy Annuitant Table projected generationally with Scale BB and a base year of 2015 (gender distinct)

MTRS:

- Pre-retirement reflects RP-2014 Employees Table projected generationally with Scale BB and a base year of 2014 (gender distinct)
- Post-retirement reflects RP-2014 Healthy Annuitant Table projected generationally with Scale BB and a base year of 2014 (gender distinct)
- Disability assumed to be in accordance with the RP-2014 Healthy Annuitant Table projected generationally with Scale BB and a base year 2014 set forward 4 years

The BRS-Teachers total pension liability was based on an actuarial valuation as of January 1, 2016 rolled forward to December 31, 2016, using the following actuarial assumptions:

- 1. The actuarial assumptions included (a) 7.5% investment rate of return, (b) 4.5% interest rate credited to the annuity savings fund and (c) 3.0% cost of living increase on the first \$13,000 per year.
- 2. Salary increases range from 4.0% to 7.5% depending on length of service.
- 3. Mortality rates were as follows:
 - Healthy reflects RP-2014 Employee and Healthy Annuitant Mortality Tables projected generationally using Scale BB2D from 2014.
 - Disabled reflects RP-2014 Healthy Annuitant Mortality Table set forward four years projected generationally using Scale BB2D from 2014.

Investments

The Massachusetts legislature enacted Section 17 of Chapter 112 of the Acts of 2010, which requires the SBRS to invest all assets, current and future, related to BRS-Teachers in the PRIT pooled fund.

The following was the PRIT Fund target asset allocation and best estimates of geometric rates of return for each major asset class as of June 30, 2016:

| Asset Class | Target Allocation | Long-term Expected Real Rate of Return* | |
|---------------------------------|----------------------|---|--|
| | 40.004 | | |
| Global Equity | 40.0% | 9.0% | |
| Core Fixed Income | 13.0% | 1.6% | |
| Private Equity | 10.0% | 8.7% | |
| Real Estate | 10.0% | 4.6% | |
| Value Added Fixed Income | 10.0% | 4.8% | |
| Hedge Funds | 9.0% | 4.0% | |
| Portfolio Completion Strategies | 4.0% | 3.6% | |
| Timber/Natural Resources | 4.0% | 5.4% | |
| Total | 100.0% | | |

^{* -} BRS does not separately provide the long-term expected real rate of return for BRS-Teachers assets invested in the PRIT Fund as of the BRS measurement date.

Because SERS, MTRS and BRS-Teachers are all required to invest in the PRIT Fund, the long-term expected real rate of return was determined on that same basis as described in Note 9C.

The discount rate used to measure the pension liabilities of SERS and MTRS was 7.5% as of the June 30, 2016 measurement date for those plans. The discount rate used to measure the pension liability of BRS-Teachers was 7.5% as of its December 31, 2016 measurement date.

Sensitivity of the proportionate share of the net pension liability to changes in the discount rate. The following presents the net pension liability of SERS, MTRS and BRS-Teachers calculated using the discount rate of 7.5%, as well as what the SERS and MTRS net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.5%) or 1-percentage-point higher (8.5%) than the current rate (amounts in thousands):

| _ | 1% Decrease (6.5%) | Current Discount Rate (7.5%) | 1% Increase (8.5%) | |
|------------------------------------|--------------------|------------------------------|--------------------|--|
| SERS net pension liability | 16,944,767 | \$ 12,996,818 | \$ 9,661,978 | |
| MTRS net pension liability | 27,464,000 | 22,357,928 | 18,022,000 | |
| BRS-Teachers net pension liability | 2,760,530 | 2,325,286 | 1,964,698 | |

E. STATEMENTS OF NET POSITION AND CHANGES IN NET POSITION

The following table displays the Statement of Net Position and the Statement of Changes in Net Position for the SERS, and the MTRS as of June 30, 2017, (amounts in thousands):

| | Pension T | rust Funds | |
|--|-----------------------------|-------------------|---------------|
| | State Employees' PERS | Teachers' PERS | Total |
| ASSETS | | | |
| Cash and cash equivalents | \$ 120,921 | \$ 89,529 | \$ 210,450 |
| Net investment in PRIT at fair value | 26,028,618 | 26,956,332 | 52,984,950 |
| Other receivables | 27,049 | 91,240 | 118,289 |
| Other assets | 124,163 | 7,664 | 131,827 |
| Total assets | 26,300,751 | 27,144,765 | 53,445,516 |
| LIABILITIES | | | |
| Accounts payable | 18,519 | 6,156 | 24,675 |
| Net position available for post-employment benefits | \$ 26,282,232 | \$ 27,138,609 | \$ 53,420,841 |
| | State Employees' PERS | Teachers' PERS | Total |
| ADDITIONS | | | |
| Contributions: | | | |
| Employer contributions - Commonwealth and MassDOT | \$ 716,266 | \$ — | \$ 716,266 |
| Non-employer contributions - Commonwealth | 28,455 | 1,235,515 | 1,263,970 |
| Employer and non-employer contributions - other | 7,999 | _ | 7,999 |
| Employee contributions | 604,772 | 730,212 | 1,334,984 |
| ERIP funding contribution - Commonwealth | 29,093 | _ | 29,093 |
| Boston teachers' contributions from Commonwealth | _ | 132,477 | 132,477 |
| Other additions | 232,548 | 91,269 | 323,817 |
| Total contributions | 1,619,133 | 2,189,473 | 3,808,606 |
| Net investment gain/(loss): | | | |
| Investment gain/(loss) | 3,122,298 | 3,240,047 | 6,362,345 |
| Less: investment expense | (134,666) | (139,695) | (274,361) |
| Net investment gain/(loss) | 2,987,632 | 3,100,352 | 6,087,984 |
| Total additions. | 4,606,765 | 5,289,825 | 9,896,590 |
| DEDUCTIONS | | | |
| Administration | 30,030 | 24,053 | 54,083 |
| Retirement benefits and refunds | 2,207,582 | 2,896,567 | 5,104,149 |
| Payments to State Boston Retirement System | _ | 132,477 | 132,477 |
| Other deductions | 58,077 | 40,191 | 98,268 |
| Total deductions | 2,295,689 | 3,093,288 | 5,388,977 |
| Net increase/(decrease) | 2,311,076 | 2,196,537 | 4,507,613 |
| Net position available for post-employment benefits | | | |
| at beginning of year | 23,971,156 | 24,942,072 | 48,913,228 |
| Net position available for post-employment benefits at end of year | \$ 26,282,232 | \$ 27,138,609 | \$ 53,420,841 |

F. RESERVES

Chapter 32 of the MGL establishes certain legally required reserve accounts for both SERS and MTRS. These reserves are used to account for the accumulation of resources according to purpose for which they are received, acquired or held. The reserve accounts can only be modified or changed by legislation.

The balances of legally required reserves at June 30, 2017 were as follows (amounts in thousands):

| | SERS | _ | MTRS | Purpose |
|-------------------------------|------------------|----|------------|---|
| Annuity Savings Fund | \$ 6,138,663 | \$ | 7,552,917 | Active members' contribution balance |
| Annuity Reserve Fund | 1,973,057 | | 2,255,263 | Retired members' contribution account |
| Special Military Service Fund | 34 | | 230 | Members' contribution account while on military leave |
| Pension Reserve Fund | 18,170,478 | | 17,330,199 | Amounts appropriated to fund future retirement benefits |
| Total | \$ 26,282,232 | \$ | 27,138,609 | |

10. OTHER POST EMPLOYMENT BENEFITS

A. PLAN DESCRIPTIONS

Plan administration

The Commonwealth administers an OPEB plan as a single employer defined benefit program. Benefits are managed by the Group Insurance Commission (GIC) and investments are managed by PRIM. The GIC has representation on the Board of Trustees of the State Retirees' Benefits Trust (SRBT).

At the inception of MassDOT, the employees of the former Massachusetts Turnpike Authority became eligible to participate in the Commonwealth's OPEB plan. All other employees of MassDOT were members of the plan prior to the creation of MassDOT and remain so. The liability for MassDOT (including former MTA employees) is included in the Commonwealth's liability.

The SRBT is set up solely to pay for OPEB benefits and the cost to administer those benefits. It can only be revoked when all such health care and other non-pension benefits, current and future, have been paid or defeased. GIC administers benefit payments, while the Trustees are responsible for investment decisions. The SRBT is administered by the board of trustees and is reported as an OPEB Trust Fund and does not issue a stand-alone audited financial report.

Management of the SRBT is vested with a board of trustees, which consists of 7 members including the Secretary of Administration and Finance (or their designee), the Executive Director of the GIC (or their designee), the Executive Director of PERAC (or their designee), the State Treasurer (or their designee), the Comptroller (or a designee), 1 person appointed by the Governor and 1 person appointed by the State Treasurer. The members elect 1 person to serve as chair of the board.

Plan membership. As of January 1, 2017 the date of the most recent actuarial valuation, plan membership consisted of the following:

| | SRBT |
|---|---------|
| Inactive plan members or beneficiaries currently receiving benefit payments | 81,111 |
| Inactive plan members entitled to but not yet receiving benefit payments | 2,671 |
| Active plan members | 71,465 |
| Total | 155,247 |

Benefits provided. Under Chapter 32A of the Massachusetts General Laws the Commonwealth is required to provide certain health care and life insurance benefits for retired employees of the Commonwealth, housing authorities, redevelopment authorities and certain other governmental agencies. Substantially all of the Commonwealth's employees may become eligible for these benefits if they reach retirement age while working for the Commonwealth. Eligible retirees are required to contribute a specified percentage of the health care/benefit costs, which are comparable to contributions required from employees.

Employer and employee contribution rates are set in General Law. The Commonwealth recognizes its share of the costs on an actuarial basis. As of June 30, 2017 and as of the valuation date (January 1, 2017), Commonwealth participants contributed 0% to 20% of premium costs, depending on the date of hire and whether the participant is active, retiree, or survivor status. As part of the FY10 General Appropriation Act, all active employees pay an additional 5% of premium costs. Normal costs paid for OPEB to retirees during FY17 totaled approximately \$546 million.

Effective beginning FY14, the Commonwealth by statute is required to allocate, to the SRBT, a portion of revenue received under the Master Settlement Agreement with tobacco companies, increasing from 10% in FY14 to 100% by FY23. In FY17, 10% of tobacco settlement proceeds or approximately \$25 million was allocated to the SRBT. The percentage of proceeds to be transferred to the SRBT in FY17 was set at 10%, overriding existing statute.

B. INVESTMENTS

Investment Policy. The SRBT is required to invest in the PRIT Fund. Consequently, information about SRBT's target asset allocation and long-term expected real rate of return as of June 30, 2017, are the same as discussed in Notes 9 (B) and (C).

The annual money-weighted return on OPEB plan investments calculated as the internal rate of return on OPEB plan investments net of OPEB plan expenses for fiscal 2017 was 12.90%. A money-weighted rate of return expresses investment performance, net of OPEB plan investment expense, adjusted for the changing amounts actually invested.

C. NET OPEB LIABILITY REQUIRED BY GASB 74

The components of the net OPEB liability at June 30, 2017 are as follows (amounts in thousands);

| | SRBT |
|--|-------------------------|
| Total OPEB liability | 20,771,336 (996,407) |
| Net OPEB liability | \$ 19,774,929 |
| Fiduciary net position as a percentage of the total OPEB liability | 4.8% |

Additional information regarding changes in the net OPEB liability can be found in the Required Supplementary Information Section of these financial statements.

Actuarial assumptions. The total OPEB liability was determined by an actuarial valuation as of January 1, 2017 rolled forward to June 30, 2017, using the following actuarial assumptions:

- 1. The following annual healthcare cost trend rates: (1) 8.5%, decreasing by 0.5% each year to an ultimate rate of 5.0% in 2024 for Medical, (2) 5.0% for EGWP and (3) 5.0% for administration costs.
- 2. Mortality rate was in accordance with RP 2014 Blue Collar Mortality Table projected with scale MP-2016 from the central year, with females set forward one year.

Projections of benefits for financial reporting purposes are based on the substantive plan (the plan as understood by the Commonwealth and those non-Commonwealth governments that participate in the GIC) and include the types of benefits provided at the time of each valuation and the historical pattern of sharing of benefit costs on a premium basis between the Commonwealth and those non-Commonwealth governments that participate in the GIC to that point. The actuarial methods and assumptions used include techniques that are designed to reduce short-term volatility in actuarial accrued liabilities and the actuarial value of assets, consistent with the long-term perspective of the calculations.

Discount rate. The discount rate used to measure the OPEB liability was 3.63%. This rate was based on a blend of the Bond Buyer Index rate (3.58%) as of the measurement date and the expected rate of return. The plan's fiduciary net position was not projected to be available to make all projected future benefit payments for current plan members. The projected "depletion date" when projected benefits are not covered by projected assets is 2023. Therefore, the long-term expected rate of return on plan investments of 7.50% per annum was not applied to all periods of projected benefit payments to determine the total OPEB liability as of June 30, 2017.

Sensitivity of the net OPEB liability to changes in the discount rate. The following presents the net OPEB liability of the Commonwealth calculated using the discount rate of 3.63%, as well as what the net OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower (2.63%) or 1-percentage-point higher (4.63%) than the current rate (amounts in thousands):

| | | | | Current | | | |
|-------------------------|---------|-------------|----------|--------------|---------|-------------|--|
| | | 1% Decrease | Discount | | | 1% Increase | |
| | (2.63%) | | | Rate (3.63%) | (4.63%) | | |
| SRBT net OPEB liability | \$ | 24,029,500 | \$ | 19,774,929 | \$ | 16,505,500 | |

Sensitivity of the net OPEB liability to changes in the healthcare cost trend rates. The following presents the net OPEB liability of the Commonwealth, as well as what the net OPEB liability would be if it were calculated using a healthcare cost trend rate that is 1-percentage-point lower or 1-percentage-point higher than the current healthcare cost trend rate (amounts in thousands):

| | | 1% Decrease | (| Cost Trend Rate | | 1% Increase | |
|-------------------------|-----|-------------|----|-----------------|-----|-------------|--|
| | (B) | | | (A) | (C) | | |
| SRBT net OPEB liability | \$ | 16,226,600 | \$ | 19,774,929 | \$ | 24,499,900 | |

A - The current healthcare cost trend rates are as follows: 8.5% for Medicare, 5.0% for EGWP and 5.0% for administration costs.

D. ANNUAL OPEB COSTS AND NET OPEB LIABILITY REQUIRED BY GASB 45

GASB Statement No. 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions, which determines how employers and nonemployer contributing entities will report other postemployment benefit (OPEB) liabilities on their on their financial statements, is effective for year beginning after June 15, 2017. Until that statement is implemented, the Commonwealth continues to report its annual OPEB cost and OPEB liability in accordance with GASB Statement No. 45, Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions.

B - The healthcare cost trend rates after a 1% decrease are as follows: 7.5% for Medicare, 4.0% for EGWP and 4.0% for administration costs.

C - The healthcare cost trend rates after a 1% increase are as follows: 9.5% for Medicare, 6.0% for EGWP and 6.0% for administration costs.

Annual OPEB Cost and Net OPEB Obligation, Funded Status and Funding Progress

The Commonwealth is not required to contribute the actuarially determined annual required contribution (ARC) under the provisions of GASB Statement No. 45, *Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions*, and under Massachusetts General Laws. The ARC represents a level of funding that, if paid on an ongoing basis, is projected to cover normal cost each year and amortize any unfunded actuarial liabilities (or funding excess) over a period not to exceed thirty years. For FY17, the Commonwealth's annual OPEB contribution of approximately \$546 million for retiree benefits was less than the ARC. The Commonwealth's annual OPEB cost, the percentage of annual OPEB cost contributed to the SRBT and the net OPEB obligation for the Commonwealth for FY17 are as follows from the valuation calculated as of January 1, 2017 (amounts in millions except percentages):

| <u>2017</u> | S | RBT |
|--|----|-----------------------|
| Annual required contribution (ARC) | \$ | 1,623 235 (197) |
| Annual OPEB cost (AOC) | | 1,661 (546) |
| Increase in net OPEB obligation | | 1,115 |
| Net OPEB obligation as reported at beginning of year | | 6,466 |
| Net OPEB obligation - end of year | \$ | 7,581 |
| Percentage of annual OPEB cost contribution | | 32.9% |
| <u>2016</u> | | |
| Annual OPEB cost Percentage of annual OPEB cost contributed | \$ | 1,475 41.6% |
| Net OPEB obligation - end of year | \$ | 6,466 |
| <u>2015</u> | | |
| Annual OPEB cost Percentage of annual OPEB cost contributed | \$ | 1,410 45.2% |
| Net OPEB obligation - end of year | \$ | 5,605 |

^{*}Includes approximately \$25 million in tobacco settlement revenues.

| | Actuarial Value of Plan Assets | Actuarial Accrued Liability | Unfunded Actuarial Accrued Liability (UAAL) | Funded Ratio | Annual Covered Payroll (1) | UAAL as a % of Covered Payroll (1) |
|---|---|-----------------------------------|---|-----------------|----------------------------------|--|
| Actuarial Valuation as of January 1, 2017 | \$ 817,400 | \$ 20,263,500 | \$ 19,446,100 | 4.0% | \$ 5,927,012 | 328.1% |

⁽¹⁾ The covered payroll amount approximates the employer payroll

Actuarial valuations of an ongoing plan involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality, and the healthcare cost trend. Amounts determined regarding the funded status of the SRBT and the annual required contributions of the Commonwealth are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. The schedule of funding progress, presented as required supplementary information following the notes to the financial statements, presents multi-year trend information that shows whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liabilities for benefits.

Actuarial Methods and Assumptions

The actuarial assumptions included a 3.63% investment rate of return (net of administrative expenses and consistent with the requirements of GASB 74), a decrease from the 4.5% rate used in the January 1, 2016 valuation. This change resulted in an increase in the OPEB liability of approximately \$2.822 billion for FY2017.

Annual healthcare cost trend rates are as follows: (1) 8.5%, decreasing by 0.5% each year to an ultimate rate of 5.0% in 2024 for Medical, (2) 5.0% for EGWP and (3) 5.0% for administration costs.

The actuarial cost method was changed from the Projected Unit Credit method to the Entry Age Normal method (consistent with the requirements of GASB 74), which increased the OPEB liability by approximately \$1.176 billion for FY2017.

Changes in other actuarial assumptions resulted in an increase in the OPEB liability of approximately \$65 million for FY2017.

Administrative expenses are expected to rise 5.0% per annum. The Commonwealth's unfunded actuarial accrued liability is being amortized as a level percentage of projected payroll on a closed basis for a period of thirty years, increasing at a rate of 4.5% per year, the same rate as the projected salary increases.

The most recent OPEB actuarial valuation for the Commonwealth is available on the Comptroller's web site at http://www.macomptroller.info/docs/reports-audits/opeb/2017-mass-gasp-45-report.pdf. There is currently no separate, audited GAAP-basis postemployment benefit plan report available for the Commonwealth.

MSBA

The MSBA has a separate OPEB trust fund. The amount of assets and actuarial accrued liabilities related to MSBA's OPEB plan are not material to the Commonwealth (approximately \$3 million) and are therefore, not included in these financial statements.

E. STATEMENT OF NET POSITION AND CHANGES IN NET POSITION

The following table displays the Statement of Net Position and Statement of Changes in Net Position for the State Retirees' Benefit Trust as of June 30, 2017 (amounts in thousands):

| | OPEI | OPEB Trust Fund | | | |
|--|------|-------------------------|--|--|--|
| | | ate Retiree Benefits | | | |
| ASSETS | | | | | |
| Cash and cash equivalents | . \$ | 25,743 | | | |
| Net investment in PRIT at fair value | | 970,676 | | | |
| Total assets | | 996,419 | | | |
| LIABILITIES | | | | | |
| Accounts payable | | 12 | | | |
| Net position available for other post-employment benefits | | 996,407 | | | |
| ADDITIONS | | | | | |
| Contributions: | | | | | |
| Employer contributions - Commonwealth | . \$ | 465,449 | | | |
| Other additions | | 784 | | | |
| Total contributions | | 466,233 | | | |
| Net investment gain/(loss): | | | | | |
| Investment gain/(loss) | , | 110,825 | | | |
| Less: investment expense | | (5,003) | | | |
| Net investment gain/(loss) | | 105,822 | | | |
| Total additions | | 572,055 | | | |
| DEDUCTIONS | | | | | |
| Administration | | 127 | | | |
| Retirement benefits and refunds | | 441,064 | | | |
| Other deductions | | 500 | | | |
| Total deductions | | 441,691 | | | |
| Net increase/(decrease) | | 130,364 | | | |
| Net position available for other post-employment benefits at beginning of year | , | 866,043 | | | |
| Net position available for other post-employment benefits at end of year | . \$ | 996,407 | | | |

11. LEASES

Primary Government

In order to finance the acquisition of equipment, the Commonwealth has entered into various lease/purchase agreements, including tax-exempt lease purchase (TELP) agreements, which are accounted for as capital leases. Included in the capital assets of the Commonwealth are additions financed by capital leases. For FY17, these additions are approximately \$1 million. Lease agreements are for various terms and contain clauses indicating that their continuation is subject to appropriation by the Legislature.

The Commonwealth has numerous operating lease agreements for real property and equipment with varying terms. These agreements contain provisions indicating that continuation is subject to appropriation by the Legislature.

The Institutions of Higher Education lease real property and equipment under numerous operating lease agreements for varying terms. The following schedule summarizes future minimum payments under non-cancelable leases for governmental activities and for the Institutions of Higher Education – reported as a business-type activity, for the fiscal year ended June 30, 2017 (amounts in thousands):

| | Governmental Activities | | | | | | | | | | Busine | | | | | |
|------------------------------|-------------------------|---------|----|---------|-------------------------------------|----|---------|-----------------------------------|-----------|----|---------|----------|-------|--------------------|---|---------------|
| | | Capital | Le | ases | | | | | | | Capital | Lea | ses | | | |
| Fiscal Year Ended June 30 | Pr | incipal | I | nterest | Operating Leases MSBA Leases Leases | | | vernmental Activities Total | Principa | | Ir | Interest | | perating Leases | usiness - Type ctivities Total | |
| 2018 | \$ | 7,889 | \$ | 1,518 | \$ 216,073 | \$ | 1,068 | \$ | 226,548 | \$ | 2,062 | \$ | 332 | \$ | 72,391 | \$ 74,785 |
| 2019 | | 3,635 | | 699 | 141,111 | | 1,092 | | 146,537 | | 1,514 | | 280 | | 67,923 | 69,717 |
| 2020 | | 3,115 | | 599 | 108,539 | | 1,117 | | 113,370 | | 1,335 | | 227 | | 64,445 | 66,007 |
| 2021 | | 3,017 | | 581 | 74,767 | | 1,141 | | 79,506 | | 921 | | 189 | | 62,721 | 63,831 |
| 2022 | | 2,999 | | 577 | 55,135 | | 4,812 | | 63,523 | | 605 | | 156 | | 32,562 | 33,323 |
| 2023-2027 | | 10,071 | | 1,938 | 142,399 | | _ | | 154,408 | | 2,530 | | 345 | | 175,786 | 178,661 |
| 2028-2032 | | 130 | | 25 | 52,965 | | _ | | 53,120 | | 12 | | _ | | 420 | 432 |
| 2033-2037 | | _ | | _ | 42,248 | | _ | | 42,248 | | _ | | _ | | _ | _ |
| 2038-2042 | | _ | | _ | 42,300 | | _ | | 42,300 | | _ | | _ | | _ | _ |
| 2043-2047 | | _ | | _ | 37,950 | | _ | | 37,950 | | _ | | _ | | _ | _ |
| 2048-2052 | | | | | 21,506 | | | | 21,506 | | | | | | | |
| Total lease | | | | | | | | | | | | | | | | |
| obligations | | 30,856 | | 5,937 | 934,993 | | 9,230 | | 981,016 | | 8,979 | | 1,529 | | 476,248 | 486,756 |
| Less: current | | | | | | | | | | | | | | | | |
| portion | | (7,889) | | (1,518) | (216,073) | | (1,068) | | (226,548) | | (2,062) | | (332) | | (72,391) | (74,785) |
| Long-term lease | | | | | | | | | | | | | | | | |
| obligations | \$ | 22,967 | \$ | 4,419 | \$ 718,920 | \$ | 8,162 | \$ | 754,468 | \$ | 6,917 | \$ | 1,197 | \$ | 403,857 | \$ 411,971 |

Capital assets acquired under capital lease (amounts in thousands):

| Primary G | overnment | | | | |
|---------------|-------------------------------|--|--|--|--|
| | Business - Type Activities | | | | |
| \$ _ | \$ | 11,231 | | | |
| 30,871 | | 10,446 | | | |
| 30,871 | | 21,677 | | | |
| (13,675) | | (11,689) | | | |
| \$ 17,196 | \$ | 9,988 | | | |
| \$ | Governmental Activities \$ | Activities A S S S S S S S S S S S S S S S S S S | | | |

12. OTHER LONG-TERM LIABILITIES

A. WORKERS' COMPENSATION AND GROUP INSURANCE LIABILITIES

Workers' Compensation is managed as part of the course of the Commonwealth's general operations. No separate fund for workers' compensation is provided for in Massachusetts General Laws. Claims for compensation are not separately insured and are funded by the Commonwealth only when incurred. Such losses, including estimates of amounts incurred, but not reported, are included as accrued liabilities in the accompanying financial statements when the loss is incurred. The Commonwealth assumes the full risk of claims filed under a program managed by the Human Resources Division. For personal injury, Massachusetts General Laws limit the risk assumed by the Commonwealth to \$100,000 per occurrence, in most circumstances.

Workers' compensation costs are recognized when claims are presented and paid. The Commonwealth's outstanding liability for such claims at June 30, 2017 is estimated to be \$260 million of which approximately \$40 million is expected to be paid during FY17.

Changes in the Commonwealth's liability relating to workers' compensation claims in FY17 and FY16 were (amounts in thousands):

| | FY17 | FY16 |
|--|---------------|---------------|
| Claims liability, beginning of year | \$ 270,720 | \$ 274,429 |
| Increase in liability estimate | 47,556 | 54,250 |
| Payments and decreases in liability estimate | (58,096) | (57,959) |
| Claims liability, end of year | \$ 260,180 | \$ 270,720 |

The Group Insurance Commission (GIC), a department of the Commonwealth, manages health insurance claims of the Commonwealth's active and retired employees. The Commonwealth is self-insured and various health insurance providers provide health care services to the employees. The accrued liability is estimated based on data provided to the GIC by the insurance companies who participate in the self-insured plans.

Changes in the Commonwealth's liability relating to group insurance claims in FY17 and FY16 were (amounts in thousands):

| | FY17 | FY16 | |
|--|---------------|---------------|--|
| Claims liability, beginning of year | \$ 110,925 | \$ 107,949 | |
| Increase in liability estimate | 1,667,920 | 1,630,534 | |
| Payments and decreases in liability estimate | (1,662,341) | (1,627,558) | |
| Claims liability, end of year | \$ 116,504 | \$ 110,925 | |

B. OTHER CLAIMS & JUDGMENTS

A number of lawsuits are pending or threatened against the Commonwealth, which arise from the ordinary course of operations. These include claims for property damage and personal injury, breaches of contract, condemnation proceedings and other alleged violations of law. The Commonwealth records a liability for those cases in which it is probable that a loss will be incurred and the amount of the potential judgment can be reasonably estimated or a settlement or judgment has been reached but not paid. A short term liability of approximately \$13 million is recorded based on; 1) historical payments made and 2) actual claims settled and to be paid prior to June 30, 2017.

The following amounts were recognized for claims and judgments in FY17 and FY16 (amounts in thousands):

| | FY17 | FY16 |
|----------------------------------|--------------|--------------|
| Unpaid claims, beginning of year | \$ 11,411 | \$ 11,819 |
| Incurred claims | 12,929 | 16,269 |
| Claim payments and reductions | (11,822) | (16,677) |
| Unpaid claims end of year | \$ 12,518 | \$ 11,411 |

C. ENVIRONMENTAL REMEDIATION

Governmental Accounting Standards Board Statement No 49, *Accounting and Financial Reporting for Pollution Remediation Obligations* (GASB 49) became effective in FY09. GASB 49 provides guidance in estimating and reporting the potential costs of pollution remediation. While GASB 49 does not require the Commonwealth to search for pollution, it does require the Commonwealth to reasonably estimate and report a remediation liability when any of the following obligating events has occurred:

- Pollution poses an imminent danger to the public and the Commonwealth is compelled to take action;
- The Commonwealth is found in violation of a pollution-related permit or license;
- The Commonwealth is named, or has evidence that it will be named, as a responsible party by a regulator;
- The Commonwealth is named, or has evidence that it will be named, in a lawsuit to enforce a cleanup;
- The Commonwealth commences or legally obligates itself to conduct remediation activities.

Site investigation, planning and design, cleanup and site monitoring are typical remediation activities underway across the Commonwealth. Several Commonwealth agencies have dedicated programs, rules and regulations that routinely deal with remediation related issues; others become aware of pollution conditions in the fulfillment of their missions. The Commonwealth has the knowledge and expertise to estimate the remediation obligations presented herein based upon prior experience in identifying and funding similar remediation activities.

The standard requires the Commonwealth to calculate pollution remediation liabilities using the expected cash flow technique, which measures the liability as the sum of probability-weighted amounts in a range of possible estimated amounts. Where the Commonwealth cannot reasonably estimate a pollution remediation obligation it does not report a liability. Several state departments perform continual monitoring of polluted sites. Since the monitoring for such sites is perpetual, undiscounted multi-year costs for such sites have not been estimated. Because of a lack of information about the type and extent of the remediation effort that could be required, no range of outlays for the overall remediation effort for such sites could be developed at this time.

The remediation obligation estimates that appear in this report are subject to change over time. Cost may vary due to price fluctuations, changes in technology, changes in potential responsible parties, results of environmental studies, changes to statutes or regulations and other factors that could result in revisions to these estimates. Prospective recoveries from responsible parties may reduce the Commonwealth's obligation. Capital assets may be created when pollution remediation outlays are made under specific circumstances.

During the fiscal year, the Commonwealth had the following activity related to GASB 49 (amounts in thousands):

| | vernmental activities |
|--|------------------------------|
| Environmental remediation liability, beginning of year | \$ 530,849 |
| Expected additional future outlays, changes in liability estimates | 6,835 |
| FY17 outlays for environmental remediation | (4,624) |
| Environmental remediation liability, end of year | \$ 533,060 |

Massachusetts Military Reservation. The Commonwealth, through the Executive Office of Energy and Environmental Affairs, the Department of Environmental Protection and the Attorney General's office, were engaged in discussions with federal Natural Resource Trustees, including the United States Army and Air Force, the Department of the Interior and the National Oceanic and Atmospheric Administration and private contractors regarding natural resource damages at the Massachusetts Military Reservation on Cape Cod. Federal Trustees and private contractors claim that the Commonwealth and others are liable for natural resource damages due to widespread contamination primarily from past military activities at the Reservation and are responsible for response actions and related clean-up activities. The assessment process for natural resource damages is set out in federal regulations and has not been completed. While no recent comprehensive estimate of natural resource damages and response actions is available, it is expected that the damages and response actions may cost at least tens of millions of dollars. In 2013, the state and federal trustees

reopened preliminary discussions per a Trustee Council resolution on a potential settlement framework.

Closed State Facilities. The Commonwealth has 17 facilities that contain a total of 235 buildings, mainly in closed state hospitals that may have varying degrees of asbestos, polychlorinated biphenyl (PCB's) and other compounds that are currently in a dormant state. The Commonwealth typically sells these facilities at minimal cost to private developers who assume full responsibility for all cleanup activity. Cost estimates are only performed during the sale process. At this time, the Commonwealth has no estimate of any potential asset that would be developed from these activities that would ready these sites for sale.

D. COST OF LIVING ADJUSTMENTS

The Commonwealth is financially responsible for the cost of living adjustment (COLA) granted to participants in various retirement systems of cities, towns and counties in fiscal years 1981 to 1997. Chapter 17 of the Acts of 1997 effective for fiscal year 1998 transferred the responsibility for funding COLAs for separate (non-teacher) retirement systems of cities and towns to their respective systems. Any future COLA granted by the Legislature to employees of these plans will be the responsibility of the individual system, assuming approval by the local board. The individual employer governments are also responsible for the basic pension benefits.

Payments of approximately \$15 million for COLAs granted to participants in retirement systems of cities, towns and counties were made during fiscal year 2017.

As of June 30, 2017, the Commonwealth's liability for COLA was approximately \$146 million.

13. CONTINGENCIES/COMMITMENTS

The Commonwealth receives significant financial assistance from the federal government. Entitlement to these resources is generally contingent upon compliance with terms and conditions of the grant or reimbursement agreements and with applicable federal regulations, including the expenditure of the resources for eligible purposes. Substantially all federal financial assistance is subject to financial and compliance audits.

Chapter 200A of the Massachusetts General Laws, the Commonwealth's Abandoned Property Law, requires deposit of certain unclaimed assets into a managed Fiduciary Fund. These unclaimed assets are to be remitted to the General Fund each June 30, where it is included as miscellaneous revenue. Amounts remitted during FY17 totaled approximately \$107 million. A portion of accumulated claims since the law's enactment represent a contingency, because claims for refunds can be made by the owners of the property.

Drug Testing Laboratory disputes. On August 28, 2012, a chemist formerly employed at the Department of Public Health's drug testing laboratory in Boston admitted to several types of misconduct involving her handling of laboratory samples, which were used in criminal cases. The Governor was informed and ordered the immediate closure of the laboratory. The Governor established a central office to identify individuals who may have been affected by the chemist's alleged malfeasance, which the office has estimated as possibly tens of thousands of criminal drug cases. The Governor also announced that the Inspector General is conducting an independent assessment of the laboratory's operations. In addition, the Attorney General's Office is conducting a criminal investigation. On December 17, 2012, the former chemist was indicted by a Statewide Grand Jury on 27 charges in connection with altering drug evidence during the testing process and obstructing justice. She was arraigned on December 20, 2012 in Suffolk Superior Court and plead guilty in 2013. There likely will be significant, but as yet undetermined, state costs required to investigate and respond to the chemist's alleged malfeasance. Supplemental appropriations totaling \$30 million were approved during fiscal 2013 to create a fund to reimburse agencies and cities for costs associated with investigating and responding to misconduct at the state drug testing laboratory. In addition, there may be substantial costs to defend civil complaints alleging state liability in both state and federal court and for potential judgments. As the number of specific cases affected by the chemist's misconduct has not been definitively determined, there is not sufficient information to fully estimate these additional state costs.

A. PRIMARY GOVERNMENT

The Commonwealth continues to guarantee certain Massachusetts Bay Transportation Authority (MBTA) debt outstanding at June 30, 2017, totaling approximately \$197 million.

The MBTA's Forward Funding legislation of 1999 provides for the MBTA to issue general obligation, revenue or other debt secured by a pledge or conveyance of all or a portion of revenues, receipts or other assets or funds of the MBTA. Accordingly, all MBTA debt issued after this legislation is not backed by the full faith and credit of the Commonwealth.

Additional commitments of the Commonwealth remain for the University of Massachusetts Building Authority. As of June 30, 2017, the University of Massachusetts Building Authority has approximately \$3.036 billion, of outstanding debt, of which approximately \$115 million is guaranteed by the Commonwealth.

B. TOBACCO SETTLEMENT

A Master Settlement Agreement (MSA) was executed in November of 1998 between five tobacco companies and 46 states, including the Commonwealth. Several additional tobacco companies have joined the MSA and are bound by its terms.

The MSA called for, among other things, annual payments to the states in perpetuity. These payments have been estimated to total more than \$200 billion over the first 25 years, subject to various offsets, reductions and adjustments.

In FY17, the Commonwealth received approximately \$254 million, or 68.8% of the estimated amounts shown in the MSA. Amounts received in FY17 continued to be less than had previously been projected as payments under the MSA, primarily because the payment amounts are related to national tobacco sales volumes, which have continued to decline since the settlement. The Commonwealth's allocable share of the base amounts payable under the MSA is approximately 4.04%. The Commonwealth's allocable share of the base amounts under the agreement through 2025 is \$8.96 billion, which is subject to adjustments, reductions and offsets. However, in pending litigation, tobacco manufacturers are claiming that because of certain developments, they are entitled to reduce future payments under the MSA and, from FY06 to the present, certain manufacturers have withheld portions of the payments due to the states. The Commonwealth continues to pursue legal action to compel the payment of these additional funds and to obtain a legal determination that the Commonwealth is immune from any downward adjustment to its settlement payments.

In FY04, a Suffolk Superior Court jury rejected the claims of the Commonwealth's private tobacco attorneys that they should be paid a fee amounting to 25% of the Commonwealth's tobacco settlement money. The jury awarded the plaintiffs 10.5% of the amount the Commonwealth receives under the MSA through 2025, minus an offset for amounts received by the attorneys from the tobacco companies pursuant to an arbitration award. To date, however, the attorneys have received more than 10.5% of what the Commonwealth has received under the MSA. As of June 30, 2017, the Commonwealth owes nothing under the jury award. Whether the Commonwealth will in the future be required to pay any sum on private counsel's claim will depend on the actual payments received by the Commonwealth under the MSA through 2025, as well as on the amounts the attorneys receive through the arbitration payments.

C. OTHER CONSTRUCTION COMMITMENTS

At June 30, 2017, the Commonwealth had commitments of approximately \$626 million related to ongoing construction projects.

D. CONTRACTUAL ASSISTANCE TO AUTHORITIES

The Commonwealth is also authorized to pledge its credit in aid of and provide contractual support for certain independent authorities and political subdivisions within the Commonwealth. These Commonwealth liabilities are classified as: (a) general obligation contract assistance; (b) budgetary contractual assistance liabilities; or (c) contingent liabilities. In addition, the Commonwealth is authorized to pledge its credit in support of scheduled, periodic payments to be made by the Commonwealth under interest rate swaps and other hedging agreements related to bonds or notes of the Commonwealth.

General obligation contract assistance obligations arise from statutory requirements for payments by the Commonwealth to the Massachusetts Clean Water Trust, the Massachusetts Department of Transportation and the Massachusetts Development Finance Agency that are used by such entities to pay a portion of the debt service on certain of their outstanding bonds. Such assistance constitutes a pledge of the Commonwealth's credit for which a two-thirds vote of the Legislature is required.

Budgetary contract assistance liabilities do not constitute a pledge of the Commonwealth's credit. Contingent liabilities relate to debt obligations of independent authorities and agencies of the Commonwealth, or payment obligations of such entities on hedging transactions related to such debt, that are expected to be paid without Commonwealth assistance, but for which the Commonwealth has some kind of liability if expected payment sources do not materialize. These contingent liabilities consist of guarantees and similar obligations with respect to which the Commonwealth's credit has been or may be pledged. Under legislation approved by the Governor during FY09, the Commonwealth may pledge its credit to guarantee payment obligations of the Massachusetts Turnpike Authority (succeeded by MassDOT in FY10) with respect to certain hedging transactions or provide financial support subject to annual appropriation and without a pledge of the Commonwealth's credit. The same legislation authorizes the Commonwealth to provide credit support to the Turnpike Authority (succeeded by MassDOT) in connection with the issuance of certain refunding bonds, subject to annual appropriation and without a pledge of the Commonwealth's credit. In addition, the Commonwealth has certain statutorily contemplated payment obligations with respect to which the Commonwealth's credit has not been pledged, as in the case of the Commonwealth's obligation to replenish the capital reserve funds securing certain debt obligations of the Massachusetts Housing Finance Agency and the Commonwealth's obligation to fund debt service, solely from monies otherwise appropriated for the affected institution, owed by certain community colleges and state universities on bonds issued by the Massachusetts Health and Educational Facilities Authority and the Massachusetts State College Building Authority.

E. MSBA

The MSBA has estimated the amount of outstanding Waiting commitments and New Program commitments at June 30, 2017 to be \$2 million and \$949 million, respectively.

F. SOCIAL IMPACT BONDS

In January 2014, the Commonwealth entered into a "pay for success contract" ("Social Impact Bonds") with a nonprofit intermediary organization and a nonprofit social service agency to reduce the recidivism rate of young men in the juvenile justice system or on probation. The Commonwealth is obligated to make success payments totaling \$28 million through calendar year 2019 and the Commonwealth's obligation to make such payments is a general obligation for which the Commonwealth's full faith and credit are pledged. Payments are only made based upon successful achievement of specified outcomes based on defined performance targets contained in the contract. The Commonwealth entered into a second such contract in December 2014 to address chronic individual homelessness. The contract obligates the Commonwealth to make up to \$6 million in success payments, in the aggregate, through fiscal 2021. In June, 2016 the Commonwealth entered into a third contract to assist individuals in Adult Basic Education (ABE) or English for Speakers of Other Languages (ESOL) programs to transition to employment, higher wage jobs, and higher education. The contract obligates the Commonwealth to make up to \$15 million in success payments, in the aggregate, through fiscal 2023. The total amount of payments backed by the full faith and credit of the Commonwealth under such contracts may not exceed, in the aggregate, \$50 million. As the amount required to be paid as of June 30, 2017

cannot be determined until performance targets have been achieved as determined by independent evaluators, no liability has been accrued in these financial statements for these contracts.

G. PENSIONS

The Massachusetts State Employees' Retirement System (SERS) and the Massachusetts Teachers' Retirement System (MTRS) (collectively referred to as the Retirement Systems) in conjunction with the Commonwealth are evaluating whether certain Massachusetts General Laws (MGL) or practices may be in conflict with the exclusive benefit rule of Section 401(a)(2) of the Internal Revenue Code or other IRS requirements relating to the operation of tax-exempt pension plans.

The activities being reviewed are: (1) the statutorily directed funding of the budget for the Public Employee Retirement Administration Commission (PERAC) solely from the investment income accounts of SERS and MTRS; (2) the statutorily directed contributions made from the assets of SERS in the Pension Reserves Investment Trust Fund (PRIT or PRIT Fund) to the Optional Retirement Plan (ORP), a statutorily authorized retirement plan available to certain employees of the Commonwealth's Higher Education System; (3) the statutorily mandated reimbursements issued from SERS to local retirement systems and municipalities for local cost of living adjustments (COLA's) issued to participants of those systems who retired between 1981 and 1994; (4) deposits of reimbursement revenues received from local retirement systems, i.e. so-called G.L. c. 32, §3(8)(c) payments, to the Commonwealth's General Fund rather than to MTRS and SERS assets in the PRIT fund; and, (5) deposits of federal grant fringe payments to the Commonwealth's General Fund rather than to MTRS and SERS assets in the PRIT fund.

The Retirement Systems, the Public Employee Retirement Administration Commission (PERAC) and the Executive Office for Administration and Finance have each engaged outside tax counsel, who have provided opinions with respect to the aforementioned activities as they relate to the degree, if any: (1) pension assets were expended for non-Retirement Systems' participants or their beneficiaries; and (2) revenues or reimbursements were redirected from the Retirement Systems to the General Fund of the Commonwealth.

On March 28, 2017, the Governor approved legislation to address prospectively certain aspects of the issues described above. Additional corrective legislation was approved as part of the Commonwealth's General Appropriations Act for fiscal 2018, approved on July 17, 2017. The Executive Office for Administration and Finance expects to submit for Internal Revenue Service consideration a request for a closing agreement in which the Commonwealth describes the activities listed above, explains the corrective actions already taken by legislation, and requests an affirmation that these activities do not adversely affect the tax qualification of the SERS and the MTRS in light of the corrections already made.

14. COMPONENT UNITS AND DETAILS OF DEPARTMENTS AND ENTITIES THAT ARE SEPARATELY AUDITED

The Commonwealth has also considered all potential component units for which it is financially accountable as well as other organizations for which the nature and significance of their relationship with the Commonwealth is such that exclusion would cause the Commonwealth's financial statements to be misleading or incomplete. As required by GAAP, these financial statements present the Commonwealth of Massachusetts (the primary government) and its component units. The Commonwealth has included 40 entities as component units in the reporting entity because of the significance of their operational and/or financial relationships with the Commonwealth. Details of those entities' operations can be found in those entities' basic financial statements and notes to those entities' basic financial statements.

The following entities are presented in the basic financial statements (all having a June 30, 2017 fiscal year end) (entities marked with an * are not legally separate from the Commonwealth but have separately audited financial statements). Entities that are marked with a § also were not audited in accordance with *Governmental Auditing Standards* as promulgated by the Comptroller General of the United States.

Entities Audited by KPMG LLP:

The Pension Reserves Investment Trust Fund (PRIT)

*The Massachusetts State Lottery Commission

The Massachusetts Department of Transportation (MassDOT)

The Massachusetts Clean Water Trust

Commonwealth Health Insurance Connector Authority

*§The Massachusetts Municipal Depository Trust (MMDT)

Entities Audited by Other Auditors:

*The University of Massachusetts System

*Community Colleges:

Berkshire Community College

Bristol Community College

Bunker Hill Community College

Cape Cod Community College

Greenfield Community College

Holyoke Community College

Massasoit Community College

Massachusetts Bay Community College

Middlesex Community College

Mount Wachusett Community College

Northern Essex Community College

North Shore Community College

Quinsigamond Community College

Roxbury Community College

Springfield Technical Community College

*State Universities:

Bridgewater State University

Fitchburg State University

Framingham State University

Massachusetts College of Art

Massachusetts Maritime Academy

Massachusetts College of Liberal Arts

Salem State University

Westfield State University

Worcester State University

The Massachusetts State College Building Authority

The Massachusetts School Building Authority (MSBA)

Massachusetts Convention Center Authority (MCCA)

Massachusetts Development Finance Agency (MassDevelopment)

§Massachusetts Technology Park Corporation (MTPC)

Massachusetts Clean Energy Center (CEC)

Massachusetts Housing Partnership (MHP)

Economic Development Entities (5 separate entities) including:

Massachusetts Growth Capital Corporation (MGCC)

Commonwealth Corporation

Community Economic Development Assistance Corporation (CEDAC)

§Massachusetts Life Sciences Center

Commonwealth Zoological Corporation (Zoo)

Higher Education Foundations (25 separate entities) including:

Berkshire Community College Foundation

Bristol Community College Foundation

Bunker Hill Community College Foundation

Cape Cod Community College Educational Foundation, Inc.

Greenfield Community College Foundation, Inc.

Holyoke Community College Foundation

Massachusetts Bay Community College Foundation, Inc.

Massasoit Community College Foundation

Middlesex Community College Foundation, Inc.

North Shore Community College Foundation

Springfield Technical Community College Foundation

The Mount Wachusett Community College Foundation, Inc.

The Northern Essex Community College Foundation, Inc.

The Quinsigamond Community College Foundation, Inc.

The Roxbury Community College Foundation, Inc.

Bridgewater State University Foundation:

The Bridgewater State University Foundation

The Bridgewater Alumni Association of Bridgewater State University

Fitchburg State University Foundation, Inc.

Framingham State University Foundation, Inc.

Massachusetts College of Art Foundation, Inc.

Massachusetts College of Liberal Arts Foundation, Inc.

The Massachusetts Maritime Academy Foundation, Inc.

Salem State University Foundation:

The Salem State University Foundation, Inc.

Salem State University Assistance Corporation

Westfield State University Foundation, Inc.

Worcester State Foundation

The University of Massachusetts System Foundation

15. SUBSEQUENT EVENTS

SUBSEQUENT BOND ISSUANCES

On August 1, 2017, the Commonwealth issued approximately \$9 million in GO Bonds, Consolidated Loan of 2017 Series A (College Opportunity Bonds). These bonds carry an interest rate of 0.50%. The first principal payment is due on August 1, 2022 with final maturity on August 1, 2037.

On August 10, 2017, the Commonwealth issued \$1.5 billion in GO Revenue Anticipation Notes (RANS) in three \$500 million notes; 2017 Series A, 2017 Series B and 2017 Series C. These notes carry an interest rate of 2.0% and mature on April 23, 2018, May 21, 2018 and June 25, 2018, respectively.

On October 26, 2017, the Commonwealth issued \$600 million in GO Bonds in two \$300 million series; 2017 Series E and 2017 Series F. The Series E notes carry interests from 3.0% to 5.0% with the first principal payment due on November 1, 2018 and final maturity on November 1, 2036. The Series F notes carry a 5.0% interest rate with the first principal payment due on November 1, 2037 and final maturity due on November 1, 2046.

On October 26, 2017, the Commonwealth issued approximately \$215 million in GO Refunding Bonds 2017, Series E. These bonds were issued to advance refund approximately \$230 million of various GO Bonds and carries an interest rate of 5.0% with final maturity on November 1, 2027. The refunding resulted in reduced debt service of approximately \$20 million and a present value savings of approximately \$18 million over the life of the bonds.

On November 16, 2017, the Commonwealth issued approximately \$350 million in Commonwealth Transportation Fund Revenue Bonds (Rail Enhancement Program and Accelerated Bridge Program) 2017A. These bonds carry an interest rate of 5.0%. The first principal payment is due June 1, 2019 with final maturity on June 1, 2047.

On November 16, 2017, the Commonwealth issue approximately \$243 million in Commonwealth Transportation Fund Refunding Bonds 2017, Series A. These bonds were issued to advance refund approximately \$257 million of the 2012A and 2013A Accelerated Bridge Program bonds and carry interest rates from 3.0% to 5.0% with final maturity due on June 1, 2043. The refunding resulted in reduced debt service of approximately \$46 million and a present value savings of approximately \$33 million over the life of the bonds.

On November 16, 2017, the Commonwealth issued \$75 million in Federal Highway Grant Anticipation Notes (Accelerated Bridge Program) 2017, Series A. These bonds carry an interest rate of 5.0%. The first principal payment is due June 15, 2021 with final maturity on June 15, 2027.

On November 16, 2017, the Commonwealth issue approximately \$68 million in Federal Highway Grant Anticipation Notes (Accelerated Bridge Program) Refunding Bonds 2017, Series A. These bonds were issued to advance refund approximately \$71 million of the 2013A Federal Highway Grant Anticipation Notes (Accelerated Bridge Program) bonds and carries an interest rate of 5.0% with final maturity due on June 1, 2027. The refunding resulted in reduced debt service of approximately \$5 million and a present value savings of approximately \$4 million over the life of the bonds.

On November 27, 2017, the MSBA used funds on hand to defease \$53 million of the 2015 Series C Dedicated Sales Tax Bonds outstanding and \$23.4 million of 2016 Series A Dedicated Sales Tax Bonds outstanding. \$84.2 million in cash was used to purchase open market securities, which were deposited in an irrevocable trust with an escrow agent to provide for all future debt service payments on the defeased portion of the 2015 Series C and 2016 Series A bonds. The MSBA's defeasance of these bonds reduces its debt service payments over the next 8 years by approximately \$90.4 million.

On January 9, 2018, the Commonwealth competitively sold \$400 million and \$200 million in GO bonds in two different series. The \$200 million in bonds will have a final maturity of January 1, 2032 and the \$400 million in bonds will have a final maturity of January 1, 2048. Both of these series of bonds are scheduled to close on January 17, 2018, at which time the interest rates will be finalized.

All debt issues were sold as tax exempt.

Required Supplementary Information Other Than Management Discussion and Analysis

(Unaudited)

Schedule of Revenue, Expenditures and Changes in Fund Balances – Statutory Basis – Budget and Actual – General Fund

Explanation of Differences Between Revenues, Expenditures and Other Financing Sources/(Uses) for the General Fund on a Budgetary Basis and GAAP Basis

Notes to Required Supplementary Information – Budgetary Reporting

Required OPEB and Pension Schedules

Schedule of Revenues, Expenditures and Changes In Fund Balances - Statutory Basis - Budget and Actual

General Fund

Fiscal Year Ended June 30, 2017

(Amounts in thousands)

| | Original | Budget | Fi | nal Budget | Actua | al | v | Variance |
|--|----------|-----------|----|-------------|--------|---------|----|----------|
| REVENUES AND OTHER FINANCING SOURCES | | | | | | | | |
| Revenues: | | | | | | | | |
| Taxes | | ,079,900 | \$ | 23,079,900 | | 510,484 | \$ | (569,416 |
| Assessments | | 426,261 | | 426,261 | | 131,576 | | 5,315 |
| Federal grants and reimbursements | | ,753,035 | | 10,753,035 | | 350,378 | | 97,34 |
| Tobacco settlement revenue | | 257,500 | | 257,500 | | 254,490 | | (3,010 |
| Departmental | | ,435,705 | | 2,435,620 | | 094,346 | | 658,72 |
| Miscellaneous | | 283,344 | | 283,344 | | 320,092 | | 36,74 |
| Total revenues | 37 | ,235,745 | | 37,235,660 | 37,4 | 161,366 | | 225,70 |
| Other financing sources: | | 420.002 | | 420.002 | | 116 100 | | (14.70 |
| Fringe benefit cost recovery | | 430,883 | | 430,883 | | 116,180 | | (14,70 |
| Lottery reimbursements | | 94,490 | | 94,490 | | 100,392 | | 5,90 |
| Lottery distributions | | ,012,351 | | 1,012,351 | | 025,411 | | 13,06 |
| Operating transfers in | | 385,462 | | 385,462 | 4 | 131,583 | | 46,12 |
| Commonwealth care transfer | | _ | | _ | | 76,552 | | 76,55 |
| Other fund deficit support | | | | | | 144,268 | | 144,26 |
| Total other financing sources | 1 | ,923,186 | | 1,923,186 | 2, | 194,386 | | 271,20 |
| Total revenues and other financing sources | 39 | ,158,931 | | 39,158,846 | 39,6 | 555,752 | | 496,90 |
| EXPENDITURES AND OTHER FINANCING USES | | | | | | | | |
| Expenditures: | | | | | | | | |
| Legislature | ···· | 99,124 | | 99,124 | | 66,754 | | 32,370 |
| Judiciary | | 914,429 | | 914,430 | Ģ | 908,488 | | 5,94 |
| Inspector General | | 4,217 | | 4,217 | | 4,207 | | 1 |
| Governor and Lieutenant Governor | | 7,811 | | 7,811 | | 6,567 | | 1,24 |
| Secretary of the Commonwealth | | 47,442 | | 47,791 | | 45,849 | | 1,94 |
| Treasurer and Receiver-General | | 212,745 | | 212,746 | 2 | 201,093 | | 11,65 |
| Auditor of the Commonwealth | | 18,481 | | 18,481 | | 18,227 | | 25 |
| Attorney General | | 47,716 | | 47,696 | | 46,282 | | 1,41 |
| Ethics Commission | | 1,969 | | 1,969 | | 1,883 | | 8 |
| District Attorney | | 120,542 | | 120,542 | | 119,790 | | 75 |
| Office of Campaign & Political Finance | | 1,586 | | 1,586 | | 1,521 | | 6 |
| Sheriff's Departments | | 590,541 | | 610,988 | , | 510,052 | | 93 |
| Disabled Persons Protection Commission. | | 3,043 | | 3,043 | ` | 3,043 | | ,,, |
| Board of Library Commissioners | | 25,167 | | 25,167 | | 25,157 | | 1 |
| • | | | | | | | | 51 |
| Comptroller | | 14,579 | | 14,579 | 2.1 | 14,064 | | |
| Administration and finance | | ,503,061 | | 2,503,061 | | 375,466 | | 127,59 |
| Energy and environmental affairs | | 216,501 | | 216,496 | | 207,774 | | 8,72 |
| Health and human services | | ,812,829 | | 5,812,829 | 5,0 | 568,788 | | 144,04 |
| Office of the Child Advocate | | 994 | | 994 | | 633 | | 36 |
| Executive office of education | 2 | ,273,460 | | 2,273,460 | 2,2 | 234,045 | | 39,41 |
| Center for Health Information and Analysis | | 30,080 | | 30,085 | | 23,031 | | 7,05 |
| Public safety and homeland security | 1 | ,152,392 | | 1,160,526 | 1,1 | 118,586 | | 41,94 |
| Housing and economic development | | 524,723 | | 524,723 | 4 | 195,960 | | 28,76 |
| Labor and workforce development | | 74,005 | | 74,005 | | 44,267 | | 29,73 |
| Direct local aid | 5 | ,664,525 | | 5,664,525 | 5,0 | 539,056 | | 25,46 |
| Medicaid | 15 | ,254,269 | | 15,254,269 | 15,2 | 251,717 | | 2,55 |
| Post employment benefits | 2 | ,638,100 | | 2,638,100 | 2,0 | 543,761 | | (5,66 |
| Debt service: | | | | | | | | |
| Principal retirement | | 729,607 | | 729,607 | | 704,981 | | 24,62 |
| Interest and fiscal charges. | | 501,799 | | 501,799 | | 184,588 | | 17,21 |
| · · | | | | | | - | | |
| Total expenditures | 39 | ,485,737 | | 39,514,649 | | 965,630 | | 549,01 |
| Other financing uses: Operating transfers out | | 55,353 | | 55,353 | | 99,454 | | (44,10 |
| Medical assistance transfer. | | 736,154 | | 736,154 | , | 103,367 | | 332,78 |
| Delivery system transformation initiatives trust transfer | | 196,252 | | 196,252 | | 189,149 | | 7,10 |
| Total other financing uses | - | 987,759 | | 987,759 | | 591,970 | | 295,78 |
| Total expenditures and other financing uses | | ,473,496 | | 40,502,408 | | 557,600 | | 844,80 |
| Excess (deficiency) of revenues and other financing sources over expenditures and other financing uses | \$ (1 | ,314,565) | \$ | (1,343,562) | | (1,848) | \$ | 1,341,71 |
| Fund balances (deficits) at beginning of year | | | | <u> </u> | 1.2 | 100,842 | | |
| | | | | | | - | | |
| Fund balances (deficits) at end of year | | | | | \$ 1,3 | 398,994 | | |

See Independent Auditors' Report and notes to required supplementary information.

Explanation of Differences between Revenues, Expenditures and Other Financing Sources/(Uses) for the General Fund on a Budgetary Basis and GAAP Basis (in thousands):

| REVENUES | | |
|---|----|-------------|
| Actual amounts (budgetary basis) "revenues" from the budgetary comparison schedules | \$ | 37,461,366 |
| Adjustments for amounts budgeted for on a cash basis, rather than on the modified accrual basis: | | |
| Tax receivable, net | | (87,167) |
| Tax refunds and abatements payable, net | | (136,035) |
| Federal reimbursements and other receivables | | 156,599 |
| Reclassifications: | | |
| Higher education revenue is reclassified for GAAP reporting | | (104,907) |
| Inflows from component units and other miscellaneous financing sources | | 106,318 |
| Total revenues as reported on the Statement of Revenues, Expenditures and Changes in Fund Balances - Governmental Funds | \$ | 37,396,174 |
| | | |
| OTHER FINANCING SOURCES | | |
| Actual amounts (budgetary basis) "other financing sources" from the budgetary comparison schedule | \$ | 2,194,386 |
| Adjustments: | | |
| Proceeds of capital lease on GAAP basis | | 804 |
| Consolidation of transfers between funds. | | (5,840) |
| Inflows from component units and other miscellaneous financing sources | | (106,297) |
| Total other financing sources as reported on the Statement of Revenues, Expenditures and Changes in Fund Balances - Governmental Funds | \$ | 2,083,053 |
| EXPENDITURES Actual amounts (budgetary basis) "expenditures" from the budgetary comparison schedule | \$ | 38,965,630 |
| Medicaid payments | | 137,400 |
| Compensated absences and other accrued liabilities | | 3,923 |
| Reclassifications: | | |
| Capital lease additions are additions to expenditures for GAAP purposes on a fund perspective | | 804 |
| Budgetary debt service are reclassified to transfers out to a debt service fund for GAAP purposes as the Commonwealth does not have a statutory debt service fund | | (1,189,569) |
| Higher education expenditures are reclassified for GAAP reporting | | (1,437,709) |
| Expenditures to component units reported on a GAAP basis | | 26.626 |
| | _ | |
| Total expenditures as reported on the Statement of Revenues, Expenditures and Changes in Fund Balances - Governmental Funds | \$ | 36,507,105 |
| | | |
| OTHER FINANCING USES | | |
| Actual amounts (budgetary basis) "other financing uses" from the budgetary comparison schedule | \$ | 691,970 |
| Adjustments and Reclassifications: | | |
| Consolidation of transfers between funds | | (5,840) |
| Budgetary higher education amounts are reclassified to transfers under the modified accrual basis | | 1,332,802 |
| Budgetary debt service are reclassified to transfers out to a debt service fund for GAAP purposes as the Commonwealth does not have a statutory debt service fund | _ | 1,189,569 |
| Total other financing uses as reported on the Statement of Revenues, Expenditures and Changes in Fund Balances - Governmental Funds | \$ | 3,208,501 |

See Independent Auditors' Report and notes to required supplementary information.

Note to Required Supplementary Information - Budgetary Reporting

The Commonwealth passes a combined budget for all budgeted operations. State finance law requires that a balanced budget be approved by the Governor and the Legislature. The Governor presents an annual budget to the Legislature, which includes estimates of revenues and other financing sources and recommended expenditures and other financing uses. The Legislature, which has full authority to amend the budget, adopts an expenditure budget by appropriating monies at the individual appropriation account level in an annual appropriations act. Generally, expenditures may not exceed the level of spending authorized for an appropriation account

Before signing the appropriations act, the Governor may veto or reduce any specific item, subject to legislative override. Further changes to the budget established in the annual appropriations act may be made via supplemental appropriation acts or other legislative acts. These must also be signed by the Governor and are subject to the line item veto.

In addition, Massachusetts General Laws authorize the Secretary of Administration and Finance, with the approval of the Governor, upon determination that available revenues will be insufficient to meet authorized expenditures, to withhold allotments of appropriated funds which effectively reduce the account's expenditure budget. The majority of the Commonwealth's appropriations are non-continuing accounts which lapse at the end of each fiscal year. Others are continuing accounts for which the Legislature has authorized that an unspent balance from the prior year be carried forward and made available for spending in the current fiscal year. In addition, the Legislature may direct that certain revenues be retained and made available for spending within an appropriation. Fringe benefits, pension costs, and certain other costs which are mandated by state finance law are not itemized in the appropriation process and are not separately budgeted.

Because revenue budgets are not updated subsequent to the original appropriation act, the comparison of the initial revenue budget to the subsequent, and often modified, expenditure budget can be misleading. Also, these financial statements portray fund accounting with gross inflows and outflows, thus creating a difference to separately published budget documents, which eliminate some interfund activity. In conducting the budget process, the Commonwealth excludes those interfund transactions that by their nature have no impact on the combined fund balance of the budgeted funds.

The FY04 General Appropriation Act (Chapter 26, Section 167 of the Acts of 2003), amended section 9C, directing the Governor to notify the Legislature in writing as to the reasons for and the effect of any reductions in spending. Alternatively, the Governor may propose specific additional revenues to fund the deficiency. The Governor may also propose to transfer funds from the Stabilization Fund to cure the deficiency. This proposal must be delivered to the Legislature 15 days before any reductions take effect.

The following table summarizes budgetary activity for FY17 (amounts in thousands):

| | Revenues |] | Expenditures |
|--|------------------|----|--------------|
| General Appropriation Act, Chapter 133 of the Acts of 2016: | | | |
| Direct appropriations. | \$ 39,065,600 | \$ | 38,655,408 |
| Estimated revenues, transfers, retained revenue appropriations, and appropriations carried forward from FY2016 | | | 1,261,657 |
| Total original budget | 39,065,600 | | 39,917,065 |
| Supplemental Acts of 2016: | | | |
| Chapter 283 | _ | | 279,191 |
| Supplemental Acts of 2017: | | | |
| Chapter 5 | _ | | 138,581 |
| Chapter 20 | _ | | 41,690 |
| Chapter 41 | _ | | 26,158 |
| Chapter 110 | | | 85,527 |
| Total budgeted revenues and expenditures per Legislative action | | | 571,147 |
| Chapter 29, Section 9C Reductions | _ | | (115,592) |
| Plus: Pension contributions and revenue authorized outside of General Appropriation Act, and other transfers of revenue and spending | 2,238,244 | | 2,238,100 |
| Budgeted revenues and expenditures as reported | \$ 41,303,844 | \$ | 42,610,719 |

As the budget is not passed taking into account the structure of funds, but of appropriations, reports contained within the Commonwealth's MMARS accounting system demonstrate budgetary compliance by appropriation. Those reports are available upon request at the Office of the State Comptroller, Financial Reporting and Analysis Bureau, at (617) 973-2660.

Schedule of Funding Progress - Other Post Employment Benefits

(Amounts in thousands except for percentages)

State Retiree Benefits Trust Funding Progress for the last six fiscal years

| | Actuarial Value of Plan Assets | Actuarial Accrued Liability | Unfunded Actuarial Liability (UAAL) | Funded Ratio | Annual Covered Payroll | UAAL as a % of Covered Payroll |
|---|--------------------------------------|-----------------------------------|---|-----------------|------------------------------|--------------------------------------|
| Actuarial Valuation as of January 1, 2017 | \$ 817,400 | \$ 20,263,500 | \$ 19,446,100 | 4.0% | \$ 5,927,012 | 328.1% |
| Actuarial Valuation as of January 1, 2016 | 760,400 | 17,082,900 | 16,322,500 | 4.5% | 5,792,288 | 281.8% |
| Actuarial Valuation as of January 1, 2015 | 610,000 | 16,502,800 | 15,892,800 | 3.7% | 5,591,911 | 284.2% |
| Actuarial Valuation as of January 1, 2014 | 511,200 | 15,670,200 | 15,159,000 | 3.3% | 5,344,510 | 283.6% |
| Actuarial Valuation as of January 1, 2013 | 406,700 | 15,784,100 | 15,377,400 | 2.6% | 5,183,195 | 296.7% |
| Actuarial Valuation as of January 1, 2012 | 360,500 | 16,659,400 | 16,298,900 | 2.2% | 4,922,388 | 331.1% |

Schedule of Employer Contributions - Other Post Employment Benefits

(Amounts in thousands except for percentages)

| | Fiscal Year Ended June 30, | Actuarially Determined/ Required Contribution | Amount Contributed | Percentage Contributed | Covered Employee Payroll | Contribution as a Percentage of Payroll |
|-------------------------------|-------------------------------|---|-----------------------|---------------------------|--------------------------------|---|
| State Retirees' Benefit Trust | 2017 | \$ 1,623,000 | \$ 546,000 | 33.6% | \$ 5,927,012 | 9.21% |
| | 2016 | 1,418,000 | 614,000 | 43.3% | 5,792,288 | 10.60% |
| | 2015 | 1,361,000 | 637,000 | 46.8% | 5,591,911 | 11.39% |
| | 2014 | 1,251,000 | 608,000 | 48.6% | 5,344,510 | 11.38% |
| | 2013 | 1,251,000 | 585,000 | 46.8% | 5,183,195 | 11.29% |
| | 2012 | 1,286,000 | 558,000 | 43.4% | 4,922,388 | 11.34% |
| | 2011 | 1,276,000 | 557,000 | 43.7% | 4,808,250 | 11.58% |
| | 2010 | 1,163,000 | 372,000 | 32.0% | 4,711,563 | 7.90% |
| | 2009 | 1,222,000 | 352,000 | 28.8% | 4,712,655 | 7.47% |
| | 2008 | 839,000 | 683,000 | 81.4% | 4,574,233 | 14.93% |

For a complete analysis of the Commonwealth's actuarial valuation report, please contact the Office of the State Comptroller, 1 Ashburton Place, 9th Floor, Boston, MA 02108.

See Independent Auditors' Report

Schedule of Changes in the State Employees' Retirement System (SERS) Net Pension Liability and Related Ratios

(Amounts in thousands, except for percentages)

| | 2017 | 2016 | 2015 | 2014 |
|--|------------------|------------------|------------------|------------------|
| Total pension liability, July 1 | \$ 37,760,000 | \$ 35,425,414 | \$ 31,355,000 | \$ 29,988,000 |
| Service cost | 855,440 | 813,975 | 700,012 | 631,634 |
| Interest | 2,813,374 | 2,638,929 | 2,411,551 | 2,405,204 |
| Change in benefit terms | 10,000 | 400,000 | 230,302 | _ |
| Differences between expected and actual experience | (428,232) | 589,009 | 275,000 | _ |
| Changes of assumptions | 304,000 | _ | 2,330,000 | 102,000 |
| Benefit payments, including refunds of member contributions | (2,207,582) | (2,107,327) | (1,876,451) | (1,771,838) |
| Net change in total pension liability | 1,347,000 | 2,334,586 | 4,070,414 | 1,367,000 |
| Total pension liability, June 30 (a) | \$ 39,107,000 | \$ 37,760,000 | \$ 35,425,414 | \$ 31,355,000 |
| Plan fiduciary net position, July 1 | \$ 23,971,156 | \$ 24,042,585 | \$ 23,930,895 | \$ 21,084,958 |
| Employers - Commonwealth and MassDOT | 716,266 | 660,818 | 601,931 | 550,483 |
| Non-employer contributions - Commonwealth | 28,455 | 21,830 | 18,040 | 21,293 |
| Employer and non-employer contributions - other | 7,999 | 16,642 | 15,808 | 6,048 |
| ERIP funding contribution - Commonwealth | 29,093 | 29,093 | _ | _ |
| Plan members | 604,772 | 591,948 | 549,493 | 501,106 |
| Other additions | 232,548 | 397,077 | 92,503 | 68,967 |
| Total contributions | 1,619,133 | 1,717,408 | 1,277,775 | 1,147,897 |
| Net investment income | 2,987,632 | 422,938 | 800,886 | 3,551,012 |
| Benefit payments, including refunds of plan member contributions | (2,207,582) | (2,107,327) | (1,876,451) | (1,771,838) |
| Administrative expense | (30,030) | (20,624) | (15,966) | (12,705) |
| Other changes | (58,077) | (83,824) | (74,554) | (68,429) |
| Net change in plan fiduciary net position | 2,311,076 | (71,429) | 111,690 | 2,845,937 |
| Plan fiduciary net position, June 30 (b) | \$ 26,282,232 | \$ 23,971,156 | \$ 24,042,585 | \$ 23,930,895 |
| Plan net pension liability - June 30 (a) - (b) | \$ 12,824,768 | \$ 13,788,844 | \$ 11,382,829 | \$ 7,424,105 |
| Plan fiduciary net position as a percentage of the total pension liability | 67.2% | 63.5% | 67.9% | 76.3% |
| Covered employee payroll (as of the actuarial valuation date) | \$ 5,927,012 | \$ 5,792,288 | \$ 5,591,911 | \$ 5,344,510 |
| Net pension liability as a percentage of covered employee payroll | 216.4% | 238.1% | 203.6% | 138.9% |

Note: This schedule is intended to present 10 years of data. Additional years will be presented when available.

NOTES TO THE SERS SCHEDULE

FY2017 Changes in Actuarial Assumptions

Changes of Benefit Terms:

Chapter 79 of the Acts 2014 established an early retirement incentive (ERI) program for certain employees of the highway division of the Massachusetts Department of Transportation whose positions have been eliminated due to automation of toll collections. Most members retiring under the ERI program had a date retirement of October 28, 2016. 112 members took the ERI and retired during FY2017. As a result, the total pension liability of SERS increased by approximately \$10 million as of June 30, 2017.

Changes of Assumptions:

Change in mortality

The following mortality assumption changes were made in the January 1, 2017 Actuarial Valuation for SERS:

- Pre-retirement was changed to RP-2014 Blue Collar Employees table projected generationally with Scale MP-2016 set forward 1 year for females from RP-2000 Employees table projected generationally with Scale BB and a base year of 2009 (gender distinct).
- Post-retirement was changed to RP-2014 Blue Collar Healthy Annuitant table projected generationally with Scale MP-2016 set forward 1 year for females from RP-2000 Healthy Annuitant table projected generationally with Scale BB and a base year of 2009 (gender distinct).
- Disabled members is assumed to be in accordance with the RP-2000 Healthy Annuitant Table projected generationally with Scale BB and a base year of 2015 (gender distinct), and is unchanged from the prior valuation.

These changes resulted in an increase of approximately \$304 million in the total pension liability as of June 30, 2017.

FY2016 Changes in Actuarial Assumptions

Changes in Benefit Terms:

Chapter 176 of the Acts of 2011 created a one time election for eligible members of the Optional Retirement Plan (ORP) to transfer to the State Employee's Retirement System (SERS) and purchase service for the period while members of the ORP. As a result, the total pension liability of SERS has increased by approximately \$400 million as of June 30, 2016.

FY2015 Changes in Actuarial Assumptions

Changes in Benefit Terms:

In May 2015, Chapter 19 of the Acts of 2015 created an Early Retirement Incentive (ERI) for certain members of SERS who upon election of the ERI retired effective June 30, 2015. As a result, the total pension liability of SERS has increased by approximately \$230 million as of June 30, 2015.

Changes of Assumptions:

Change in the investment rate of return

The Commonwealth revised its discount rate to 7.50% from 7.75%. This change resulted in an increase of approximately \$933 million which affected the net pension liability as of and for the fiscal year ending June 30, 2015.

Change in mortality

The following mortality assumption changes were made in the January 1, 2015 Actuarial Valuation for SERS:

- Pre-retirement was changed to RP-2000 Employees table projected generationally with Scale BB and a base year of 2009 (gender distinct) from RP-2000 Employees table projected 22 years with Scale AA.
- Post-retirement was changed to RP-2000 Healthy Annuitant table projected generationally with Scale BB and a base year of 2009 (gender distinct) from RP-2000 Healthy Annuitant table projected 17 years with Scale AA.
- Disabled members was changed to be assumed to be in accordance with RP-2000 Healthy Annuitant table projected generationally with Scale BB and a base year of 2015 (gender distinct) from RP-2000 Healthy Annuitant table projected 7 years with Scale AA set forward 3 years for males.

These changes resulted in an increase of approximately \$1.397 billion in the total pension liability as of June 30, 2015.

FY2014 Changes in Actuarial Assumptions

Changes of Assumptions:

Change in Experience

An updated experience study was issued on February 27, 2014 and encompassed the period January 1, 2006 to December 31, 2011. The study reviewed salary increases and rates of retirement, disability, turnover, and mortality. This study adjusted the mortality assumption which resulted in an increase of approximately \$102 million in the total pension liability as of June 30, 2014.

See Independent Auditors' Report

Schedule of Changes in the Massachusetts Teachers' Retirement System (MTRS) Net Pension Liability and Related Ratios

(Amounts in thousands, except for percentages)

| | | 2017 | | 2016 | | 2015 | | 2014 |
|--|----|-------------|----|-------------|----|-------------|----|-------------|
| Total pension liability, July 1 | \$ | 47,300,000 | \$ | 45,918,711 | \$ | 41,435,000 | \$ | 39,931,000 |
| Service cost | | 891,760 | | 843,800 | | 768,032 | | 720,712 |
| Interest | | 3,505,761 | | 3,402,525 | | 3,166,728 | | 3,227,025 |
| Differences between expected and actual experience | | 47,046 | | (74,025) | | 153,000 | | _ |
| Changes of assumptions | | 1,176,000 | | _ | | 3,080,000 | | 108,000 |
| Benefit payments, including refunds of member contributions | | (2,896,567) | | (2,791,011) | | (2,684,049) | | (2,551,737) |
| Net change in total pension liability | _ | 2,724,000 | _ | 1,381,289 | | 4,483,711 | _ | 1,504,000 |
| Total pension liability, June 30 (a) | \$ | 50,024,000 | \$ | 47,300,000 | \$ | 45,918,711 | \$ | 41,435,000 |
| Plan fiduciary net position, July 1 | \$ | 24,942,072 | \$ | 25,429,068 | \$ | 25,538,646 | \$ | 22,697,302 |
| Non-employer | | 1,235,515 | | 1,124,583 | | 1,021,930 | | 937,379 |
| Plan members | | 730,212 | | 699,422 | | 669,941 | | 653,328 |
| Other additions | | 223,746 | | 202,796 | | 190,925 | | 150,522 |
| | _ | | | | _ | | | |
| Total contributions | | 2,189,473 | | 2,026,801 | | 1,882,796 | | 1,741,229 |
| Net investment income | | 3,100,352 | | 441,363 | | 845,503 | | 3,771,883 |
| Benefit payments, including refunds of plan member contributions | | (2,896,567) | | (2,791,011) | | (2,684,049) | | (2,551,737) |
| Administrative expense | | (24,053) | | (24,220) | | (23,444) | | (20,499) |
| Other changes | | (172,668) | | (139,929) | | (130,384) | | (99,532) |
| Net change in plan fiduciary net position | | 2,196,537 | | (486,996) | | (109,578) | | 2,841,344 |
| Plan fiduciary net position, June 30 (b) | \$ | 27,138,609 | \$ | 24,942,072 | \$ | 25,429,068 | \$ | 25,538,646 |
| Plan net pension liability - June 30 (a) - (b) | \$ | 22,885,391 | \$ | 22,357,928 | \$ | 20,489,643 | \$ | 15,896,354 |
| Plan fiduciary net position as a percentage of the total pension liability | | 54.3% | | 52.7% | | 55.4% | | 61.6% |
| Covered employee payroll (as of actuarial valuation date) | \$ | 6,583,871 | \$ | 6,388,732 | \$ | 6,204,274 | \$ | 5,962,650 |
| Net pension liability as a percentage of covered employee payroll | | 347.6% | | 350.0% | | 330.3% | | 266.6% |

Note: This schedule is intended to present 10 years of data. Additional years will be presented when available.

NOTES TO THE MTRS SCHEDULE

FY2017 Changes in Actuarial Assumptions

Changes of Assumptions:

Change in mortality

The following mortality assumption changes were made in the January 1, 2017 Actuarial Valuation for MTRS:

- Pre-retirement was changed to RP-2014 White Collar Employees table projected generationally with Scale MP-2016 (gender distinct) from RP-2014 Employees table projected generationally with Scale BB).
- Post-retirement was changed to RP-2014 White Collar Healthy Annuitant table projected generationally with Scale MP-2016 (gender distinct) from RP-2014 Healthy Annuitant table projected generationally with Scale BB).
- Disabled members is assumed to be in accordance with RP-2014 Healthy Annuitant table projected generationally with Scale BB and a base year of 2014 set forward 4 years and is unchanged from the prior valuation.

These changes resulted in an increase of approximately \$1.176 billion in the total pension liability as of June 30, 2017.

FY2015 Changes in Actuarial Assumptions

Changes of assumptions:

Change in the investment rate of return

The Commonwealth revised its discount rate to 7.50% from 7.75%. This change resulted in an increase of approximately \$1.190 billion which affected the net pension liability as of and for the fiscal year ending June 30, 2015.

Change in mortality

The following mortality assumption changes were made in the January 1, 2015 Actuarial Valuation for MTRS:

- Pre-retirement was changed to RP-2014 Employees table projected generationally with Scale BB and a base year of 2014 (gender distinct) from RP-2000 Employees table adjusted for "white-collar" employment projected 22 years with Scale AA.
- Post-retirement was changed to RP-2014 Healthy Annuitant table projected generationally with Scale BB and a base year of 2014 (gender distinct) from RP-2000 Healthy Annuitant table adjusted for large annuity amounts and projected 17 years with Scale AA.
- Disabled members was changed to be assumed to be in accordance with RP-2014 Healthy Annuitant table projected generationally with Scale BB and a base year of 2014 set forward 4 years from RP-2000 Healthy Annuitant table adjusted for large annuity amounts and projected 7 years with Scale AA set forward 3 years for males.

These changes resulted in an increase of approximately \$1.890 billion in the total pension liability as of June 30, 2015.

FY2014 Changes in Actuarial Assumptions

Changes of Assumptions:

Change in Experience

An updated experience study was issued on February 27, 2014 and encompassed the period January 1, 2006 to December 31, 2011. The study reviewed salary increases and rates of retirement, disability, turnover, and mortality. This study adjusted the mortality assumption which resulted in an increase of approximately \$108 million in the total pension liability as of June 30, 2014.

See Independent Auditors' Report

Schedule of Changes in the State Retirees' Benefit Trust (SRBT) **Net OPEB Liability and Related Ratios**

(Amounts in thousands, except for percentages)

| | _ | 2017 |
|---|----|-------------|
| Total OPEB liability, July 1 | \$ | 22,704,400 |
| Service cost | | 975,300 |
| Interest | | 675,700 |
| Differences between expected and actual experience | | (62,600) |
| Changes of assumptions | | (3,080,400) |
| Benefit payments, including refunds of member contributions | | (441,064) |
| Net change in total pension liability | | (1,933,064) |
| Total OPEB liability, June 30 (a) | \$ | 20,771,336 |
| Plan fiduciary net position, July 1 | \$ | 866,043 |
| Contributions: | | |
| Employer | | 465,449 |
| Other additions | | 784 |
| Total contributions | | 466,233 |
| Net investment income | | 105,822 |
| Benefit payments, including refunds of plan member contributions | | (441,064) |
| Administrative expense | | (127) |
| Other changes | | (500) |
| Net change in plan fiduciary net position | | 130,364 |
| Plan fiduciary net position, June 30 (b) | \$ | 996,407 |
| Plan net OPEB liability - June 30 (a) - (b) | \$ | 19,774,929 |
| Plan fiduciary net position as a percentage of the total OPEB liability | | 4.8% |
| Covered employee payroll (as of actuarial valuation date) | \$ | 5,927,012 |
| Net OPEB liability as a percentage of covered employee payroll | | 333.6% |
| Note: This schedule is intended to present 10 years of data. Additional years will be presented when available. | | |

NOTES TO THE SRBT SCHEDULE

FY2017 Changes in Actuarial Assumptions

Changes of Assumptions:

Change in discount rate

The discount rate was increased to 3.63% (based on a blend of the Bond Buyer Index rate (3.58%) as of the measurement date and the expected rate of return on assets) as required by GASB Statement No. 74. The June 30, 2016 discount rate was calculated to be 2.80%. This increase in the discount rate resulted in a decrease in the net OPEB liability of approximately \$3.080 billion as of June 30, 2017.

See Independent Auditors' Report

Schedule of Investment Returns

| | Fiscal Year Ending June 30 | | | | | |
|--|----------------------------|-------|-------|--------|--|--|
| | 2017 | 2016 | 2015 | 2014 | | |
| Annual money-weighted rate of return, net of investment expense - SERS | 12.74% | 1.79% | 3.40% | 17.13% | | |
| Annual money-weighted rate of return, net of investment expense - MTRS | 12.75% | 1.78% | 3.40% | 17.12% | | |
| Annual money-weighted rate of return, net of investment expense - SRBT | 12.90% | (1) | (1) | (1) | | |

(1) - GASB 74 implemented in FY2017.

Note: This schedule is intended to present 10 years of data. Additional years will be presented when available.

See Independent Auditors' Report

Schedule of Proportionate Share of the Net Pension Liability and Contributions

State Employees' Retirement System

Last 10 Years (amounts in thousands)

| Proportionate Share of the Net Pension Liability | | | | 2017 (measurement date June 30, 2016) | | 2016 (measurement date June 30, 2015) | | 2015 (measurement date June 30, 2014) | |
|--|-------|----------------------------|--------|--|--------|--|--------|--|--|
| Proportion of the net pension liability | | | | 94.3% | | 93.8% | | 93.9% | |
| Proportionate share of the net pension liability | | | \$ | 12,996,818 | \$ | 10,682,765 | \$ | 6,972,443 | |
| Plan net position as a percentage of the total pension liability | | | | 63.5% | | 67.9% | | 76.3% | |
| Covered payroll | | | | 5,249,985 | \$ | 5,136,405 | \$ | 4,975,346 | |
| Net pension liability as a percentage of covered payroll | | | 247.6% | | 208.0% | | 140.1% | | |
| | | Fiscal Year Ending June 30 | | | | | | | |
| Contributions | 2017 | | | 2016 | | 2015 | | 2014 | |
| Statutorily required contribution | \$ | 744,721 | \$ | 682,648 | \$ | 619,971 | \$ | 571,776 | |
| Contributions in relation to the statutorily required contribution | | 744,721 | _ | 682,648 | | 619,971 | | 571,776 | |
| Annual contribution deficiency/(excess) | \$ | | \$ | | \$ | | \$ | | |
| Covered payroll | \$ | 5,397,203 | \$ | 5,249,985 | \$ | 5,136,405 | \$ | 4,975,346 | |
| Contributions as a percentage of covered payroll | 13.8% | | | 13.0% | | 12.1% | | 11.5% | |

The State Employees' Retirement System (SERS) is included in the CAFR as a pension trust fund in the fiduciary fund type. SERS is a defined-benefit multiple employer, cost-sharing public employee retirement system.

Note: This schedule is intended to present 10 years of data. Additional years will be presented when available.

Schedule of Proportionate Share of the Net Pension Liability and Contributions

Massachusetts Teachers' Retirement System

Last 10 Years (amounts in thousands)

| Proportionate Share of the Net Pension Liability | | | 2017 (measurement date June 30, 2016) | | | 2016 measurement late June 30, 2015) | 2015 (measurement date June 30, 2014) | |
|--|------|----------------------------|--|------------|------|---|--|------------|
| Proportion of the net pension liability | | | | 100.0% | | 100.0% | | 100.0% |
| Proportionate share of the net pension liability | | | \$ | 22,357,928 | \$ | 20,489,643 | \$ | 15,896,354 |
| Plan net position as a percentage of the total pension liability | | | 52.7% | | | 55.4% | 61.6% | |
| | | Fiscal Year Ending June 30 | | | | | | |
| Contributions | 2017 | | 2016 | | 2015 | | 2014 | |
| Statutorily required contribution | \$ | 1,235,515 | \$ | 1,124,583 | \$ | 1,021,930 | \$ | 937,379 |
| Contributions in relation to the statutorily required contribution | | 1,235,515 | | 1,124,583 | | 1,021,930 | | 937,379 |
| Annual contribution deficiency/(excess) | \$ | _ | \$ | _ | \$ | _ | \$ | _ |

The Massachusetts Teachers' Retirement System (MTRS) is included in the CAFR as a pension trust fund in the fiduciary fund type. MTRS is a defined-benefit multiple employer, cost-sharing public employee retirement system.

Note: This schedule is intended to present 10 years of data. Additional years will be presented when available.

Schedule of Proportionate Share of the Net Pension Liability and Contributions

Boston Retirement System - Teachers

Last 10 Years (amounts in thousands)

| Proportionate Share of the Net Pension Liability | 2017 (measurement date December 31, 2016) | | 2016 (measurement date December 31, 2015) | | 2015 (measurement date December 31, 2014) | | | |
|--|--|-----------|--|----------------|--|-------------|------|--------|
| Proportion of the net pension liability | | 55.9% | | 54.5% | | 53.7% | | |
| Proportionate share of the net pension liability | \$ | 2,325,286 | \$ | 2,402,267 | \$ | 2,066,546 | | |
| Plan net position as a percentage of the total pension liability | | 55.2% | | 55.8% | | 59.6% | | |
| | | | Fi | scal Year Endi | ng l | December 31 | | |
| Contributions | 2016 | | 2015 | | 2014 | | 2013 | |
| Statutorily required contribution | \$ | 132,477 | \$ | 120,434 | \$ | 109,485 | \$ | 99,532 |
| Contributions in relation to the statutorily required contribution | | 132,477 | | 120,434 | | 109,485 | | 99,532 |
| Annual contribution deficiency/(excess) | \$ | | \$ | _ | \$ | _ | \$ | _ |

The Boston Retirement System (BRS) is included in the City of Boston's CAFR. The Boston Teachers' portion of the BRS total pension liability is reported in the Commonwealth's CAFR as a part of the total net pension liability.

Note: This schedule is intended to present 10 years of data. Additional years will be presented when available.

NOTES TO THE SCHEDULES OF PROPORTIONATE SHARE OF THE NET PENSION LIABILITY AND CONTRIBUTIONS

SERS and MTRS:

In accordance with Chapter 32 of the Massachusetts General Laws (MGL), the Commonwealth's statutorily determined contributions to SERS and MTRS are based on a three-year funding schedule adopted by the legislature based upon the previous year's actuarial valuation. The most recent funding schedule was adopted in January 2017 (for fiscal years 2018 through 2020) based upon the January 1, 2016 actuarial valuation as prepared by the Public Employee Retirement Administration Commission (PERAC) using the following assumptions:

- 1. The annual required contribution for FY2017 was determined as part of the January 1, 2016 actuarial valuation using the entry age normal cost method.
- 2. The actuarial assumptions included (a) 7.50% investment rate of return, (b) 3.50% interest rate credited to the annuity savings fund and (c) 3.00% cost of living increase per year (on the first \$13,000 of an allowance).
- 3. Salary increases are based on analyses of past experience but range from 4.0% to 9.0% depending on group and length of service.
- 4. The assumptions do not include post-retirement benefit increases, which are taken into account when granted under amendments to General Laws.
- 5. The actuarial value of assets was determined using various techniques that smooth the effects of short-term volatility in the market value of investments, with a phased-in approach. Under this approach, 20% of the gains or losses occurring in the prior year are recognized, 40% of those occurring two years prior, etc., so that 100% of gains and losses occurring five years prior are recognized. The actuarial value of assets is adjusted if necessary in order to remain between 90% and 110% of market value.
- 6. Normal costs are amortized using level percentage of payroll, closed.
- 7. The remaining amortization period for the unfunded pension liability at January 1, 2016 was 20 years to FY36.

BRS-Teachers:

The actuarially determined contributions were calculated as of December 31, 2015. The funding requirements are established for the employers' fiscal year ended June 30, 2017 and later years and are analyzed based on the preceding two years' experience. The following actuarial methods and assumptions were used to determine the required contribution rates:

| Actuarial cost method | Entry age normal cost method |
|-------------------------------|--|
| Amortization method | Prior year's contribution increased by 10% for fiscal 2015, 2016 and 2017, and 7.0% per year thereafter for Boston Teachers |
| Remaining amortization period | 20 years remaining as of January 1, 2016 for Boston Teachers |
| Asset valuation method | Sum of actuarial value at beginning of year, contributions and investment earnings based on the actuarial interest assumption less benefit payments and operating expenses plus 20% of market value at end of year in excess of that sum, plus additional adjustment toward market value as necessary so that final actuarial value is within 20% of market value. |
| | Similar formula used for negative adjustment toward market value if actuarial value exceeds market value. |
| Inflation | 4.5% |
| Salary increases | Varies by length of service with ultimate rate of 4.00% for Boston Teachers |
| Investment rate of return | 7.50% for Boston Teachers |

Other Supplementary Information

Combining Balance Sheet - Other Governmental Funds

Combining Statement of Revenues, Expenditures and Changes in Fund Balance – Other Governmental Funds Combining Statement of Revenues, Expenditures and Changes in Fund Balances – Budgetary Basis – Budget and Actual – Other Budgeted Nonmajor Governmental Funds

Combining Budget to GAAP Reconciliation - Other Budgeted Nonmajor Governmental Funds

Combining Statement of Net Position Available for Pension Benefits

Combining Statement of Changes in Net Position Available for Pension Benefits

Combining Statement of Net Position Held in Trust for Pool Participants

Combining Statement of Changes in Net Position Held in Trust for Pool Participants

Combining Statement of Changes in Assets and Liabilities - Agency Funds

Combining Statement of Net Position - Nonmajor Component Units

Combining Statement of Revenues, Expenses and Changes in Net Position - Nonmajor Component Units

Combining Balance Sheet

Other Governmental Funds June 30, 2017

(Amounts in thousands)

| | Special Revenue | | | | | | | | | | | |
|---|-----------------|--------|-------------------|----|----------------------------|------|------------|----|----------------------|----|-----------------|---------------|
| ASSETS | Common | | Federal Grants | | niversal Health Care | Envi | ironmental | | mmunity rst Trust | | aming ontrol | ming venue |
| Cash and cash equivalents | \$ | 482 | \$ | \$ | 317,581 | \$ | 16,566 | \$ | 15,505 | \$ | 7,458 | \$ 47 |
| Restricted cash with fiscal agent | | 18,080 | _ | | _ | | _ | | _ | | _ | _ |
| Receivables, net of allowance for uncollectibles: | | | | | | | | | | | | |
| Taxes | | 69,199 | _ | | 10,107 | | 90 | | _ | | _ | _ |
| Due from federal government | | _ | 275,459 | | 19,297 | | 1,075 | | _ | | _ | _ |
| Loans receivable | | _ | _ | | _ | | _ | | _ | | _ | _ |
| Other receivables | | 85 | _ | | 38,113 | | 303 | | _ | | 6,122 | _ |
| Due from other funds | | | | _ | | | | | | _ | | |
| Total assets | \$ | 87,846 | \$ 275,459 | \$ | 385,098 | \$ | 18,034 | \$ | 15,505 | \$ | 13,580 | \$ 47 |
| LIABILITIES AND FUND BALANCES | | | | | | | | | | | | |
| Liabilities: | | | | | | | | | | | | |
| Accounts payable | \$ | 482 | \$ 231,257 | \$ | 61,077 | \$ | 683 | \$ | 194 | \$ | 1,869 | \$ 47 |
| Accrued payroll | | | 3,418 | | 73 | | 201 | | 13 | | 216 | _ |
| Compensated absences | | _ | _ | | _ | | _ | | _ | | _ | _ |
| Tax refunds and abatements payable | | 244 | _ | | _ | | _ | | _ | | _ | _ |
| Due to other funds | | _ | 38,702 | | _ | | _ | | _ | | _ | _ |
| Due to component units | | 13,764 | _ | | 20,810 | | _ | | _ | | _ | _ |
| Other accrued liabilities | | | | _ | 43,651 | | | | | _ | | |
| Total liabilities | | 14,490 | 273,377 | | 125,611 | | 884 | | 207 | | 2,085 | 47 |
| Deferred inflows of resources | | _ | _ | | 49,313 | | _ | | _ | | _ | _ |
| Total liabilities and deferred inflows of resources | | 14,490 | 273,377 | | 174,924 | | 884 | | 207 | | 2,085 | 47 |
| Fund balances: | | | | | | | | | | | | |
| Restricted | | 18,080 | 2,082 | | | | _ | | 15,298 | | _ | |
| Committed | | 55,276 | _ | | 210,174 | | 16,150 | | _ | | 11,495 | _ |
| Assigned | | | _ | | _ | | 1,000 | | _ | | _ | _ |
| Unassigned (deficits) | | | | _ | | | | | | | | |
| Fund balances (deficits) | | 73,356 | 2,082 | | 210,174 | | 17,150 | | 15,298 | | 11,495 | |
| Total liabilities and fund balances | \$ | 87,846 | \$ 275,459 | \$ | 385,098 | \$ | 18,034 | \$ | 15,505 | \$ | 13,580 | \$ 47 |

| | | | | Sp | ecial Revenu | e | | | | |
|----|---|------------------------------------|---|--|-------------------|--|---|--------------------------------|---------------------------------|---|
| | MBTA State & Local ontribution | Community Preservation Trust | Health Insurance Portability and Accountability Act | Division of Professional Licensure | Enhanced 911 | Health Information Technology Trust | Regional Greenhouse Gas Initiative (RGGI) Auction Trust | Workforce Training Trust | Child Support Enforcement | Department of Industrial Accidents |
| \$ | 86,440 | \$ 21,538 — | \$ 6,786 — | \$ 5,131 — | \$ 139,061 — | \$ — | \$ 18,868 — | \$ 36,105 — | \$ 15,032 — | \$ 10,387 — |
| | 65,528 — | _ _ | 1,312 | _ | _ | — 4,806 | _ _ | 6,445 — | 1,433 | _ |
| | | | | _ _ | | | _ | | 3,653 | 5,520 |
| \$ | 151,968 | \$ 21,538 | \$ 8,098 | \$ 5,131 | \$ 139,061 | \$ 4,806 | \$ 18,868 | \$ 42,550 | \$ 20,118 | \$ 15,907 |
| \$ | 65,511 — — | \$ 24,046 — | \$ 455 22 — | \$ 71 42 | \$ 16,329 61 | \$ 10,417 75 | \$ 1,890 38 | \$ 130 | \$ 2,215 183 | \$ 211 |
| | 243 | _ | _ | _ | _ | _ | _ | 68 | _ | _ |
| | - 06.214 | _ | _ | _ | _ | 39,438 | _ | _ | _ | _ |
| | 86,214 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 151,968 | 24,046 | 477 | 113 | 16,390 | 49,930 | 1,928 | 198 | 2,398 | 211 |
| | | | | | | | | | | |
| | 151,968 | 24,046 | 477 | 113 | 16,390 | 49,930 | 1,928 | 198 | 2,398 | 211 |
| | _ _ _ | (2,508) | 7,621 — | 5,018 | 122,671 — — | (45,124) | 16,940 — — | 42,352 — | 17,720 — — — | |
| _ | | (2,508) | 7,621 | 5,018 | 122,671 | (45,124) | 16,940 | 42,352 | 17,720 | 15,696 |
| \$ | 151,968 | \$ 21,538 | \$ 8,098 | \$ 5,131 | \$ 139,061 | \$ 4,806 | \$ 18,868 | \$ 42,550 | \$ 20,118 | \$ 15,907 |

continued

Combining Balance Sheet

Other Governmental Funds June 30, 2017

(Amounts in thousands)

| | Special Revenue | | | | | | | | | | | |
|---|-----------------|-----------------------------------|----|----------------------------------|----|----------------------------------|----|-----------------------|----|-------------------------------|----|------------------|
| ASSETS | and | onvention Exhibition Center | | Grant ticipation ote Trust | M | assachusetts Tourism Trust | Ex | xpendable Trust | _ | Other | D | ebt Service |
| Cash and cash equivalents | | 52,835 99,248 | \$ | 6,656 83,196 | \$ | 775 | \$ | 680,969 — | \$ | 103,932 | \$ | 298 236 |
| Taxes Due from federal government Loans receivable Other receivables Due from other funds | | 17,521 — — — — | | 78,617 — — | | 6,292 — — — — | | 2,819 914 9,154 | | 62 — 13,678 141 — | | _ _ _ _ |
| Total assets | \$ | 169,604 | \$ | 168,469 | \$ | 7,067 | \$ | 693,856 | \$ | 117,813 | \$ | 534 |
| LIABILITIES AND FUND BALANCES | | | | | | | | | | | | |
| Liabilities: | | | | | | | | | | | | |
| Accounts payable | | 24,884 | \$ | _ | \$ | 316 | \$ | 39,811 | \$ | 8,029 | \$ | _ |
| Accrued payroll | | _ | | _ | | 27 | | 991 | | 395 | | _ |
| Compensated absences Tax refunds and abatements payable | | _ | | _ | | 9 | | _ | | | | _ |
| Due to other funds | | | | 78,617 | | | | | | | | |
| Due to component units | | | | 70,017 | | _ | | | | | | |
| Other accrued liabilities | | _ | | _ | | _ | | _ | | _ | | _ |
| Total liabilities | | 24,884 | | 78,617 | | 352 | | 40,802 | | 8,424 | | _ |
| Deferred inflows of resources | | _ | | _ | | _ | | _ | | _ | | _ |
| Total liabilities and deferred inflows of resources | | 24,884 | | 78,617 | | 352 | | 40,802 | | 8,424 | | |
| Fund balances: | | | | | | | | | | | | |
| Restricted | | _ | | 89,852 | | _ | | 238,750 | | 13,678 | | 534 |
| Committed | | 144,720 | | _ | | 6,715 | | 264,012 | | 130,744 | | _ |
| Assigned | | _ | | _ | | _ | | 150,292 | | _ | | _ |
| Unassigned (deficits) | | | | | | | _ | | | (35,033) | | |
| Fund balances (deficits) | | 144,720 | | 89,852 | | 6,715 | | 653,054 | _ | 109,389 | | 534 |
| Total liabilities and fund balances | \$ | 169,604 | \$ | 168,469 | \$ | 7,067 | \$ | 693,856 | \$ | 117,813 | \$ | 534 |

| | General Capital Projects | Ex | nvention and hibition Center | C | ghway apital rojects | F Co | Federal Highway nstruction Program | (| Other | _ | Total |
|----|--------------------------------|----|---------------------------------------|----|----------------------------|---------|---|----|-------|----|--------------------|
| \$ | 609,490 | \$ | 8,393 | | 65,288 | \$ | 6,286 | \$ | 10 | \$ | 2,231,919 |
| | | | _ | | _ | | _ | | _ | | 200,760 |
| | _ | | _ | | _ | | _ | | _ | | 175,244 |
| | 4,884 | | _ | | _ | | _ | | _ | | 389,702 |
| | _ | | _ | | _ | | _ | | _ | | 14,592 |
| | _ | | _ | | _ | | 22 | | | | 63,113 |
| | | | | | | | 78,617 | | | _ | 78,617 |
| \$ | 614,374 | \$ | 8,393 | \$ | 65,288 | \$ | 84,925 | \$ | 10 | \$ | 3,153,947 |
| | | | | | | | | | | | |
| \$ | 363,784 | \$ | _ | \$ | _ | \$ | _ | \$ | 500 | \$ | 854,208 |
| | 553 | | _ | | _ | | _ | | | | 6,308 |
| | _ | | _ | | _ | | _ | | | | 9 |
| | _ | | _ | | _ | | _ | | | | 555 |
| | - 255 | | _ | , | 277,050 | | 94,692 | | _ | | 156,757 497,785 |
| | 5,255 | | | 4 | 277,030 | | 94,692 | | _ | | 497,785 |
| _ | 260 502 | | | _ | 27 050 | _ | 94,692 | _ | 500 | _ | |
| _ | 369,592 | | | | 277,050 | _ | 94,092 | | 300 | _ | 1,559,273 |
| _ | | | | | | | | | | | 49,313 |
| _ | 369,592 | | | | 277,050 | | 94,692 | | 500 | _ | 1,608,586 |
| | 244,782 | | 8,393 | | _ | | _ | | 10 | | 649,179 |
| | _ | | _ | | _ | | _ | | _ | | 1,049,584 |
| | _ | | _ | | _ | | _ | | _ | | 151,292 |
| _ | | | | (2 | 211,762) | | (9,767) | | (500) | _ | (304,694) |
| _ | 244,782 | | 8,393 | (2 | 211,762) | _ | (9,767) | _ | (490) | _ | 1,545,361 |
| \$ | 614,374 | \$ | 8,393 | \$ | 65,288 | \$ | 84,925 | \$ | 10 | \$ | 3,153,947 |

Combining Statement of Revenues, Expenditures and Changes in Fund Balances

Other Governmental Funds Fiscal Year Ended June 30, 2017

| Properties | | (Amou | ınts in thousan | ds) | | | | |
|--|--|---------------------------------------|-----------------|------------|----------------|-----------|-----------|-------------------|
| Permission Per | | | | Sp | oecial Revenue | | | |
| Taxes | | | | Health | Environmental | | | Gaming Revenue |
| Assessments | | 4 1210215 | | A 145 150 | | 4 | | r 52 122 |
| Federal gants and reimburements | | | \$ — | | \$ 1,009 | \$ — | \$ — | \$ 63,432 |
| Departmental 666.638 320.360 8.815 32.331 Miscellancoms 220 7 1,142 255 3 4 4 4 4 4 4 4 4 4 | | , | 2 625 159 | | 9 527 | _ | _ | _ |
| Miscellancous 2.007.665 3.635.465 0.803.56 0.86.056 0.32,331 6.5 | • | | | | | | 32 331 | 10 |
| Total revenues | • | | | | | | 32,331 | |
| Bonds permium. | | | | | | | 32,331 | 63,442 |
| Insurance of general and special obligation bonds | OTHER FINANCING SOURCES | | | | | | | |
| Issuance of current refunding bonds | Bonds premium | _ | _ | _ | _ | _ | _ | _ |
| Susance of advance refunding bonds | Issuance of general and special obligation bonds | _ | _ | _ | _ | _ | _ | _ |
| Transfers in for debt service. Total other financing sources. 40,000 612,120 191 71 | Issuance of current refunding bonds | _ | _ | _ | _ | _ | _ | _ |
| Transfers in. | = | | _ | _ | _ | _ | _ | _ |
| Total other financing sources | | | _ | _ | _ | _ | _ | _ |
| Total revenues and other financing sources 2,047,665 3,635,465 1,692,476 18,797 - 32,331 63 | Transfers in | | | | | | | |
| EXPENDITURES Curren: Judiciary | _ | | | | | | | |
| Didicary | Total revenues and other financing sources | 2,047,665 | 3,635,465 | 1,692,476 | 18,797 | | 32,331 | 63,442 |
| Judiciary | | | | | | | | |
| Inspector General | | | | | | | | |
| Governor and Lieutenant Governor | | | 1,667 | 210 | _ | _ | _ | _ |
| Secretary of the Commonwealth | • | | _ | | _ | _ | _ | _ |
| Treasurer and Receiver-General | | | | _ | _ | _ | _ | |
| Auditor of the Commonwealth | · · · · · · · · · · · · · · · · · · · | | | _ | _ | _ | | |
| Attorney General | | | 2,001 | | | | - 08 | |
| District Attorney | | | 22 521 | | | | 1 297 | |
| Sheriff's Departments | | | , | _ | _ | _ | - 1,257 | _ |
| Disabled Person Protection Commission | · · · · · · · · · · · · · · · · · · · | | | _ | _ | _ | _ | _ |
| Massachusetts Gaming Commission | | | 159 | _ | _ | _ | _ | _ |
| Comptroller | Board of Library Commissioners | _ | 2,854 | _ | _ | _ | _ | _ |
| Administration and Finance | Massachusetts Gaming Commission | _ | _ | _ | _ | _ | 20,481 | _ |
| Energy and Environmental Affairs | Comptroller | _ | _ | _ | _ | _ | _ | _ |
| Health and Human Services | Administration and Finance | 125,000 | 5,235 | 25,919 | 126 | _ | 14 | _ |
| Massachusetts Department of Transportation | | | | | 15,808 | | | _ |
| Executive Office of Education | | | | 20,980 | _ | 31,616 | 431 | _ |
| Center for Health and Information Analysis | | | | _ | _ | _ | _ | _ |
| Public Safety and Homeland Security | | | | _ | _ | _ | _ | _ |
| Housing and Economic Development | · · · · · · · · · · · · · · · · · · · | | | _ | _ | _ | 7 | |
| Labor and Workforce development | | | | | | | | |
| Medicaid | | | | | | | | |
| Direct local aid Capital outlay: Capital acquisition and construction. Capital acquisition acquisition and construction. Capital acquisition acquisi | • | _ | | 1.541.179 | _ | 9,571 | _ | _ |
| Direct local aid Capital outlay: Capital acquisition and construction. Capital acquisition acquisition and construction. Capital acquisition acquisi | Post employment benefits | 15,948 | _ | _ | _ | _ | _ | _ |
| Capital acquisition and construction | | | _ | _ | _ | _ | _ | _ |
| Debt service | Capital outlay: | | | | | | | |
| Principal on current refundings | Capital acquisition and construction | _ | _ | _ | _ | _ | _ | _ |
| Total expenditures 769,235 3,546,918 1,588,296 15,934 41,187 22,298 OTHER FINANCING USES Payments to refunding bond escrow agent — | | _ | _ | _ | _ | _ | _ | _ |
| OTHER FINANCING USES Payments to refunding bond escrow agent | _ | | 2 546 019 | 1 599 206 | 15 024 | 41 197 | 22 208 | |
| Payments to refunding bond escrow agent | - | 109,235 | 3,540,710 | 1,500,470 | 13,734 | 41,107 | | |
| Transfers out | | _ | | _ | _ | _ | _ | _ |
| Transfers of appropriations — | | | 109 581 | 185.302 | 3 384 | 1 233 | 4 011 | 63,442 |
| Transfers of bond proceeds - - | | · · · · · · · · · · · · · · · · · · · | | | | | -,,,,,, | |
| Transfers out for debt service. 1,095,108 — — — — Total other financing uses. 1,278,951 109,581 185,302 3,384 1,233 4,011 63 Total expenditures and other financing uses. 2,048,186 3,656,499 1,773,598 19,318 42,420 26,309 63 Excess (deficiency) of revenues and other financing sources over expenditures and other financing uses. (521) (21,034) (81,122) (521) (42,420) 6,022 | •• • | | _ | _ | _ | _ | _ | _ |
| Total expenditures and other financing uses 2,048,186 3,656,499 1,773,598 19,318 42,420 26,309 63 Excess (deficiency) of revenues and other financing sources over expenditures and other financing uses (521) (21,034) (81,122) (521) (42,420) 6,022 | | | | | | | | |
| Total expenditures and other financing uses 2,048,186 3,656,499 1,773,598 19,318 42,420 26,309 63 Excess (deficiency) of revenues and other financing sources over expenditures and other financing uses (521) (21,034) (81,122) (521) (42,420) 6,022 | Total other financing uses | | 109,581 | 185,302 | 3,384 | 1,233 | 4,011 | 63,442 |
| sources over expenditures and other financing uses (521) (21,034) (81,122) (521) (42,420) 6,022 | Total expenditures and other financing uses | 2,048,186 | 3,656,499 | 1,773,598 | 19,318 | 42,420 | 26,309 | 63,442 |
| Fund balances (deficits) at beginning of year | | (521) | (21,034) | (81,122) | (521) | (42,420) | 6,022 | _ |
| | Fund balances (deficits) at beginning of year | 73,877 | 23,116 | 291,296 | 17,671 | 57,718 | 5,473 | |
| Fund balances (deficits) at end of year | Fund balances (deficits) at end of year | \$ 73,356 | \$ 2,082 | \$ 210,174 | \$ 17,150 | \$ 15,298 | \$ 11,495 | \$ |

| | | | | Spe | cial Revenue | | | | | |
|---------------------------------------|----------------------------------|-------------|---|--|-----------------|--|---|--------------------------------|---------------------------------|--|
| MBTA State & Local Contribution | Communit Preservatio Trust | y n | Health Insurance Portability and Accountability Act | Division of Professional Licensure | Enhanced 911 | Health Information Technology Trust | Regional Greenhouse Gas Initiative (RGGI) Auction Trust | Workforce Training Trust | Child Support Enforcement | Department of Industrial Accidents |
| \$ 997,277 | | 576 | \$ | \$ — | \$ | \$ — | \$ | \$ 24,600 | \$ | \$ |
| 163,998 | | _ | 14,189 | _ | _ | 67,717 | _ | _ | 25,210 | 21,970 |
| _ | | — 97 | | 10,998 | 105,827 196 | — — | 34,582 | _ | 4,898 131 | 5,911 24 |
| 1,161,275 | 26,7 | | 14,189 | 10,998 | 106,023 | 67,717 | 34,582 | 24,600 | 30,239 | 27,905 |
| | | | | | | | | | | |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | | | | | | 8,853 | | | | |
| 1,161,275 | | <u>-</u> | 14,189 | 10,998 | 106,023 | 8,853 76,570 | 34,582 | 24,600 | 30,239 | 27,905 |
| 1,101,270 | | | | | 100,020 | | | 21,000 | | 2.,500 |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 1,161,275 | | _ | _ | _ | _ | _ | _ | _ | 7 | _ |
| _ | | _ | _ | _ | | _ | _ | | _ | _ |
| _ | | _ | _ | _ | _ | _ | _ | _ | 214 | _ |
| _ | | _ | _ | _ | 4,868 | _ | _ | _ | _ | _ |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 24,1 | — 82 | _ | _ | 1,037 | _ | _ | _ | 30,254 | _ |
| _ | 21,1 | _ | _ | _ | - 1,057 | _ | 44,346 | _ | - 50,254 | _ |
| _ | | _ | _ | _ | 57 | _ | _ | _ | _ | _ |
| _ | | _ | _ | _ | | _ | _ | | _ | _ |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | | _ | _ | 8,374 | 95,703 | _ | _ | _ | _ | _ |
| | | _ | | - 0,374 | | _ | | 25,386 | | 747 |
| _ | | _ | 13,821 | _ | _ | 116,143 | _ | _ | _ | _ |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | | _ | | | | | | | | _ |
| 1,161,275 | 24,1 | 82 | 13,821 | 8,374 | 101,665 | 116,143 | 44,346 | 25,386 | 30,475 | 747 |
| _ | | _ | _ | | | | _ | _ | | |
| _ | | 42 | 390 | 2,398 | 5,041 | 1,589 | _ | 98 — | 3,542 | 23,937 |
| _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| _ | | 42 | 390 | 2,398 | 5,041 | 1,589 | | 98 | 3,542 | 23,937 |
| 1,161,275 | 24,2 | 224 | 14,211 | 10,772 | 106,706 | 117,732 | 44,346 | 25,484 | 34,017 | 24,684 |
| _ | 2,5 | 49 | (22) | 226 | (683) | (41,162) | (9,764) | (884) | (3,778) | 3,221 |
| | (5,0 | <u>(57)</u> | 7,643 | 4,792 | 123,354 | (3,962) | 26,704 | 43,236 | 21,498 | 12,475 |
| ¢ | \$ (2.5 | (80 | \$ 7,621 | \$ 5,018 | \$ 122,671 | \$ (45,124) | \$ 16,940 | \$ 42,352 | \$ 17,720 | \$ 15,696 |

continued

Combining Statement of Revenues, Expenditures and Changes in Fund Balances

Other Governmental Funds

Fiscal Year Ended June 30, 2017

(Amounts in thousands)

| | | S | Special Revenue | | | |
|--|--|-------------------------------------|-----------------------------------|---------------------|-------------------|--------------|
| | Convention and Exhibition Center | Grant Anticipation Note Trust | Massachusetts Tourism Trust | Expendable Trust | Other | Debt Service |
| REVENUES | | | | | | |
| Taxes | . \$ 134,958 | \$ — | \$ 10,097 | \$ - \$ | 1,010 | \$ — |
| Assessments | | | _ | 83,126 | 25,883 | |
| Federal grants and reimbursements | | 536,280 | _ | 26,810 | 819 | 46,778 |
| Departmental | | | _ | 64,305 | 71,711 | _ |
| Miscellaneous Total revenues | | 536,871 | 10,097 | 477,467 651,708 | 10,535 109,958 | 46,778 |
| | 133,370 | 330,071 | 10,077 | 031,700 | 107,750 | 40,770 |
| OTHER FINANCING SOURCES | | | | | | 120.250 |
| Bonds premium | | _ | _ | _ | _ | 420,260 |
| Issuance of general and special obligation bonds Issuance of current refunding bonds | | _ | _ | _ | _ | 188,490 |
| Issuance of advance refunding bonds | | | | _ | | 1,664,790 |
| Transfers in for debt service | | | | | | 2,431,826 |
| Transfers in | | 36,046 | | 29,986 | 87,662 | 2,431,620 |
| Total other financing sources | | 36,046 | | 29,986 | 87,662 | 4,705,366 |
| Total revenues and other financing sources | | 572,917 | 10,097 | 681,694 | 197,620 | 4,752,144 |
| _ | 100,070 | 372,717 | 10,057 | 001,054 | 177,020 | 4,752,144 |
| EXPENDITURES | | | | | | |
| Current: | | | | 455 | | |
| Judiciary | | _ | _ | 455 | 1 | _ |
| Inspector General | | _ | _ | - 22 | _ | _ |
| Governor and Lieutenant Governor Secretary of the Commonwealth | | _ | _ | 33 | 3,730 | _ |
| Treasurer and Receiver-General | | 184 | | 98,628 | 25 | 17,230 |
| Auditor of the Commonwealth | | | | 104 | | 17,230 |
| Attorney General | | _ | _ | 4,485 | 698 | _ |
| District Attorney | | _ | _ | 7,135 | 275 | _ |
| Sheriff's Departments | | _ | _ | 3,885 | 692 | _ |
| Disabled Person Protection Commission | | _ | _ | _ | _ | _ |
| Board of Library Commissioners | . — | _ | _ | _ | _ | _ |
| Massachusetts Gaming Commission | _ | _ | _ | _ | 16,268 | _ |
| Comptroller | . — | _ | _ | 485 | 2,022 | _ |
| Administration and Finance | . 41,295 | _ | _ | 64,751 | 3,616 | _ |
| Energy and Environmental Affairs | | _ | _ | 69,428 | 31,062 | _ |
| Health and Human Services | | _ | _ | 104,542 | 31,206 | _ |
| Massachusetts Department of Transportation | | _ | _ | | | _ |
| Executive Office of Education | | _ | _ | 13,802 | 1,188 | _ |
| Center for Health and Information Analysis | | _ | _ | 77 | 8,805 | _ |
| Public Safety and Homeland Security Housing and Economic Development | | _ | 6,468 | 8,184 21.714 | 4,069 | _ |
| Labor and Workforce development | | | 0,406 | 58,500 | 5,147 | |
| Medicaid | | _ | _ | 15,644 | 3,147 | _ |
| Post employment benefits | | _ | _ | | _ | _ |
| Direct local aid | | _ | _ | _ | 63,970 | _ |
| Capital outlay: | | | | | * ' | |
| Capital acquisition and construction | . — | _ | _ | _ | _ | _ |
| Debt service | . – | _ | _ | _ | _ | 2,478,553 |
| Principal on current refundings | | | | | | 188,490 |
| Total expenditures | 41,295 | 184 | 6,468 | 471,852 | 172,775 | 2,684,273 |
| OTHER FINANCING USES | | | | | | |
| Payments to refunding bond escrow agent | . — | _ | _ | _ | _ | 2,079,768 |
| Transfers out | . — | 489,130 | 3,100 | 200,823 | 18,505 | 8,216 |
| Transfers of appropriations | _ | _ | _ | 1,261 | _ | _ |
| Transfers of bond proceeds | . – | _ | _ | _ | _ | _ |
| Transfers out for debt service | | 80,359 | | | 12,250 | |
| Total other financing uses | | 569,489 | 3,100 | 202,084 | 30,755 | 2,087,984 |
| Total expenditures and other financing uses | 95,835 | 569,673 | 9,568 | 673,936 | 203,530 | 4,772,257 |
| Excess (deficiency) of revenues and other financing sources over expenditures and other financing uses | 39,541 | 3,244 | 529 | 7,758 | (5,910) | (20,113) |
| Fund balances (deficits) at beginning of year | 105,179 | 86,608 | 6,186 | 645,296 | 115,299 | 20,647 |
| Fund balances (deficits) at end of year | \$ 144,720 | \$ 89,852 | \$ 6,715 | \$ 653,054 \$ | 109,389 | \$ 534 |

| General Capital Capital Projects Convention Exhibition Center Highway Expision Program Federal Highway Construction Program Total \$ - S - S - S - S - S - S - S - S - T 790,011 - S - S - S - S - S - S - S - T 790,011 - T 790,011 \$ 53,308 - S - S - S - S - S - S - S - S - S - | | | Capital Projects | s | | |
|---|------------|-------------------|------------------|-------------------------|----------|--------------|
| 53,308 — 5,046 — 4,561,223 — — 12,946 — 504,049 53,308 — 12,946 7,803 — 9,907,011 161,491 — 119,744 — — 701,495 1,747,599 — 1,23,051 — — 2,870,650 — — — 600,302 — 2,431,856 — — — 600,302 — 1,415,160 1,909,090 — 1,242,795 600,302 — 9,272,411 1,962,398 — 1,255,741 608,105 — 19,179,422 — — — — 2,213 — 2,213 — — — — 1,212,795 600,302 — 9,272,411 1,99,099 — 1,242,795 600,302 — 9,272,411 1,99,099 — 1,242,795 600,302 — 9,272,411 1,99,099 — 1,242,795 | Capital | and Exhibition | Capital | Highway Construction | Other | Total |
| 53,308 — — 2,757 — 1,329,143 — — 1,2946 — — 504,049 53,308 — 112,946 — — 504,049 53,308 — 119,744 — — 701,495 1,747,599 — 1,123,051 — — 2,870,650 — — — — — 1,664,790 — — — — — 2,431,826 — — — — — 2,431,826 — — — — — 2,431,826 1,990,990 — 1,242,795 600,302 — 9,272,411 1,962,398 — 1,255,741 608,105 — 9,272,411 1,962,398 — 1,242,795 600,302 — 9,272,411 1,962,398 — 1,242,795 600,302 — 9,272,411 1,962,398 — — | \$ — | \$ — | s — | s — | s — | |
| — — 1.2946 — 5.504,049 53,308 — 12,946 7,803 — 9,907,011 161,491 — 119,744 — — 2,870,650 1,747,599 — 1,123,051 — — 2,870,650 — — — — 1,664,790 — — — — 1,664,790 — — — — 2,431,854 — — — 600,302 — 9,272,411 1,909,090 — 1,242,795 600,302 — 9,272,411 1,902,398 — 1,255,741 608,105 — 19,179,422 — — — — 2,123 — — — — 2,123 — — — — 2,123 — — — — — 9,751 — 5,912 — 1,225,081 | 53 308 | _ | _ | 5.046 | _ | |
| - 12,946 7,803 - 504,049 53,308 - 12,946 7,803 - 9,907,011 161,491 - 119,744 - - 701,495 1,747,599 - 1,123,051 - 2,870,650 - - - - 1,664,790 - - - - 2,431,826 - - - 600,302 - 1,241,5160 - - - 600,302 - 9,272,411 1,962,398 - 1,255,741 608,105 - 19,179,422 - - - - 2,123 - - 2,272,411 - - - - - 2,272,411 1,194,22 - - 2,272,411 1,194,22 - - 2,272,411 - - - - 2,2123 - - - - 2,2123 - - - - </td <td>55,506</td> <td></td> <td></td> <td></td> <td></td> <td></td> | 55,506 | | | | | |
| 161,491 | | | | | | |
| 1,747,599 | 53,308 | | 12,946 | 7,803 | | 9,907,011 |
| 1,747,599 | 161.491 | _ | 119.744 | _ | _ | 701.495 |
| — — — 1.664,790 — — — 2,431,826 1,999,999 — 1,242,795 600,302 — 9,272,411 1,962,398 — 1,255,741 608,105 — 19,179,422 — — — — 2,123 — — — — 2,123 — — — — 2,123 — — — — 2,123 — — — — 2,123 — — — — 2,183 — — — — 1,295,081 — — — — 1,295,081 — — — — 2,9001 — — — — — 2,901 — — — — — 1,345 — — — — — — — 1,145 | | _ | | _ | _ | |
| — — — 2,431,826 1,909,090 — 1,242,795 600,302 — 1,415,160 1,962,398 — 1,255,741 608,105 — 19,179,422 — — — — 2,123 — — — — 2,123 — — — — 2,123 — — — — 2,123 — — — — 2,123 — — — — — 2,123 — — — — — 2,185 — — — — — 104 — 9,751 — 5,912 — — 104 — 9,751 — 5,912 — — — 104 — — — — — — — — — — — — — — </td <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td></td> | _ | _ | _ | _ | _ | |
| 1,909,090 | _ | _ | _ | _ | _ | |
| 1,909,090 | | | _ | 600 302 | | |
| 1,962,398 | 1.909.090 | | 1.242.795 | | | |
| — — — 218 — — — 33 — — — 1,295,081 — — — 104 — — — 29,001 — — — 10,177 — — — — — — — 13,452 — — — — — — — — — — — 159 — — — — — — — 2,854 — — — 36,749 — — — 2,507 — — — 196,992 — — — 188,2795 94,184 — 1,069,042 599,024 — 2,390,620 — — — — 1,2285 — — — 2,2185 | | | | | | |
| — — — 218 — — — 33 — — — 1,295,081 — — — 104 — — — 29,001 — — — 10,177 — — — — — — — 13,452 — — — — — — — — — — — 159 — — — — — — — 2,854 — — — 36,749 — — — 2,507 — — — 196,992 — — — 188,2795 94,184 — 1,069,042 599,024 — 2,390,620 — — — — 1,2285 — — — 2,2185 | _ | _ | _ | _ | _ | 2 123 |
| − − − 4,865 9,751 − 5,912 − − 1,295,081 − − − − 29,001 − − − 10,177 − − − 13,452 − − − 2,854 − − − 36,749 − − − 321,429 − − − 321,429 − − − 321,429 − − − 321,429 − − − 321,429 − − − 321,429 − − − 196,992 − − − 1892,795 94,184 − 1,069,042 599,024 − 2,390,620 − − − − 255,080 − − − 255,080 − − 2554,190 −< | _ | _ | _ | _ | _ | |
| 9,751 — 5,912 — — 104 — — — — 29,001 — — — — 10,177 — — — — 13,452 — — — — 13,452 — — — — 13,452 — — — — 2,884 — — — — 2,507 — — — — 2,507 — — — — 196,992 — — — — 1,969 94,184 — 1,069,042 599,024 — 2,390,620 — — — — 2,252,080 — — — — 254,190 — — — — 252,080 — — — — 254,855 — — — — 1,5948 — — — — 1,5948 | _ | _ | _ | _ | _ | |
| — — — 104 — — — 29,001 — — — 10,177 — — — 13,452 — — — 159 — — — 2,854 — — — 36,749 — — — 321,429 — — — 196,992 — — — 1892,795 94,184 — 1,069,042 599,024 — 2,390,620 — — — — 1,027,852 — — 1,027,852 — — 1,027,852 — — 1,027,852 — — — 254,190 — — 254,190 — — 254,190 — — 252,080 — — — 252,080 — — — 1,696,339 — — — — — — 215,156 | _ | _ | _ | _ | _ | |
| — — — 29,001 — — — 10,177 — — — 159 — — — 2,854 — — — 36,749 — — — 2,507 — — — 196,992 — — — 1,892,795 — — — — — — — 1,969,922 — — — — — — — — 94,184 — 1,069,042 599,024 — 2,390,620 — — — — 2,254,190 — 2,102,852 — — — — 2,254,190 — 2,254,190 — 2,251,156 — — 2,251,156 — — — 2,251,156 — — — — 1,59488 — — — — <td>9,751</td> <td>_</td> <td>5,912</td> <td>_</td> <td>_</td> <td></td> | 9,751 | _ | 5,912 | _ | _ | |
| — — — — 10,177 — — — — 13,452 — — — — 159 — — — — 2,854 — — — — 36,749 — — — — 2,507 — — — — 196,992 — — — — 196,992 — — — — 196,992 — — — — 1,892,795 94,184 — 1,069,042 599,024 — 2,390,620 — — — — 1,027,852 — — 2,390,620 — — — — — 2,390,620 — — 2,390,620 — — — — — 2,254,190 — 2,254,190 — — — — — | | | | | | |
| — — — — 13,452 — — — — 159 — — — — 2,854 — — — — 36,749 — — — — 2,507 — — — — 196,992 — — — — 196,992 — — — — 1,892,795 94,184 — 1,069,042 599,024 — 2,390,620 — — — — 1,027,852 — — — — 285 — — — — 254,190 — — — — 252,080 — — — — 252,080 — — — — 252,080 — — — — 1,696,359 — — — — — 1,696,359 — — — — — 2,478,553< | | | _ | | | |
| — — — — 159 — — — 2,854 — — — — 36,749 — — — — 2,507 — — — — 196,992 — — — — 1,892,795 94,184 — 1,069,042 599,024 — 2,390,620 — — — — 1,027,852 — — — — 1,027,852 — — — — 1,027,852 — — — — 285 — — — — 254,190 — — — — 252,080 — — — — 252,080 — — — — 15,948 — — — — 16,96,359 — — — — 1,201,681 — — — — 2,478,553 — | _ | _ | _ | _ | _ | |
| — — — 36,749 — — — 2,507 — — — 321,429 — — — 196,992 — — — 1,892,795 94,184 — 1,069,042 599,024 — 2,390,620 — — — — 1,027,852 — — 1,027,852 — — — — — 285 — — 254,190 — — — — 255,080 — — 255,080 — — — — — 255,080 — — — — 1,696,359 — — — — 15,948 — — — — 15,948 — — — — — 2478,553 — — — — — 2478,553 — | _ | _ | _ | _ | _ | |
| — — — 2,507 — — — 321,429 — — — 196,992 — — — 1,892,795 94,184 — 1,069,042 599,024 — 2,390,620 — — — — — 1,027,852 — — 1,027,852 — — 2,390,620 — — 2,390,620 — — 1,027,852 — — — 1,027,852 — — — 254,190 — — 254,190 — — 254,190 — — — 2525,080 — — — 215,156 — — — 215,156 — — — 215,156 — — — 215,156 — — — — — — 15,948 — — — — — — — — — — — — — | _ | _ | _ | _ | _ | |
| — — — — 321,429 — — — — 196,992 — — — — 1,892,795 94,184 — 1,069,042 599,024 — 2,390,620 — — — — — 1,027,852 — — — — 285 — — — — 254,190 — — — — 525,080 — — — — 1,696,359 — — — — 15,948 — — — — 15,948 — — — — 63,970 1,193,117 — 5,945 2,118 501 1,201,681 — — — — — 2,478,553 — — — — 2,478,553 — — — — 2,079,768 | _ | _ | _ | _ | _ | |
| — — — — 196,992 — — — — 1,892,795 94,184 — 1,069,042 599,024 — 2,390,620 — — — — — 1,027,852 — — — — 285 — — — — 254,190 — — — — 525,080 — — — — 1,696,359 — — — — 1,696,359 — — — — 1,5948 — — — — 63,970 1,193,117 — 5,945 2,118 501 1,201,681 — — — — 2,478,553 — — — — 2,478,553 — — — — 2,478,553 — — — — 2,079,768 | _ | _ | _ | _ | _ | |
| 94,184 — 1,069,042 599,024 — 2,390,620 — — — — 1,027,852 — — — — 285 — — — — 254,190 — — — — 525,080 — — — — 215,156 — — — — 1,696,359 — — — — 15,948 — — — — 63,970 1,193,117 — 5,945 2,118 501 1,201,681 — — — — 2,478,553 — — — — 2,478,553 — — — — 188,490 1,297,052 — 1,080,899 601,142 501 13,866,723 — — — — — 2,079,768 14,044 — 111,172 11 — 1,432,834 — — — — — <td< td=""><td>_</td><td>_</td><td>_</td><td>_</td><td>_</td><td></td></td<> | _ | _ | _ | _ | _ | |
| — — — — 1,027,852 — — — 285 — — — 254,190 — — — 525,080 — — — 115,156 — — — — 1696,359 — — — — 63,970 1,193,117 — 5,945 2,118 501 1,201,681 — — — — 2,478,553 — — — — 2,478,553 — — — — 188,490 1,297,052 — 1,080,899 601,142 501 13,866,723 — — — — — 2,079,768 14,044 — 111,172 11 — 1,432,834 — — — — — 1,26,13 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504 | _ | _ | _ | _ | _ | |
| — — — 285 — — — 254,190 — — — 525,080 — — — 215,156 — — — 1,696,359 — — — — 15,948 — — — — 63,970 1,193,117 — 5,945 2,118 501 1,201,681 — — — — 2,478,553 — — — — 2,478,553 — — — — 2,478,553 — — — — 188,490 1,297,052 — 1,080,899 601,142 501 13,866,723 — — — — — 2,079,768 14,044 — 111,172 11 — 1,432,834 — — — — — 1,261 193,632 — — — — 1,242,257 207,676 — 111,172 | 94,184 | _ | 1,069,042 | 599,024 | _ | 2,390,620 |
| — — — — 254,190 — — — 525,080 — — — 215,156 — — — 1,696,359 — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — 1,297,052 — 1,080,899 601,142 501 13,866,723 | _ | _ | _ | _ | _ | |
| — — — 525,080 — — — 215,156 — — — 1,696,359 — — — — 15,948 — — — — 63,970 1,193,117 — 5,945 2,118 501 1,201,681 — — — — 2,478,553 — — — — 2,478,553 — — — — 2,2478,553 — — — — 188,490 1,297,052 — 1,080,899 601,142 501 13,866,723 — — — — — 2,079,768 14,044 — 111,172 11 — 1,432,834 — — — — — 1,261 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 </td <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td></td> | _ | _ | _ | _ | _ | |
| — — — — 215,156 — — — 1,696,359 — — — 15,948 — — — 63,970 1,193,117 — 5,945 2,118 501 1,201,681 — — — — 2,478,553 — — — — 2,478,553 — — — — 2,2478,553 — — — — 2,2478,553 — — — — 2,2478,553 — — — — 2,2478,553 — — — — 2,2478,553 — — — — — 2,2478,553 — — — — — 2,2478,553 — — — — — 2,279,768 14,044 — 111,172 11 — — 1,241 193,632 — — — — 1,242,257 207,676 | | | _ | | | |
| — — — — 15,948 — — — 63,970 1,193,117 — 5,945 2,118 501 1,201,681 — — — — 2,478,553 — — — — 188,490 1,297,052 — 1,080,899 601,142 501 13,866,723 — — — — 2,079,768 14,044 — 111,172 11 — 1,432,834 — — — — 1,261 193,632 — — — 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | _ | _ | _ | _ | _ | |
| — — — — 63,970 1,193,117 — 5,945 2,118 501 1,201,681 — — — — 2,478,553 — — — — 188,490 1,297,052 — 1,080,899 601,142 501 13,866,723 — — — — 2,079,768 14,044 — 111,172 11 — 1,432,834 — — — — 1,261 193,632 — — — 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | _ | _ | _ | _ | _ | 1,696,359 |
| 1,193,117 — 5,945 2,118 501 1,201,681 — — — — 2,478,553 — — — — 188,490 1,297,052 — 1,080,899 601,142 501 13,866,723 — — — — 2,079,768 14,044 — 111,172 11 — 1,432,834 — — — — 1,261 193,632 — — — 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | _ | _ | _ | _ | _ | - / |
| — — — — 2,478,553 1,297,052 — 1,080,899 601,142 501 13,866,723 — — — — 2,079,768 14,044 — 111,172 11 — 1,432,834 — — — — 1,261 193,632 — — — 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | _ | _ | _ | _ | _ | 63,970 |
| — — — — 188,490 1,297,052 — 1,080,899 601,142 501 13,866,723 — — — — 2,079,768 14,044 — 111,172 11 — 1,432,834 — — — — 1,261 193,632 — — — 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | 1,193,117 | _ | 5,945 | 2,118 | 501 | |
| 1,297,052 — 1,080,899 601,142 501 13,866,723 — — — — 2,079,768 14,044 — 111,172 11 — 1,432,834 — — — — 1,261 193,632 — — — — 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | _ | _ | _ | _ | _ | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1,297,052 | | 1.080.899 | 601.142 | 501 | |
| 14,044 — 111,172 11 — 1,432,834 — — — — 1,261 193,632 — — — — 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | | | | | | |
| 193,632 — — — 193,632 — — — — 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | _ | _ | _ | _ | _ | |
| 193,632 — — — — 193,632 — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | 14,044 | _ | 111,172 | 11 | _ | |
| — — — — 1,242,257 207,676 — 111,172 11 — 4,949,752 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | 193,632 | _ | _ | _ | _ | |
| 1,504,728 — 1,192,071 601,153 501 18,816,475 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | | | | | | 1,242,257 |
| 457,670 — 63,670 6,952 (501) 362,947 (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | | | | | | |
| (212,888) 8,393 (275,432) (16,719) 11 1,182,414 | 1,504,728 | | 1,192,071 | 601,153 | 501 | 18,816,475 |
| | 457,670 | _ | 63,670 | 6,952 | (501) | 362,947 |
| <u>\$ 244,782</u> <u>\$ 8,393</u> <u>\$ (211,762)</u> <u>\$ (9,767)</u> <u>\$ (490)</u> <u>\$ 1,545,361</u> | (212,888) | 8,393 | (275,432) | (16,719) | 11_ | 1,182,414 |
| | \$ 244,782 | \$ 8,393 | \$ (211,762) | \$ (9,767) | \$ (490) | \$ 1,545,361 |

$Combining\ Statement\ of\ Revenues,\ Expenditures\ and\ Changes\ in\ Fund\ Balances\ -\ Budgetary\ Basis\ -\ Budget\ and\ Actual$

Other Budgeted Nonmajor Governmental Funds

Fiscal Year Ended June 30, 2017 (Amounts in thousands)

| | Cor | nmonwealth Tr | ansportation Fu | ind | | Environme | ental Funds | |
|--|--------------------|-----------------|-----------------|-------------|--------------------|-----------------|-------------|----------|
| | Original Budget | Final Budget | Actual | Variance | Original Budget | Final Budget | Actual | Variance |
| REVENUES AND OTHER FINANCING SOU | RCES | | | | | | | |
| Revenues: | | | | | | | | |
| Taxes | \$ 1,347,500 | \$ 1,347,500 | \$ 1,316,807 | \$ (30,693) | \$ 1,000 | \$ 1,000 | \$ 1,007 | \$ 7 |
| Assessments | 13,296 | 13,296 | 22,464 | 9,168 | _ | _ | _ | _ |
| Federal grants and reimbursements | _ | _ | _ | _ | 6,200 | 6,200 | 7,452 | 1,252 |
| Departmental | 663,216 | 663,301 | 666,638 | 3,337 | 8,468 | 8,468 | 8,795 | 327 |
| Miscellaneous | 217 | 217 | 240 | 23 | 34 | 34 | 254 | 220 |
| Total revenues | 2,024,229 | 2,024,314 | 2,006,149 | (18,165) | 15,702 | 15,702 | 17,508 | 1,806 |
| Other financing sources: | | | | | | | | |
| Operating transfers in | 40,000 | 40,000 | 40,000 | _ | 182 | 182 | 191 | 9 |
| Other fund deficit support | _ | _ | _ | _ | _ | _ | _ | _ |
| Total other financing sources | 40,000 | 40,000 | 40,000 | | 182 | 182 | 191 | 9 |
| Total revenues and other financing sources | 2,064,229 | 2,064,314 | 2,046,149 | (18,165) | 15,884 | 15,884 | 17,699 | 1,815 |
| EXPENDITURES AND OTHER FINANCING | USES | | | | | | | |
| Expenditures: | | | | | | | | |
| Treasurer and Receiver-General | 259,778 | | | | | | | |
| Attorney General | 239,776 | | | | | | | |
| Sheriffs' Department | | | | | | | | |
| Administration and Finance | | | | | 162 | 162 | 126 | 36 |
| Energy and Environmental Affairs | _ | _ | _ | _ | 18,047 | 19,047 | 15,808 | 3,239 |
| Health and human services | _ | _ | _ | _ | | | | |
| Massachusetts Department of Transportation | 187,000 | 187,000 | 140,250 | 46,750 | _ | _ | _ | _ |
| Public Safety and Homeland Security | _ | _ | _ | _ | _ | _ | _ | _ |
| Direct local aid | _ | _ | _ | _ | _ | _ | _ | _ |
| Post employment benefits | _ | _ | 15,948 | (15,948) | _ | | _ | _ |
| Debt service: | | | ,- | (,) | | | | |
| Principal retirement | _ | 621,644 | 595,516 | 26,128 | _ | _ | _ | _ |
| Interest and fiscal charges | _ | 539,365 | 499,592 | 39,773 | _ | _ | _ | _ |
| Total expenditures | 446,778 | 1,348,009 | 1,251,306 | 96,703 | 18,209 | 19,209 | 15,934 | 3,275 |
| Other financing uses: | | | | | | | | |
| Fringe benefit cost assessment | _ | _ | _ | _ | _ | _ | 3,384 | (3,384) |
| Operating transfers out | 434,781 | 644,443 | 648,656 | (4,213) | _ | _ | _ | _ |
| Other fund deficit support | _ | _ | 144,797 | (144,797) | _ | _ | _ | _ |
| Total other financing uses | 434,781 | 644,443 | 793,453 | (149,010) | | | 3,384 | (3,384) |
| Total expenditures and other financing uses | 881,559 | 1,992,452 | 2,044,759 | (52,307) | 18,209 | 19,209 | 19,318 | (109) |
| Excess/(deficiency) of revenues and other | | | | | | | | |
| financing sources over/(under) expenditures and other financing uses | \$ 1,182,670 | \$ 71,862 | 1,390 | \$ (70,472) | \$ (2,325) | \$ (3,325) | (1,619) | \$ 1,706 |
| Fund balances at beginning of year | | | 16,690 | | | | 17,301 | |
| Fund halances at end of year | | | \$ 18.080 | | | | \$ 15.682 | |
| Fund balances at end of year | | | \$ 18,080 | | | | \$ 15,682 | |

| | | Public Safety | Trust Fund | | | Community Fi | rst Trust Fund | i | | Gaming Loc | cal Aid Fund | |
|------------|---------------|-----------------|---|---------------------------------------|-----------------------|-----------------|----------------|----------|-----------------------|-----------------------|-----------------------|-----------------------|
| Orig Bu | ginal dget | Final Budget | Actual | Variance | Original Budget | Final Budget | Actual | Variance | Original Budget | Final Budget | Actual | Variance |
| \$ | _ | \$ — | \$ — | \$ — | \$ — | \$ — | s – | \$ — | \$ — | \$ — | \$ — | \$ — |
| | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 800 | 800 | 1,171 | 371 | _ | _ | _ | _ | _ | _ | _ | _ |
| | | | | | | | | | | | | |
| | 800 | 800 | 1,171 | 371 | | | | | | | | |
| | _ | _ | _ | _ | _ | _ | _ | _ | 64,000 | 64,000 | 63,442 | (558) |
| | | | | | | | | | | | 528 | 528 |
| | | | | | | | | | 64,000 | 64,000 | 63,970 | (30) |
| | 800 | 800 | 1,171 | 371 | | | | | 64,000 | 64,000 | 63,970 | (30) |
| | | | - 1 10 - - - - 670 | - 1 - - - - - 21 | - - - - - | 31,976 | 31,616 | | - - - - - | - - - - - | - - - - - | - - - - - |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | 63,973 | 63,970 | 3 |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | | | | | | | | | | | | |
| | | 703 | 681 | 22 | | 31,976 | 31,616 | 360 | | 63,973 | 63,970 | 3 |
| | _ | _ | 88 | (88) | _ | _ | 968 | (968) | _ | _ | _ | _ |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | | | | | | | | | | | | |
| | | | 88 | (88) | | | 968 | (968) | | | | |
| | | 703 | 769 | (66) | | 31,976 | 32,584 | (608) | | 63,973 | 63,970 | 3 |
| \$ | 800 | \$ 97 | 402 2,490 | \$ 305 | \$ | \$ (31,976) | (32,584) | \$ (608) | \$ 64,000 | \$ 27 | | \$ (27) |
| | | | \$ 2,892 | | | | \$ 12,037 | | | | \$ <u> </u> | |

continued

Combining Statement of Revenues, Expenditures and Changes in Fund Balances - Budgetary Basis - Budget and Actual Other Budgeted Nonmajor Governmental Funds

Fiscal Year Ended June 30, 2017 (Amounts in thousands)

| | Lo | ocal Aid Stabili | ization Fund | <u> </u> | | Tot | als | |
|--|--------------------|------------------|--------------|----------|--------------------|-----------------|--------------|-------------|
| | Original Budget | Final Budget | Actual | Variance | Original Budget | Final Budget | Actual | Variance |
| REVENUES AND OTHER FINANCING SOU | RCES | | | | | | | |
| Revenues: | | | | | | | | |
| Taxes | \$ — | \$ | \$ — | \$ — | \$1,348,500 | \$ 1,348,500 | \$ 1,317,814 | \$ (30,686) |
| Assessments | _ | _ | _ | _ | 13,296 | 13,296 | 22,464 | 9,168 |
| Federal grants and reimbursements | _ | _ | _ | _ | 6,200 | 6,200 | 7,452 | 1,252 |
| Departmental | _ | _ | _ | _ | 672,484 | 672,569 | 676,604 | 4,035 |
| Miscellaneous | | | | | 251 | 251 | 494 | 243 |
| Total revenues | | | | | 2,040,731 | 2,040,816 | 2,024,828 | (15,988) |
| Other financing sources: | | | | | | | | |
| Operating transfers in | _ | _ | _ | _ | 104,182 | 104,182 | 103,633 | (549) |
| Other fund deficit support | | | | | | | 528 | 528 |
| Total other financing sources | _ | _ | _ | _ | 104,182 | 104,182 | 104,161 | (21) |
| Total revenues and other financing sources | | | | | 2,144,913 | 2,144,998 | 2,128,989 | (16,009) |
| EXPENDITURES AND OTHER FINANCING | USES | | | | | | | |
| Expenditures: | | | | | | | | |
| Treasurer and Receiver-General | _ | _ | _ | _ | 259,778 | _ | _ | _ |
| Attorney General | _ | _ | _ | _ | _ | 2 | 1 | 1 |
| Sheriffs' Department | _ | _ | _ | _ | _ | 10 | 10 | _ |
| Administration and Finance | _ | _ | _ | _ | 162 | 162 | 126 | 36 |
| Energy and Environmental Affairs | _ | _ | _ | _ | 18,047 | 19,047 | 15,808 | 3,239 |
| Health and human services | _ | _ | _ | _ | _ | 31,976 | 31,616 | 360 |
| Massachusetts Department of Transportation | _ | _ | _ | _ | 187,000 | 187,000 | 140,250 | 46,750 |
| Public Safety and Homeland Security | _ | _ | _ | _ | _ | 691 | 670 | 21 |
| Direct Local Aid | _ | _ | _ | _ | _ | 63,973 | 63,970 | 3 |
| Post employment benefits | _ | _ | _ | _ | _ | _ | 15,948 | (15,948) |
| Debt service: | | | | | | | | |
| Principal retirement | _ | _ | _ | _ | _ | 621,644 | 595,516 | 26,128 |
| Interest and fiscal charges | _ | _ | _ | _ | _ | 539,365 | 499,592 | 39,773 |
| Total expenditures | | | | | 464,987 | 1,463,870 | 1,363,507 | 100,363 |
| Other financing uses: | | | | | | | | |
| Fringe benefit cost assessment | _ | _ | _ | _ | _ | _ | 4,440 | (4,440) |
| Operating transfers out | _ | _ | _ | _ | 434,781 | 644,443 | 648,656 | (4,213) |
| Other fund deficit support | | | | | | | 144,797 | (144,797) |
| Total other financing uses | | | | | 434,781 | 644,443 | 797,893 | (153,450) |
| Total expenditures and other financing uses | | | | | 899,768 | 2,108,313 | 2,161,400 | (53,087) |
| Excess/(deficiency) of revenues and other financing sources over/(under) expenditures and other financing uses | \$ <u> </u> | <u> </u> | _ | <u> </u> | \$1,245,145 | \$ 36,685 | (32,411) | \$ (69,096) |
| Fund balances at beginning of year | | | 50 | | | | 81,152 | |
| Fund balances at end of year | | | \$ 50 | | | | \$ 48,741 | |



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Combining Budget to GAAP Reconciliation

Other Budgeted Nonmajor Governmental Funds

Fiscal Year Ended June 30, 2017 (Amounts in thousands)

| | | mmonwealth ansportation Fund | En | vironmental Funds | Saf | Public fety Trust Fund* | | ommunity First Trust Fund |
|---|----|------------------------------------|-----------|----------------------|-----------|-------------------------------|-----------|---------------------------------|
| Total actual revenues - budgetary basis (pages 164–166) | \$ | 2,006,149 | \$ | 17,508 | \$ | 1,171 | \$ | _ |
| Adjustments: | | | | | | | | |
| Taxes receivable, net | | 1,774 | | 2 | | _ | | _ |
| Tax refunds and abatements payable, net | | (234) | | _ | | _ | | _ |
| Federal grants receivables, net | | _ | | 1,075 | | _ | | _ |
| Departmental and other receivables, net | | (24) | | 21 | | | | |
| Total actual revenues - GAAP basis (pages 160–163) | \$ | 2,007,665 | \$ | 18,606 | \$ | 1,171 | \$ | |
| Total actual other financing sources - budgetary basis (pages 164–166) ·· | \$ | 40,000 | \$ | 191 | \$ | _ | \$ | _ |
| Adjustments: MassDOT transfers in is reclassified to revenues | | _ | | _ | | _ | | _ |
| Total actual other financing sources - GAAP basis (pages 160–163) | - | 40,000 | \$ | 191 | \$ | | \$ | _ |
| Total actual expenditures- budgetary basis (pages 164–166) | \$ | 1,251,306 | \$ | 15,934 | \$ | 681 | \$ | 31,616 |
| Total actual experiences budgetary basis (pages 104 100) | Ψ | 1,201,000 | Ψ. | 10,55 | Ψ | 001 | Ψ | 51,010 |
| Adjustment: | | 2 427 | | | | | | |
| Due to component units accrual, net | | 3,427 | | _ | | _ | | _ |
| Reclassification: | | | | | | | | |
| MassDOT transfers out is reclassified to expenditures | | 609,610 | | _ | | _ | | _ |
| Debt service principal and interest payments are reclassified | | (1.005.100) | | | | | | |
| to transfers out to the debt service fund | | (1,095,108) | | _ | | _ | | 9,571 |
| | | | | | | | _ | |
| Total actual expenditures - GAAP basis (pages 160–163) | \$ | 769,235 | <u>\$</u> | 15,934 | <u>\$</u> | 681 | <u>\$</u> | 41,187 |
| Total actual other financing uses - budgetary basis (pages 164–166) | \$ | 793,453 | \$ | 3,384 | \$ | 88 | \$ | 968 |
| Reclassification: | | | | | | | | |
| MassDOT transfers out is reclassified to expenditures | | (609,610) | | _ | | _ | | _ |
| Debt service principal and interest payments are reclassified | | | | | | | | |
| to transfers out to the debt service fund | | 1,095,108 | | _ | | _ | | _ |
| Nonbudgeted fund included on a GAAP basis | | | | | | | | 265 |
| Total actual other financing uses - GAAP basis (pages 160–163) | \$ | 1,278,951 | \$ | 3,384 | \$ | 88 | \$ | 1,233 |

^{*} On a GAAP basis, the activity for the Public Safety Trust fund, the Gaming Local Aid fund and the Local Aid Stabilization Fund are combined in the other special revenue funds in the combined statement of revenues, expenditures and changes in fund balance. The revenues, other financing sources, expenditures and other financing uses of the other special revenue funds are \$109,958, \$87,662, \$172,775 and \$30,755, respectively (all amounts in thousands).

| Gaming Aid Fu | Local | Sta | ocal Aid bilization Fund* | | | Totals |
|------------------|--------|-----|---------------------------------|---|----|----------------------|
| \$ | _ | \$ | _ | _ | \$ | 2,024,828 |
| | | | | | | |
| | _ | | _ | _ | | 1,776 |
| | _ | | _ | _ | | (234) |
| | _ | | _ | _ | | 1,075 |
| | _ | | _ | _ | | (3) |
| \$ | _ | \$ | _ | _ | \$ | 2,027,442 |
| | | | | _ | | |
| Ф | 62.070 | Φ. | | | | 104.161 |
| \$ | 63,970 | \$ | _ | _ | | 104,161 |
| | | | | | | |
| | | | | _ | | |
| \$ | 63,970 | \$ | _ | _ | \$ | 104,161 |
| | | | | | | |
| \$ | 63,970 | \$ | | | | 1,363,507 |
| Ψ | 03,770 | Ψ | | | | 1,303,307 |
| | | | | | | |
| | _ | | _ | _ | | 3,427 |
| | | | | | | |
| | _ | | _ | _ | | 609,610 |
| | | | | | | (1.005.109) |
| | | | | _ | | (1,095,108) 9,571 |
| Φ. | | | | _ | | |
| \$ | 63,970 | \$ | | _ | \$ | 891,007 |
| | | | | | | |
| \$ | _ | \$ | _ | _ | \$ | 797,893 |
| | | | | | | |
| | _ | | _ | _ | | (609,610) |
| | | | | | | (,0) |
| | _ | | _ | _ | | 1,095,108 |
| | | | _ | _ | | 265 |
| \$ | | \$ | | _ | \$ | 1,283,656 |
| | | | | _ | _ | |

Combining Statement of Net Position Available for Post-Employment Benefits

Pension and OPEB Trust Funds

June 30, 2017 (Amounts in thousands)

| | Pension T | rust Fun | ds | OPEB Fui | | |
|--|-----------------------|----------------|---|---------------------------|------------------------|---|
| ASSETS | State Employees' PERS | Teacher's PERS | | State Retiree Benefits | | Total |
| Cash and cash equivalents Net investment in PRIT at fair value Other receivables Other assets | | \$ | 89,529 26,956,332 91,240 7,664 | \$ | 25,743 970,676 — | \$ 236,193 53,955,626 118,289 131,827 |
| Total assets | 26,300,751 | | 27,144,765 | 9 | 996,419 | 54,441,935 |
| LIABILITIES | | | | | | |
| Accounts payable | 18,519 | | 6,156 | | 12 | 24,687 |
| Net position available for post-employment benefits | \$ 26,282,232 | \$ | 27,138,609 | \$ 9 | 996,407 | \$ 54,417,248 |

Combining Statement of Changes in Net Position Available for Post-Employment Benefits

Pension and OPEB Trust Funds

Fiscal Year Ended June 30, 2017 (Amounts in thousands)

| | Pension T | rust Funds | OPEB Trust Fund | |
|--|-----------------------------|-------------------|---------------------------|---------------|
| | State Employees' PERS | Teacher's PERS | State Retiree Benefits | Total |
| ADDITIONS | | | | |
| Contributions: | | | | |
| Employer contributions - Commonwealth and MassDOT | \$ 716,266 | \$ — | \$ 465,449 | \$ 1,181,715 |
| Non-employer contributions - Commonwealth | 28,455 | 1,235,515 | _ | 1,263,970 |
| Employer and non-employer contributions - other | 7,999 | _ | _ | 7,999 |
| ERIP funding contribution - Commonwealth | 29,093 | _ | _ | 29,093 |
| Employee contributions | 604,772 | 730,212 | _ | 1,334,984 |
| Boston teachers' contribution from Commonwealth | _ | 132,477 | _ | 132,477 |
| Other additions | 232,548 | 91,269 | 784 | 324,601 |
| Total contributions | 1,619,133 | 2,189,473 | 466,233 | 4,274,839 |
| Net investment gain/(loss): | | | | |
| Investment gain/(loss) | 3,122,298 | 3,240,047 | 110,825 | 6,473,170 |
| Less: investment expense | (134,666) | (139,695) | (5,003) | (279,364) |
| Net Investment gain/(loss) | 2,987,632 | 3,100,352 | 105,822 | 6,193,806 |
| Total additions | 4,606,765 | 5,289,825 | 572,055 | 10,468,645 |
| DEDUCTIONS | | | | |
| Administration | 30,030 | 24,053 | 127 | 54,210 |
| Retirement benefits and refunds | 2,207,582 | 2,896,567 | 441,064 | 5,545,213 |
| Payments to State Boston Retirement System | _ | 132,477 | _ | 132,477 |
| Other deductions | 58,077 | 40,191 | 500 | 98,768 |
| Total deductions | 2,295,689 | 3,093,288 | 441,691 | 5,830,668 |
| Change in net position | 2,311,076 | 2,196,537 | 130,364 | 4,637,977 |
| Net position available for post-employment benefits at beginning of year | 23,971,156 | 24,942,072 | 866,043 | 49,779,271 |
| Net position available for post-employment benefits at end of year | \$ 26,282,232 | \$ 27,138,609 | \$ 996,407 | \$ 54,417,248 |

Combining Statement of Net Position Held in Trust for Pool Participants

External Investment Trust Funds

June 30, 2017

(Amounts in thousands)

| ASSETS | Massachusetts Municipal Depository Trust Pension Reserves Investment Trust | | | Total | |
|--|--|-----------|----|------------|------------------|
| AUGULO | | | | | |
| Cash and cash equivalents | \$ | 3,790,390 | \$ | _ | \$ 3,790,390 |
| Short-term investments | | 39,052 | | _ | 39,052 |
| Net investment in PRIT at fair value | | _ | | 12,894,815 | 12,894,815 |
| Receivables, net of allowance for uncollectibles: | | | | | |
| Other receivables | | 4,025 | | _ | 4,025 |
| Total assets | | 3,833,467 | | 12,894,815 | 16,728,282 |
| LIABILITIES | | | | | |
| Accounts payable | | 27,506 | | | 27,506 |
| Net position held in trust for pool/pension participants | \$ | 3,805,961 | \$ | 12,894,815 | \$ 16,700,776 |

Combining Statement of Changes in Net Position Held in Trust for Pool Participants

External Investment Trust Funds

Fiscal Year Ended June 30, 2017 (Amounts in thousands)

| | I | assachusetts Municipal ository Trust | sion Reserves estment Trust | Total | |
|---|----|--|--------------------------------|------------------|--|
| ADDITIONS | | | | | |
| Contributions: | | | | | |
| Other participant contributions | \$ | _ | \$ 994,315 | \$ 994,315 | |
| Proceeds from sale of units | | 26,870,148 | | 26,870,148 | |
| Total contributions | | 26,870,148 | 994,315 | 27,864,463 | |
| Net investment gain/(loss): | | | | | |
| Investment gain/(loss) | | 33,549 | 1,776,372 | 1,809,921 | |
| Less: investment expense | | (1,833) | (297,503) | (299,336) | |
| Net Investment gain/(loss) | | 31,716 | 1,478,869 | 1,510,585 | |
| Total additions | | 26,901,864 | 2,473,184 | 29,375,048 | |
| DEDUCTIONS | | | | | |
| Cost of units redeemed | | 26,255,251 | _ | 26,255,251 | |
| Distributions to unit holders from net interest income | | 32,235 | _ | 32,235 | |
| Retirement benefits and refunds | | | 1,054,703 | 1,054,703 | |
| Total deductions | | 26,287,486 | 1,054,703 | 27,342,189 | |
| Change in net position | | 614,378 | 1,418,481 | 2,032,859 | |
| Net position held in trust for pool/participants at beginning of year | | 3,191,583 | 11,476,334 | 14,667,917 | |
| Net position held in trust for pool/participants at end of year | \$ | 3,805,961 | \$ 12,894,815 | \$ 16,700,776 | |

Combining Statement of Changes in Assets and Liabilities

Agency Funds

Fiscal Year Ended June 30, 2017 (Amounts in thousands)

| <u>Central Agency Funds</u> | | Balance July 1, 2016 | | Additions | | Deductions | | Balance June 30, 2017 | |
|---|--------|--------------------------------------|--------|--|--------|---|----|--------------------------------------|--|
| ASSETS | | | | | | | | | |
| Cash and cash equivalents | \$ | 315,169 | \$ | 10,647,918 | \$ | (10,603,714) | \$ | 359,373 | |
| Investments, restricted investments and annuity contracts | | 1,194,945 | | 27,592 | | (160,187) | | 1,062,350 | |
| Taxes receivable | | 34,638 | | 37,578 | | (34,638) | | 37,578 | |
| Other receivables | | 6,703 | | 9,480 | | (6,703) | | 9,480 | |
| Total assets | \$ | 1,551,455 | \$ | 10,722,568 | \$ | (10,805,242) | \$ | 1,468,781 | |
| LIABILITES | | | | | | | | | |
| Accounts payable | \$ | 76,578 | \$ | 4,413,266 | \$ | (4,374,974) | \$ | 114,870 | |
| Due to cities and towns | | 46,754 | | 593,684 | | (592,902) | | 47,536 | |
| Due to federal government | | 4 | | 63 | | (66) | | 1 | |
| Lottery prizes payable | | 1,194,945 | | 27,592 | | (160,187) | | 1,062,350 | |
| Agency liabilities | | 233,174 | | 3,821,012 | | (3,810,162) | | 244,024 | |
| Total liabilities | \$ | 1,551,455 | \$ | 8,855,617 | \$ | (8,938,291) | \$ | 1,468,781 | |
| Court Escrow and Client Accounts ASSETS Cash and cash equivalents Other receivables Total assets | \$ | 175,617 126,565 302,182 | \$ | 1,557,579 121,437 1,679,016 | \$ | (1,562,946) (126,565) (1,689,511) | | 170,250 121,437 291,687 | |
| LIABILITES | | | | | | | | | |
| Accounts payable | \$ | 165 | \$ | 1,999,388 | \$ | (1,999,197) | \$ | 356 | |
| Agency liabilities | | 302,017 | | 792,990 | | (803,676) | | 291,331 | |
| Total liabilities | \$ | 302,182 | \$ | 2,792,378 | \$ | (2,802,873) | \$ | 291,687 | |
| Statutory Bonds and Deposits | | | | | | | | | |
| ASSETS | | | | | | | | | |
| Cash and cash equivalents | \$ | 96,309 | \$ | 729,940 | \$ | (725,091) | \$ | 101,158 | |
| Investments, restricted investments and annuity contracts | | 582,672 | | 24,854 | | (54,549) | | 552,977 | |
| Total assets | \$ | 678,981 | \$ | 754,794 | \$ | (779,640) | \$ | 654,135 | |
| LIABILITES | | | | | | | | | |
| Agency liabilities | \$ | 678,981 | \$ | 667,046 | \$ | (691,892) | \$ | 654,135 | |

Combining Statement Changes in Assets and Liabilities

Agency Funds

Fiscal Year Ended June 30, 2017 (Amounts in thousands)

| Total Agency Funds | Balance July 1, 2016 | | Additions | | | Deductions | Balance | |
|---|----------------------|-----------|-----------|------------|-----------|--------------|---------|-----------|
| ASSETS | | | | | | | | |
| Cash and cash equivalents | \$ | 587,095 | \$ | 12,935,437 | \$ | (12,891,751) | \$ | 630,781 |
| Investments, restricted investments and annuity contracts | | 1,777,617 | | 52,446 | | (214,736) | | 1,615,327 |
| Taxes receivable | | 34,638 | | 37,578 | | (34,638) | | 37,578 |
| Other receivables | | 133,268 | | 130,917 | | (133,268) | | 130,917 |
| Total assets | \$ | 2,532,618 | \$ | 13,156,378 | <u>\$</u> | (13,274,393) | \$ | 2,414,603 |
| LIABILITES | | | | | | | | |
| Accounts payable | \$ | 76,743 | \$ | 6,412,654 | \$ | (6,374,171) | \$ | 115,226 |
| Due to cities and towns | | 46,754 | | 593,684 | | (592,902) | | 47,536 |
| Due to federal government | | 4 | | 63 | | (66) | | 1 |
| Lottery prizes payable | | 1,194,945 | | 27,592 | | (160,187) | | 1,062,350 |
| Agency liabilities | | 1,214,172 | | 5,281,048 | | (5,305,730) | | 1,189,490 |
| Total liabilities | \$ | 2,532,618 | \$ | 12,315,041 | \$ | (12,433,056) | \$ | 2,414,603 |

Combining Statement of Net Position

Nonmajor Component Units

June 30, 2017

(Amounts in thousands)

| | Massachusetts Convention Center Authority | Massachusetts Development Finance Agency | Massachusetts Clean Energy Center | Massachusetts Technology Park Corporation | Massachusetts Housing Partnership | Economic Development Entities | Higher Education Foundations | Total |
|--|--|---|---|--|---|-------------------------------------|------------------------------------|--------------------------|
| ASSETS AND DEFERRED OUTFLOWS | | | | | | | | |
| Current assets: | | | | | | | | |
| Cash and cash equivalents | | \$ 20,274 | \$ 30,106 | \$ 111 | \$ 14,555 | \$ 76,036 | \$ 29,291 | \$ 206,930 |
| Short-term investments | | 48,696 | 145,700 | 13,333 | 26,166 | 4,206 | 40,626 | 278,727 |
| Restricted cash and investments. | 587 | 90,777 | 28,217 | 30,319 | 64,804 | 86,925 | 1,387 | 303,016 |
| Assets held in trust | _ | _ | _ | _ | _ | 1,576 | _ | 1,576 |
| Receivables, net of allowance for uncollectibles: | | | | | | | | |
| Loans | 364 | 11,900 | 2,287 | _ | 29,297 | 17,925 | _ | 61,773 |
| Other receivables | 5,957 | 8,857 | 2,766 | 398 | 2,555 | 4,362 | 9,780 | 34,675 |
| Due from primary government | | 16,514 | _ | 4,701 | _ | 42,902 | 123 | 85,599 |
| Inventory | _ | _ | _ | _ | _ | 53 | _ | 53 |
| Other current assets | 1,559 | 969 | 470 | 457 | _ | 445 | 463 | 4,363 |
| Total current assets | 66,383 | 197,987 | 209,546 | 49,319 | 137,377 | 234,430 | 81,670 | 976,712 |
| Noncurrent assets: | | | | | | | | |
| Cash and cash equivalents - restricted | _ | 13,406 | _ | 8,157 | _ | _ | _ | 21,563 |
| Long - term investments | _ | 72,619 | _ | _ | _ | _ | 690,588 | 763,207 |
| Restricted investments | _ | _ | _ | _ | _ | _ | 47,695 | 47,695 |
| Accounts receivables, net | _ | 1,574 | _ | _ | _ | 1,542 | 12,573 | 15,689 |
| Loans receivables, net | 16,051 | 76,185 | _ | _ | 554,299 | 39,470 | _ | 686,005 |
| Non-depreciable capital assets | 180,398 | 15,500 | 3,505 | _ | _ | _ | 16,042 | 215,445 |
| Depreciable capital assets, net | 549,382 | 151,368 | 120,479 | 71,329 | 714 | 15,733 | 37,294 | 946,299 |
| Other noncurrent assets | | 7,120 | | | 176 | 4,097 | 6,645 | 18,038 |
| Total noncurrent assets | 745,831 | 337,772 | 123,984 | 79,486 | 555,189 | 60,842 | 810,837 | 2,713,941 |
| Deferred outflows of resources: | | | | | | | | |
| Deferred change in fair value of interest rate | | | | | | | | |
| swaps | _ | 15 | _ | _ | _ | _ | _ | 15 |
| Deferred outflows related to pension | | | | | | | | 11,668 |
| Total assets and deferred outflows | 823,882 | 535,774 | 333,530 | 128,805 | 692,566 | 295,272 | 892,507 | 3,702,336 |
| LIABILITES AND DEFERRED INFLOWS | | | | | | | | |
| Current liabilities: | | | | | | | | |
| Accounts payable and other liabilities | 18,654 | 11,149 | 8,993 | 13,433 | 439 | 54,753 | 30,502 | 137,923 |
| Accrued payroll | _ | _ | _ | _ | 1,000 | 430 | _ | 1,430 |
| Compensated absences | 968 | 990 | _ | _ | _ | 646 | _ | 2,604 |
| Accrued interest payable | _ | 285 | _ | _ | 1,632 | _ | 29 | 1,946 |
| Due to primary government | _ | 526 | _ | _ | _ | _ | 1,524 | 2,050 |
| Unearned revenue | 13,602 | _ | _ | 1,166 | _ | 34,264 | 1,351 | 50,383 |
| Bonds, notes payable and other obligations | | 5,370 | | | 25,840 | 5,943 | 1,058 | 38,211 |
| Total current liabilities | 33,224 | 18,320 | 8,993 | 14,599 | 28,911 | 96,036 | 34,464 | 234,547 |
| Noncurrent liabilities: | | | | | | | | |
| Compensated absences | 1,363 | _ | _ | _ | _ | 136 | _ | 1,499 |
| Due to primary government | _ | 8,477 | _ | _ | _ | _ | _ | 8,477 |
| Unearned revenue | 750 | _ | _ | _ | 35,508 | 113 | _ | 36,371 |
| Bonds, notes payable and other obligations | _ | 29,115 | _ | _ | 558,859 | 68,238 | 12,979 | 669,191 |
| Net pension liability | 45,107 | _ | _ | _ | _ | _ | _ | 45,107 |
| Net OPEB liability | | | _ | _ | _ | _ | _ | 11,336 |
| Liability for derivative instruments | 1.020 | 15 | _ | _ | 15 157 | 1 775 | 2.020 | 15 |
| Other noncurrent liabilities Total noncurrent liabilities | 1,930 60,486 | 2,991 40,598 | | | 15,157 609,524 | 70,262 | 2,920 15,899 | 24,773 796,769 |
| | | 40,550 | | | 007,524 | 70,202 | | |
| Deferred inflows of resources: | | | | | | | | |
| Deferred service concession arrangements | | _ | _ | _ | _ | 190 | _ | 190 |
| Deferred inflows related to pension | 477 | | | 14.500 | | 1// 499 | | 477 |
| Total liabilities and deferred inflows | 94,187 | 58,918 | 8,993 | 14,599 | 638,435 | 166,488 | 50,363 | 1,031,983 |
| NET POSITION | | | | | | | | |
| Net investment in capital assets | 729,780 | 123,112 | 123,985 | 71,329 | 714 | 19,815 | 36,744 | 1,105,479 |
| Restricted for: | | | | | | | | |
| Economic development financing | | 180,912 | _ | _ | | 14,373 | | 195,285 |
| Other purposes | | - 172 022 | 28,216 | 29,432 | 21,959 | 43,842 | 731,707 | 855,743 |
| Unrestricted | | 172,832 | 172,336 | 13,445 | \$ 54.121 | \$ 129.794 | 73,693 | \$ 2,670,353 |
| Total net position | \$ 729,695 | \$ 476,856 | \$ 324,537 | \$ 114,206 | \$ 54,131 | \$ 128,784 | \$ 842,144 | \$ 2,670,353 |

Combining Statement of Revenues, Expenses and Changes in Net Position

Nonmajor Component Units Fiscal Year Ended June 30, 2017 (Amounts in thousands)

| | Massachusetts Convention Center Authority | Massachusetts Development Finance Agency | Massachusetts Clean Energy Center | Massachusetts Technology Park Corporation | Massachusetts Housing Partnership | Economic Development Entities | Higher Education Foundations | Total | |
|---|--|--|---|--|---|-------------------------------------|------------------------------------|--------------|--|
| Operating revenues: | | | | | | | | | |
| Charges for services | \$ 70,894 | \$ 56,269 | \$ 1,912 | \$ 4,478 | \$ 8,532 | \$ 123,593 | \$ 22,854 | \$ 288,532 | |
| Other | 2,808 | 4,522 | 22,649 | 16,011 | 6,532 | 1,318 | 16,455 | 70,295 | |
| Total operating revenues | 73,702 | 60,791 | 24,561 | 20,489 | 15,064 | 124,911 | 39,309 | 358,827 | |
| Operating expenses: | | | | | | | | | |
| Cost of services | 53,672 | 46,797 | 39,256 | 24,711 | 6,582 | 122,191 | _ | 293,209 | |
| Administration costs | 36,006 | 19,459 | 10,647 | _ | 5,809 | 18,444 | 47,499 | 137,864 | |
| Depreciation | 53,852 | 8,698 | 3,637 | 7,135 | 144 | 1,257 | 1,314 | 76,037 | |
| Total operating expenses | 143,530 | 74,954 | 53,540 | 31,846 | 12,535 | 141,892 | 48,813 | 507,110 | |
| Operating income/(loss) | (69,828) | (14,163) | (28,979) | (11,357) | 2,529 | (16,981) | (9,504) | (148,283) | |
| Nonoperating revenues/(expenses): | | | | | | | | | |
| Operating grants | 20,333 | 409 | 12,357 | _ | _ | 11,930 | _ | 45,029 | |
| Interest income/(loss) | 805 | 5,926 | _ | 493 | 662 | 492 | 54,717 | 63,095 | |
| Other nonoperating revenue/(expense) | 1,068 | (1,652) | 8,294 | | | (1,907) | 64,806 | 70,609 | |
| Nonoperating revenues/(expenses), net $_{\cdot\cdot}$ | 22,206 | 4,683 | 20,651 | 493 | 662 | 10,515 | 119,523 | 178,733 | |
| Income/(loss) before contributions | (47,622) | (9,480) | (8,328) | (10,864) | 3,191 | (6,466) | 110,019 | 30,450 | |
| Capital contributions | 18,520 | 21,214 | | | | 2,109 | | 41,843 | |
| Change in net position/(deficits) | (29,102) | 11,734 | (8,328) | (10,864) | 3,191 | (4,357) | 110,019 | 72,293 | |
| Net position - beginning | 758,797 | 465,122 | 332,865 | 125,070 | 50,940 | 133,141 | 732,125 | 2,598,060 | |
| Net position - ending | \$ 729,695 | \$ 476,856 | \$ 324,537 | \$ 114,206 | \$ 54,131 | \$ 128,784 | \$ 842,144 | \$ 2,670,353 | |



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Statistical Section

(*Unaudited*)

Schedule of Net Position by Component - Last Ten Fiscal Years

Changes in Net Position - Last Ten Fiscal Years

Fund Balances, Governmental Funds - Last Ten Fiscal Years

Ten-Year Schedule of Revenues and Other Financing Sources - All Governmental Fund Types

Ten-Year Schedule of Expenditures and Other Financing Uses by Secretariat - All Governmental Fund Types

Personal Income by Industry - Last Ten Calendar Years

Personal Income Tax Filers and Liability by Income Level Calendar (Tax) Years 2015 and 2006

Ten-Year Schedule of Per Capita General Long-Term Bonded Debt and Capital Leases

Ten-Year Schedule of Outstanding Direct Debt and Statutory Debt Limit

Ten-Year Schedule of Pledged Revenue Coverage

Ten-Year Schedule of Percentage of Annual Debt Service Expenditures for General Bonded Debt to Total Non-

Capital Expenditures – Fund Perspective - All Governmental Fund Types Component Units Revenue Bond Coverage for the Last Ten Fiscal Years

Ten-Year Schedule of Massachusetts and United States Resident Population

Ten-Year Schedule of Massachusetts and United States Resident Per Capita Net Income

Ten-Year Schedule of Annual Average Civilian Labor Force, Unemployment and Unemployment Rates

Largest Private Sector Massachusetts Employers - 2017 and 2008

Full Time Equivalent Employees by Function / Program - Last Ten Years

Average Annual Medicaid Caseload and Medicaid Expenditure - Last Ten Fiscal Years

Massachusetts Road Inventory - Calendar Year End, Lane Miles by Type - Last Ten Calendar Years

Massachusetts Real Property Owned and Leased Annual Inventory, Acreage, Improvements and Square Footage - Last Ten Years

Massachusetts Public Higher Education Enrollment and Degrees Conferred - Last Ten Academic Years

Calculation of Transfers - Stabilization Fund

Calculation of Transfer - Tax Reduction Fund

Massachusetts General Information

Statistical Section Narrative and Table of Contents

This part of the Commonwealth of Massachusetts' comprehensive annual financial report presents detailed information as a context for understanding what the information in the financial statements, note disclosures, and required supplementary information says about the Commonwealth's overall financial health.

Contents

Financial Trends

These schedules contain trend information to help the reader understand how the Commonwealth's financial performance and fiscal health has changed over time. The schedules are presented for the last ten fiscal years, except where noted. Schedules included are:

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| These schedules contain information to help the reader assess the Commonwealth's most significant revenue source, income taxation. Schedules included are: | |
| Personal Income by Industry, Last Ten Calendar Years - (inclusive of the Commonwealth's highest income tax rate) | 192 |
| Personal Income Tax Filers and Liability by Income Level, Tax Years 2015 and 2006 | 194 |
| Debt Capacity | |
| These schedules present information to help the reader assess the affordability of the Commonwealth's current levels of outstanding debt and the Commonwealth's ability to issue additional debt in the future. Schedules included are: | |
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| Ten Year Schedule of Percentage of Annual Debt Service Expenditures for General Bonded Debt to Total Non - Capital Expenditures - Fund Perspective, All Governmental Fund Types | 200 |

Demographic Information

These schedules offer demographic and economic indicators to help the reader understand the environment within the Commonwealth's financial activities take place. Schedules included are:

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| Ten Year Schedule of Annual Average Civilian Labor Force, Unemployment and Unemployment Rates For Massachusetts and The United States | 204 |
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| These schedules offer operating data to help the reader understand how the information in the Commonwealth's financial report relates to the services it provides and the activities it performs. Schedules included are: | |
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Schedule of Net Position by Component

Last Ten Fiscal Years

(Amounts in thousands)

| | _ | 2017 | 2016 | 2015* | | 2014* | | 2013 |
|---|----|--------------|--------------------|-------|--------------|-------|--------------|--------------------|
| Governmental activities | | | | | | | | |
| Net investment in capital asset | \$ | (1,320,834) | \$ (1,067,098) | \$ | (768,411) | \$ | (502,370) | \$ (592,483) |
| Restricted | | 1,926,716 | 1,538,662 | | 1,541,566 | | 1,455,704 | 1,386,416 |
| Unrestricted | | (63,992,915) | (59,111,509) | | (55,626,596) | | (53,381,910) | (26,733,809) |
| Total governmental activities net position | \$ | (63,387,033) | \$ (58,639,945) | \$ | (54,853,441) | \$ | (52,428,576) | \$ (25,939,876) |
| Business-type activities | | | | | | | | |
| Net investment in capital assets | \$ | 3,623,966 | \$ 3,311,658 | \$ | 3,055,444 | \$ | 2,794,845 | \$ 2,605,263 |
| Restricted | | 1,735,575 | 1,745,840 | | 1,539,785 | | 1,590,545 | 1,209,630 |
| Unrestricted | | 722,923 | 678,667 | _ | 697,056 | | 675,796 | 1,026,230 |
| Total business-type activities net position | \$ | 6,082,464 | \$ 5,736,165 | \$ | 5,292,285 | \$ | 5,061,186 | \$ 4,841,123 |
| Commonwealth net position | | | | | | | | |
| Net investment in capital assets | \$ | 2,303,132 | \$ 2,244,560 | \$ | 2,287,033 | \$ | 2,292,475 | \$ 2,012,780 |
| Restricted | | 3,662,291 | 3,284,502 | | 3,081,351 | | 3,046,249 | 2,596,046 |
| Unrestricted | | (63,269,992) | (58,432,842) | | (54,929,540) | | (52,706,114) | (25,707,579) |
| Total Commonwealth net position | \$ | (57,304,569) | \$ (52,903,780) | \$ | (49,561,156) | \$ | (47,367,390) | \$ (21,098,753) |

^{*}Restated

| 2012 | 2011 | 2010* | 2009* | _ | 2008* |
|--------------------|--------------------|--------------------|--------------------|----|--------------|
| \$ (849,338) | \$ (722,469) | \$ (885,593) | \$ 189,913 | \$ | 446,666 |
| 1,456,715 | 1,520,702 | 1,403,877 | 1,377,951 | | 1,413,968 |
| (24,905,165) | (23,631,098) | (22,891,629) | (13,721,519) | | (11,022,084) |
| \$ (24,297,788) | \$ (22,832,865) | \$ (22,373,345) | \$ (12,153,655) | \$ | (9,161,450) |
| | | | | | |
| \$ 2,366,038 | \$ 2,026,223 | \$ 1,767,434 | \$ 1,698,825 | \$ | 1,562,002 |
| 1,576,865 | 1,364,646 | 1,148,751 | 1,609,145 | | 2,390,206 |
| 969,309 | 978,043 | 857,263 | 621,952 | | 644,363 |
| \$ 4,912,212 | \$ 4,368,912 | \$ 3,773,448 | \$ 3,929,922 | \$ | 4,596,571 |
| | | | _ | | |
| \$ 1,516,700 | \$ 1,303,754 | \$ 881,841 | \$ 1,888,738 | \$ | 2,008,668 |
| 3,033,580 | 2,885,348 | 2,552,628 | 2,987,096 | | 3,804,174 |
| (23,935,856) | (22,653,055) | (22,034,366) | (13,099,567) | | (10,377,721) |
| \$ (19,385,576) | \$ (18,463,953) | \$ (18,599,896) | \$ (8,223,733) | \$ | (4,564,879) |

Changes in Net Position

Last Ten Fiscal Years

(Amounts in thousands) 2017 2016 2015 2014 (1) 2013 (1) EXPENSES Governmental Activities: 2,521,394 2,571,685 2,764,614 2,616,051 2,703,519 General government.... 1,226,221 1,154,038 1,026,429 1,007,234 983,314 Judiciary... 5,734,682 5,353,521 5,179,104 Direct local aid..... 5,598,687 5,469,412 Medicaid ... 17.182.691 16,825,110 15.086.742 14.034.862 12,286,342 1,668,100 1,632,703 1,657,018 1,403,590 1,282,661 Group health insurance... Energy and environmental...... 720,182 1,069,510 671,801 615,854 524,632 1.367.957 1.314.980 1.289,156 1.250,008 Housing and economic development...... 1.411.189 8,131,843 7,912,817 7,605,180 7,308,295 7,737,736 Health and human services .. Transportation and public works 2.535.121 2.711.910 2.689.975 2.379.178 1.868.020 4.714.555 Early elementary and secondary education 6.243,115 5.420.052 4.654.161 4,493,537 2.451.881 Public safety and homeland security 2.913.849 2.746.612 2.486.107 2.391.982 Labor and workforce development. 312,510 324,678 309,091 352,454 385,757 Lottery... 4.128.209 4.299,592 4.109.611 3,980,980 3,982,700 Interest (unallocated) ... 1.384.248 1.250.004 1.263.218 1,197,709 1.206.542 Total governmental activities 56,356,574 54,929,721 51,047,244 48,610,664 46,144,020 ness-type Activities: 1,514,002 1,499,811 1,598,084 2,036,431 2,718,447 Unemployment compensation ... Higher Education: University of Massachusetts 3,167,596 3,151,215 2,809,062 2,925,013 2,759,488 1.063.196 1.002.577 994,341 922,383 864,161 State Universities 852,946 936,241 928,067 891,906 814,245 Community Colleges .. 6,736,773 Total business-type activities ... 6,681,035 6,581,670 6,293,393 7,156,341 Total Commonwealth expenses. 63,037,609 61,511,391 57,340,637 55,347,437 53,300,361 REVENUES Governmental Activities: Charges for services: General government. 594,132 565,434 634,289 361,105 352,291 95,937 100,568 105,521 108,766 111,384 Judiciary ... Medicaid .. 897,542 841,697 1,052,170 1,226,108 471,539 802,628 799,011 755,712 660,359 619,982 Group health insurance 262,339 249,565 289,738 253,856 228,019 Energy and environmental..... 164,438 165,365 Housing and economic development..... 194,940 173,941 150,690 Health and human services 1,359,519 1,224,967 405,710 483,080 1,143,551 577,430 530,853 596,200 577,292 567,348 Transportation and public works...... Early elementary and secondary education..... 7,919 7,508 7,649 10,067 6,748 228,730 280,400 284,264 256,596 218,643 Public safety and homeland security..... Labor and workforce development 40,652 38,581 175,130 150,394 246,577 5.049,536 5.041.329 Lottery.... 5.254.468 5,405,128 5.193.545 Total Charges for services..... 10,373,902 10,308,129 9,582,046 9,236,702 9,158,101 Operating grants and contributions.... 15,519,380 15,158,087 13.950.227 13.121.648 12,836,122 Capital grants and contributions 58,354 85,759 81,475 30,699 18,726 Total governmental activities 25,951,636 25,551,975 23,613,748 22,389,049 22,012,948 Business-type Activities: Charges for services: 1,468,492 1,611,096 1,492,067 1,897,495 1,923,476 Unemployment Compensation 1,697,585 University of Massachusetts 1,882,899 1,875,144 1,602,043 1,640,296 654,170 616,025 583,669 558,170 533,347 State Universities ... 274,868 274,252 266,956 270,512 281,428 Community Colleges 936,917 1,347,423 909,228 891,823 1,791,196 Operating grants and contributions...... 238,621 265,714 206,128 122.081 123,396 Capital grants and contributions 5,534,054 6,293,139 5,428,278 5,087,780 5,893,266 Total business-type activities ... 31,379,914 28,701.528 Total Commonwealth program revenues 31,086,029 28,282.315 28,306.087 General Revenues and Other Changes in Net Position (all types consolidated): Governmental Activities: 25,209,826 23,319,168 25,949,577 25,676,303 22,599,332 994,982 1,160,994 1,251,193 1,131,754 985,713 Investment earnings and miscellaneous..... (1,286,709) (1,246,055) (1,429,174) (1,205,141) (1,096,061) Transfers to\from MassDOT..... 22,488,984 25,657,850 25,591,242 25,031,845 23,245,781 Business-type Activities: Investment earnings and miscellaneous... 312,347 245,441 306,690 271,832 7,536 Other losses..... 1,286,709 1,246,055 1,429,174 1,205,141 1,096,061 Total business -type activities ... 1,599,056 1,491,496 1,436,710 1,511,831 1,367,893 24,757,612 Total Commonwealth general revenues...... 27,256,906 27,082,738 26,468,555 23,856,877 CHANGES IN NET POSITION (4,747,088) (3,786,504) \$ (2,401,651) \$ (2,975,834) \$ (1,642,088)

Total changes in net position including restatements......

346,299

(4,400,789) \$

443,880

(3,342,624)

231,099

(2,170,552) \$

668,324

(2,307,510)

504,691

(1,137,397)

^{(1) -} Prior year amounts were reclassified to conform to current year presentation. See Independent Auditors' Report

| 2012 (1) | 2011 (1) | 2010 | 2009 | 2008 |
|--|--|---|---|--|
| | | | | |
| \$ 2,384,142 | ¢ 2.212.027 | \$ 2217.016 | ¢ 2.501.052 | ¢ 2.220.454 |
| | \$ 2,312,037 | \$ 2,317,016 | \$ 2,591,953 | \$ 2,329,454 |
| 936,113 | 1,000,902 | 991,310 | 1,089,569 | 1,003,754 |
| 4,991,532 | 4,845,738 | 5,030,363 | 5,210,451 | 5,118,858 |
| 11,708,397 | 12,124,261 | 10,677,999 | 10,842,549 | 9,769,893 |
| 1,218,079 | 1,113,544 | 1,092,178 | 977,565 | 828,297 |
| 568,898 | 689,258 | 305,233 | 407,289 | 541,840 |
| 1,246,213 | 1,365,368 | 1,291,142 | 1,036,891 | 900,577 |
| 7,619,987 | 7,139,948 | 7,110,366 | 7,326,979 | 6,753,620 |
| 1,759,589 | 2,270,136 | 2,062,054 | 1,319,110 | 1,202,748 |
| 4,336,326 | 3,585,958 | 3,806,149 | 3,574,455 | 2,854,730 |
| 2,323,452 | 2,295,561 | 2,292,163 | 2,462,398 | 2,118,161 |
| 472,044 | 498,560 | 470,878 | 463,901 | 342,90 |
| 3,877,305 | 3,661,834 | 3,649,396 | 3,693,318 | 3,910,362 |
| | | | | |
| 1,202,772 | 1,177,569 | 1,090,471 | 1,116,278 | 1,152,162 |
| 44,644,849 | 44,080,673 | 42,186,717 | 42,112,704 | 38,827,362 |
| 3,466,500 | 4,388,360 | 5,435,611 | 3,475,027 | 1,554,885 |
| 2,684,039 | 2,865,015 | 2,640,134 | 2,474,797 | 2,274,312 |
| 851,118 | 834,453 | 762,043 | 736,972 | 733,842 |
| 801,038 | 772,883 | 716,526 | 671,923 | 685,23 |
| 7,802,695 | 8,860,711 | 9,554,314 | 7,358,719 | 5,248,27 |
| 52,447,544 | \$ 52,941,384 | \$ 51,741,031 | \$ 49,471,424 | \$ 44,075,63 |
| | | | | |
| | | | | |
| 458,320 | \$ 443,869 | \$ 464,592 | \$ 436,344 | \$ 414,61 |
| 114,170 | 120,293 | 128,198 | 123,819 | 124,54 |
| 297,566 | | | | 176,47 |
| | 258,032 | 185,463 | 180,380 | |
| 495,377 | 431,078 | 349,870 | 230,456 | 209,00 |
| 214,340 | 270,449 | 214,269 | 226,754 | 162,63 |
| 142,320 | 142,387 | 221,340 | 178,011 | 185,01 |
| 931,535 | 896,328 | 797,929 | 718,628 | 601,48 |
| 505,842 | 502,004 | 517,045 | 494,733 | 477,42 |
| 6,783 | 6,645 | 9,661 | 15,728 | 10,76 |
| 205,546 | 193,983 | 202,427 | 175,069 | 153,64 |
| | | | | |
| 237,772 | 142,731 | 38,319 | 37,728 | 31,75 |
| 4,940,151 | 4,630,205 | 4,626,777 | 4,643,592 | 4,905,50 |
| 8,549,722 | 8,038,003 | 7,755,891 | 7,461,243 | 7,452,87 |
| 12,909,908 | 14,217,481 | 12,771,164 | 12,059,019 | 9,271,93 |
| 79,733 | 168,912 | 779,403 | 853,221 | 484,17 |
| 21,539,363 | 22,424,397 | 21,306,458 | 20,373,482 | 17,208,98 |
| 1,982,602 | 1,945,801 | 1,727,964 | 1,671,098 | 1,587,54 |
| | | | | |
| 1,519,496 | 1,685,386 | 1,527,880 | 1,419,932 | 1,160,51 |
| 523,979 | 530,078 | 479,900 | 442,685 | 400,36 |
| 275,778 | | | | 204.10 |
| 273,776 | 250,341 | 235,865 | 219,986 | 204,19 |
| 2,525,342 | 250,341 3,500,210 | 235,865 4,020,351 | 219,986 1,721,199 | |
| | | | ` | 710,97 |
| 2,525,342 | 3,500,210 | 4,020,351 | 1,721,199 | 710,97 35,89 |
| 2,525,342 162,271 | 3,500,210 42,819 | 4,020,351 48,684 | 1,721,199 56,377 | 710,97 35,89 4,099,48 |
| 2,525,342 162,271 6,989,468 | 3,500,210 42,819 7,954,635 | 4,020,351 48,684 8,040,644 | 1,721,199 56,377 5,531,277 | 710,97 35,89 4,099,48 |
| 2,525,342 162,271 6,989,468 28,528.831 | 3,500,210 42,819 7,954,635 \$ 30,379.032 | 4,020,351 48,684 8,040,644 \$ 29,347,102 | 1,721,199 56,377 5,531,277 | |
| 2,525,342 162,271 6,989,468 28,528.831 21,403,426 | 3,500,210 42,819 7,954,635 \$ 30,379.032 \$ 21,066,430 | 4,020,351 48,684 8,040,644 \$ 29,347,102 \$ 19,034,227 | 1,721,199 56,377 5,531,277 \$ 25,904,759 \$ 18,499,273 | 710,97 35,89 4,099,48 \$ 21,308,46 \$ 21,174,43 |
| 2,525,342 162,271 6,989,468 28,528.831 | 3,500,210 42,819 7,954,635 \$ 30,379.032 | \$ 19,034,227 1,474,995 (864,697) | 1,721,199 56,377 5,531,277 \$ 25,904,759 | 710,97 35,89 4,099,48 \$ 21,308,46 \$ 21,174,43 2,057,30 |
| 2,525,342 162,271 6,989,468 28,528.831 21,403,426 1,393,094 | \$ 21,066,430 991,230 | \$ 19,034,227 1,474,995 | 1,721,199 56,377 5,531,277 \$ 25,904,759 \$ 18,499,273 1,489,018 | 710,97 35,89 4,099,48 \$ 21,308,46 |
| 2,525,342 162,271 6,989,468 28,528.831 21,403,426 1,393,094 (1,155,955) | \$ 21,066,430 991,230 (860,904) | \$ 19,034,227 1,474,995 (864,697) (898,935) | 1,721,199 56,377 5,531,277 \$ 25,904,759 \$ 18,499,273 1,489,018 (1,070,652) | 710,97 35,89 4,099,48 \$ 21,308,46 \$ 21,174,43 2,057,30 (1,178,03 |
| 2,525,342 162,271 6,989,468 28,528.831 21,403,426 1,393,094 (1,155,955) — 21,640,565 | \$ 21,066,430 991,230 (860,904) 21,196,756 | \$ 19,034,227 1,749,95 (8,983,955) 10,660,570 | \$ 18,499,273 1,489,018 (1,070,652) 18,917,639 | 710,97 35,89 4,099,48 \$ 21,308,46 \$ 21,174,43 2,057,30 (1,178,03 |
| 2,525,342 162,271 6,989,468 28,528.831 21,403,426 1,393,094 (1,155,955) — 21,640,565 | \$ 21,066,430 991,230 (860,904) | \$ 19,034,227 1,474,995 (8,983,955) 10,660,570 | \$ 18,499,273 1,489,018 (1,070,652) 18,917,639 | \$ 21,174,43 2,057,30 (1,178,03 223,053,70 |
| 2,525,342 162,271 6,989,468 28,528.831 21,403,426 1,393,094 (1,155,955) — 21,640,565 214,056 — 1,155,955 | \$ 21,066,430 991,230 (860,904) | \$ 19,034,227 1,474,995 (864,697) (8,983,955) 10,660,570 | \$ 18,499,273 1,489,018 (1,070,652) 83,850 (11,530) 1,070,652 | \$ 21,174,43 2,057,30 (1,178,03 |
| 2,525,342 162,271 6,989,468 28,528.831 21,403,426 1,393,094 (1,155,955) — 21,640,565 214,056 1,155,955 1,370,011 | \$ 21,066,430 991,230 (860,904) 21,196,756 652,489 (10,746) 860,904 1,502,647 | \$ 19,034,227 1,474,995 (8,98,355) 10,660,570 504,404 (12,125) 864,697 1,356,976 | \$ 18,499,273 1,489,018 (1,070,652) 18,917,639 83,850 (11,530) 1,070,652 1,142,972 | \$ 21,174,43 2,057,30 (1,178,03 222,053,70 224,253,70 1,178,03 |
| 2,525,342 162,271 6,989,468 28,528.831 21,403,426 1,393,094 (1,155,955) — 21,640,565 214,056 — 1,155,955 | \$ 21,066,430 991,230 (860,904) | \$ 19,034,227 1,474,995 (864,697) (8,983,955) 10,660,570 | \$ 18,499,273 1,489,018 (1,070,652) 83,850 (11,530) 1,070,652 | \$ 21,174,43 \$ 2,057,30 (1,178,03 |
| 2,525,342 162,271 6,989,468 28,528.831 21,403,426 1,393,094 (1,155,955) 214,056 214,056 1,155,955 1,370,011 23,010,576 | \$ 21,066,430 991,230 (860,904) 21,196,756 652,489 (10,746) 860,904 1,502,647 \$ 22,699,403 | \$ 19,034,227 1,474,995 (8,98,3955) 10,660,570 504,404 (12,125) 864,697 1,356,976 \$ 12,017,546 | 1,721,199 56,377 5,531,277 \$ 25,904,759 \$ 18,499,273 1,489,018 (1,070,652) | \$ 21,174,43 2,057,30 (1,178,03 234,25 |
| 2,525,342 162,271 6,989,468 28,528,831 21,403,426 1,393,094 (1,155,955) 21,640,565 214,056 ———————————————————————————————————— | \$ 21,066,430 991,230 (860,904) | \$ 19,034,227 1,474,995 (8,983,955) 10,660,570 \$ 12,017,546 \$ (10,219,688) | 1,721,199 56,377 5,531,277 8 25,904,759 \$ 18,499,273 1,489,018 (1,070,652) 18,917,639 83,850 (11,530) 1,070,652 1,142,972 \$ 20,060,611 \$ (2,821,583) | \$ 21,174,43 2,057,30 (1,178,03 |
| 2,525,342 162,271 6,989,468 28,528.831 21,403,426 1,393,094 (1,155,955) 214,056 214,056 1,155,955 1,370,011 23,010,576 | \$ 21,066,430 991,230 (860,904) 21,196,756 652,489 (10,746) 860,904 1,502,647 \$ 22,699,403 | \$ 19,034,227 1,474,995 (8,98,3955) 10,660,570 504,404 (12,125) 864,697 1,356,976 \$ 12,017,546 | \$ 18,499,273 1,489,018 (1,070,652) 18,917,639 83,850 (11,530) 1,070,652 1,142,972 \$ 20,060,611 \$ (2,821,583) (684,470) | \$ 21,174,43 2,057,30 (1,178,03 |
| 2,525,342 162,271 6,989,468 28,528,831 21,403,426 1,393,094 (1,155,955) 21,640,565 214,056 ———————————————————————————————————— | \$ 21,066,430 991,230 (860,904) | \$ 19,034,227 1,474,995 (8,983,955) 10,660,570 \$ 12,017,546 \$ (10,219,688) | 1,721,199 56,377 5,531,277 8 25,904,759 \$ 18,499,273 1,489,018 (1,070,652) 18,917,639 83,850 (11,530) 1,070,652 1,142,972 \$ 20,060,611 \$ (2,821,583) | \$ 21,174,43 2,057,30 (1,178,03 |

Fund Balances, Governmental Funds

Last Ten Fiscal Years

(Modified accrual basis of accounting)

(Amounts in thousands)

| | | 2017 | | 2016 | 2015 | | 2014 | | 2013 | |
|--|------|-------------|------|---------------|------|-----------|------|-----------|------|-----------|
| Total Unreserved general fund | \$ | | \$ | | \$ | | \$ | | \$ | |
| All Other Governmental Funds | | | | | | | | | | |
| Reserved | | _ | | _ | | _ | | _ | | _ |
| Unreserved: | | | | | | | | | | |
| Special Revenue Funds | | _ | | _ | | _ | | _ | | _ |
| Capital Projects Funds | | _ | | _ | | _ | | _ | | _ |
| Permanent Trust Funds | _ | | | | | | _ | | | _ |
| Total Unreserved | _ | | | | | | _ | | | _ |
| Cotal all other governmental funds | _ | | | _ | | | | | | _ |
| Cotal governmental fund balances | \$ | <u> </u> | \$ | | \$ | <u> </u> | \$ | <u> </u> | \$ | |
| 2010 has been restated for GASB 54 presentat | ion. | Years prior | have | e not been re | stat | ted. | | | | |
| Fund balances GASB 54 : | | | | | | | | | | |
| Nonspendable ** | \$ | _ | \$ | _ | \$ | _ | \$ | _ | \$ | _ |
| Restricted ** | | 1,926,716 | | 1,377,671 | | 1,792,461 | | 1,518,671 | | 1,558,842 |
| Committed | | 2,351,175 | | 2,421,647 | | 2,375,021 | | 2,249,906 | | 2,324,228 |
| Assigned | | 684,655 | | 845,567 | | 576,632 | | 510,353 | | 595,085 |
| Unassigned | | 634,324 | | 628,420 | | 561,105 | | 340,505 | | 391,795 |

^{**} amounts in prior years have been reclassified to conform to current year presentation

| 2 | 012 | 2 | 011 | 20 | 10* | 2009* | 2008* |
|----|-----|----|-----|----|-----|--------------|--------------|
| \$ | | \$ | | \$ | | \$ 1,734,822 | \$ 3,171,278 |
| | _ | | _ | | _ | 1,401,985 | 1,809,058 |
| | _ | | _ | | _ | 2,044,674 | 2,437,897 |
| | _ | | _ | | _ | (125,138 |) (360,570) |
| | | | | | | 5,000 | 5,000 |
| | | | | | | 1,924,536 | 2,082,327 |
| | | | | | | 3,326,521 | 3,891,385 |
| \$ | | \$ | _ | \$ | | \$ 5,061,343 | \$ 7,062,663 |

| | | _ | |
|-----------------|-----------------|----|-----------|
| \$ 6,318,958 | \$ 5,267,628 | \$ | 4,585,716 |
| 1,143,978 | 821,188 | _ | 351,395 |
| 574,621 | 750,462 | | 156,483 |
| 2,404,158 | 2,020,009 | | 2,166,175 |
| 2,196,201 | 1,675,969 | | 1,906,663 |
| \$ _ | \$ _ | \$ | 5,000 |
| | | | |

Ten-Year Schedule of Revenues and Other Financing Sources All Governmental Fund Types - Fund Perspective

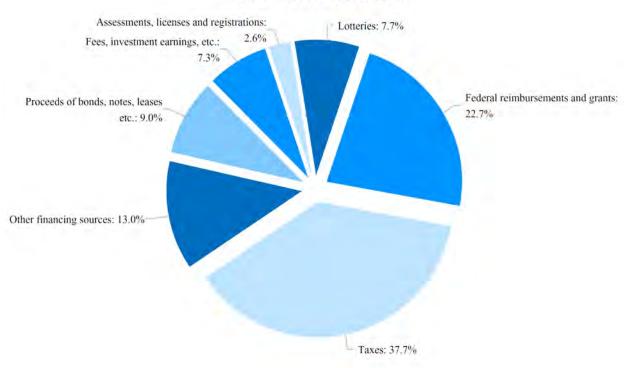
(Modified Accrual Basis of Accounting)

(Amounts in millions)

| | | % | | % | | % | | % | | % |
|--|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
| | 2017 | Total | 2016 | Total | 2015 | Total | 2014 | Total | 2013 | Total |
| Taxes | \$ 25,828 | 37.7 | \$ 25,746 | 38.0 | \$ 25,258 | 41.7 | \$ 23,786 | 41.6 | \$ 22,391 | 40.5 |
| Federal reimbursements | 11,932 | 17.4 | 11,577 | 17.1 | 10,462 | 17.2 | 9,417 | 16.5 | 8,981 | 16.2 |
| Federal grants | 3,635 | 5.3 | 3,656 | 5.4 | 3,583 | 5.9 | 3,730 | 6.5 | 3,887 | 7.0 |
| Lotteries | 5,258 | 7.7 | 5,406 | 8.0 | 5,194 | 8.6 | 5,049 | 8.8 | 5,042 | 9.1 |
| Assessments | 1,219 | 1.8 | 1,104 | 1.6 | 1,026 | 1.7 | 1,080 | 1.8 | 1,093 | 2.0 |
| Motor vehicle licenses and registrations | 554 | 0.8 | 546 | 0.8 | 546 | 0.9 | 495 | 0.9 | 487 | 0.9 |
| Fees, investment earnings, etc | 4,966 | 7.3 | 4,957 | 7.3 | 4,540 | 7.5 | 4,152 | 7.3 | 3,750 | 6.8 |
| Issuance of general and special obligation bonds | 3,464 | 5.1 | 3,969 | 5.9 | 3,761 | 6.2 | 2,360 | 4.1 | 1,471 | 2.7 |
| Issuance of refunding bonds | 1,853 | 2.7 | 1,463 | 2.2 | 632 | 1 | 1,236 | 2.2 | 1,913 | 3.5 |
| Bond premiums | 812 | 1.2 | 613 | 0.9 | 379 | 0.6 | 193 | 0.3 | 398 | 0.7 |
| Proceeds of capital lease | 1 | _ | 31 | _ | 31 | 0.1 | 11 | _ | 1 | _ |
| Other financing sources | 8,915 | 13.0 | 8,682 | 12.8 | 5,247 | 8.6 | 5,701 | 10.0 | 5,876 | 10.6 |
| Total revenues and other financing sources | \$ 68,437 | 100.0 | \$ 67,750 | 100.0 | \$ 60,659 | 100.0 | \$ 57,210 | 100.0 | \$ 55,290 | 100.0 |

See Independent Auditors' Report

Apportionment of Revenues by Source -Fiscal Year Ended June 30, 2017



| | % | | % | | % | | % | | % |
|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
| 2012 | Total | 2011 | Total | 2010 | Total | 2009 | Total | 2008 | Total |
| \$ 21,533 | 39.6 | \$ 20,854 | 38.7 | \$ 18,991 | 37.3 | \$ 18,354 | 36.9 | \$ 21,120 | 42.1 |
| 8,934 | 16.4 | 10,066 | 18.8 | 9,453 | 18.5 | 9,392 | 18.9 | 7,037 | 14 |
| 4,051 | 7.5 | 4,311 | 8.0 | 4,097 | 8.0 | 3,510 | 7 | 2,681 | 5.4 |
| 4,944 | 9.1 | 4,631 | 8.6 | 4,628 | 9.1 | 4,650 | 9.3 | 4,915 | 9.8 |
| 1,024 | 1.9 | 980 | 1.8 | 965 | 2.0 | 929 | 1.9 | 858 | 1.8 |
| 474 | 0.9 | 461 | 0.9 | 463 | 0.9 | 383 | 0.8 | 376 | 0.7 |
| 3,823 | 7.0 | 3,246 | 6.0 | 3,365 | 6.6 | 3,204 | 6.4 | 3,546 | 7.1 |
| | | | | | | | | | |
| 2,902 | 5.3 | 2,233 | 4.1 | 2,419 | 4.7 | 2,042 | 4.1 | 1,281 | 2.6 |
| 388 | 0.7 | 888 | 1.6 | 538 | 1.1 | 390 | 0.8 | _ | _ |
| 260 | 0.5 | 130 | 0.2 | 16 | 0.0 | 99 | 0.2 | 25 | _ |
| 4 | _ | 12 | _ | 17 | 0.0 | 18 | _ | 17 | _ |
| 6,033 | 11.1 | 6,086 | 11.3 | 6,027 | 11.8 | 6,817 | 13.7 | 8,280 | 16.5 |
| \$ 54,370 | 100.0 | \$ 53,898 | 100.0 | \$ 50,979 | 100.0 | \$ 49,788 | 100.0 | \$ 50,136 | 100.0 |

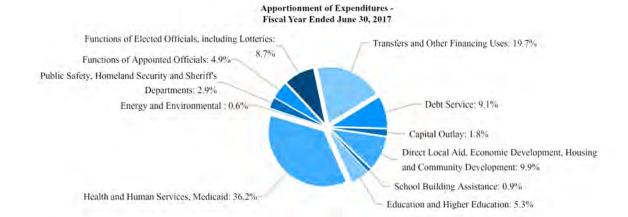
Ten-Year Schedule of Expenditures and Other Financing Uses by Secretariat All Governmental Fund Types - Fund Perspective

(Modified Accrual Basis of Accounting)

(Amounts in millions)

| | | % | | % | | % | | % | | % |
|---|-----------|-------|-----------|-------|-----------|-------|-----------|-------|------------|-------|
| | 2017 | Total | 2016 | Total | 2015 | Total | 2014 | Total | 2013 | Total |
| Legislature | \$ 67 | 0.1 | \$ 61 | 0.1 | \$ 61 | 0.1 | \$ 56 | 0.1 | \$ 57 | 0.1 |
| Judiciary | 908 | 1.3 | 880 | 1.3 | 845 | 1.4 | 816 | 1.4 | 792 | 1.4 |
| Inspector General | 4 | _ | 5 | _ | 5 | _ | 6 | _ | 6 | _ |
| Governor and Lieutenant Governor | 7 | _ | 7 | _ | 6 | _ | 5 | _ | 6 | _ |
| Secretary of the Commonwealth | 51 | 0.1 | 44 | 0.1 | 50 | 0.1 | 51 | 0.1 | 49 | 0.1 |
| Treasurer and Receiver-General | 5,657 | 8.2 | 5,799 | 8.7 | 5,602 | 9.7 | 5,327 | 9.5 | 5,307 | 9.5 |
| Auditor of the Commonwealth | 18 | _ | 19 | _ | 18 | _ | 18 | _ | 18 | _ |
| Attorney General | 76 | 0.1 | 67 | 0.1 | 41 | 0.1 | 88 | 0.2 | 76 | 0.1 |
| Ethics Commission | 2 | _ | 2 | _ | 2 | _ | 2 | _ | 2 | _ |
| District Attorney | 130 | 0.2 | 124 | 0.2 | 119 | 0.2 | 115 | 0.2 | 115 | 0.2 |
| Office of Campaign and Political Finance | 2 | _ | 2 | _ | 3 | _ | 1 | _ | 1 | _ |
| Sheriff's Department | 624 | 0.9 | 616 | 0.9 | 593 | 1.0 | 565 | 1.0 | 541 | 1.0 |
| Disabled Persons Protection Commission | 3 | _ | 3 | _ | 3 | _ | 2 | _ | 2 | _ |
| Board of Library Commissioners | 28 | _ | 28 | _ | 28 | _ | 25 | _ | 25 | _ |
| Massachusetts Gaming Commission | 37 | 0.1 | 34 | 0.1 | 23 | _ | 23 | _ | 14 | _ |
| Comptroller | 17 | _ | 17 | _ | 16 | _ | 16 | _ | 14 | _ |
| Administration and finance | 2,444 | 3.6 | 2,416 | 3.6 | 2,490 | 4.2 | 2,296 | 4.0 | 2,295 | 4.1 |
| Energy and environmental | 405 | 0.6 | 436 | 0.6 | 417 | 0.7 | 410 | 0.7 | 365 | 0.6 |
| Health and human services | 7,463 | 11.0 | 7,402 | 10.9 | 7,211 | 12.0 | 6,957 | 12.1 | 7,384 | 13.1 |
| Transportation and public works | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Massachusetts department of transportation | 2,391 | 3.5 | 2,595 | 3.8 | 2,611 | 4.4 | 2,296 | 4.0 | 1,785 | 3.1 |
| Office of the Child Advocate | 1 | _ | 1 | _ | _ | _ | _ | _ | _ | _ |
| Executive office of education* | 3,589 | 5.3 | 3,478 | 5.1 | 3,320 | 5.5 | 3,201 | 5.6 | 3,008 | 5.3 |
| Center for Health and Information Analysis | 23 | _ | 27 | _ | 28 | _ | 26 | _ | 9 | _ |
| Massachusetts school building assistance | 621 | 0.9 | 626 | 0.9 | 732 | 1.2 | 869 | 1.5 | 1,037 | 1.8 |
| Higher education | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Public safety and homeland security | 1,374 | 2.0 | 1,385 | 2.0 | 1,334 | 2.2 | 1,274 | 2.2 | 1,296 | 2.3 |
| Housing and economic development* | 1,021 | 1.5 | 1,048 | 1.5 | 1,021 | 1.7 | 1,035 | 1.8 | 988 | 1.7 |
| Labor and workforce development* | 259 | 0.4 | 277 | 0.4 | 269 | 0.4 | 330 | 0.6 | 350 | 0.6 |
| Medicaid | 17,183 | 25.2 | 16,825 | 24.9 | 15,087 | 25.2 | 14,035 | 24.4 | 12,286 | 21.7 |
| Pension | 1,127 | 1.7 | 1,103 | 1.6 | 902 | 1.5 | 865 | 1.5 | 878 | 1.5 |
| Direct local aid | 5,735 | 8.4 | 5,599 | 8.3 | 5,469 | 9.1 | 5,353 | 9.3 | 5,179 | 9.1 |
| Capital outlay: | | | | | | | | | | |
| Local aid | _ | _ | 1 | _ | _ | _ | _ | _ | _ | _ |
| Capital acquisition and construction | 1,202 | 1.8 | 1,162 | 1.7 | 1,205 | 2.0 | 999 | 1.7 | 854 | 1.5 |
| Debt service: | | | | | | | | | | |
| Principal/commercial paper repayment | 4,676 | 6.9 | 4,487 | 6.6 | 1,781 | 3.0 | 1,546 | 2.7 | 1,525 | 2.7 |
| Interest | 1,262 | 1.9 | 1,248 | 1.8 | 1,187 | 2.0 | 1,223 | 2.1 | 1,229 | 2.2 |
| Principal on current refunding | 188 | 0.3 | 250 | 0.4 | 203 | 0.3 | 159 | 0.3 | 230 | 0.4 |
| Other financing uses: | | | | | | | | | | |
| Payments to refunding bond escrow agent | 2,304 | 3.4 | 2,613 | 3.9 | 615 | 1.0 | 562 | 1.0 | 2,046 | 3.6 |
| Transfers | 7,215 | 10.6 | 7,094 | 10.5 | 6,676 | 11.1 | 6,907 | 12.0 | 6,972 | 12.3 |
| Total expenditures and other financing uses | \$ 68,114 | 100.0 | \$ 67,781 | 100.0 | \$ 59,973 | 100.0 | \$ 57,461 | 100.0 | \$ 56,739 | 100.0 |
| Change in Governmental Fund Balance | \$ 324 | | \$ (32) | | \$ 686 | | \$ (251) | | \$ (1,448) | |
| | y 324 | | + (32) | | 2 000 | | y (201) | | → (1,++0) | |

^{*} NOTE: Reflects departmental and functional reorganizations as of the year implemented. Prior years not restated.



| \$ 58 757 | Total | 2011 | | | | | | | % |
|--------------|-------|-----------|-------|-----------|-------|--------------|-------|-----------|-------|
| | 0.1 | | Total | 2010 | Total | 2009 | Total | 2008 | Total |
| 757 | 0.1 | \$ 58 | 0.1 | \$ 59 | 0.1 | \$ 60 | 0.1 | \$ 58 | 0.1 |
| | 1.4 | 771 | 1.4 | 769 | 1.5 | 797 | 1.5 | 796 | 1.6 |
| 3 | _ | 4 | _ | 4 | _ | 3 | _ | 3 | _ |
| 7 | _ | 5 | _ | 5 | _ | 8 | _ | 9 | _ |
| 41 | 0.1 | 45 | 0.1 | 52 | 0.1 | 51 | 0.1 | 51 | 0.1 |
| 5,282 | 9.9 | 5,084 | 9.6 | 4,862 | 9.4 | 5,097 | 9.8 | 5,089 | 10.0 |
| 17 | _ | 18 | _ | 18 | _ | 19 | _ | 19 | _ |
| 55 | 0.1 | 34 | 0.1 | 52 | 0.1 | 53 | 0.1 | 45 | 0.1 |
| 2 | _ | 2 | _ | 2 | _ | 2 | _ | 2 | _ |
| 110 | 0.2 | 104 | 0.2 | 102 | 0.2 | 112 | 0.2 | 111 | 0.2 |
| 1 529 | 1.0 | 3 514 | 1.0 | 1 394 | 0.8 | 1 296 | 0.6 | 1 295 | 0.6 |
| 2 | 1.0 | 2 | 1.0 | 2 | 0.8 | 3 | 0.0 | 293 | 0.0 |
| 24 | _ | 25 | _ | 28 | 0.1 | 37 | 0.1 | 36 | 0.1 |
| 1 | | 25 | | | 0.1 | - J | 0.1 | _ | 0.1 |
| 14 | _ | 14 | _ | 13 | _ | 14 | _ | 14 | _ |
| 1,949 | 3.7 | 1,852 | 3.3 | 1,686 | 3.3 | 1,709 | 3.4 | 1,528 | 3.1 |
| 351 | 0.7 | 368 | 0.7 | 403 | 0.8 | 352 | 0.7 | 312 | 0.6 |
| 7,301 | 13.6 | 6,791 | 12.8 | 6,655 | 12.9 | 6,684 | 12.9 | 6,423 | 12.6 |
| _ | _ | _ | _ | 474 | 0.9 | 389 | 0.8 | 347 | 0.7 |
| 1,679 | 3.1 | 2,086 | 3.9 | 1,209 | 2.3 | _ | _ | _ | _ |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 3,069 | 5.8 | 3,232 | 6.1 | 2,968 | 5.8 | 2,920 | 5.6 | 2,205 | 4.3 |
| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 975 | 1.8 | 791 | 1.5 | 973 | 1.9 | 657 | 1.3 | 765 | 1.5 |
| _ | _ | _ | _ | _ | _ | _ | _ | 131 | 0.3 |
| 1,208 | 2.3 | 1,146 | 2.2 | 1,282 | 2.5 | 1,416 | 2.7 | 1,407 | 2.8 |
| 999 | 1.9 | 1,082 | 2.0 | 1,060 | 2.1 | 793 | 1.5 | 710 | 1.4 |
| 455 | 0.9 | 478 | 0.9 | 447 | 0.9 | 398 | 0.8 | 308 | 0.6 |
| 11,708 | 22.0 | 12,124 | 22.8 | 10,678 | 20.8 | 10,843 | 20.9 | 9,770 | 19.2 |
| 801 | 1.5 | 744 | 1.4 | 587 | 1.1 | 647 5 209 | 1.2 | 368 | 0.7 |
| 4,991 | 9.4 | 4,846 | 9.1 | 5,030 | 9.8 | 5,208 | 10.1 | 5,108 | 10.1 |
| | | | | 1 | | 3 | | 10 | |
| 847 | 1.6 | 885 | 1.7 | 1,300 | 2.5 | 2,514 | 4.9 | 1,698 | 3.3 |
| 047 | 1.0 | 665 | 1.7 | 1,500 | 2.3 | 2,314 | 4.7 | 1,070 | 5.5 |
| 1,297 | 2.4 | 1,071 | 2.0 | 1,300 | 2.5 | 1,296 | 2.5 | 1,336 | 2.6 |
| 1,207 | 2.3 | 1,149 | 2.2 | 1,107 | 2.2 | 1,114 | 2.2 | 1,150 | 2.3 |
| | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | | | | | | | | | |
| 388 | 0.7 | 945 | 1.8 | 537 | 1.0 | 410 | 0.8 | _ | _ |
| 7,189 | 13.5 | 6,947 | 13.1 | 7,395 | 14.4 | 7,887 | 15.2 | 10,141 | 20.0 |
| \$ 53,319 | 100.0 | \$ 53,217 | 100.0 | \$ 51,455 | 100.0 | \$ 51,789 | 100.0 | \$ 50,810 | 100.0 |
| \$ 1,051 | | \$ 681 | | \$ (476) | | \$ (2,001) | | \$ (674) | |

Personal Income by Industry Last Ten Calendar Years

(Amounts in millions)

| | 2016 | 2015 | 2014 | 2013 | 2012 |
|--|------------|------------|------------|------------|------------|
| Total personal income | \$ 442,500 | \$ 415,636 | \$ 396,206 | \$ 381,271 | \$ 363,944 |
| Unearned income | 108,349 | 97,728 | 94,494 | 91,615 | 87,333 |
| Farm earnings | 151 | 195 | 178 | 151 | 150 |
| Nonfarm earnings | 334,000 | 317,713 | 301,534 | 289,505 | 276,461 |
| Private earnings | 292,750 | 272,533 | 262,843 | 252,939 | 243,502 |
| Agricultural services, forestry, fishing | 677 | 406 | 354 | 373 | 426 |
| Mining | 379 | 276 | 270 | 201 | 113 |
| Construction | 19,473 | 17,197 | 15,481 | 14,759 | 13,426 |
| Manufacturing | 27,181 | 26,497 | 25,921 | 25,341 | 26,375 |
| Durable goods | 18,894 | 18,193 | 18,224 | 17,977 | 19,223 |
| Nondurable goods | 8,287 | 8,304 | 7,697 | 7,364 | 7,152 |
| Transportation and utilities | 8,330 | 7,600 | 7,295 | 7,083 | 6,742 |
| Wholesale trade | 14,621 | 13,938 | 13,546 | 13,483 | 12,979 |
| Retail trade | 15,520 | 14,716 | 14,137 | 13,565 | 13,333 |
| Services | 233,750 | 191,903 | 185,839 | 178,134 | 170,109 |
| Government | 41,130 | 39,921 | 38,691 | 36,567 | 32,959 |
| Federal, civilian | 5,427 | 5,202 | 5,007 | 4,792 | 5,442 |
| Military | 860 | 860 | 874 | 943 | 1,221 |
| State and local | 34,843 | 33,859 | 32,810 | 30,832 | 26,296 |
| Personal income tax revenue (fiscal year, statutory basis) | \$ 14,394 | \$ 14,449 | \$ 13,202 | \$ 12,831 | \$ 11,911 |
| Total personal income | \$442,500 | \$415,636 | \$ 396,206 | \$ 381,271 | \$ 363,944 |
| Average Effective Rate | 3.25% | 3.48% | 3.33% | 3.40% | 3.30% |
| Highest Earned Income Tax Rate | 5.10% | 5.15% | 5.20% | 5.25% | 5.25% |

Sources: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System and the Massachusetts Department of Revenue. Average effective rate is individual income tax revenue divided by personal income.

Note: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System adjusted its methodology in 2008. Prior years restated.

| 2010 | 2009 | 2008 | 2007 |
|------------|---|--|--|
| \$ 336,400 | \$ 324,680 | \$ 335,722 | \$ 322,543 |
| 81,190 | 78,336 | 80,365 | 71,529 |
| 186 | 137 | 180 | 135 |
| 255,024 | 246,208 | 255,176 | 250,878 |
| 223,784 | 215,396 | 225,122 | 222,302 |
| 383 | 376 | 383 | 405 |
| 97 | 101 | 181 | 301 |
| 11,687 | 11,717 | 13,671 | 14,900 |
| 25,108 | 23,290 | 25,449 | 25,865 |
| 18,053 | 16,466 | 18,170 | 18,464 |
| 7,055 | 6,824 | 7,280 | 7,401 |
| 6,208 | 6,029 | 6,235 | 5,891 |
| 12,501 | 12,458 | 13,412 | 13,025 |
| 12,599 | 12,255 | 12,545 | 12,960 |
| 155,202 | 149,171 | 153,246 | 148,954 |
| | | | |
| 31,240 | 30,812 | 30,054 | 28,577 |
| 5,431 | 5,314 | 5,157 | 5,045 |
| 1,260 | 1,220 | 1,092 | 1,025 |
| 24,550 | 24,278 | 23,806 | 22,507 |
| | | | |
| \$ 10,110 | \$ 10,584 | \$ 12,484 | \$ 11,400 |
| \$ 336,400 | \$ 324,680 | \$335,722 | \$ 322,543 |
| 3.00% | 3.30% | 3.70% | 3.50% |
| 5.30% | 5.30% | 5.30% | 5.30% |
| | \$336,400 81,190 186 255,024 223,784 383 97 11,687 25,108 18,053 7,055 6,208 12,501 12,599 155,202 31,240 5,431 1,260 24,550 \$10,110 \$336,400 3.00% | \$336,400 \$324,680 81,190 78,336 186 137 255,024 246,208 223,784 215,396 383 376 97 101 11,687 11,717 25,108 23,290 18,053 16,466 7,055 6,824 6,208 6,029 12,501 12,458 12,599 12,255 155,202 149,171 31,240 30,812 5,431 5,314 1,260 1,220 24,550 24,278 \$10,110 \$10,584 \$336,400 \$324,680 3.00% 3.30% | \$336,400 \$324,680 \$335,722 81,190 78,336 80,365 186 137 180 255,024 246,208 255,176 223,784 215,396 225,122 383 376 383 97 101 181 11,687 11,717 13,671 25,108 23,290 25,449 18,053 16,466 18,170 7,055 6,824 7,280 6,208 6,029 6,235 12,501 12,458 13,412 12,599 12,255 12,545 155,202 149,171 153,246 31,240 30,812 30,054 5,431 5,314 5,157 1,260 1,220 1,092 24,550 24,278 23,806 \$10,110 \$10,584 \$12,484 \$336,400 \$324,680 \$335,722 3.00% 3.30% 3.70% |

Commonwealth of Massachusetts Personal Income Tax Filers and Liability by Income Level Calendar (Tax) Years 2015 and 2006

(Amounts, except income level are in thousands)

Calendar Year 2015 (or Fiscal Year 2016)

| Income Level | Number of Filers | Percentage of Total | Personal Income Tax Liability | Percentage of Total |
|----------------------|---------------------|------------------------|-------------------------------------|------------------------|
| \$100,001 and higher | 767,806 | 20.4% | \$ 9,973,474 | 73.0% |
| \$75,001 - \$100,000 | 304,463 | 8.1% | 1,120,835 | 8.2% |
| \$50,001 - \$75,000 | 485,199 | 12.9% | 1,214,919 | 8.9% |
| \$25,001 - \$50,000 | 801,169 | 21.3% | 1,040,421 | 7.6% |
| \$10,001 - \$25,000 | 668,452 | 17.7% | 273,681 | 2.0% |
| \$10,000 and lower | 739,023 | 19.6% | 35,019 | 0.3% |
| Total | 3,766,112 | 100.0% | \$ 13,658,349 | 100.0% |

Calendar Year 2006 (or Fiscal Year 2007)

| Income Level | Number of Filers | Percentage of Total | Personal Income Tax Liability | Percentage of Total |
|----------------------|---------------------|------------------------|-------------------------------------|------------------------|
| \$100,001 and higher | 525,235 | 15.4% | \$ 6,781,949 | 65.2% |
| \$75,001 - \$100,000 | 282,446 | 8.3% | 1,061,034 | 10.2% |
| \$50,001 - \$75,000 | 455,418 | 13.3% | 1,162,407 | 11.2% |
| \$25,001 - \$50,000 | 791,755 | 23.2% | 1,070,143 | 10.3% |
| \$10,001 - \$25,000 | 656,999 | 19.3% | 287,161 | 2.8% |
| \$10,000 and lower | 701,070 | 20.5% | 33,004 | 0.3% |
| Total | 3,412,923 | 100.0% | \$ 10,395,698 | 100.0% |

Source: Massachusetts Department of Revenue - 2015 is the most recent tax year for which complete data is available.

Ten -Year Schedule of Per Capita General Long-Term Bonded Debt and Capital Leases

(Amounts in thousands, except for percentages)

| | Governmenta | l Activities | Busin | ess-Typ | e Act | ivities | | | | | | | | | | |
|------------------------------------|---------------|-----------------------|--------|---------|-------|-------------------|--------------------------|-------|--------------|--------|------------------------------|-------|-----------------------------|--------|----|----------------------------|
| Fiscal Year Ended June 30 | Bonded Debt | Capital Leases (2) | Bonde | d Debt | | Capital Leases | Tota Prima Governr | ry | Prior `Perso | nal | Massach Resid Populati | lent | Debt Percent Personal | age of | De | ount of bt Per apita |
| 2017 | \$ 26,445,665 | \$ 30,856 | \$ 4,5 | 29,353 | \$ | 8,979 | \$ 31,014 | 1,853 | \$ 442,50 | 00,000 | | 6,812 | | 7.0% | \$ | 4.55 |
| 2016 | 25,079,591 | 41,302 | 4,4 | 38,282 | | 9,887 | 29,569 | ,062 | 415,63 | 36,000 | | 6,784 | | 7.1% | | 4.36 |
| 2015 | 23,826,301 | 42,928 | 4,5 | 53,105 | | 9,895 | 28,432 | 2,229 | 396,20 | 06,000 | | 6,750 | | 7.2% | | 4.22 |
| 2014 | 22,419,852 | 55,878 | 4,2 | 43,731 | | 14,529 | 26,733 | 3,990 | 381,2 | 71,000 | | 6,707 | | 7.0% | | 3.99 |
| 2013 | 21,513,039 | 50,831 | 3,7 | 36,432 | | 19,299 | 25,319 | ,601 | 363,94 | 43,750 | | 6,658 | | 7.0% | | 3.81 |
| 2012 | 21,907,683 | 60,457 | 3,3 | 70,389 | | 23,327 | 25,361 | ,856 | 352,24 | 12,750 | | 6,612 | | 7.2% | | 3.87 |
| 2011 | 20,875,055 | 60,975 | 3,2 | 277,413 | | 31,105 | 24,244 | 1,548 | 336,39 | 99,750 | | 6,566 | | 7.2% | | 3.72 |
| 2010 | 19,726,507 | 76,608 | 2,7 | 31,124 | | 40,924 | 22,575 | 5,163 | 324,68 | 80,250 | | 6,518 | | 7.0% | | 3.49 |
| 2009 | 19,264,569 | 109,765 | 2,1 | 03,675 | | 58,885 | 21,536 | 5,894 | 335,72 | 21,500 | | 6,469 | | 6.4% | | 3.35 |
| 2008 | 18,734,440 | 83,741 | 2,0 | 26,551 | | 67,631 | 20,912 | 2,363 | 322,54 | 12,500 | | 6,432 | | 6.5% | | 3.26 |

- (1) Excludes Massachusetts School Building Authority debt. Amounts of bonded debt for governmental activities are the amount of debt for statutory debt calculation purposes. For fiscal 2008 through 2012, debt outstanding was defined in state finance law as net proceeds of debt issued. State finance law was amended, effective January 1, 2013, to change the statutory definition of outstanding debt from net proceeds to principal. Therefore, fiscal years prior to 2013 are calculated using net proceeds; fiscal 2013 and thereafter are calculated using principal.
- (2) Governmental capital leases exclude the lease between the Commonwealth and the Route 3 North Transportation Improvement Association, a discretely presented component unit.
- (3) Business-type activities bond debt includes notes payable of the Institutions of Higher Education.
- (4) Population estimates have been restated to most current United States Census Bureau Data. Population data is reported as of July 1 of the previous year. Source: HTTP://www.fedstats.gov (US Census Bureau.)

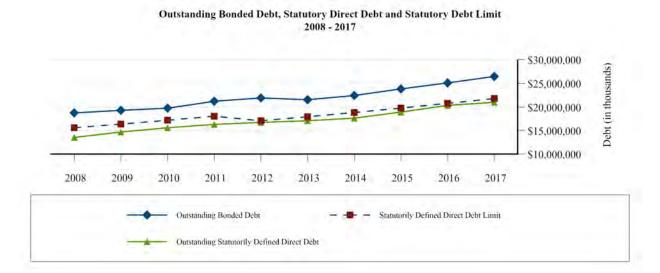
Ten - Year Per Capita Debt and Capital Leases \$5.00 \$4.00 % of Personal Income 7.0 6.8 6.6 6.4 6.2 \$1.00 6.0 5.8 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 Per Capita % of Personal Income

Ten Year Schedule of Outstanding Direct Debt and Statutory Debt Limit

(Amounts in thousands)

| | 2017 (3) | 2016 (3) | 2015 (3) | 2014 (3) | 2013 (3) |
|--|-----------------|--------------|--------------|----------------|----------------------|
| Outstanding principal as of June 30 (1) | \$26,445,665 | \$25,079,591 | \$23,826,301 | \$22,419,852 | \$ 21,513,039 |
| Plus/(less) amounts excluded: | \$ 20, 1.10,000 | \$20,075,051 | \$25,020,501 | \$ 22, 117,002 | ψ 21 ,010,000 |
| Net amortized (discount)/premium and issuance costs | | _ | _ | _ | _ |
| Total net proceeds/principal | 26,445,665 | 25,079,591 | 23,826,301 | 22,419,852 | 21,513,039 |
| Less net proceeds/principal of direct debt excluded from statutory debt limit: | | | | | |
| Central artery project bonds | (1,110,195) | (1,150,296) | (1,197,127) | (1,241,263) | (1,303,013) |
| Accelerated bridge program | (2,380,740) | (2,192,930) | (2,195,004) | (1,756,395) | (1,088,605) |
| County debt assumed | _ | _ | _ | _ | _ |
| (Premium)/discount | _ | _ | _ | _ | _ |
| Grant anticipation notes (2) | _ | _ | _ | (178,390) | (349,100) |
| School Modernization and Reconstruction Trust Bonds | (632,348) | (652,197) | (689,446) | (723,917) | (764,337) |
| Convention center bonds | (575,420) | (597,630) | (618,705) | (638,700) | (638,700) |
| MBTA forward funding bonds | (207) | (207) | (207) | (207) | (207) |
| Special obligation gas bonds | (128,270) | (170,735) | (210,635) | (249,705) | (296,395) |
| Rail enhancement program bonds (4) | (644,540) | _ | _ | _ | _ |
| Outstanding direct debt, net proceeds/principal | 20,973,945 | 20,315,596 | 18,915,177 | 17,631,275 | 17,072,682 |
| Statutory debt limit* | 21,786,126 | 20,748,692 | 19,760,659 | 18,819,675 | 17,923,500 |
| Debt margin (debt limit less direct debt) | \$ 812,181 | \$ 433,096 | \$ 845,482 | \$ 1,188,400 | \$ 850,818 |
| Debt margin as a percentage of direct debt limit | 3.7% | 2.1% | 4.3% | 6.3% | 4.7% |

- (1) Exclusive of the Massachusetts School Building Authority debt.
- (2) Inclusive of crossover refunding amounts.
- (3) For fiscal 2008 through 2012, debt outstanding was defined in state finance law as net proceeds of debt issued. State finance law was amended, effective January 1, 2013, to change the statutory definition of outstanding debt from net proceeds to principal. Therefore, fiscal years prior to 2013 are calculated using net proceeds; fiscal 2013 and thereafter are calculated using principal.
- (4) Section 4 of Chapter 220 of the Acts of 2016 exempted bonds issued under the Rail Enhancement Program from the statutory debt limit.



^{*} Section 60A of Chapter 165 of the Acts of 2012, as amended, reset the statutory defined debt limit, effective July 1, 2012, to \$17.070 billion

| 2012 | 2011 | 2010 | 2009 | 2008 |
|--------------|--------------|--------------|--------------|--------------|
| \$21,433,553 | \$20,875,056 | \$19,509,819 | \$19,047,679 | \$18,611,105 |
| | | | | |
| 474,130 | 335,078 | 216,688 | 216,890 | 123,335 |
| 21,907,683 | 21,210,134 | 19,726,507 | 19,264,569 | 18,734,440 |
| (1,342,841) | (1,356,606) | (1,243,250) | (1,401,581) | (1,434,654) |
| | | (1,243,230) | (1,401,501) | (1,434,034) |
| (1,095,385) | (676,125) | (225) | (200) | |
| (75) | (150) | (225) | (300) | (375) |
| (474,130) | (335,078) | 216,688 | 216,890 | 123,335 |
| (510,385) | (666,790) | (997,467) | (1,134,797) | (1,536,206) |
| (795,009) | (824,279) | (894,502) | (921,751) | (946,285) |
| (638,700) | (643,715) | (643,715) | (643,715) | (643,715) |
| (207) | (44,472) | (165,559) | (231,000) | (309,203) |
| (337,545) | (371,665) | (419,785) | (456,984) | (482,953) |
| | | | | |
| 16,713,406 | 16,291,254 | 15,578,692 | 14,691,331 | 13,504,384 |
| 17,070,000 | 18,042,424 | 17,183,261 | 16,365,011 | 15,585,725 |
| \$ 356,594 | \$ 1,751,170 | \$ 1,604,569 | \$ 1,673,680 | \$ 2,081,341 |
| 2.1% | 9.7% | 9.3% | 10.2% | 13.4% |

Ten Fiscal Year Schedule of Pledged Revenue Coverage

Special Obligation Highway Bonds (Motor Fuels Taxation and Motor Vehicle Fees), Convention Center Bonds (Tax Incremental Financing) and Grant Anticipation Notes (Federal Highway Grants)

(Statutory Basis, Amounts in Thousands, Except for Federal Highway Appropriations which are in Billions and on a Federal Fiscal Year, and Except for Ratios)

| | 2017 | 2016 | 2015 | 2014 | 2013 |
|---------------|------|------|------|------|------|
| Highway Dands | | | | | |

Highway Bonds

For issues prior to December 2010, the bonds are secured by a pledge of 6.86¢ of the 21¢ per gallon state gasoline excise tax for FY2008 and before. For FY2009 and after, the pledge is up to 10¢ of the tax. Bonds issued in December 2010, May 2012 and November 2013 (Commonwealth Transportation Fund, or "CTF bonds") are secured by a senior lien on 17.085 cents of the total 24 cent per gallon gasoline tax, the full 21 cents per gallon of special fuels taxes (comprised primarily of taxes on diesel fuel), the full 19.1% of the average price per gallon tax on liquefied natural gas and all Registry of Motor Vehicle fees deposited in the Commonwealth Transportation Fund. Federal Build America Bonds subsidies are also pledged to all CTF bonds. The bonds also have a subordinate lien on 6.86¢ of the 24¢ per gallon gasoline tax not included in the senior lien. Revenues pledged to the bonds are available prior to use for any other purposes. Thus, operating expenses paid from these revenue sources are not applicable for the purpose of calculating debt service coverage ratios and are not shown in this table. The 2010 bonds were issued as federally taxable Build America Bonds/Recovery Zone Economic Development Bonds; the programs provide an interest subsidy of 35-45% directly to the Commonwealth. The interest subsidy is shown as pledged funds and debt service is gross of the subsidy.

| Pre-2010 Bond Issues Tax Receipts Operating Expenses | \$ | 193,122 N/A | \$ | 190,803 N/A | \$ | 187,913 N/A | | \$ 187,467 N/A | | \$ 186,638 N/A |
|---|--------|-----------------------------------|-------|-----------------------------------|-------|--------------------------------|----|----------------------|----|----------------------|
| Net Available Revenues | \$ | 193,122 | \$ | 190,803 | \$ | 187,913 | | \$ 187,467 | - | \$ 186,638 |
| Annual Debt Service | \$ | 51,276 | \$ | 50,906 | \$ | 52,225 | | \$ 52,228 | | \$ 58,922 |
| Debt Service Coverage Ratio | | 3.77 | | 3.75 | | 3.60 | | 3.59 | | 3.17 |
| Ratings History of Bonds (Fitch, Moody's and S&P)* Post-2010 Bond Issues (Includes Revenues in Excess of Those Neede | d to l | AA+, Aa1, AAA Pay Debt Serv | ice o | AA+, Aa1, AAA on Pre-2010 H | lighv | AA+, Aa1, AAA vay Bonds) | | AA+, Aa1, AAA | | AA+, Aa1, AAA |
| Receipts | \$ | 1,328,886 | \$ | 1,294,357 | \$ | 1,283,248 | ** | \$ 1,210,405 | ** | \$ 1,170,297 |
| Operating Expenses | | N/A | | N/A | | N/A | | N/A | | N/A |
| Net Available Revenues | \$ | 1,328,886 | \$ | 1,294,357 | \$ | 1,283,248 | | \$ 1,210,405 | =' | \$ 1,170,297 |
| Annual Debt Service | \$ | 129,024 | \$ | 94,859 | \$ | 81,054 | | \$ 69,921 | | \$ 58,108 |
| Debt Service Coverage Ratio | | 10.30 | | 13.65 | | 15.83 | | 17.31 | | 20.14 |
| Ratings History of Bonds (Fitch, Moody's and S&P)* | N | A, Aaa, AAA | | NA, Aaa, AAA | | NA, Aaa, AAA | | NA, Aaa, AAA | | NA, Aaa, AAA |

Convention Center Bonds

These bonds are secured by amounts payable to the Convention Center Fund, which include certain hotel tax receipts in Boston, Cambridge, Springfield, surcharges on car rentals, parking, sightseeing tours and cruises and sales tax receipts in those cities. Revenues pledged to the bonds are available prior to use for any other purposes. Thus, operating expenses paid from these revenue sources are not applicable for the purpose of calculating debt service coverage rations and are not shown in this table.

| Receipts Operating Expenses | \$ 133,789 N/A | \$ 134,806 N/A | \$ 124,937 N/A | \$ 109,879 N/A | \$ 100,631 N/A |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| Net Available Revenues | \$ 133,789 | \$ 134,806 | \$ 124,937 | \$ 109,879 | \$ 100,631 |
| Annual Debt Service | \$ 54,540 | \$ 54,540 | \$ 52,852 | \$ 34,486 | \$ 34,486 |
| Debt Service Coverage Ratio | 2.45 | 2.47 | 2.36 | 2.99 | 2.76 |
| Ratings History of Bonds (Fitch, Moody's and S&P)* | NA, A1, A |

Grant Anticipation Notes (GANS)

Notes issued prior to December 2010 ("Senior Federal Highway Notes") were secured by all federal highway reimbursements, which are deposited in the Grant Anticipation Note Trust fund. The outstanding pre-December 2010 notes were retired in June 2015 and Notes issued in December 2010 ("Federal Highway Grant Anticipation Notes") and after are secured by all federal highway reimbursements. Revenues pledged to the notes are available prior to use for any other purposes. Thus, operating expenses paid from these revenue sources are not applicable for the purpose of calculating debt service coverage rations and are not shown in this table. The 2010 bonds were issued as federally taxable Build America Bonds; the program provides an interest subsidy of 35% directly to the Commonwealth. The interest subsidy is shown as pledged funds and debt service is gross of the subsidy.

Post 2010 GANS (Includes Revenues in Excess of those Needed to Pay Debt Service on Pre-2010 Highway Bonds)

| Receipts | \$ 1,688,830 | \$ 1,751,672 | \$ 1,556,243 | \$ 1,562,732 | \$ 1,575,266 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| Operating Expenses | N/A | N/A | N/A | N/A | N/A |
| Net Available Revenues | \$ 1,688,830 | \$ 1,751,672 | \$ 1,556,243 | \$ 1,562,732 | \$ 1,575,266 |
| Annual Debt Service | \$ 80,486 | \$ 76,049 | \$ 33,472 | \$ 4,268 | \$ 4,973 |
| Debt Service Coverage Ratio | 20.98 | 23.03 | 46.49 | 366.15 | 316.76 |
| Ratings History of Bonds (Fitch, Moody's and S&P)* | AA+, Aa1, | AA+, Aa1, | AA+, Aa1, | AA+, Aa1, | AA+, Aa2, |
| *Uninsured rating, if available. | AAA | AAA | AAA | AAA | AAA |

^{**} Receipts for fiscal years 2016 - 2013 have been restated to reflect 3 cent increase in gasoline tax that is pledged to post-2010 highway bonds.

| 2012 | 2011 | 2010 | 2009 | 2008 |
|------|------|------|------|------|
| | | | | |

| \$ | 190,129 | \$ 189,763 | \$ 188,666 | \$ | 189,246 | \$ 194,785 |
|----|--------------|---------------|---------------|----|--------------|---------------|
| | N/A | N/A | N/A | | N/A | N/A |
| \$ | 190,129 | \$ 189,763 | \$ 188,666 | \$ | 189,246 | \$ 194,785 |
| \$ | 58,939 | \$ 59,453 | \$ 58,931 | \$ | 58,924 | \$ 56,535 |
| | 3.23 | 3.19 | 3.2 | | 3.21 | 3.45 |
| A | A+, Aa1, AAA | AA, Aa1, AAA | AA, Aa2, AA+ | Α | A+, Aa3, AA+ | AA-, Aa3, AA |

| \$ 1,121,709 | \$ 626,619 |
|-----------------|---------------|
| N/A | N/A |
| \$ 1,121,709 | \$ 626,619 |
| \$ 32,623 | \$ 14,318 |
| 34.38 | 43.76 |
| NA, Aaa, AAA | NA, Aaa, AAA |

| \$ 94,234 | \$ 84,905 | \$ 75,432 | \$ 73,918 | \$ 78,984 |
|--------------|--------------|--------------|--------------|--------------|
| N/A | N/A | N/A | N/A | N/A |
| \$ 94,234 | \$ 84,905 | \$ 75,432 | \$ 73,918 | \$ 78,984 |
| \$ 34,486 | \$ 34,486 | \$ 34,486 | \$ 34,486 | \$ 34,486 |
| 2.59 | 2.40 | 2.08 | 2.04 | 2.22 |
| NA, A1, A | NA, A1, A | NA, A1, A | NA, A1, A | NA, A2, A |

| \$ | 1,674,485 | \$ | 909,546 |
|----|---------------|----|--------------|
| | N/A | | N/A |
| \$ | 1,674,485 | \$ | 909,546 |
| \$ | 4,271 | \$ | 2,039 |
| | 392.06 | | 446.01 |
| A | AA+, Aa2, AAA | Α | A+, Aa2, AAA |

Ten-Year Schedule of Percentage of Annual Debt Service Expenditures

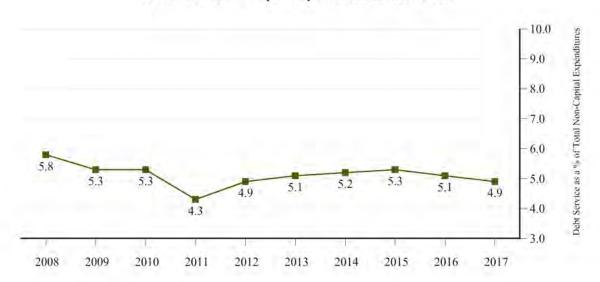
For General Bonded Debt to Total Non-Capital Expenditures - Fund Perspective All Governmental Fund Types

(Amounts in thousands)

| Fiscal year ended June 30 | D | Debt service (1) | | tal non-capital penditures (2) | Ratio (%) |
|---------------------------|----|------------------|----|-----------------------------------|-----------|
| 2017 | \$ | 2,667,043 | \$ | 54,239,919 | 4.9 |
| 2016 | | 2,720,117 | | 53,748,227 | 5.1 |
| 2015* | | 2,703,200 | | 51,171,135 | 5.3 |
| 2014* | | 2,534,285 | | 48,312,870 | 5.2 |
| 2013* | | 2,351,074 | | 45,733,298 | 5.1 |
| 2012* | | 2,160,589 | | 44,070,405 | 4.9 |
| 2011* | | 1,904,881 | | 43,881,014 | 4.3 |
| 2010* | | 2,116,507 | | 40,152,632 | 5.3 |
| 2009* | | 2,144,733 | | 40,605,292 | 5.3 |
| 2008* | | 2,238,939 | | 38,709,686 | 5.8 |

- (1) Business type activities debts are secured solely by leases between the Institutions of Higher Education and two blended building authorities. Excludes Massachusetts School Building Authority debt service paid by the Authority.
- (2) Expenditures are shown net of Massachusetts School Building Authority expenditures as they are school building assistance capital grants to local cities and towns.
- * Amounts have been restated to conform to current year presentation.

Debt Service to Non-Capital Expenditures Ratio 2008 - 2017



Component Units Revenue Bond Coverage For the Last Ten Fiscal Years

(Amounts in thousands)

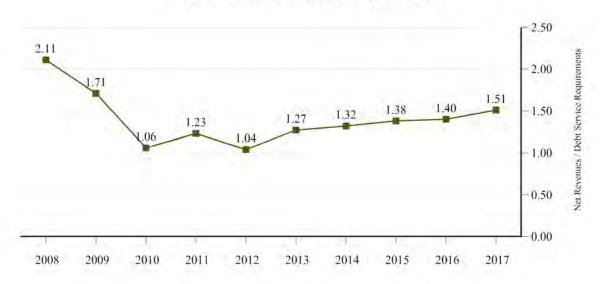
| Fiscal year ended June 30 | Net Revenues ⁽¹⁾ | | Debt service requirements ⁽²⁾ | Coverage Ratio (%) |
|------------------------------|-----------------------------|-----------|--|--------------------|
| 2017 | \$ | 1,763,564 | \$ 1,169,651 | 1.51 |
| 2016 | | 1,817,135 | 1,298,267 | 1.40 |
| 2015 | | 1,950,292 | 1,417,420 | 1.38 |
| 2014 | | 1,481,374 | 1,126,392 | 1.32 |
| 2013 | | 1,585,500 | 1,244,358 | 1.27 |
| 2012 | | 1,584,013 | 1,517,899 | 1.04 |
| 2011 | | 1,444,813 | 1,170,149 | 1.23 |
| 2010 | | 1,460,045 | 1,383,231 | 1.06 |
| 2009 | | 1,825,018 | 1,066,175 | 1.71 |
| 2008 | | 1,753,149 | 831,978 | 2.11 |

- (1) Net revenues represent revenue pledged and available for the repayment of revenue bonds. In most cases, revenue pledged for the bonds is available prior to use for any other purposes. Thus operating expenses paid from these revenue sources are not applicable when calculating debt service coverage and are not subtracted from pledged revenues.
- (2) Debt service requirements represent total debt service payments made less debt service paid on short-term borrowings of only those Authorities with revenue bonds outstanding.

Source: Office of the Comptroller

See Independent Auditors' Report

Component Units Revenue Bond Coverage 2008 - 2017



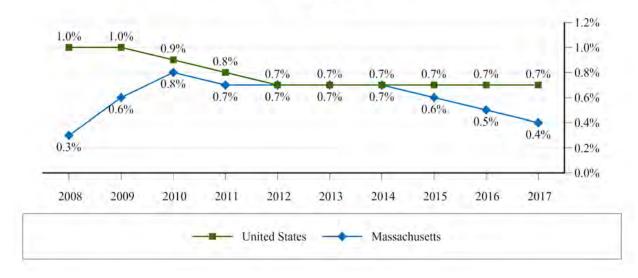
Ten-Year Schedule of Massachusetts and United States Resident Population

(Amounts in thousands)

| | | | Massachusetts | | |
|--------------|---------|--------|----------------|--------|---------------|
| Beginning of | United | % | Resident | % | Massachusetts |
| Fiscal Year | States | Change | Population (1) | Change | as % of U.S. |
| 2017 | 323,128 | 0.7% | 6,812 | 0.4% | 2.1% |
| 2016 | 320,897 | 0.7% | 6,784 | 0.5% | 2.1% |
| 2015 | 318,563 | 0.7% | 6,750 | 0.6% | 2.1% |
| 2014 | 316,205 | 0.7% | 6,707 | 0.7% | 2.1% |
| 2013 | 313,998 | 0.7% | 6,658 | 0.7% | 2.1% |
| 2012 | 311,663 | 0.7% | 6,612 | 0.7% | 2.1% |
| 2011 | 309,348 | 0.8% | 6,566 | 0.7% | 2.1% |
| 2010 | 306,772 | 0.9% | 6,518 | 0.8% | 2.1% |
| 2009 | 304,094 | 1.0% | 6,469 | 0.6% | 2.1% |
| 2008 | 301,231 | 1.0% | 6,432 | 0.3% | 2.1% |

⁽¹⁾ Population estimates have been restated using most current United States Census Bureau Data. Population data is reported as of July 1 of the previous year and has been restated to most recent United States Census Bureau Data.

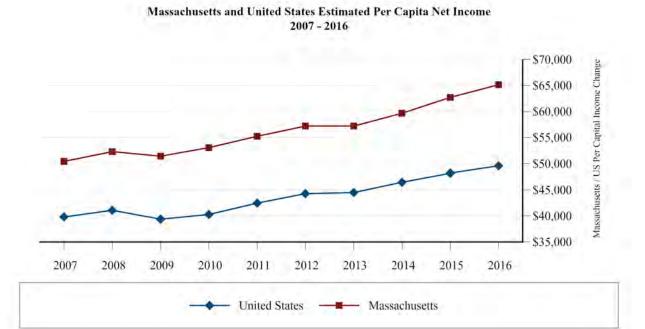
Massachusetts and United States Estimated Year-to-Year Population Change 2008 - 2017



Ten-Year Schedule of Massachusetts and United States Resident Per Capita Net Income

| | United | % | | | % | Massachusetts | |
|---------------|--------------|--------|----|--------------|--------|---------------|--|
| Calendar year | States | Change | M | assachusetts | Change | as % of U.S. | |
| 2016 | \$ 49,571 | 2.9 % | \$ | 65,137 | 3.9 % | 131.4% | |
| 2015 | 48,190 | 3.7 % | | 62,697 | 5.1 % | 130.1% | |
| 2014 | 46,464 | 4.4 % | | 59,650 | 4.3 % | 128.4% | |
| 2013 | 44,493 | 0.5 % | | 57,182 | — % | 128.5% | |
| 2012 | 44,282 | 4.3 % | | 57,192 | 3.5 % | 129.2% | |
| 2011 | 42,461 | 5.4 % | | 55,232 | 4.1 % | 130.1% | |
| 2010 | 40,277 | 2.3 % | | 53,054 | 3.2 % | 131.7% | |
| 2009 | 39,376 | (4.2)% | | 51,412 | (1.7)% | 130.6% | |
| 2008 | 41,082 | 3.2 % | | 52,283 | 3.7 % | 127.3% | |
| 2007 | 39,821 | 4.4 % | | 50,417 | 4.4 % | 126.6% | |

Source: Bureau of Economic Analysis, US Department of Commerce. Prior years restated due to revised estimates released on March 28, 2017.

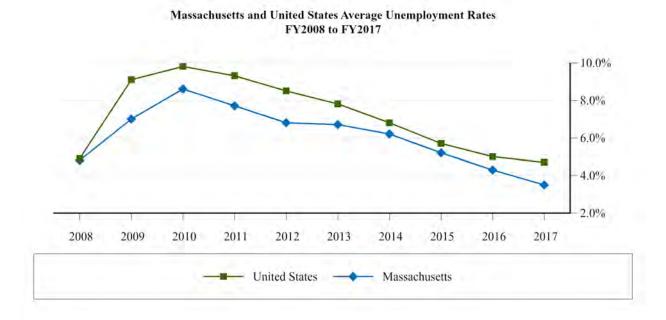


Ten-Year Schedule of Fiscal Year Annual Average Civilian Labor Force, Unemployment and Unemployment Rates For Massachusetts and the United States

(Amounts in thousands)

| | | Massachusett | S | | | | |
|----------------|----------------|--------------|---------------------|----------------|--------------|---------------------|--------------------------------------|
| Fiscal Year | Labor Force | Unemployment | Unemployment Rate % | Labor Force | Unemployment | Unemployment Rate % | Massachusetts Rate as % of U.S. Rate |
| 2017 | 3,626 | 128 | 3.5% | 159,791 | 7,454 | 4.7% | 75.7% |
| 2016 | 3,582 | 153 | 4.3% | 158,029 | 7,890 | 5.0% | 85.6% |
| 2015 | 3,580 | 187 | 5.2% | 156,618 | 8,903 | 5.7% | 91.9% |
| 2014 | 3,523 | 218 | 6.2% | 155,474 | 10,513 | 6.8% | 91.5% |
| 2013 | 3,494 | 235 | 6.7% | 155,330 | 12,076 | 7.8% | 86.5% |
| 2012 | 3,472 | 236 | 6.8% | 154,297 | 13,153 | 8.5% | 79.7% |
| 2011 | 3,464 | 268 | 7.7% | 153,615 | 14,252 | 9.3% | 83.4% |
| 2010 | 3,470 | 300 | 8.6% | 153,906 | 15,009 | 9.8% | 88.7% |
| 2009 | 3,470 | 244 | 7.0% | 154,559 | 14,094 | 9.1% | 77.1% |
| 2008 | 3,434 | 165 | 4.8% | 153,680 | 7,593 | 4.9% | 97.2% |

Source: Federal Bureau of Labor Statistics, September, 2017. Seasonally adjusted. Previous data has been updated by the Federal Bureau of Labor Statistics



Largest Private Sector Massachusetts Employers 2017 and 2008

(Alphabetical Order)

| | 017 | | 2008 | | | | |
|---|---------------------|-----------------------------------|---|---------------------|-----------------------------------|--|--|
| Employer | Headquarters | Product or Service | Employer | Headquarters | Product or Service | | |
| Bay State Medical Center, Inc. | Springfield | Hospital | Bay State Medical Center, Inc. | Springfield | Hospital | | |
| Beth Israel Deaconess Medical Center | Boston | Hospital | Beth Israel Deaconess Medical Center | Boston | Hospital | | |
| Big Y Foods, Inc. | Springfield | Supermarket | Boston Medical Center Corporation | Boston | Hospital | | |
| Boston Medical Center Corporation | Boston | Hospital | Boston University | Boston | University | | |
| Boston University | Boston | University | Brigham and Women's Hospital, Inc. | Boston | Hospital | | |
| Brigham and Women's Hospital, Inc. | Boston | Hospital | DeMoulas Supermarkets, Inc. | Tewksbury | Supermarket | | |
| DeMoulas Supermarkets, Inc. | Tewksbury | Supermarket | EMC Corporation | Hopkinton | Computer Storage & Peripherals | | |
| EMC Corporation | Hopkinton | Computer Storage & Peripherals | General Hospital Corporation | Boston | Hospital | | |
| General Hospital Corporation | Boston | Hospital | Massachusetts Institute of Technology | Cambridge | University | | |
| Massachusetts Institute of Technology | Cambridge | University | New England Medical Center | Boston | Hospital | | |
| Partners Healthcare Systems, Inc. | Boston | Hospital | President and Fellows of Harvard College | Cambridge | University | | |
| President and Fellows of Harvard College | Cambridge | University | Raytheon Company | Lexington | Electronics / Defense | | |
| Raytheon Company | Lexington | Electronics / Defense | Shaw's Supermarkets, Inc. | West Bridgewater | Supermarket | | |
| The Stop & Shop Supermarkets, Co. | Quincy | Supermarket | Southcoast Hospitals Group | New Bedford | Hospital | | |
| Shaw's Supermarkets, Inc. | West Bridgewater | Supermarket | State Street Bank and Trust Company | Boston | Banking | | |
| State Street Bank and Trust Company | Boston | Banking | The Children's Hospital Corporation | Boston | Hospital | | |
| The Children's Hospital Corporation | Boston | Hospital | Tufts University | Boston | University | | |
| The TJX Companies, Inc. | Framingham | Retail | UMASS Memorial Medical Center, Inc. | Worcester | Hospital | | |
| UMASS Memorial Medical Center, Inc. | Worcester | Hospital | Verizon New England, Inc. | Boston | Telecommunications | | |

Source: Massachusetts Executive Office of Labor and Workforce Development, Division of Unemployment Assistance - March 2017 survey. In addition, CVS Pharmacy, Inc, Home Depot U.S.A.; Inc., Target Corp, United Parcel Services, Inc., Wal-Mart Associates, Inc. and Whole Foods Market Group, Inc. are all large Massachusetts employers, but are headquartered outside of Massachusetts. Verizon New England is a subsidiary of Verizon Communications, headquartered in New York. The information is based on employers registered for unemployment insurance. The list may not include those employers who do business in Massachusetts under multiple legal corporations and those who register each store, facility or franchisee as a separate employer.

Full Time Equivalent Employees

By Function / Program Last Ten Years

| Functions/Programs | 2017 | 2016 | 2015 * | 2014 | 2013 |
|-------------------------------------|--------|--------|--------|--------|--------|
| | | | | | |
| General government | 6,905 | 7,017 | 7,696 | 7,637 | 7,627 |
| Judiciary | 7,208 | 7,263 | 7,264 | 7,195 | 7,297 |
| Energy and environmental affairs | 2,509 | 2,539 | 2,689 | 2,629 | 2,684 |
| Health and human services | 21,817 | 21,557 | 22,060 | 21,496 | 21,996 |
| Transportation and construction | 3,482 | 4,004 | 4,357 | 4,301 | 4,243 |
| Education | 815 | 907 | 970 | 1,099 | 928 |
| Public safety and homeland security | 16,522 | 16,868 | 17,057 | 17,215 | 16,907 |
| Housing and economic development | 818 | 844 | 884 | 891 | 868 |
| Higher Education: | | | | | |
| University of Massachusetts | 15,032 | 15,130 | 14,670 | 14,066 | 14,688 |
| State universities | 5,186 | 5,050 | 5,036 | 4,969 | 4,856 |
| Community colleges | 5,066 | 5,032 | 5,077 | 4,990 | 5,111 |
| Totals | 85,360 | 86,211 | 87,760 | 86,488 | 87,205 |
| Percentage change | (1.0)% | (1.8)% | 1.5% | (0.8)% | 3.2% |

Source: Office of the State Comptroller

^{*} Certain amounts were reclassified to conform to current year presentation.

[&]quot;Education" includes the Department of Elementary & Secondary Education, Executive Office of Education, Board of Higher Education and in 2009 Early Education and Care. Transportation and construction includes MassDOT. FTE's are rounded. Prior years not restated for changes. Includes approximately 6,600 FTEs transferred to the Commonwealth's payroll in FY09 and FY10 in the categories of Higher Education, Transportation and construction and Public safety and homeland security (see pages 20–21 of Management's Discussion and Analysis for details).

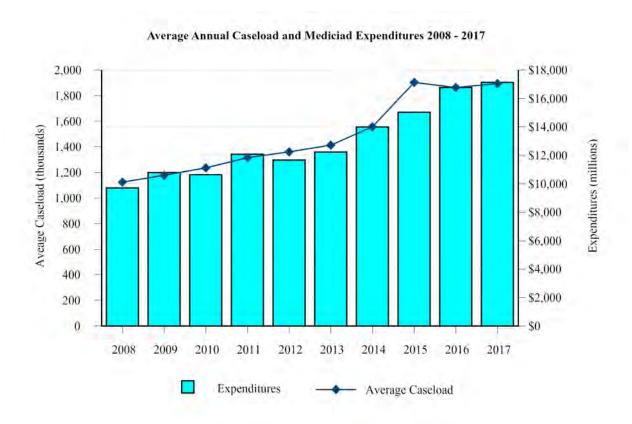
| 2012 | 2011 | 2010 | 2009 | 2008 | Change - 2017 from 2008 |
|--------|--------|--------|--------|--------|----------------------------|
| | | | | | |
| 7,408 | 8,020 | 8,280 | 6,277 | 6,368 | 8.4 % |
| 7,087 | 7,111 | 7,388 | 7,821 | 8,021 | (10.1)% |
| 2,685 | 2,737 | 2,783 | 2,955 | 2,928 | (14.3)% |
| 21,042 | 21,011 | 21,401 | 22,605 | 23,322 | (6.5)% |
| 4,230 | 4,209 | 4,127 | 3,043 | 2,892 | 20.4 % |
| 922 | 1,037 | 1,575 | 844 | 615 | 32.5 % |
| 16,503 | 15,785 | 15,857 | 13,951 | 14,242 | 16.0 % |
| 845 | 831 | 846 | 2,314 | 2,302 | (64.5)% |
| 14,159 | 14,159 | 14,031 | 13,814 | 13,651 | 10.1 % |
| 4,747 | 4,487 | 4,282 | 4,650 | 4,519 | 14.8 % |
| 4,834 | 4,684 | 4,276 | 4,781 | 4,775 | 6.1 % |
| 84,462 | 84,071 | 84,846 | 83,055 | 83,636 | 2.1 % |
| (0.9)% | 2.2% | 2.2% | (0.7)% | 1.7% | |

Average Annual Medicaid Caseload and Medicaid Expenditures - Fund Perspective Last Ten Fiscal Years

(Caseload amount in thousands, Expenditure amounts in Millions)

| Fiscal year ended June 30 | Average Annual Caseload | Medicaid expenditures | Average Expenditures per Case |
|------------------------------|----------------------------|-----------------------|----------------------------------|
| 2017* | 1,893 | \$17,183 | \$9,077 |
| 2016* | 1,863 | 16,825 | 9,031 |
| 2015* | 1,903 | 15,087 | 7,928 |
| 2014* | 1,556 | 14,035 | 9,020 |
| 2013 | 1,413 | 12,286 | 8,695 |
| 2012 | 1,361 | 11,708 | 8,602 |
| 2011 | 1,315 | 12,124 | 9,220 |
| 2010 | 1,263 | 10,678 | 8,454 |
| 2009 | 1,178 | 10,843 | 9,205 |
| 2008 | 1,124 | 9,770 | 8,690 |

^{*} Includes members in transitional coverage program starting January 1, 2014.



Massachusetts Road Inventory Calendar Year End, Lane Miles by Type Last Ten Calendar Years

| Calendar | | | | | | | Total | |
|----------|------------|----------|-----------|--------|--------|----------|-------|-------------|
| Year | Interstate | Arterial | Collector | Local | Total | % Change | Urban | Total Rural |
| 2016 | 3,204 | 15,624 | 9,050 | 43,926 | 71,804 | (1.02)% | 85.9% | 14.1% |
| 2015 | 3,204 | 15,641 | 9,048 | 44,654 | 72,547 | 0.24 % | 85.8% | 14.2% |
| 2014 | 3,211 | 15,645 | 9,048 | 44,472 | 72,376 | (0.01)% | 85.7% | 14.3% |
| 2013 | 3,211 | 15,674 | 9,058 | 44,438 | 72,381 | 0.16 % | 85.7% | 14.3% |
| 2012 | 3,212 | 15,639 | 9,038 | 44,379 | 72,268 | 0.13 % | 85.8% | 14.2% |
| 2011 | 3,212 | 15,051 | 9,611 | 44,300 | 72,174 | 0.2 % | 81.1% | 18.9% |
| 2010* | 3,210 | 15,047 | 9,607 | 44,169 | 72,033 | 0.2 % | 81.1% | 18.9% |
| 2009 | 3,212 | 14,974 | 9,589 | 44,112 | 71,887 | 0.3 % | 81.1% | 18.9% |
| 2008 | 3,212 | 14,976 | 9,591 | 43,893 | 71,672 | 0.4 % | 81.1% | 18.9% |
| 2007 | 3,213 | 14,993 | 9,566 | 43,612 | 71,383 | 0.17 % | 80.9% | 19.1% |

^{*2010} was restated to include both urban and rural roads.

Source: Massachusetts Highway Department, Bureau of Transportation Planning and Development Annual Road Inventory Reports, Lane Miles Table 8. Exclusive of shoulders

Massachusetts Real Property Owned and Leased

Annual Inventory, Acreage, Improvements and Square Footage Last Ten Years

| | Survey Year |
|---|-------------|-------------|-------------|-------------|---------------|
| Functions/Programs | 2017 | 2016 | 2015 | 2014 | 2013 |
| General Government: | | | | | |
| Total Acreage | 4,964 | 2,488 | 2,574 | 3,114 | 3,101 |
| Number of Improvements | 268 | 118 | 173 | 513 | 333 |
| Gross square footage | 6,054,449 | 4,808,125 | 6,803,498 | 10,916,681 | 9,076,550 |
| Judiciary: | | | | | |
| Total Acreage | 154 | 153 | 153 | 149 | 148 |
| Number of Improvements | 75 | 75 | 75 | 74 | 73 |
| Gross square footage | 5,224,810 | 4,843,949 | 4,843,949 | 5,310,049 | 4,700,920 |
| Energy and environmental affairs | | | | | |
| Total Acreage | 688,129 | 680,310 | 674,046 | 668,631 | 652,400 |
| Number of Improvements | 2,184 | 2,186 | 2,186 | 1,806 | 2,192 |
| Gross square footage | 8,214,843 | 8,134,142 | 8,134,142 | 6,507,161 | 7,287,961 |
| Housing and economic development: | | | | | |
| Total Acreage | 2 | 2 | 2 | _ | 2 |
| Number of Improvements | 6 | 6 | 6 | 4 | 5 |
| Gross square footage | 78,012 | 78,012 | 78,012 | 57,812 | 68,412 |
| Health and human services: | | | | | |
| Total Acreage | 2,862 | 5,568 | 5,623 | 5,834 | 5,829 |
| Number of Improvements | | 627 | 627 | 907 | 792 |
| Gross square footage | | 8,361,435 | 8,360,310 | 10,995,096 | 9,759,611 |
| Transportation and public works: | | | | | |
| Total Acreage | 7,195 | 6,968 | 6,966 | 7,014 | 6,965 |
| Number of Improvements | | 930 | 929 | 675 | 921 |
| Gross square footage | | 5,820,282 | 4,919,282 | 1,989,583 | 4,876,689 |
| Education: | | | | | |
| Total Acreage | 208 | 208 | 208 | 208 | 208 |
| Number of Improvements | | 40 | 40 | 40 | 43 |
| Gross square footage | | 207,633 | 207,633 | 205,503 | 272,352 |
| | | , | , | , | , , |
| Public safety and homeland security: | 10.271 | 10.150 | 10.150 | 10.166 | 10.160 |
| Total Acreage | | 19,150 | 19,150 | 19,166 | 19,169 997 |
| Number of Improvements | | 1,063 | 1,014 | 1,083 | |
| Gross square footage | 14,998,157 | 13,845,503 | 13,376,555 | 14,402,161 | 12,213,112 |
| Higher Education: | | | | | |
| Total Acreage | | 7,244 | 7,243 | 7,128 | 7,473 |
| Number of Improvements | , | 1,078 | 1,076 | 873 | 1,009 |
| Gross square footage | 43,339,713 | 38,443,057 | 38,411,260 | 29,666,140 | 32,594,800 |
| Totals for Commonwealth (exclusive of Component Units): | | | | | |
| Total Acreage | 729,555 | 722,091 | 715,965 | 711,244 | 695,295 |
| Number of Improvements | 6,199 | 6,123 | 6,126 | 5,975 | 6,365 |
| Gross square footage | 92,372,623 | 84,542,138 | 85,134,641 | 80,050,186 | 80,850,407 |
| Percentage Change for Commonwealth: | | | | | |
| Acreage | 1.0% | 0.9 % | 0.7% | 2.3 % | 1.4% |
| Improvement | 1.2% | — % | 2.5% | (6.1)% | _% |
| Gross square footage | 9.3% | (0.7)% | 6.4% | (1)% | 0.4% |

 $Source: \textit{Executive Office of Administration and Finance, Division of Capital Asset Management. See \ http://www.mass.gov/anf/property-mgmt-and-construction/sale-and-lease-of-state-assets/comprehensive-real-estate-serv/massets-reports.html}$

| Survey Year |
|-------------|-------------|-------------|-------------|-------------|
| 2012 | 2011 | 2010 | 2009 | 2008 |
| | | | | |
| 3,039 | 2,993 | 2,373 | 2,495 | 1,858 |
| 279 | 255 | 227 | 240 | 163 |
| 7,690,761 | 7,206,548 | 6,797,819 | 6,660,792 | 5,736,028 |
| .,, | .,,. | .,,. | .,, | -,,- |
| | | | | |
| 148 | 141 | 141 | 141 | 145 |
| 73 | 68 | 68 | 69 | 71 |
| 4,700,920 | 4,787,564 | 4,787,564 | 4,826,836 | 5,080,836 |
| | | | | |
| 642,799 | 627,286 | 623,952 | 606,662 | 591,511 |
| 2,191 | 2,182 | 2,183 | 2,170 | 2,162 |
| 7,283,666 | 7,295,922 | 7,299,322 | 7,246,280 | 7,242,870 |
| | | | | |
| 2 | 2 | 2 | 2 | 2 |
| 5 | | | | |
| | 6 | 6 | 6 | 6 |
| 68,412 | 77,642 | 77,642 | 77,642 | 77,642 |
| | | | | |
| 6,407 | 6,449 | 7,196 | 7,166 | 7,259 |
| 855 | 866 | 866 | 902 | 980 |
| 10,923,090 | 10,834,266 | 10,809,259 | 11,214,034 | 12,270,433 |
| | | | | |
| 6,972 | 7,013 | 6,966 | 7,050 | 6,930 |
| 919 | 918 | 918 | 915 | 915 |
| 4,876,689 | 4,873,783 | 4,876,689 | 4,876,936 | 4,876,936 |
| | | | | |
| 200 | 222 | 222 | 222 | 222 |
| 208 | 233 | 233 | 233 | 233 |
| 43 | 43 | 43 | 43 | 43 |
| 272,352 | 272,352 | 272,352 | 272,352 | 272,352 |
| | | | | |
| 19,172 | 19,158 | 18,693 | 18,331 | 18,324 |
| 990 | 991 | 1,029 | 1,028 | 1,023 |
| 12,191,229 | 12,141,396 | 12,685,447 | 12,632,897 | 12,631,497 |
| | | | | |
| 7,254 | 7,178 | 7,169 | 7,151 | 7,149 |
| 1,007 | 987 | 975 | 937 | 940 |
| 32,523,400 | 32,144,815 | 32,117,854 | 31,101,329 | 31,197,929 |
| ,, | ,,, | ,, | ,, | ,, |
| Z0Z 001 | 670 454 | (((B)E | 640 221 | (22 412 |
| 686,001 | 670,454 | 666,725 | 649,231 | 633,412 |
| 6,362 | 6,316 | 6,315 | 6,310 | 6,303 |
| 80,530,519 | 79,634,288 | 79,723,948 | 78,909,098 | 79,386,523 |
| | | | | |
| 2.3 % | 0.6 % | 2.7% | 2.5 % | 0.8% |
| 0.7 % | — % | 0.1% | 0.1 % | 0.1% |
| 1.1 % | (0.1)% | 1% | (0.6)% | 0.3% |

Massachusetts Public Higher Education

Enrollment and Degrees Conferred Last Ten Academic Years

| | | : | | | |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|
| Academic Year | Fall 2016 | Fall 2015 | Fall 2014 | Fall 2013 | Fall 2012 |
| ENROLLMENT | | | | | |
| <u>University System</u> | | | | | |
| Undergraduate (FTE) | 51,209 | 50,816 | 49,725 | 48,893 | 48,136 |
| Graduate (FTE) | 12,769 | 12,517 | 12,576 | 12,442 | 12,202 |
| System Enrollment | 63,978 | 63,333 | 62,301 | 61,335 | 60,338 |
| State University System | | | | | |
| Undergraduate (FTE) | 35,909 | 34,700 | 35,507 | 35,429 | 34,773 |
| Graduate (FTE) | 5,641 | 8,007 | 7,507 | 7,704 | 7,894 |
| System Enrollment | 41,550 | 42,707 | 43,014 | 43,133 | 42,667 |
| Community College System | | | | | |
| Undergraduate (FTE) | 55,336 | 59,827 | 58,764 | 64,584 | 62,445 |
| DEGREES CONFERRED | 2017 | 2016 | 2015 | 2014 | 2013 |
| University System | | | | | 2013 |
| Certificates (MD's) | 505 | 423 | 435 | 376 | 426 |
| Associate's | 73 | 85 | 103 | 96 | 121 |
| Bachelors | 12,754 | 12,125 | 11,841 | 11,544 | 10,910 |
| Masters | 3,771 | 3,669 | 3,787 | 3,559 | 3,442 |
| Doctoral | 603 | 575 | 504 | 501 | 486 |
| Cert. of Adv. Grad. Study | 76 | 86 | 81 | 77 | 62 |
| Post-Bacc. Certificate | 842 | 769 | 738 | 691 | 664 |
| First Professional | 50 | 53 | 64 | 79 | 103 |
| Total Degrees | 18,674 | 17,785 | 17,553 | 16,923 | 16,214 |
| State University System | | | | | |
| Certificates | 35 | 40 | 29 | 34 | 37 |
| Bachelors | 8,775 | 8,762 | 8,534 | 8,184 | 8,024 |
| Masters | 2,283 | 2,353 | 2,116 | 2,478 | 2,327 |
| Cert. of Adv. Grad. Study | 83 | 73 | 64 | 113 | 108 |
| Post-Bacc. Certificate | 359 | 283 | 304 | 327 | 371 |
| Total Degrees | 11,535 | 11,511 | 11,047 | 11,136 | 10,867 |
| Community College System | | | | | |
| Certificates | 3,147 | 3,131 | 3,288 | 3,365 | 2,929 |
| Associates | 11,067 | 11,318 | 11,517 | 11,341 | 10,772 |
| Total Degrees | 14,214 | 14,449 | 14,805 | 14,706 | 13,701 |
| Total All Systems - Degrees | 44,423 | 43,745 | 43,405 | 42,765 | 40,782 |
| | | | | | |

Source: Massachusetts Board of Higher Education. Enrollment information based at the start of the academic year.

| Fall 2011 | Fall 2010 | Fall 2009 | Fall 2008 | Fall 2007 | Change - 2016 from 2007 |
|-----------|-----------|-----------|-----------|-----------|---------------------------------|
| | | | | | |
| 47,432 | 48,018 | 44,543 | 42,768 | 40,806 | 25.5 % |
| 12,048 | 11,734 | 10,177 | 9,460 | 9,328 | 36.9 % |
| 59,480 | 59,752 | 54,720 | 52,228 | 50,134 | 27.6 % |
| 35,639 | 36,721 | 34,129 | 33,040 | 32,106 | 11.8 % |
| 6,224 | 7,227 | 4,582 | 4,495 | 4,428 | 27.4 % |
| · | | | | | |
| 41,863 | 43,948 | 38,711 | 37,535 | 36,534 | 13.7 % |
| 64,586 | 64,971 | 60,602 | 54,228 | 51,257 | 8.0 % |
| 2012 | 2011 | 2010 | 2009 | 2008 | % Change - 2017 from 2008 |
| | | | | | |
| 348 | 246 | 329 | 280 | 270 | 87.0 % |
| 97 | 100 | 111 | 103 | 96 | (24.0)% |
| 10,399 | 9,958 | 9,362 | 8,763 | 8,437 | 51.2 % |
| 3,360 | 3,242 | 3,029 | 2,882 | 2,808 | 34.3 % |
| 450 | 414 | 400 | 381 | 390 | 54.6 % |
| 89 | 87 | 79 | 70 | 86 | (11.6)% |
| 659 | 550 | 509 | 173 | 133 | 533.1 % |
| 43 | 47 | | | | 100.0 % |
| 15,445 | 14,644 | 13,819 | 12,652 | 12,220 | 52.8 % |
| 29 | 35 | 572 | 605 | 597 | (94.1)% |
| 7,722 | 7,190 | 6,886 | 6,621 | 6,328 | 38.7 % |
| 2,404 | 2,376 | 2,467 | 2,343 | 2,318 | (1.5)% |
| 143 | 116 | 170 | 157 | 224 | (62.9)% |
| 362 | 408 | 362 | 406 | 347 | 3.5 % |
| 10,660 | 10,125 | 10,457 | 10,132 | 9,814 | 17.5 % |
| 2,888 | 3,020 | 2,770 | 2,587 | 2,495 | 26.1 % |
| 10,404 | 9,693 | 9,257 | 8,549 | 8,247 | 34.2 % |
| 13,292 | 12,713 | 12,027 | 11,136 | 10,742 | 32.3 % |
| 39,397 | 37,482 | 36,303 | 33,920 | 32,776 | 35.5 % |

Calculation of Transfers: Stabilization Fund*

June 30, 2017

(Amounts are in thousands)

This statement is prepared on the statutory basis of accounting pursuant to General Laws Chapter 29, Section 5c. It presents information contained in the official books and accounting records of the Commonwealth. Financial statements supporting this calculation are presented in the Financial Section of this report.

| | General | Comm | Commonwealth Transportation | Massachusetts Tourism | Gaming Local Aid | Total |
|--|--------------|------|--------------------------------|--------------------------|---------------------|-------|
| Budgeted Fund Undesignated Balances \$ | (144,268) \$ | | 144,797 | | \$ (528) | |
| Fund Balance Deficit Elimination Transfers Per Section 5C of Ch. 29 | 144,268 | | (144,797) | | 528 | 1 |
| Fund Balances after Deficit Elimination Transfers (Consolidated Net Surplus) | l | | I | l | l | I |
| Disposition of Consolidated Net Surplus per Section 107 of Ch. 47 of the Acts of 2017: | | | | | | |
| To the Massachusetts Community Preservation Trust Fund | I | | | I | I | |
| To the Massachusetts Life Sciences Investment Fund | 1 | | ı | | | 1 |
| Remaining Consolidated Net Surplus to be Deposited in Stabilization Fund | I | € | 1 | 8 | ↔ | es |

Stabilization Balance Reconciliation:

| Balance as of July 1, 2016 | \$ 1,291,514 |
|--|--------------|
| Transfer to Stabilization Fund from Abandoned Property Revenue Growth from Prior Fiscal Year | |
| Transfer of certain tax revenues to the Stabilization Fund | 377 |
| Adjustment to General Fund transfer for change in market value and other accruals | 8,787 |
| Less Transfers from Stabilization Fund during FY 2017 | I |
| Remaining Consolidated Net Surplus Deposited in Stabilization Fund, per Calculation Above | |
| Stabilization Fund Balance as of June 30, 2017 | \$ 1,300,678 |

^{*} Excludes funds with no FY17 balances or activity

Note: Details may not add to totals due to rounding

Calculation Of Transfers: Tax Reduction Fund

June 30, 2017

(Amounts in thousands)

This statement is prepared pursuant to Chapters 29 Sections 2H and 2I of the Massachusetts General Laws, as amended. It is prepared on the statutory basis of accounting and presents information contained in the official books and accounting records of the Commonwealth. Supporting information is presented in individual schedules, as indicated, and in the Financial Section of this report.

The computation is as follows:

| Part 1: | Comparison of Stabilization Fund, after current fiscal year transfers, | | |
|---------|--|----------|-----------|
| | to 15% of budgeted revenues and other financial resources: | | |
| | | | |
| | Undesignated fund balance in the Stabilization Fund | \$ | 1,300,678 |
| | | | |
| | Allowable Stabilization Fund balance | | 6,175,099 |
| | Collin of a Find and if an appropriate of Table 1 and Find | ф | |
| | Stabilization Fund excess, if any, transferable to Tax Reduction Fund | <u> </u> | |
| Part 2. | Status of Stabilization Fund after transfers: | | |
| rart 2. | Status of Stabilization Fund after transfers. | | |
| | Stabilization Fund balance | \$ | 1,300,678 |
| | Transfer to Tax Reduction Fund | | |
| | | | |
| | Stabilization Fund balance after transfer to Tax Reduction Fund | \$ | 1,300,678 |
| | | | |
| Part 3: | Status of Tax Reduction Fund after transfers: | | |
| | | | |
| | Tax Reduction Fund balance | | _ |
| | Transfers from Stabilization Fund | | |
| | Tax Reduction Fund balance after transfers | Φ | |
| | Tax reduction Fund varance after transfers | — | |

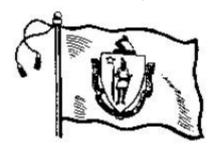
MASSACHUSETTS GENERAL INFORMATION

Admitted to Union (6th State):1788Capital:BostonPopulation:6,811,779Nickname:Bay State

The State Seal



The State Flag



The State Seal, adopted by Governor John Hancock and the Council on December 13, 1780 and made official by the General Court on June 4, 1885, is circular and bears a representation of the arms of the Commonwealth encircled massachusettensis" (Se Massachusettensis (Se "Sigillum Reipublicae (Seal of the Republic of Massachusetts). The arms, according to legislative enactment, consists of "a shield having a blue field or surface with an Indian thereon, dressed in a shirt and moccasins, holding in his right hand a bow, and in his left hand an arrow, point downward, all of gold; and in the upper corner of the field, above his right arm, bent at the elbow, clothed and ruffled, with the hand grasping a broadsword."

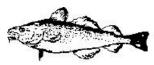
The State Flag is white, bearing on both sides a representation of the coat of arms. It was adopted in its final form in 1971; before that, the obverse side depicted a pine tree.

The State Flower



The Mayflower

The State Fish



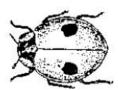
The Cod, a soft-finned fish, usually 10-20bs. A sculpture of a cod hangs in the House of Representatives as a tribute to this useful aquatic creature.

The State Bird



The Black Capped Chickadee

The State Insect



The Lady Bug

The State Tree



The American Elm was adopted as the official tree March 21, 1941 to commemorate the fact that General George Washington took command of the Continental Army beneath one on Cambridge Common in 1775.

The State Dog



The Boston Terrier, the first purebred dog developed in America (1869), is a cross between an English bulldog and an English terrier.

Beverage: Cranberry Juice

Boston Cream Pie Cookie:

Muffin:

The Corn Muffin Chocolate Chip

Horse:

The Morgan Horse

Bean:

Navy Bean

Dessert:

