

**THE COMMONWEALTH OF MASSACHUSETTS
ANNUAL FINANCIAL INFORMATION AND OPERATING DATA FOR FISCAL YEAR 2014
GENERAL OBLIGATION DEBT**

March 22, 2016

The following annual financial information and operating data is provided by The Commonwealth of Massachusetts (the "Commonwealth") pursuant to certain continuing disclosure undertakings and agreements entered into by the Commonwealth in connection with the Commonwealth's issuance of general obligation debt and the Commonwealth's support of the debt of certain other issuers, including the Massachusetts Department of Transportation, as successor to the Massachusetts Turnpike Authority, Massachusetts Bay Transportation Authority (Assessment Bonds and bonds issued prior to July 1, 2000), Massachusetts Clean Water Trust (certain bonds receiving Commonwealth contract assistance), Massachusetts State College Building Authority (certain Commonwealth-guaranteed bonds), University of Massachusetts Building Authority (certain Commonwealth-guaranteed bonds), Massachusetts Development Finance Agency (certain bonds issued to finance projects under the infrastructure investment incentive (I-Cubed) program, South Weymouth naval air base development, and nonprofit community hospitals and hospital centers), and Woods Hole, Martha's Vineyard and Nantucket Steamship Authority. Set forth below is certain financial information and operating data relating to the Commonwealth for the fiscal year ended June 30, 2015, updating the financial information and operating data presented in the Commonwealth's statement of annual financial information for general obligation debt dated March 27, 2015 with respect to the fiscal year ended June 30, 2014. Specific reference is hereby made to the Commonwealth's Statutory Basis Financial Report for the year ended June 30, 2015 and its unaudited draft Comprehensive Annual Financial Report (GAAP basis) for the year ended June 30, 2015, copies of which have been filed with the Municipal Securities Rulemaking Board through its Electronic Municipal Market Access (EMMA) system.

This statement is of limited scope. It contains only an updating of certain financial information and operating data described below. The information set forth herein does not contain all material information concerning the Commonwealth or its general obligation bonds necessary to make an informed investment decision. This statement does not constitute an offer to sell or the solicitation of an offer to buy Commonwealth general obligation bonds. This statement is submitted pursuant to various continuing disclosure undertakings and agreements relating to bonds that are subject to Rule 15c2-12 promulgated by the Securities and Exchange Commission and is intended to provide only the information necessary to conform to the requirements of said Rule 15c2-12. All information relating to the fiscal year ending June 30, 2016 is projected, as of February 16, 2016 unless otherwise indicated, and subject to change.

Questions regarding information contained in this statement may be directed to Sue Perez, Assistant Treasurer, Office of the Treasurer and Receiver-General, 3 Center Plaza, Suite 430, Boston, Massachusetts 02108, telephone (617) 367-9333, or to Jennifer Sullivan, Assistant Secretary, Executive Office for Administration and Finance, State House, Room 373, Boston, Massachusetts 02133, telephone (617) 727-2040.

1. Summary presentation on statutory accounting and five-year comparative basis of selected budgeted operating funds operations, revenues and expenditures concluding with prior fiscal year, plus estimates for current fiscal year.

The revenues and expenditures of the budgeted operating funds presented in the following table are derived from the Commonwealth's statutory basis financial statements for fiscal 2011 through 2015. The Commonwealth's statutory basis financial statements have been independently reviewed but not audited. Projections for fiscal 2016 have been prepared by the Executive Office for Administration and Finance and reflect information through January 31, 2016. Except where otherwise indicated, they are based on the office's most recent estimate of tax revenue (as officially issued) and non-tax revenue, on enacted appropriations adjusted for projected reversions and on supplemental appropriations filed by the Governor that remain before the Legislature. The financial information presented includes all budgeted operating funds of the Commonwealth. During a fiscal year there are numerous transactions among these budgeted funds, which from a fund accounting perspective create offsetting inflows and outflows. In conducting the budget process, the Executive Office for Administration and Finance excludes those inter-fund transactions that by their nature have no impact on the combined fund balance of the budgeted funds. The following table isolates this inter-fund activity from the budgeted sources and uses to align more clearly forecasts prepared during the budget process to the detailed fund accounting of the Commonwealth's annual financial statements.

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

	<u>Fiscal 2011</u>	<u>Fiscal 2012 (2)</u>	<u>Fiscal 2013</u>	<u>Fiscal 2014 (3)</u>	<u>Fiscal 2015</u>	<u>Projected Fiscal 2016</u>
<u>Beginning Fund Balances</u>						
Reserved or Designated	\$122.0	\$400.1	\$170.4	\$297.1	\$190.0	\$226.0
Stabilization Fund	669.8	1,379.1	1,652.1	1,556.7	1,248.4	1,252.4
Undesignated	<u>111.3</u>	<u>121.7</u>	<u>167.2</u>	<u>20.6</u>	<u>12.1</u>	<u>92.3</u>
Total	<u>\$903.1</u>	<u>\$1,900.8</u>	<u>\$1,989.7</u>	<u>\$1,874.4</u>	<u>\$1,450.5</u>	<u>\$1,570.7</u>
<u>Revenues and Other Sources</u>						
Alcoholic Beverages	72.7	76.1	76.3	78.8	80.8	83.8
Banks	(11.0)	266.6	78.0	135.8	51.9	1.3
Cigarettes	453.6	451.0	440.1	520.7	510.3	514.9
Corporations	1,951.4	1,771.1	1,821.9	2,049.1	2,172.1	2,170.2
Deeds	140.2	158.8	188.9	223.1	238.3	262.1
Income	11,576.0	11,911.4	12,830.9	13,201.6	14,448.7	14,868.2
Inheritance and Estate	309.6	293.3	313.4	401.5	340.9	368.1
Insurance	340.3	363.6	426.0	368.1	391.4	381.2
Motor Fuel	660.8	661.9	651.6	732.2	756.1	766.0
Public Utilities	(8.8)	(35.9)	(11.5)	9.8	3.4	(11.6)
Room Occupancy	110.4	121.6	129.2	138.3	150.7	163.4
Sales:						
Regular	3,476.3	3,544.4	3,595.9	3,810.6	3,986.6	4,226.1
Meals	813.3	868.8	901.2	948.9	998.8	1,069.5
Motor Vehicles	<u>615.2</u>	<u>646.1</u>	<u>666.9</u>	<u>736.4</u>	<u>789.1</u>	<u>866.6</u>
Sub-Total-Sales	4,904.8	5,059.3	5,163.9	5,495.9	5,774.4	6,162.2
Miscellaneous	<u>16.6</u>	<u>15.9</u>	<u>14.2</u>	<u>15.1</u>	<u>12.8</u>	<u>21.6</u>
Total Tax Revenues	<u>\$20,516.6</u>	<u>\$21,114.7</u>	<u>\$22,123.0</u>	<u>\$23,370.0</u>	<u>\$24,932.2</u>	<u>\$25,751.3</u>
MBTA Transfer (4)	(767.1)	(779.1)	(786.9)	(799.3)	(970.6)	(986.3)
MSBA Transfer	(654.6)	(670.5)	(682.0)	(727.5)	(764.1)	(814.8)
Workforce Training Fund Transfer (5)	-	(21.4)	(22.2)	(21.2)	(23.6)	(21.3)
Total Budgeted Operating Tax Revenues	<u>\$19,094.9</u>	<u>\$19,643.7</u>	<u>\$20,631.9</u>	<u>\$21,822.0</u>	<u>\$23,173.8</u>	<u>\$23,928.9</u>

	<u>Fiscal 2011</u>	<u>Fiscal 2012 (2)</u>	<u>Fiscal 2013</u>	<u>Fiscal 2014 (3)</u>	<u>Fiscal 2015</u>	<u>Projected Fiscal 2016</u>
Additional Taxes over Benchmark Tax and Non-Tax Settlements (6)	-	-	-	-	-	48.0
Federal Reimbursements	9,299.5	7,971.7	8,228.4	8,372.1	9,480.4	10,749.2
Departmental and Other Revenues	2,912.3	3,175.0	3,370.5	3,712.4	3,852.8	3,943.5
Inter-fund Transfers from Non-budgeted Funds and other sources (7)	<u>1,768.6</u>	<u>1,032.3</u>	<u>1,548.1</u>	<u>1,555.2</u>	<u>1,729.5</u>	<u>2,029.4</u>
Budgeted Revenues and Other Sources	<u>\$33,075.3</u>	<u>\$32,546.5</u>	<u>\$33,778.9</u>	<u>\$35,461.7</u>	<u>\$38,236.5</u>	<u>\$40,824.0</u>
Inter-fund Transfers	<u>3,460.9</u>	<u>1,032.3</u>	<u>1,456.6</u>	<u>1,757.0</u>	<u>735.4</u>	<u>675.3</u>
Total Budgeted Revenues and Other Sources	<u>\$36,536.3</u>	<u>\$33,578.8</u>	<u>\$35,235.5</u>	<u>\$37,218.7</u>	<u>\$38,971.9</u>	<u>\$41,499.3</u>
<u>Expenditures and Uses</u>						
Direct Local Aid (8)	4,784.7	4,929.5	5,115.7	5,292.5	5,420.4	5,570.7
Medicaid	10,237.3	10,431.1	10,799.7	11,900.8	13,655.2	14,786.5
Other Health and Human Services	4,614.8	4,710.5	4,768.9	4,979.5	5,300.8	5,580.1
Group Insurance	1,130.3	1,206.2	1,278.5	1,402.9	1,665.1	1,693.6
Department of Elementary and Secondary Education	349.4	435.9	489.2	515.3	514.9	629.6
Higher Education	943.0	937.1	990.8	1,091.5	1,161.6	1,189.1
Department of Early Education and Care	515.1	494.3	483.4	509.6	537.7	568.1
Public Safety	905.0	929.7	960.0	1,010.4	1,040.7	1,656.0
Energy and Environmental Affairs	185.6	186.8	201.8	215.0	225.0	234.7
Debt Service (9)	1,663.9	1,923.2	2,117.2	2,122.0	2,190.4	2,454.5
Post -Employment Benefits (10)	1,838.9	1,892.3	1,967.0	2,050.4	2,213.4	2,470.2
Other Program Expenditures	<u>2,850.4</u>	<u>2,898.7</u>	<u>3,006.7</u>	<u>3,293.7</u>	<u>3,113.1</u>	<u>2,431.9</u>
Total - Programs and Services before transfers to Non-budgeted funds	<u>\$30,018.6</u>	<u>\$30,975.3</u>	<u>\$32,178.7</u>	<u>\$34,383.6</u>	<u>\$37,038.3</u>	<u>\$39,265.0</u>
Inter-fund Transfers to Non-budgeted Funds						
Commonwealth Care Trust Fund (11)	739.0	614.9	661.2	390.1	-	-
Medical Assistance Trust Fund	886.1	220.9	390.9	395.0	71.0	1,001.1
Massachusetts Transportation Trust Fund	195.1	180.1	161.7	270.1	588.6	328.5
Other	<u>238.8</u>	<u>466.4</u>	<u>501.8</u>	<u>446.7</u>	<u>418.4</u>	<u>480.1</u>
Total Inter-Fund Transfers to Non-Budgeted Funds	<u>\$2,059.0</u>	<u>\$1,482.3</u>	<u>\$1,715.6</u>	<u>\$1,501.9</u>	<u>\$1,078.0</u>	<u>\$1,809.7</u>
Budgeted Expenditures and Other Uses	<u>\$32,077.6</u>	<u>\$32,457.6</u>	<u>\$33,894.3</u>	<u>\$35,885.5</u>	<u>\$38,116.3</u>	<u>\$41,074.7</u>
Inter-fund Transfers	<u>3,460.9</u>	<u>1,032.3</u>	<u>1,456.6</u>	<u>1,757.0</u>	<u>735.4</u>	<u>675.3</u>
Total Budgeted Expenditures and Other Uses (12)	<u>\$35,538.5</u>	<u>\$33,489.9</u>	<u>\$35,350.9</u>	<u>\$37,642.5</u>	<u>\$38,851.7</u>	<u>\$41,750.0</u>
Excess (Deficiency) of Revenues and Other Sources Over Expenditures and Other Uses (13)	<u>\$997.8</u>	<u>\$88.9</u>	<u>(\$115.4)</u>	<u>(\$423.8)</u>	<u>\$120.2</u>	<u>(\$250.7)</u>
<u>Ending Fund Balances</u>						
Reserved or Designated (14)	400.1	170.5	297.1	190.0	226.0	13.9
Stabilization Fund	1,379.1	1,652.1	1,556.7	1,248.4	1,252.4	1,257.9
Undesignated	<u>121.7</u>	<u>167.1</u>	<u>20.6</u>	<u>12.1</u>	<u>92.3</u>	<u>48.2</u>
Total	<u>\$1,900.8</u>	<u>\$1,989.7</u>	<u>\$1,874.4</u>	<u>\$1,450.5</u>	<u>\$1,570.7</u>	<u>\$1,320.0</u>

SOURCES: Fiscal 2011-2015, Office of the Comptroller; fiscal 2016, Executive Office for Administration and Finance.

- (1) Totals may not add due to rounding.
- (2) Some fiscal 2012 amounts were reclassified to conform to the fiscal 2013 presentation in the Statutory Basis Financial Report.
- (3) Some fiscal 2014 amounts were reclassified to conform to the fiscal 2015 presentation in the Statutory Basis Financial Report.
- (4) Beginning in fiscal 2015, the annual amount of dedicated sales tax receipts statutorily required to be credited to the MBTA was increased by \$160 million.

- (5) The fiscal 2012 budget adopted changes to the Workforce Training Fund, which is funded annually through employer contributions for workforce training initiatives for incumbent workers in the private sector. Beginning in fiscal 2012 the Workforce Training Fund is not subject to annual appropriation, and the employer contributions are deposited directly in the Workforce Training Fund after their collection.
- (6) The Executive Office for Administration and Finance currently estimates \$125 million from the modification of the existing tax and non-tax judgment and settlement law. For fiscal years 2011 through 2015, tax and non-tax revenue from judgments and settlements in excess of \$10 million is included in specific tax and non-tax revenue categories. Those amounts totaled approximately \$136.5 million in fiscal 2011, \$404.4 million in fiscal 2012, \$133.8 million in fiscal 2013, \$436.5 million in fiscal 2014, and \$226.1 million in fiscal 2015.
- (7) Inter-fund Transfers from Non-budgeted Funds and Other Sources include profits from the State Lottery, transfer of tobacco settlement funds through fiscal 2012, abandoned property proceeds as well as other inter-fund transfers.
- (8) The Fiscal 2016 Direct Local Aid estimate includes Chapter 70 state education aid, unrestricted general government aid, local share of the racing tax, municipal weather reserve, and veterans' benefits.
- (9) Fiscal 2016 spending includes \$113 million reduction for debt defeasance, as provided for in the final 2015 supplemental budget approved by the Governor on November 2, 2015.
- (10) Starting in fiscal 2010 Post-Employment Benefits include budgeted pension transfers and State Retiree Benefit Trust Fund.
- (11) The fiscal 2016 budget does not include an appropriation of funding for the Health Connector because it assumes that increased dedicated revenues in the CCTF, federal grants and self-generated revenues will be able to cover the full program and administrative costs.
- (12) Fiscal 2016 spending assumes a spending reduction of \$189 million for estimated gross payroll savings due to the early retirement incentive program.
- (13) The fiscal 2016 excess (deficiency) of revenues and other sources over expenditures is driven primarily by the impact of unspent appropriations from fiscal 2015 which the Legislature has authorized to carry forward into fiscal 2016, and the experience of certain budgeted funds that do not contribute to statutory balance.
- (14) Consists largely of appropriations authorized to be expended in following year.

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2. Summary presentation on GAAP and five-year comparative basis of governmental funds operations, concluding with prior fiscal year.

The following table provides financial results on a GAAP basis for all governmental operating funds of the Commonwealth for fiscal 2011 through fiscal 2015.

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

	<u>Fiscal 2011</u>	<u>Fiscal 2012</u>	<u>Fiscal 2013</u>	<u>Fiscal 2014</u>	<u>Fiscal 2015(1)</u>
Beginning fund balances	\$4,585.7	\$5,267.6	\$6,318.9	\$4,869.9	\$4,619.4
Revenues and Financing Sources	53,898.4	54,370.1	55,289.9	57,210.0	60,658.6
Expenditures and Financing Uses	53,216.5	53,318.8	56,738.9	57,460.5	59,972.8
Excess/(deficit)	<u>681.9</u>	<u>1,051.3</u>	<u>(1,449.0)</u>	<u>(250.5)</u>	<u>685.8</u>
Ending fund balances—GAAP fund perspective	<u>\$5,267.6</u>	<u>\$6,318.9</u>	<u>\$4,869.9</u>	<u>\$4,619.4</u>	<u>\$5,305.2</u>

SOURCE: Office of the Comptroller.
 (1) – Unaudited; subject to change.

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3. Summary presentation on a five-year comparative basis of lottery revenues and profits.

A five year history and projections for fiscal 2016 of Lottery revenues and profits are shown in the following table.

Lottery Revenues and Profits
(amounts in thousands)

Fiscal Year	Revenues	Net Operating Revenues	Net Profits
2016 (1)	\$5,233,545	\$1,065,021	\$962,078
2015	5,014,535	1,086,469	985,879
2014	4,863,373	1,069,958	974,562
2013	4,850,482	1,050,128	955,801
2012	4,741,417	1,074,927	983,786
2011	4,427,961	976,547	887,913

Source: State Lottery Commission
(1) Fiscal 2016 figures are projected.

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4. Summary presentation of payments received pursuant to the tobacco master settlement agreement.

The following table sets forth the tobacco settlement amounts received by the Commonwealth to date. Since fiscal 2006 certain amounts have been withheld from each year's payments by tobacco manufacturers in relation to ongoing disputes of payment calculations. Those withheld amounts have ranged from \$21 million to \$35 million in the period from 2006 through 2011, inclusive, and are not included in the table below. A smaller amount has been withheld for 2012 through 2015, inclusive. The Commonwealth believes it is due the full amount and continues to pursue its claim to unreduced payments. The Commonwealth continues to pursue these disputed payments. 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, is payable in equal annual installments during the years 2008 through 2017, inclusive, [and is reflected in the table below].

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

<u>Fiscal Year</u>	<u>Initial Payments</u>	<u>Annual Payments</u>	<u>Total Payments</u>
2000	\$186.6 (2)	\$139.6	\$326.2(2)
2001	78.2	164.2	242.5
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	-	<u>245.8</u>	<u>245.8</u>
Total	<u>\$434.0</u>	<u>\$3,882.9</u>	<u>\$4,316.9</u>

SOURCE: Office of the Comptroller.

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

(2) Payments received for both 1999 and 2000.

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5. So long as Commonwealth statutes impose limits on tax revenues, information as to compliance therewith in the prior fiscal year.

Chapter 62F of the General Laws, which was enacted by the voters in November, 1986, 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 2011 through fiscal 2015.

	<u>Net State Tax Revenues</u>	<u>Allowable State Tax Revenues</u>	<u>Net State Tax Revenues (under) Allowable State Tax Revenues</u>
2015	\$25,239,065,862.40	\$28,071,638,151.40	(\$2,832,572,289.00)
2014	23,666,801,083.60	27,048,676,153.30	(3,381,875,069.70)
2013	22,397,185,748.50	26,074,941,365.50	(3,677,755,617.00)
2012	21,384,338,827.60	25,236,379,380.50	(3,852,040,552.90)
2011	20,776,233,462.10	25,063,267,392.60	(4,287,033,930.50)

SOURCES: State Auditor’s Office.

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6. Summary description of the retirement systems for which the Commonwealth is responsible, including membership and contribution rates.

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, 2015, the date of the most recent combined valuations, is as follows:

Retirement Systems Membership

	<u>MSERS</u>	<u>MTRS</u>
Retirees and beneficiaries currently receiving benefits	57,774	62,312
Terminated employees entitled to benefits but not yet receiving them	4,340	N/A
Subtotal	62,114	62,312
Current Members	88,508	90,070
Total	150,622	152,382

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 ten 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 ten 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 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>	<u>% of Compensation (1)</u>	<u>Active Members</u>	<u>% of Total Active</u>
<u>Hire Date</u>			
Pre-1975	5%	250	0.3%
1975-1983	7	784	.9
1984-June 30, 1996	8	8,092	9.0
July 1, 1996-Present	9	14,990	16.6
July 1, 2001-Present	11	<u>65,954</u>	<u>73.2</u>
Totals		<u>90,070</u>	<u>100.0%</u>

SOURCE: Public Employee Retirement Administration Commission. Membership data from Teachers' Retirement System January 1, 2015 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>			
<u>Hire Date</u>	<u>% of Compensation (1)</u>	<u>Active Members</u>	<u>% of Total Active</u>
Pre-1975	5%	884	1.0%
1975-1983	7	5,738	6.5
1984-June 30, 1996	8	20,073	22.7
July 1, 1996-Present	9	61,221	69.2
State Police 1996-Present	12	<u>592</u>	<u>0.7</u>
Totals		<u>88,508</u>	<u>100.0%</u>

SOURCE: Public Employee Retirement Administration Commission. Membership data from State Board of Retirement January 1, 2015 Actuarial Valuation.

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

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7. Summary presentation of the then-current, statutorily imposed funding schedule for future Commonwealth pension liabilities, if any.

The most recently approved funding schedule for payments into the Commonwealth's Pension Liability Fund was filed by the Secretary of Administration and Finance on January 14, 2014. The assumptions underlying the funding schedule include valuation of assets and liabilities as of January 1, 2013, an annual rate of return on assets of 8.0%, and appropriation increases of 10% per year until fiscal 2017 with 7% increases thereafter until the final amortization payment in fiscal 2036 (four years before the statutory requirement). In fiscal 2016, more than the required amount was appropriated, because of the employee retirement incentive program approved by the Governor on May 4, 2015. According to a PERAC report released in February, 2016, the program increased the actuarial accrued liability to the MSERS by approximately \$230 million, with an annual cost, when amortized on a 15-year level basis beginning in fiscal 2016, of approximately \$25.5 million. A slightly larger amount, \$29.1 million (based on an earlier estimate), was provided for in the fiscal 2016 budget. Legislation approved in August, 2015 mandated an increased payment in fiscal 2017 as well to reflect this adjustment.

The next funding schedule is due to be filed by the Secretary of Administration and Finance in early 2017. It is expected to be based on the January 1, 2016 actuarial valuation report and to take into account, among other things, the full costs of the employee retirement incentive program described above. The funding schedule filed in early 2017 will govern payments in fiscal 2018 and beyond.

The fiscal 2015 through fiscal 2037 transfers required by the current funding schedule are as follows:

Current Funding Schedule for Pension Obligations (in thousands) (1)

<u>Fiscal Year</u>	<u>Payments</u>	<u>Fiscal Year</u>	<u>Payments</u>
2015	\$1,793,000	2027	\$4,267,000
2016 (2)	1,972,000	2028	4,566,000
2017 (3)	2,169,000	2029	4,886,000
2018	2,321,000	2030	5,228,000
2019	2,483,000	2031	5,594,000
2020	2,657,000	2032	5,986,000
2021	2,843,000	2033	6,405,000
2022	3,042,000	2034	6,853,000
2023	3,255,000	2035	7,333,000
2024	3,483,000	2036	4,436,342
2025	3,727,000	2037	835,369
2026	3,988,000		

SOURCE: Executive Office for Administration and Finance

- (1) Excludes the impact of the early retirement incentive program adopted in fiscal 2015 and to be reflected in the January 1, 2016 actuarial valuation.
- (2) The fiscal 2016 budget includes a \$29 million appropriation (in addition to the \$1.972 billion paid according to the schedule) to defray costs associated with the employee retirement incentive program.
- (3) Legislation approved in August, 2015 mandates 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.

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8. Summary presentation on a ten-year comparative basis of actuarial valuations of pension fund assets, liabilities, and funding progress.

The following table shows, with respect to the Commonwealth's aggregate pension obligations, a ten-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)

<u>Valuation Date (Jan. 1)</u>	<u>Actuarial Value of Assets (1)</u>	<u>Market Value of Assets</u>	<u>% of Actuarial Value to Market Value</u>	<u>Funded Ratio (Actuarial Value)</u>	<u>Funded Ratio (Market Value)</u>
2006	\$36,377	\$39,020	93.2%	71.5	81.5
2007	40,412	44,902	90.0	75.2	83.5
2008	44,532	49,235	90.4	78.6	86.9
2009	37,058	33,689	110.0	62.7	57.0
2010	41,589	37,809	110.0	67.5	61.4
2011	45,631	41,482	110.0	71.1	64.6
2012	43,942	39,947	110.0	65.1	59.1
2013	43,517	43,760	99.4	60.6	60.9
2014	45,894	48,351	94.9	61.2	64.5
2015	48,106	50,290	95.7	59.0	61.7

SOURCE: Public Employee Retirement Administration Commission.

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

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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
(Amounts in thousands except for percentages)

	<u>Actuarial Value of Plan Assets</u>	<u>Actuarial Accrued Liability</u>	<u>Unfunded Actuarial Accrued Liability (UAAL)</u>	<u>Funded Ratio</u>	<u>Annual Covered Payroll</u>	<u>UAAL as % of Covered Payroll</u>
State Employees' Retirement System						
Actuarial Valuation as of Jan. 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
2008	20,400,656	22,820,502	2,419,846	89.4	4,574,233	52.9
2007	18,445,225	21,670,810	3,225,585	85.1	4,391,891	73.4
2006	16,638,043	20,406,926	3,768,883	81.5	4,200,577	89.7
Teachers' Retirement System						
Actuarial Valuation as of Jan. 1						
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
2008	22,883,553	30,955,504	8,071,951	73.9	5,163,498	156.3
2007	20,820,392	29,320,714	8,500,322	71.0	4,969,092	171.1
2006	18,683,295	27,787,716	9,104,421	67.2	4,819,325	188.9
Aggregate Commonwealth Pension Obligations						
Actuarial Valuation as of Jan. 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
2008	44,531,652	56,636,710	12,105,058	78.6	10,156,252	119.2
2007	40,411,920	53,761,095	13,349,175	75.2	9,766,122	136.7
2006	36,376,773	50,864,974	14,488,201	71.5	9,406,336	154.0

SOURCE: Public Employee Retirement Administration Commission.

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9. Summary presentation on a five-year comparative basis of annual required pension contributions under GAAP and pension contributions made.

The following table sets forth the annual required contribution (ARC) by the Commonwealth, its reimbursement to Boston for its payments to SBRS (the fiscal 2010 payment includes both the final payment in arrears and the first annual contribution under the 2010 legislation described above) and payments for municipal COLAs for each of the fiscal years indicated. The ARC has been determined annually, 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. Actuarial valuations have been performed annually since January 1, 2000. 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. Since the funding schedule can be several years old when the ARC is determined, the funding schedule information lags the more current ARC information except in the year in which the funding schedule is developed. Accordingly, in some years the ARC will exceed the contribution made and in other years the contribution made will exceed the ARC.

The Commonwealth's ARC has been calculated by PERAC using the minimum allowable funding schedule for local systems under state pension law, namely, amortization of unfunded actuarial liability on a 4.0% annual increasing basis to fiscal 2040. On this basis, the fiscal 2015 ARC is approximately \$2.36 billion, and the fiscal 2015 appropriation is approximately 76% of the ARC. This percentage is expected to increase each year. After approximately 10 years, annual appropriations are expected to exceed the ARC.

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Annual Required Contributions and Other Pension Contributions

(amounts in thousands)

	<u>SERS & MTRS</u>	<u>COLA (1)</u>	<u>BTRS (1)</u>
<u>2015</u>			
Annual required contribution			
(ARC).....	\$2,217,130	n/a	n/a
Contributions made, excluding			
COLAs.....	<u>1,660,301</u>	<u>\$23,214</u>	<u>\$109,485</u>
% Funded for the fiscal			
year.....	75%		
ARC as ratio of total government expenditures (2)	6.1%	n/a	n/a
<u>2014</u>			
Annual required contribution			
(ARC).....	\$1,877,370	n/a	n/a
Contributions made, excluding			
COLAs.....	<u>1,509,364</u>	<u>21,104</u>	<u>99,532</u>
% Funded for the fiscal			
year.....	80%		
ARC as ratio of total government expenditures (2)	5.0%	n/a	n/a
<u>2013</u>			
Annual required contribution			
(ARC).....	\$1,804,448	n/a	n/a
Contributions made, excluding			
COLAs.....	<u>1,437,033</u>	<u>20,121</u>	<u>94,846</u>
% Funded for the fiscal			
year.....	80%		
ARC as ratio of total government expenditures (2)	5.3%	n/a	n/a
<u>2012</u>			
Annual required contribution			
(ARC).....	\$1,562,192	n/a	n/a
Contributions made, excluding			
COLAs.....	<u>1,368,414</u>	<u>19,187</u>	<u>90,399</u>
% Funded for the fiscal			
year.....	88%		
ARC as ratio of total government expenditures (2)	4.2%	n/a	n/a
<u>2011</u>			
Annual required contribution			
(ARC).....	\$1,239,056	n/a	n/a
Contributions made, excluding			
COLAs.....	<u>1,286,367</u>	<u>34,153</u>	<u>121,290</u>
% Funded for the fiscal			
year.....	104%		
ARC as ratio of total government expenditures (2)	3.9%	n/a	n/a

SOURCE: 2011 through 2014, Office of the Comptroller, 2015, Public Employee Retirement Administration Commission.

(1) COLA and BTRS contributions are additional amounts funded by the Commonwealth, but are not part of the Commonwealth's funding of ARC.

(2) Based on total budgeted fund expenditures and other uses.

10. Summary presentation on a five-year comparative basis of PRIT Fund asset allocation and investment returns.

The following table sets forth the current targets and the actual PRIT Fund asset allocation for each of the most recent five fiscal years. The actual allocation figures are as of June 30 for each of the years indicated. The targets are those contained in the current asset allocation plan, which was most recently reviewed on February 2, 2016.

PRIT Fund Asset Allocation

	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>Target</u>
Domestic Equity	22.0%	19.2%	20.8%	19.0%	19.2%	18.0%
International Equity	21.7	16.7	18.0	17.1	16.9	16.0
Emerging Markets Equity	6.6	6.7	6.5	7.0	6.6	6.0
Core Fixed Income	13.2	13.0	12.6	13.9	13.7	13.0
Value-Added Fixed Income	6.0	8.6	8.9	8.5	8.3	10.0
Private Equity	10.7	12.1	11.7	11.1	11.3	10.0
Real Estate	8.2	9.7	8.2	8.9	10.0	10.0
Timber/Natural Resources	4.0	3.9	4.0	3.9	3.8	4.0
Hedge Funds	7.2	9.9	9.2	9.6	9.1	9.0
Portfolio Completion Strategies	n/a	n/a	n/a	0.0	0.2	4.0

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 five fiscal years:

PRIT Fund Rates of Return (Gross of Fees)

<u>Fiscal Year</u>	<u>Rate of Return</u>
2015	3.86%
2014	17.53
2013	12.69
2012	(0.08)
2011	22.30
3yr average	11.21%
5yr average	10.95%
10yr average	6.98%
Assumed Rate (1)	8.00%

SOURCE: Pension Reserves Investment Management Board.

(1) Assumed rate changed to 8% as of January 1, 2013. As of January 1, 2015, the assumed rate was reduced to 7.75%.

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11. Summary presentation of actuarial valuations of OPEB assets, liabilities and funding progress.

In addition to providing pension benefits, the Commonwealth is required, under Chapter 32A of the Massachusetts General Laws, 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, which is comparable to contributions required from employees. 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 Group Insurance Commission (GIC) of the Commonwealth 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 Fund (SRBTF). The SRBTF 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.

State Retiree Benefits Trust
(amounts in thousands)

	<u>Actuarial Value of Plan Assets</u>	<u>Actuarial Liability</u>	<u>Accrued Unfunded Liability (UAAL)</u>	<u>Actuarial Ratio Covered</u>	<u>Funded Payroll</u>	<u>Annual Covered Payroll as % of UAAL</u>
Actuarial Valuation as of Jan. 1, 2015	\$610,000	\$16,502,800	\$15,892,800	3.7%	\$5,591,911	284.2%
Actuarial Valuation as of Jan. 1, 2014	511,200	15,670,200	15,159,000	3.3	5,344,500	283.6
Actuarial Valuation as of Jan. 1, 2013	406,700	15,784,100	15,377,400	2.6	5,183,195	296.7
Actuarial Valuation as of Jan. 1, 2012	360,500	16,559,400	16,298,900	2.2	4,922,388	331.1
Actuarial Valuation as of Jan. 1, 2011	350,500	16,568,600	16,218,100	2.1	4,808,250	337.3
Actuarial Valuation as of Jan. 1, 2010	309,800	15,166,300	14,856,500	2.0	4,711,563	315.3
Actuarial Valuation as of Jan. 1, 2009	273,500	15,305,100	15,031,600	1.8	4,712,655	319.0
Actuarial Valuation as of Jan. 1, 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.

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12. If and to the extent otherwise updated in the prior fiscal year, summary presentation of the size of the state workforce.

The following table sets forth information regarding the Commonwealth's workforce as of the end of the last five fiscal years.

State Workforce

	<u>June 2011</u>	<u>June 2012</u>	<u>June 2013</u>	<u>June 2014</u>	<u>June 2015 (2)</u>
Executive Office	76	69	68	70	75
Office of the Comptroller	113	109	111	113	109
Executive Departments					
Administration and Finance	2,679	2,784	2,823	2,882	2,983
Energy and Environmental Affairs	1,960	1,949	1,915	1,900	1,907
Health and Human Services	19,435	19,397	19,379	19,699	20,096
Board of Library Commissioners	10	10	10	10	11
Housing and Economic Development	673	677	684	702	699
Labor and Workforce Development	269	262	236	250	234
Executive Office of Education	318	322	359	523	399
Public Safety and Security	8,259	8,534	8,626	8,815	8,627
Elder Affairs	<u>39</u>	<u>37</u>	<u>38</u>	<u>39</u>	<u>36</u>
Subtotal under Governor's Authority	33,831	34,150	34,249	35,005	35,173
Judiciary	7,109	7,085	7,217	7,188	7,256
Higher Education	12,940	12,539	12,957	13,840	14,111
Other (1)	<u>10,111</u>	<u>10,084</u>	<u>10,356</u>	<u>10,606</u>	<u>10,701</u>
Subtotal funded by the Operating Budget	<u>63,991</u>	<u>63,858</u>	<u>64,779</u>	<u>66,638</u>	<u>67,241</u>
Federal Grant, Trust and Capital Funded	<u>20,078</u>	<u>20,654</u>	<u>20,650</u>	<u>19,963</u>	<u>20,597</u>
Total	<u>84,069</u>	<u>84,512</u>	<u>85,429</u>	<u>86,602</u>	<u>87,839</u>

SOURCE: Executive Office for Administration and Finance.

- (1) Other includes members of the Legislature and their staff, the offices of the State Treasurer, Secretary, Auditor and Attorney General, the eleven District Attorneys, the seven former county sheriffs that have become state agencies, and other agencies independent from the Governor.
- (2) June, 2015 figures do not include the approximately 2,500 executive branch employees who took advantage of the Early Retirement Incentive Program (ERIP) and left the state workforce as of July 1, 2015.

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13. Five-year summary presentation of actual capital project expenditures.

The following table sets forth actual capital expenditures for fiscal 2011 to fiscal 2015.

Commonwealth Historical Capital Spending (in millions) (1)

Investment Category:	<u>Fiscal 2011</u>	<u>Fiscal 2012</u>	<u>Fiscal 2013</u>	<u>Fiscal 2014</u>	<u>Fiscal 2015</u>
Information technology	\$ 119	\$ 129	\$133	\$190	\$207
Infrastructure/facilities	458	518	452	457	449
Environment	142	131	130	138	221
Housing	174	185	183	182	188
Public safety	7	17	17	22	26
Transportation	1,512	1,618	1,528	1,790	2,041
Other	<u>127</u>	<u>125</u>	<u>183</u>	<u>227</u>	<u>242</u>
Total (2)	<u>\$2,539</u>	<u>\$2,724</u>	<u>\$2,626</u>	<u>\$3,006</u>	<u>\$3,374</u>

SOURCE: Fiscal 2011-2015, Executive Office for Administration and Finance and Office of the State Comptroller.

- (1) Includes all spending funded by capital appropriations, including General Obligation, Special Obligation, Project Financed, and spending that will receive federal reimbursement.
 (2) Totals may not add due to rounding.

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14. Statement of general and special obligation long-term debt issuance and repayment analysis on a five-year comparative basis through the end of the prior fiscal year.

The following table shows long-term debt of the Commonwealth issued and retired from fiscal 2011 through fiscal 2015, exclusive of unamortized bond premiums:

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

	<u>Fiscal 2011</u>	<u>Fiscal 2012</u>	<u>Fiscal 2013</u>	<u>Fiscal 2014 (4)</u>	<u>Fiscal 2015 (5)</u>
Beginning Balance as of July 1	\$19,726,507	\$20,875,055	\$21,433,553	\$21,513,039	\$22,419,852
Debt Issued	<u>2,233,368</u>	<u>1,759,627</u>	<u>1,470,473</u>	<u>2,359,899</u>	<u>2,918,817</u>
Subtotal	<u>21,959,875</u>	<u>22,634,682</u>	<u>22,904,026</u>	<u>23,672,983</u>	<u>25,338,669</u>
Debt retired or defeased, exclusive of refunded debt	(974,770)	(1,202,094)	(1,386,527)	(1,434,511)	(1,486,243)
Refunding debt issued, net of refunded debt (3)	<u>(110,050)</u>	<u>965</u>	<u>(4,460)</u>	<u>(18,575)</u>	<u>(26,125)</u>
Ending Balance June 30 (2)	<u>\$20,875,055</u>	<u>\$21,433,553</u>	<u>\$21,513,039</u>	<u>\$22,419,852</u>	<u>\$23,826,301</u>

SOURCE: Office of the Comptroller.

(1) Including premium, discount and 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 and are as of June 30, 2015.

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15. Statement of outstanding Commonwealth debt on a five-year comparative basis through the end of the prior fiscal year.

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)					
	<u>Fiscal 2011</u>	<u>Fiscal 2012</u>	<u>Fiscal 2013</u>	<u>Fiscal 2014 (1)</u>	<u>Fiscal 2015 (2)</u>
General Obligation Debt	\$18,516,760	\$18,851,538	\$19,140,239	\$19,596,662	\$20,801,956
Special Obligation Debt	1,591,505	1,971,630	1,923,700	2,292,255	2,324,490
Federal Grant Anticipation Notes	<u>766,790</u>	<u>610,385</u>	<u>449,100</u>	<u>530,935</u>	<u>699,855</u>
TOTAL	<u>\$20,875,055</u>	<u>\$21,433,553</u>	<u>\$21,513,039</u>	<u>\$22,419,852</u>	<u>\$23,826,301</u>

SOURCE: Office of the Comptroller.

- (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 and are as of June 30, 2015.

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16. Annual fiscal year debt service requirements for Commonwealth general obligation and special obligation bonds, beginning with the current fiscal year.

The following table sets forth, as of January 31, 2016, the annual fiscal year debt service requirements on outstanding Commonwealth general obligation bonds, special obligation bonds and federal grant anticipation notes. 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.

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Debt Service Requirements on Commonwealth Bonds as of January 31, 2016 through Maturity (in thousands)

Period Ending	<u>General Obligation Bonds</u>						<u>Federal Highway Grant Anticipation Notes</u>				
	Principal	Gross Interest	CABs	Build America Bond Subsidies	Net Interest	Debt Service	Principal	Gross Interest	Build America Bond Subsidies	Net Interest	Debt Service
6/30/2016	\$163,735	\$366,017	\$0	(\$9,199)	\$356,818	\$520,553	\$31,425	\$16,532	(\$687)	\$15,844	\$47,269
6/30/2017	1,429,482	894,115	5,580	(36,557)	857,558	2,292,620	44,440	31,582	(1,302)	30,280	74,720
6/30/2018	1,343,810	833,938	4,958	(36,557)	797,381	2,146,150	47,150	29,776	(1,147)	28,629	75,779
6/30/2019	1,224,555	783,671	4,852	(36,557)	747,114	1,976,521	49,300	27,606	(973)	26,634	75,934
6/30/2020	1,145,879	733,215	4,410	(36,300)	696,915	1,847,205	51,615	25,261	(782)	24,479	76,094
6/30/2021	1,193,738	675,902	4,265	(35,014)	640,889	1,838,892	54,125	22,724	(577)	22,147	76,272
6/30/2022	1,096,617	622,281	3,915	(32,698)	589,582	1,690,115	56,780	20,053	(357)	19,696	76,476
6/30/2023	953,482	574,169	3,753	(31,412)	542,757	1,499,993	65,470	17,236	(122)	17,114	82,584
6/30/2024	968,931	528,384	3,555	(31,412)	496,972	1,469,458	67,725	14,371	-	14,371	82,096
6/30/2025	937,347	482,266	3,569	(31,177)	451,089	1,392,005	70,190	10,991	-	10,991	81,181
6/30/2026	856,800	440,094	3,665	(30,776)	409,318	1,269,784	73,425	7,492	-	7,492	80,917
6/30/2027	762,307	402,169	3,843	(30,203)	371,966	1,138,116	76,820	3,828	-	3,828	80,648
6/30/2028	764,120	368,245	3,899	(28,953)	339,291	1,107,310	-	-	-	-	-
6/30/2029	799,828	332,537	3,385	(26,687)	305,850	1,109,063	-	-	-	-	-
6/30/2030	760,500	295,033	3,103	(22,892)	272,140	1,035,744	-	-	-	-	-
6/30/2031	720,080	254,532	2,980	(16,808)	237,724	960,784	-	-	-	-	-
6/30/2032	584,293	227,984	2,529	(14,776)	213,208	800,031	-	-	-	-	-
6/30/2033	363,981	205,766	1,869	(12,440)	193,326	559,176	-	-	-	-	-
6/30/2034	384,856	188,831	1,070	(11,068)	177,763	563,688	-	-	-	-	-
6/30/2035	358,581	172,371	506	(9,647)	162,724	521,811	-	-	-	-	-
6/30/2036	367,733	155,600	208	(8,177)	147,423	515,364	-	-	-	-	-
6/30/2037	398,380	137,649	-	(6,654)	130,995	529,375	-	-	-	-	-
6/30/2038	383,570	119,202	-	(5,077)	114,125	497,695	-	-	-	-	-
6/30/2039	379,495	101,275	-	(3,445)	97,830	477,325	-	-	-	-	-
6/30/2040	370,500	82,911	-	(1,609)	81,302	451,802	-	-	-	-	-
6/30/2041	364,630	65,602	-	-	65,602	430,232	-	-	-	-	-
6/30/2042	358,140	49,298	-	-	49,298	407,438	-	-	-	-	-
6/30/2043	410,130	33,888	-	-	33,888	444,018	-	-	-	-	-
6/30/2044	302,725	15,463	-	-	15,463	318,188	-	-	-	-	-
6/30/2045	157,485	7,661	-	-	7,661	165,146	-	-	-	-	-
6/30/2046	58,320	1,227	-	-	1,227	59,547	-	-	-	-	-
Totals (1)	\$20,364,032	\$10,151,300	\$65,914	(\$546,096)	\$9,605,204	\$30,035,150	\$688,465	\$227,451	(\$5,947)	\$221,504	\$909,969

SOURCE: Office of the Comptroller.

(1) Totals may not add due to rounding.

Special Obligation Revenue Bonds
(Convention Center)

Special Obligation Revenue Bonds
(CTF- Accelerated Bridge Program)

Period Ending	Principal	Interest	Debt Service	Principal	Gross Interest	Build America Bond Subsidies	Net Interest	Debt Service
6/30/2016	\$22,210	\$32,330	\$54,540	\$9,260	\$38,654	(\$6,157)	\$32,497	\$41,757
6/30/2017	23,310	31,164	54,474	9,840	76,664	(12,314)	64,350	74,190
6/30/2018	24,475	30,126	54,601	10,635	76,172	(12,314)	63,858	74,493
6/30/2019	23,380	28,842	52,222	11,460	75,641	(12,314)	63,326	74,786
6/30/2020	24,610	27,673	52,283	12,530	75,068	(12,314)	62,753	75,283
6/30/2021	25,970	26,380	52,350	13,660	74,441	(12,314)	62,127	75,787
6/30/2022	27,440	24,952	52,392	19,480	73,758	(12,314)	61,444	80,924
6/30/2023	28,990	23,443	52,433	29,500	72,784	(12,314)	60,470	89,970
6/30/2024	30,625	21,848	52,473	39,005	71,309	(12,314)	58,995	98,000
6/30/2025	32,360	20,164	52,524	50,825	69,348	(11,937)	57,410	108,235
6/30/2026	34,190	18,384	52,574	53,415	66,761	(11,529)	55,232	108,647
6/30/2027	36,125	16,504	52,629	56,100	64,073	(11,065)	53,008	109,108
6/30/2028	38,170	14,517	52,687	50,975	61,179	(10,575)	50,603	101,578
6/30/2029	40,330	12,418	52,748	53,240	58,661	(10,058)	48,604	101,844
6/30/2030	42,610	10,199	52,809	50,555	56,100	(9,512)	46,588	97,143
6/30/2031	45,020	7,856	52,876	58,125	53,527	(8,935)	44,592	102,717
6/30/2032	47,565	5,380	52,945	60,865	50,536	(8,316)	42,220	103,085
6/30/2033	50,250	2,764	53,014	63,825	47,325	(7,661)	39,664	103,489
6/30/2034	-	-	-	66,850	44,053	(6,970)	37,084	103,934
6/30/2035	-	-	-	65,065	40,587	(6,239)	34,349	99,414
6/30/2036	-	-	-	68,455	37,196	(5,466)	31,729	100,184
6/30/2037	-	-	-	77,035	33,618	(4,650)	28,968	106,003
6/30/2038	-	-	-	75,625	29,778	(3,718)	26,060	101,685
6/30/2039	-	-	-	79,565	25,836	(2,546)	23,289	102,854
6/30/2040	-	-	-	83,665	21,735	(1,308)	20,427	104,092
6/30/2041	-	-	-	87,995	17,408	-	17,408	105,403
6/30/2042	-	-	-	91,665	13,740	-	13,740	105,405
6/30/2043	-	-	-	95,935	9,470	-	9,470	105,405
6/30/2044	-	-	-	100,000	5,000	-	5,000	105,000
6/30/2045	-	-	-	-	-	-	-	-
6/30/2046	-	-	-	-	-	-	-	-
Totals (1)	\$597,630	\$354,944	\$952,574	\$1,545,150	\$1,440,421	(\$225,157)	\$1,215,264	\$2,760,414

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

Special Obligation Revenue Bonds
(Gas Tax)

Special Obligation Revenue Bonds
(Rails)

Period Ending	Principal	Interest	Debt Service	Principal	Interest	Debt Service
6/30/2016	\$39,900	\$5,503	\$45,403	\$ -	\$10,972	\$10,972
6/30/2017	42,465	8,811	51,276	15,870	20,466	36,336
6/30/2018	23,040	6,785	29,825	18,395	19,673	38,068
6/30/2019	24,300	5,518	29,818	18,970	18,806	37,776
6/30/2020	25,640	4,182	29,822	19,355	17,923	37,278
6/30/2021	26,905	2,916	29,821	19,690	17,020	36,710
6/30/2022	28,385	1,436	29,821	22,265	16,054	38,319
6/30/2023	-	-	-	16,870	14,966	31,836
6/30/2024	-	-	-	9,425	14,132	23,557
6/30/2025	-	-	-	-	13,696	13,696
6/30/2026	-	-	-	-	13,696	13,696
6/30/2027	-	-	-	-	13,696	13,696
6/30/2028	-	-	-	7,620	13,696	21,316
6/30/2029	-	-	-	7,955	13,315	21,270
6/30/2030	-	-	-	7,820	12,917	20,737
6/30/2031	-	-	-	8,505	12,682	21,187
6/30/2032	-	-	-	8,875	12,257	21,132
6/30/2033	-	-	-	9,265	11,813	21,078
6/30/2034	-	-	-	9,660	11,350	21,010
6/30/2035	-	-	-	10,585	10,867	21,452
6/30/2036	-	-	-	10,860	10,523	21,383
6/30/2037	-	-	-	10,785	9,980	20,765
6/30/2038	-	-	-	12,035	9,441	21,476
6/30/2039	-	-	-	12,530	8,847	21,377
6/30/2040	-	-	-	13,040	8,228	21,268
6/30/2041	-	-	-	13,565	7,585	21,150
6/30/2042	-	-	-	14,135	7,011	21,146
6/30/2043	-	-	-	14,735	6,413	21,148
6/30/2044	-	-	-	15,760	5,790	21,550
6/30/2045	-	-	-	121,430	5,123	126,553
6/30/2046	-	-	-	-	-	-
Totals (1)	\$210,635	\$35,151	\$245,786	\$450,000	\$368,935	\$818,935

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

17. Annual fiscal year contract assistance requirements for Commonwealth general obligation contract assistance, beginning with the current fiscal year.

The following table sets forth the Commonwealth's general obligation contract assistance requirements for all of fiscal 2016 and each fiscal year thereafter pursuant to contracts with the Massachusetts Clean Water Trust, the Massachusetts Department of Transportation (as successor to the Massachusetts Turnpike Authority) and Massachusetts Development Finance Agency (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)

<u>Fiscal Year</u>	<u>Massachusetts Clean Water Trust</u>	<u>Massachusetts Department of Transportation</u>	<u>Massachusetts Development Finance Agency</u>	<u>Social Innovation Financing Trust Fund (3)</u>	<u>Total</u>
2016	\$59,324	\$125,000	\$7,247	\$1,782	\$193,353
2017	49,969	125,000	8,371	2,633	185,973
2018	44,086	125,000	8,372	14,630	192,088
2019	43,714	125,000	8,366	5,037	182,117
2020	38,242	125,000	8,365	8,661	180,268
2021	31,260	125,000	8,371	563	165,194
2022	21,934	125,000	8,371	-	155,305
2023	22,185	125,000	8,367	-	155,552
2024	13,987	125,000	8,368	-	147,355
2025	9,896	125,000	8,373	-	143,269
2026	7,599	125,000	8,369	-	140,968
2027 through 2049	<u>26,068 (1)</u>	<u>1,875,000</u>	<u>146,203</u>	<u>-</u>	2,047,271
Total (4)	<u>\$368,264</u>	<u>\$3,250,000 (2)</u>	<u>\$237,145</u>	<u>\$33,306</u>	<u>\$3,888,715</u>

SOURCES: Massachusetts Clean Water Trust column – Office of the Treasurer and Receiver-General; Massachusetts Department of Transportation, 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 2045.
- (2) Represents \$25 million per year for fiscal years 2027 to 2049, 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. Up to \$10,770,000 of these payments may be funded through a grant from the U. S. Department of Labor.
- (4) Totals may not add due to rounding.

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18. Annual fiscal year budgetary contractual assistance liabilities for Commonwealth, beginning with the current fiscal year.

The following table sets forth the Commonwealth's budgetary contract assistance requirements. These figures are as of June 30, 2015.

Budgetary Contract Assistance Liabilities (in thousands)

<u>Fiscal Year</u>	<u>Leases (1)(2)</u>
2016	\$203,420
2017	144,719
2018	125,043
2019	101,318
2020	69,139
2021	41,186
2022	29,065
2023	23,533
2024	20,855
2025	13,631
2026	5,490
2027 through 2044	<u>37,312</u>
Total	\$814,711

SOURCES: Office of the Comptroller.

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

(2) Amounts are unaudited.

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19. Five-year summary presentation of authorized and unissued general obligation debt.

General obligation bonds of the Commonwealth are authorized to correspond with capital appropriations. 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)

<u>Fiscal Year</u>	<u>Authorized and Unissued Debt</u>
2011	\$15,870,432
2012	13,893,469
2013	13,762,257
2014	26,255,768
2015	29,071,339 (1)

SOURCE: Office of the Comptroller.

(1) Amount is unaudited and is as of June 30, 2015.

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.

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20. So long as Commonwealth statutes impose a limit on the amount of outstanding “direct” bonds, information as to compliance therewith as of the end of the prior fiscal year.

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 2016 is \$20,748,691,688. 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 February 12, 2016, the Governor filed legislation that would also exempt 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. Previous versions of this table published in Commonwealth Information Statements and in the corresponding schedules to the Commonwealth’s Comprehensive Annual Financial Reports contained incorrect information for fiscal 2011 and fiscal 2012. That information has been corrected in this table. For fiscal 2011 through fiscal 2012, the table below shows the calculation of the debt limit prior to the passage of the legislation approved on June 10, 2013, as described above, and is presented showing net proceeds. For fiscal 2013 and thereafter the limit calculations are presented showing principal amounts as required by the amended law.

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Calculation of the Debt Limit
(in thousands)

	<u>Fiscal 2011</u>	<u>Fiscal 2012</u>	<u>Fiscal 2013 (3)</u>	<u>Fiscal 2014 (4)</u>	<u>Fiscal 2015 (5)</u>	<u>Fiscal 2016 (6)</u>
Principal balance	\$20,875,055	\$21,433,553	\$21,513,039	\$22,419,852	\$23,826,301	\$23,923,754
Plus/ (less) amounts excluded:						
Net unamortized (discount)/premium and issuance costs	<u>335,078</u>	<u>477,815</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
Total net proceeds/principal	21,210,133	21,911,368	21,513,039	22,419,852	23,826,301	23,923,754
Less: net proceeds/principal of direct debt excluded from the statutory debt limit:						
Special obligation debt (1)	(1,025,739)	(986,050)	(935,095)	(888,405)	(829,340)	(808,265)
Accelerated bridge program	(672,587)	(1,035,859)	(988,605)	(1,403,850)	(1,495,150)	(1,545,150)
Federal grant anticipation notes (1)	(691,398)	(628,290)	(449,100)	(530,935)	(699,855)	(688,465)
Assumed county debt	(150)	(75)	-	-	-	-
MBTA forward funding	(45,907)	(207)	(207)	(207)	(207)	(207)
Transportation Infrastructure Fund School Building Assistance (SBA)	(1,362,894)	(1,345,406)	(1,303,013)	(1,241,263)	(1,197,127)	(1,159,198)
	<u>(841,841)</u>	<u>(811,088)</u>	<u>(764,338)</u>	<u>(723,917)</u>	<u>(689,446)</u>	<u>(652,197)</u>
Outstanding direct debt, net proceeds/principal (2)	<u>\$16,569,617</u>	<u>\$17,104,393</u>	<u>\$17,072,681</u>	<u>\$17,631,275</u>	<u>\$18,915,176</u>	<u>\$19,070,272</u>
Statutory Debt Limit	<u>\$18,042,424</u>	<u>\$18,944,152</u>	<u>\$17,923,500</u>	<u>\$18,819,675</u>	<u>\$19,760,659</u>	<u>\$20,748,692</u>

SOURCE: Office of the Comptroller.

(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.

(2) Includes capital appreciation bonds reported at original net proceeds.

(3) For fiscal 2011 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) 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 and are as of June 30, 2015.

(6) Amounts are unaudited and are as of January 31, 2016.

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21. Summary presentation of the then-current Commonwealth interest rate 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 January 31, 2016.

Associated Bond Issue	Outstanding Notional Amount (thousands)	Bond Floating Rate	Swap Fixed Rate Paid (Range)	Swap Variable Rate Received	Effective Date	Termination Date	Fair value as of 10/31/2015	Counterparty
<i>General Obligation Bonds:</i>								
Series 1998A (refunding) Consolidated Loan of 2006, Series A Central Artery Loan of 2000, Series A Central Artery Loan of 2000, Series B (2)	\$24,105	VRDB	4.174%	60% 1-Month LIBOR + 25 basis points	11/17/2008	September 1, 2016	(\$575,795)	Wells Fargo Bank
Series 1998A (refunding) (1)	10,185	VRDB	4.174%	Cost of Funds	9/17/1998	September 1, 2016	(271,304)	Wells Fargo Bank
Series 2001B & C	421,000	VRDB	4.150%	Cost of Funds	2/20/2001	January 1, 2021	(46,591,646)	Morgan Stanley Capital Services
Series , 2014E, 2015B & 2015C (refunding)	475,000	SIFMA	3.616% - 4.004%	SIFMA	3/15/2005	February 1, 2028	(92,322,204)	Wells Fargo Bank
Series 2006C (refunding)	100,000	CPI	3.73% - 3.85%	CPI-based formula	1/1/2007	November 1, 2020	(6,359,410)	Wells Fargo Bank
Series 2007A	400,000	LIBOR	4.420%	67% 3-Month LIBOR + 0.57%	10/8/2008	May 1, 2037	(20,280,145)	Barclays Bank PLC
Series 2007A (refunding) (2)	31,665	LIBOR	3.936%	67% 3-Month LIBOR + 0.46%	10/8/2008	November 1, 2020	(4,040,915)	Wells Fargo Bank
Series 2007A (refunding)	414,130	LIBOR	4.083%	67% 3-Month LIBOR + 0.55%	10/8/2008	November 1, 2025	(72,576,976)	Bank of NY Mellon
Series 2000A	97,092	VRDB	3.942%	SIFMA - 3 basis points	8/16/2007	August 1, 2018	(3,457,332)	Merrill Lynch Capital Services

Associated Bond Issue	Outstanding Notional Amount (thousands)	Bond Floating Rate	Swap Fixed Rate Paid (Range)	Swap Variable Rate Received	Effective Date	Termination Date	Fair value as of 10/31/2015	Counterparty
Series 2000A	49,308	VRDB	3.942%	SIFMA - 3 basis points	8/16/2007	August 1, 2018	(1,724,464)	JP Morgan formerly Bear Stearns
Series 2006B, Series 2000D	\$294,000	VRDB/ARS	4.515%	67% 3-Month LIBOR	4/2/2009	June 15, 2033	(\$94,307,453)	Barclays Bank PLC
Subtotal	<u>\$2,316,485</u>						<u>(\$342,507,664)</u>	
<i>Special Obligation Dedicated Tax Revenue Bonds</i>								
Series 2004 (Convention Ctr)	15,173	CPI	4.45% - 5.25%	CPI-based formula	6/29/2004	January 1, 2018	(571,916)	Goldman Sachs Capital Markets
Series 2004 (Convention Ctr)	15,174	CPI	4.45% - 5.25%	CPI-based formula	6/29/2004	January 1, 2018	(549,429)	JP Morgan formerly Bear Stearns
Series 2004 (Convention Ctr)	15,173	CPI	4.45% - 5.25%	CPI-based formula	6/29/2004	January 1, 2018	(548,218)	JPMorgan Chase Bank
Series 2005A (Gas Tax)	96,490	CPI	4.771% - 5.059%	CPI-based formula	1/12/2005	June 1, 2022	(6,2732,323)	Merrill Lynch Capital Services
Subtotal	<u>\$142,010</u>						<u>(\$7,942,886)</u>	
Total	<u>\$2,458,495</u>						<u>(\$350,450,530)</u>	

SOURCE: Office of the Treasurer and Receiver General.

- (1) The Series 1998A swap with Citi Swapco was partially terminated as part of the novation of the Commonwealth's swaps with Citi Swapco and Citibank to Wells Fargo on September 20, 2013.
- (2) The Series 1998A Refunding, 2006A, 2000A, 2000B and 2007A Refunding swaps with Deutsche Bank were terminated as part of the novation of the Commonwealth's swaps with Deutsche Bank to Wells Fargo on December 23, 2015.

22. Summary presentation of the then-current Commonwealth liquidity facilities.

The following table describes the liquidity facilities that the Commonwealth had with respect to such bonds as of January 31, 2016.

Variable Rate Bonds	Outstanding Principal Amount (in thousands)	Bank	Termination Date
2000 Series A	\$200,000	Citibank	4/24/2018
2000 Series B	75,590	Bank of America	4/24/2018
2001 Series C (Refunding)	210,500	State Street Bank	4/17/2017
2006 Series A	150,000	Wells Fargo Bank	8/08/2017

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	Outstanding Principal Amount (in thousands)	Bank	Termination Date
Series I (tax-exempt) and K (taxable) (1)	\$200,000	TD Bank	4/17/2018
Series L (tax-exempt)	200,000	State Street Bank	1/29/2019

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.