

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM

Schedule of Nonemployer Allocations and
Schedule of Collective Pension Amounts

June 30, 2018

(With Independent Auditors' Report Thereon)



KPMG LLP
Two Financial Center
60 South Street
Boston, MA 02111

Independent Auditors' Report

Mr. Andrew W. Maylor, Comptroller
Commonwealth of Massachusetts:

We have audited the accompanying schedule of nonemployer allocations of the Massachusetts Teachers' Retirement System (MTRS) as of and for the year ended June 30, 2018, and the related notes. We have also audited the columns titled net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total nonemployer pension expense (specified column totals) included in the accompanying schedule of collective pension amounts of MTRS as of and for the year ended June 30, 2018, and the related notes.

Management's Responsibility for the Schedules

Management is responsible for the preparation and fair presentation of these schedules in accordance with U.S. generally accepted accounting principles; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the schedules that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on the schedule of nonemployer allocations and the specified column totals included in the schedule of collective pension amounts based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of nonemployer allocations and the specified column totals included in the schedule of collective pension amounts are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of nonemployer allocations and the specified column totals included in the schedule of collective pension amounts. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the schedule of nonemployer allocations and the specified column totals included in the schedule of collective pension amounts, 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 schedule of nonemployer allocations and the specified column totals included in the schedule of collective pension amounts 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 schedule of nonemployer allocations and the specified column totals included in the schedule of collective pension amounts.

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, the schedules referred to above present fairly, in all material respects, the nonemployer allocations, net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total nonemployer pension expense for MTRS as of and for the year ended June 30, 2018, in accordance with U.S. generally accepted accounting principles.

Supplemental Information

The supplemental schedule of employer allocations of special funding amounts, the supplemental schedule of special funding amounts by employer, and related notes have not been subject to the auditing procedures applied in the audit of the schedule of nonemployer allocations and the schedule of collective pension amounts, and accordingly, we do not express an opinion or provide any assurance on them.

Restriction on Use

Our report is intended solely for information and use of MTRS management and board, MTRS employers and their auditors, and 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
March 7, 2019

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
SCHEDULE OF NONEMPLOYER ALLOCATIONS
As of and for the fiscal year ended June 30, 2018

Nonemployer	Nonemployer Contributions	Allocation Percentage
Commonwealth of Massachusetts.....	\$ 1,314,783,000	100.00000%

See accompanying notes to schedule of nonemployer allocations and schedule of collective pension amounts.

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM

SCHEDULE OF COLLECTIVE PENSION AMOUNTS

As of and for the fiscal year ended June 30, 2018

Nonemployer	Net Pension Liability	Deferred Outflows of Resources			Deferred Inflows of Resources			Pension Expense
		Differences Between Expected and Actual Experience	Changes of Assumptions	Total Deferred Outflows of Resources	Differences Between Expected and Actual Experience	Net Differences Between Projected and Actual Investment Earnings on Pension Plan Investments	Total Deferred Inflows of Resources	Total Nonemployer Pension Expense
Commonwealth of Massachusetts.....	\$ 23,711,289,000	\$ 163,343,199	\$ 2,615,498,879	\$ 2,778,842,078	\$ 38,206,484	\$ 467,208,400	\$ 505,414,884	\$ 2,402,795,806

See accompanying notes to schedule of nonemployer allocations and schedule of collective pension amounts.

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Nonemployer Allocations and Schedule of Collective Pension Amounts

June 30, 2018

NOTE 1 - PLAN DESCRIPTION

The Massachusetts Teachers' Retirement System (MTRS) is a public employee retirement system (PERS) that administers a cost-sharing multiple employer defined benefit pension plan, as defined in Governmental Accounting Standards Board (GASB) Statement No. 67, *Financial Reporting for Pension Plans*. MTRS is managed by the Commonwealth on behalf of municipal teachers and municipal teacher retirees. The Commonwealth is a nonemployer contributing entity 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, charter schools, educational collaboratives and Quincy College. The MTRS is part of the Commonwealth's reporting entity and does not issue a stand-alone audited financial report.

Management of MTRS is vested in the Massachusetts Teachers' Retirement Board (MTRB), which consists of seven members—two elected by the MTRS members, the State Treasurer (or their designee), the State Auditor (or their designee), a member appointed by the Governor, the Commissioner of Education (or their designee), who serves ex-officio as the Chairman of the MTRB and one who is chosen by the six other MTRB members.

Benefits provided. MTRS provides 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, 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 20 years of creditable service or upon reaching the age of 55 with ten years of service. Normal retirement for most employees occurs at age 65. Most employees who joined the system after April 1, 2012 cannot retire prior to age 60.

The MTRS' 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 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.

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Nonemployer Allocations and
Schedule of Collective Pension Amounts

June 30, 2018

Member contributions for MTRS vary depending on the most recent date of membership:

<u>Hire Date</u>	<u>% of Compensation</u>
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
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 who join the system on or after April 2, 2012 will have their withholding rate reduced to 8% after achieving 30 years of creditable service.

NOTE 2 - BASIS OF PRESENTATION

The Schedule of Nonemployer Allocations and Schedule of Collective Pension Amounts (the Schedules) present amounts that are elements of the financial statements of the MTRS and the Commonwealth of Massachusetts as the nonemployer entity. Accordingly, they do not purport to be a complete presentation of the financial position or changes in financial position of the MTRS or the Commonwealth of Massachusetts. The amounts presented in the Schedules were prepared in accordance with U.S. generally accepted accounting principles. Such preparation requires management of the MTRS to make a number of estimates and assumptions related to the reported amounts. Actual results could differ from those estimates.

NOTE 3 - COLLECTIVE NET PENSION LIABILITY

The collective net pension liability at June 30, 2018 was as follows (amounts in thousands):

Total pension liability.....	\$ 52,503,000
Less:	
Plan fiduciary net position.....	<u>28,791,711</u>
Net pension liability.....	<u>\$ 23,711,289</u>
Plan fiduciary net position as a percentage of total pension liability.....	<u>54.84%</u>

Actuarial Assumptions

The total pension liability for the June 30, 2018 measurement date was determined by an actuarial valuation as of January 1, 2018 rolled forward to June 30, 2018. This valuation used the following assumptions:

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Notes to Schedule of Nonemployer Allocations and Schedule of Collective Pension Amounts

June 30, 2018

1. (a) 7.35% investment rate of return, (b) 3.50% interest rate credited to the annuity savings fund and (c) 3.00% cost of living increase on the first \$13,000 of allowance per year.
2. Salary increases are based on analyses of past experience but range from 4.0% to 7.5% depending on length of service.
3. Mortality rates were as follows:
 - Pre-retirement – reflects RP-2014 White Collar Employees Table projected generationally with Scale MP-2016 (gender distinct).
 - Post-retirement – reflects RP-2014 White Collar Healthy Annuitant Table projected generationally with Scale MP-2016 (gender distinct).
 - Disability – assumed to be in accordance with the RP-2014 White Collar Healthy Annuitant Table projected generationally with Scale MP-2016 (gender distinct).
4. Experience study was performed as follows:
 - Dated July 21, 2014 and encompasses the period January 1, 2006 to December 31, 2011.

Investment assets of the MTRS are with the Pension Reserves Investment Trust (PRIT) Fund. The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future rates of return are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future rates of return by the target asset allocation percentage. 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, 2018 are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Global Equity.....	39.0%	5.0%
Portfolio Completion Strategies...	13.0%	3.7%
Core Fixed Income.....	12.0%	0.9%
Private Equity.....	12.0%	6.6%
Real Estate.....	10.0%	3.8%
Value Added Fixed Income.....	10.0%	3.8%
Timber/Natural Resources.....	4.0%	3.4%
Total.....	100.0%	

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Nonemployer Allocations and Schedule of Collective Pension Amounts

June 30, 2018

Discount Rate

The discount rate used to measure the total pension liability was 7.35%. 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 net position was 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.

Sensitivity Analysis

The following illustrates the sensitivity of the collective net pension liability to changes in the discount rate as of June 30, 2018. In particular, the table presents the MTRS collective net pension liability assuming it was calculated using a single discount rate that is one-percentage-point lower or one-percentage-point higher than the current discount rate (amounts in thousands):

1% Decrease to 6.35%	Current Discount Rate 7.35%	1% Increase to 8.35%
\$ 29,482,300	\$ 23,711,289	\$ 18,771,300

NOTE 4 - SPECIAL FUNDING SITUATION

The Commonwealth is a nonemployer contributing entity and is required by statute to make all actuarially determined employer contributions on behalf of the member employers. Therefore, these employers are considered to be in a special funding situation as defined by GASB Statement No. 68, *Accounting and Financial Reporting for Pensions* and the Commonwealth is a nonemployer contributing entity in MTRS. Since the employers do not contribute directly to MTRS, there is no net pension liability to recognize for each employer. However, the notes to the financial statements must disclose the portion of the nonemployer contributing entities' share of the collective net pension liability that is associated with the employer. In addition, each employer must recognize its portion of the collective pension expense as both a revenue and pension expense.

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
Notes to Schedule of Nonemployer Allocations and
Schedule of Collective Pension Amounts
June 30, 2018

NOTE 5 - DEFERRED OUTFLOW AND INFLOW OF RESOURCES

The following table summarizes the changes in both deferred outflows and deferred inflows of resources (amounts in thousands):

	Year of Deferral	Amortization Period	Balance July 1, 2017	Additions	Deletions	Balance June 30, 2018
Deferred Outflows of Resources:						
Difference between expected and actual experience.....	2015	6.2 years	\$ 78,968	\$ -	\$ (24,677)	\$ 54,291
	2017	6.2 years	39,458	-	(7,589)	31,869
	2018	6.1 years	-	92,317	(15,134)	77,183
Subtotal.....			<u>118,426</u>	<u>92,317</u>	<u>(47,400)</u>	<u>163,343</u>
Change of assumptions.....	2014	6.1 years	37,180	-	(17,705)	19,475
	2015	6.2 years	1,589,678	-	(496,773)	1,092,905
	2017	6.2 years	986,322	-	(189,678)	796,644
	2018	6.1 years	-	845,000	(138,525)	706,475
Subtotal.....			<u>2,613,180</u>	<u>845,000</u>	<u>(842,681)</u>	<u>2,615,499</u>
Total deferred outflows of resources.....			<u>\$ 2,731,606</u>	<u>\$ 937,317</u>	<u>\$ (890,081)</u>	<u>\$ 2,778,842</u>
Deferred Inflows of Resources:						
Difference between expected and actual experience.....	2016	6.2 years	\$ (50,146)	\$ -	\$ 11,939	\$ (38,207)
Net difference between projected and actual earnings on plan investments.....	2014	5 years	(398,664)	-	398,664	-
	2015	5 years	430,409	-	(215,204)	215,205
	2016	5 years	847,497	-	(282,499)	564,998
	2017	5 years	(1,025,160)	-	256,290	(768,870)
	2018	5 years	-	(598,176)	119,635	(478,541)
Subtotal.....			<u>(145,918)</u>	<u>(598,176)</u>	<u>276,886</u>	<u>(467,208)</u>
Total deferred inflows of resources.....			<u>\$ (196,064)</u>	<u>\$ (598,176)</u>	<u>\$ 288,825</u>	<u>\$ (505,415)</u>

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Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in the collective pension expense as follows (amounts in thousands):

Fiscal Year <u>Ending June 30</u>	
2019.....	\$ 999,920
2020.....	768,779
2021.....	67,350
2022.....	228,901
2023.....	193,111
Thereafter.....	<u>15,366</u>
Total.....	<u>\$ 2,273,427</u>

NOTE 6 - COLLECTIVE PENSION EXPENSE

The following table shows the components of pension expense as of June 30, 2018 (amounts in thousands):

Service cost.....	\$ 901,234
Interest on the total pension liability.....	3,633,027
Employee contributions.....	(755,688)
Projected earnings on plan investments.....	(1,944,400)
Transfers and reimbursements from other systems.....	(75,734)
Member make up, redeposits and payments from rollovers.....	(17,856)
Other reimbursements.....	(6,846)
Administrative expense.....	19,528
Other changes.....	48,275
Recognition (amortization) of deferred outflows and inflows of resources:	
Differences between expected and actual experience.....	35,461
Differences between projected and actual earnings on plan investments.....	(276,886)
Changes of assumptions.....	<u>842,681</u>
Pension expense.....	<u>\$ 2,402,796</u>

SUPPLEMENTAL INFORMATION
(SEE ACCOMPANYING INDEPENDENT AUDITORS' REPORT)
(UNAUDITED)

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
SUPPLEMENTAL SCHEDULE OF EMPLOYER ALLOCATIONS OF SPECIAL FUNDING AMOUNTS
As of and for the fiscal year ended June 30, 2018
(Unaudited)

Employer	Commonwealth Pension Support Provided	Employer Allocation Percentage
0100-ABINGTON PUBLIC SCHOOLS.....	\$ 2,466,982	0.187634%
0110-ACTON-BOXBOROUGH REGIONAL SCHOOL.....	7,551,846	0.574380%
0115-ACUSHNET PUBLIC SCHOOLS.....	1,220,778	0.092850%
0120-ADAMS-CHESHIRE REGIONAL SCHOOLS.....	1,461,724	0.111176%
0125-AGAWAM PUBLIC SCHOOLS.....	5,559,479	0.422844%
0130-AMESBURY PUBLIC SCHOOLS.....	3,050,679	0.232029%
0135-AMHERST PUBLIC SCHOOLS.....	2,303,987	0.175237%
0140-AMHERST-PELHAM REGIONAL SCHOOL DISTRICT.....	2,407,338	0.183098%
0145-ANDOVER PUBLIC SCHOOLS.....	9,809,353	0.746082%
0150-ARLINGTON PUBLIC SCHOOLS.....	7,374,261	0.560873%
0160-ASHBURNHAM-WESTMINSTER REGIONAL SCHOOL.....	2,668,560	0.202966%
0170-ASHLAND PUBLIC SCHOOLS.....	3,814,602	0.290132%
0175-ASSABET VALLEY REGIONAL VOCATIONAL SCH.....	2,123,544	0.161513%
0180-ASSABET VALLEY COLLABORATIVE SCHOOL.....	696,873	0.053003%
0185-ATHOL-ROYALSTON REGIONAL SCHOOL.....	1,858,652	0.141366%
0190-ATTLEBORO PUBLIC SCHOOLS.....	7,213,491	0.548645%
0195-AUBURN PUBLIC SCHOOLS.....	3,143,029	0.239053%
0200-AVON PUBLIC SCHOOLS.....	1,150,218	0.087483%
0210-BARNSTABLE PUBLIC SCHOOLS.....	7,802,462	0.593441%
0220-BEDFORD PUBLIC SCHOOLS.....	4,487,991	0.341348%
0225-BELCHERTOWN PUBLIC SCHOOLS.....	2,842,317	0.216181%
0230-BELLINGHAM PUBLIC SCHOOLS.....	3,086,168	0.234728%
0235-BELMONT PUBLIC SCHOOLS.....	5,707,199	0.434079%
0240-BERKLEY PUBLIC SCHOOLS.....	1,083,244	0.082390%
0245-BERKSHIRE HILLS REGIONAL SCHOOL DISTRICT.....	2,006,355	0.152600%
0250-BERLIN PUBLIC SCHOOLS.....	367,423	0.027946%
0255-BERLIN-BOYLSTON REGIONAL SCHOOL.....	838,965	0.063810%
0265-BEVERLY PUBLIC SCHOOLS.....	5,892,468	0.448170%
0270-BICOUNTY COLLABORATIVE.....	943,231	0.071740%
0275-BILLERICA PUBLIC SCHOOLS.....	7,722,889	0.587389%
0280-BLACKSTONE-MILLVILLE REGIONAL SCHOOL.....	2,159,474	0.164246%
0285-BLACKSTONE VALLEY REG. VOC.....	1,864,832	0.141836%
0300-BLUE HILLS REGIONAL TECH.....	1,676,792	0.127534%
0315-BOURNE PUBLIC SCHOOLS.....	2,894,385	0.220142%
0325-BOXFORD PUBLIC SCHOOLS.....	1,210,071	0.092036%
0330-BOYLSTON PUBLIC SCHOOLS.....	350,826	0.026683%
0335-BRAINTREE PUBLIC SCHOOLS.....	8,336,017	0.634022%
0340-BREWSTER PUBLIC SCHOOLS.....	698,541	0.053130%
0350-BRIDGewater-RAYNHAM REGIONAL SCHOOL.....	6,449,032	0.490502%
0355-BRIMFIELD PUBLIC SCHOOLS.....	435,466	0.033121%
0360-BRISTOL COUNTY AGRICULTURAL.....	644,688	0.049034%
0365-BRISTOL-PLYMOUTH REGIONAL SCHOOL.....	2,031,752	0.154531%
0370-BROCKTON PUBLIC SCHOOLS.....	21,667,800	1.648013%
0375-BROOKFIELD PUBLIC SCHOOLS.....	381,190	0.028993%
0380-BROOKLINE PUBLIC SCHOOLS.....	14,833,905	1.128240%
0390-BURLINGTON PUBLIC SCHOOLS.....	6,659,635	0.506520%

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
SUPPLEMENTAL SCHEDULE OF EMPLOYER ALLOCATIONS OF SPECIAL FUNDING AMOUNTS
As of and for the fiscal year ended June 30, 2018
(Unaudited)

Employer	Commonwealth Pension Support Provided	Employer Allocation Percentage
0395-CAMBRIDGE PUBLIC SCHOOLS.....	16,176,721	1.230372%
0400-CANTON PUBLIC SCHOOLS.....	4,988,460	0.379413%
0410-CAPE COD REGIONAL SCHOOL DISTRICT.....	1,116,049	0.084885%
0415-CAPE COD COLLABORATIVE.....	519,805	0.039535%
0420-CAPS COLLABORATIVE.....	432,443	0.032891%
0425-CARLISLE PUBLIC SCHOOLS.....	1,364,502	0.103782%
0430-CARVER PUBLIC SCHOOLS.....	2,171,831	0.165186%
0435-CASE COLLABORATIVE.....	858,260	0.065278%
0440-CENTRAL BERKSHIRE REGIONAL.....	2,267,264	0.172444%
0445-CENTRAL MASS. SPEC. ED. COLLABORATIVE.....	1,432,522	0.108955%
0460-CHELMSFORD PUBLIC SCHOOLS.....	6,688,187	0.508691%
0465-CHELSEA PUBLIC SCHOOLS.....	7,363,735	0.560072%
0470-CHESTERFIELD-GOSHEN REGIONAL.....	227,736	0.017321%
0475-CHICOPEE PUBLIC SCHOOLS.....	10,033,977	0.763166%
0485-CLARKSBURG PUBLIC SCHOOLS.....	250,350	0.019041%
0490-CLINTON PUBLIC SCHOOLS.....	2,408,631	0.183196%
0495-COHASSET PUBLIC SCHOOLS.....	2,514,056	0.191215%
0500-CONCORD PUBLIC SCHOOLS.....	4,047,503	0.307846%
0505-CONCORD-CARLISLE REGIONAL SCHOOL.....	2,641,654	0.200919%
0510-CONWAY PUBLIC SCHOOLS.....	243,949	0.018554%
0515-SOUTH COAST ED. COLLABORATIVE (COOPC).....	1,163,191	0.088470%
0520-DANVERS PUBLIC SCHOOLS.....	5,287,834	0.402183%
0525-DARTMOUTH PUBLIC SCHOOLS.....	5,253,656	0.399584%
0530-DEDHAM PUBLIC SCHOOLS.....	5,059,836	0.384842%
0540-DEERFIELD PUBLIC SCHOOLS.....	545,651	0.041501%
0545-DENNIS-YARMOUTH REGIONAL SCHOOLS.....	5,274,310	0.401154%
0555-DIGHTON-REHOBOTH REGIONAL SCHOOL.....	3,846,342	0.292546%
0560-DOUGLAS PUBLIC SCHOOLS.....	1,567,702	0.119237%
0565-DOVER PUBLIC SCHOOLS.....	839,577	0.063857%
0570-DOVER-SHERBORN REGIONAL SCHOOL.....	2,488,487	0.189270%
0575-DRACUT PUBLIC SCHOOLS.....	3,502,052	0.266360%
0580-DUDLEY-CHARLTON REGIONAL SCHOOLS.....	4,432,932	0.337161%
0585-DUXBURY PUBLIC SCHOOLS.....	4,375,742	0.332811%
0590-EAST BRIDGEWATER PUBLIC SCHOOLS.....	2,673,936	0.203375%
0600-EAST LONGMEADOW PUBLIC SCHOOLS.....	3,760,797	0.286039%
0605-EASTHAM PUBLIC SCHOOLS.....	403,926	0.030722%
0610-EASTHAMPTON PUBLIC SCHOOLS.....	1,721,441	0.130930%
0615-EASTON PUBLIC SCHOOLS.....	4,892,774	0.372135%
0617-EDCO COLLABORATIVE.....	440,559	0.033508%
0620-EDGARTOWN PUBLIC SCHOOLS.....	732,032	0.055677%
0625-ERVING PUBLIC SCHOOLS.....	314,374	0.023911%
0640-EVERETT PUBLIC SCHOOLS.....	9,862,670	0.750137%
0645-FAIRHAVEN PUBLIC SCHOOLS.....	2,394,150	0.182095%
0650-FALL RIVER PUBLIC SCHOOLS.....	12,797,113	0.973325%
0655-FALMOUTH PUBLIC SCHOOLS.....	5,569,558	0.423610%
0660-FITCHBURG PUBLIC SCHOOLS.....	6,387,729	0.485839%

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
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 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth Pension Support Provided	Employer Allocation Percentage
0665-FLLAC COLLABORATIVE.....	579,452	0.044072%
0670-FLORIDA PUBLIC SCHOOLS.....	144,764	0.011010%
0675-FOXBOROUGH PUBLIC SCHOOLS.....	4,192,389	0.318865%
0680-FRAMINGHAM PUBLIC SCHOOLS.....	14,166,343	1.077466%
0685-FRANKLIN PUBLIC SCHOOLS.....	7,566,095	0.575463%
0690-FRANKLIN COUNTY REGIONAL SCHOOL DISTRICT.....	934,216	0.071055%
0700-FREETOWN-LAKEVILLE REGIONAL SCHOOLS.....	3,209,369	0.244099%
0705-FRONTIER REGIONAL SCHOOL DISTRICT.....	994,139	0.075612%
0710-GARDNER PUBLIC SCHOOLS.....	2,885,576	0.219472%
0715-GATEWAY REGIONAL SCHOOL.....	1,224,618	0.093142%
0725-GEORGETOWN PUBLIC SCHOOLS.....	1,887,056	0.143526%
0730-GILL-MONTAGUE REGIONAL.....	1,450,780	0.110344%
0735-GLOUCESTER PUBLIC SCHOOLS.....	4,496,437	0.341991%
0745-GOSNOLD PUBLIC SCHOOLS.....	8,143	0.000619%
0750-GRAFTON PUBLIC SCHOOLS.....	4,010,941	0.305065%
0755-GRANBY PUBLIC SCHOOLS.....	1,032,492	0.078529%
0765-DIMAN REGIONAL VOC.....	2,490,536	0.189426%
0770-GREATER LAWRENCE REGIONAL.....	2,847,955	0.216610%
0775-CREST.....	889,840	0.067680%
0780-GREATER LOWELL REGIONAL.....	3,658,485	0.278258%
0785-GREATER NEW BEDFORD REGIONAL VOC.....	3,630,047	0.276095%
0795-GREENFIELD PUBLIC SCHOOLS.....	2,155,545	0.163947%
0800-GROTON-DUNSTABLE REGIONAL.....	3,340,053	0.254038%
0810-HADLEY PUBLIC SCHOOLS.....	785,342	0.059732%
0815-HALIFAX PUBLIC SCHOOLS.....	658,945	0.050118%
0820-HAMILTON-WENHAM REGIONAL.....	2,983,993	0.226957%
0830-HAMPDEN-WILBRAHAM REGIONAL.....	4,091,001	0.311154%
0835-HAMPSHIRE REGIONAL SCHOOL.....	1,194,446	0.090847%
0840-COLLABORATIVE FOR EDUCATIONAL SERVICES.....	3,187,803	0.242458%
0845-HANCOCK PUBLIC SCHOOLS.....	63,000	0.004792%
0850-HANOVER PUBLIC SCHOOLS.....	3,924,888	0.298520%
0865-HARVARD PUBLIC SCHOOLS.....	1,726,786	0.131336%
0875-HATFIELD PUBLIC SCHOOLS.....	631,042	0.047996%
0880-HAVERHILL PUBLIC SCHOOLS.....	9,366,762	0.712419%
0885-HAWLEMONT REGIONAL.....	172,686	0.013134%
0895-HINGHAM PUBLIC SCHOOLS.....	6,297,310	0.478962%
0900-HOLBROOK PUBLIC SCHOOLS.....	1,512,532	0.115040%
0910-HOLLAND PUBLIC SCHOOLS.....	280,142	0.021307%
0915-HOLLISTON PUBLIC SCHOOLS.....	4,205,796	0.319885%
0920-HOLYOKE PUBLIC SCHOOLS.....	6,409,710	0.487511%
0925-HOPEDALE PUBLIC SCHOOLS.....	1,561,645	0.118776%
0930-HOPKINTON PUBLIC SCHOOLS.....	5,473,185	0.416281%
0940-HUDSON PUBLIC SCHOOLS.....	4,596,900	0.349632%
0945-HULL PUBLIC SCHOOLS.....	1,673,276	0.127266%
0950-IPSWICH PUBLIC SCHOOLS.....	2,801,300	0.213062%
0955-KING PHILIP REGIONAL.....	2,306,193	0.175405%

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
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 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth Pension Support Provided	Employer Allocation Percentage
0960-KINGSTON PUBLIC SCHOOLS.....	1,127,968	0.085791%
0965-LABBB COLLABORATIVE.....	1,399,482	0.106442%
0980-LANESBOROUGH PUBLIC SCHOOLS.....	321,890	0.024482%
0985-LAWRENCE PUBLIC SCHOOLS.....	17,521,334	1.332641%
0990-LEE PUBLIC SCHOOLS.....	1,108,570	0.084316%
0995-LEICESTER PUBLIC SCHOOLS.....	1,967,316	0.149630%
1000-LENOX PUBLIC SCHOOLS.....	1,327,541	0.100970%
1005-LEOMINSTER PUBLIC SCHOOLS.....	6,960,284	0.529386%
1010-LEVERETT PUBLIC SCHOOLS.....	213,368	0.016228%
1015-LEXINGTON PUBLIC SCHOOLS.....	13,059,471	0.993280%
1025-LINCOLN PUBLIC SCHOOLS.....	2,793,955	0.212503%
1030-LINCOLN-SUDBURY REGIONAL.....	2,988,637	0.227310%
1035-LITTLETON PUBLIC SCHOOLS.....	2,110,837	0.160546%
1040-LONGMEADOW PUBLIC SCHOOLS.....	4,135,620	0.314548%
1045-LOWELL PUBLIC SCHOOLS.....	19,290,182	1.467176%
1050-LOWER PIONEER COLLAB.....	769,905	0.058558%
1055-LUDLOW PUBLIC SCHOOLS.....	3,749,954	0.285215%
1060-LUNENBURG PUBLIC SCHOOLS.....	2,063,616	0.156955%
1065-LYNN PUBLIC SCHOOLS.....	19,563,449	1.487960%
1070-LYNNFIELD PUBLIC SCHOOLS.....	3,311,223	0.251846%
1075-MALDEN PUBLIC SCHOOLS.....	8,804,810	0.669678%
1082-MANCHESTER ESSEX REGIONAL SCHOOL.....	2,534,458	0.192766%
1085-MANSFIELD PUBLIC SCHOOLS.....	5,954,960	0.452923%
1090-MARBLEHEAD PUBLIC SCHOOLS.....	4,897,841	0.372521%
1095-MARION PUBLIC SCHOOLS.....	627,690	0.047741%
1100-MARTHA'S VINEYARD PUBLIC SCHOOLS.....	2,045,200	0.155554%
1105-MARSHFIELD PUBLIC SCHOOLS.....	5,882,545	0.447416%
1110-MARLBOROUGH PUBLIC SCHOOLS.....	7,206,412	0.548107%
1115-MASCONOMET REGIONAL SCHOOL.....	3,120,265	0.237322%
1120-MASHPEE PUBLIC SCHOOLS.....	2,689,298	0.204543%
1125-MATTAPOISETT PUBLIC SCHOOLS.....	686,875	0.052242%
1130-MAYNARD PUBLIC SCHOOLS.....	2,034,955	0.154775%
1135-MEDFIELD PUBLIC SCHOOLS.....	4,314,283	0.328137%
1140-MEDFORD PUBLIC SCHOOLS.....	7,750,335	0.589476%
1145-MEDWAY PUBLIC SCHOOLS.....	3,213,194	0.244390%
1150-MELROSE PUBLIC SCHOOLS.....	4,264,575	0.324356%
1155-MENDON-UPTON REGIONAL SCHOOL DISTRICT.....	2,924,049	0.222398%
1165-VALLEY COLLABORATIVE SCHOOL.....	1,205,320	0.091674%
1170-METHUEN PUBLIC SCHOOLS.....	9,258,623	0.704194%
1175-MIDDLEBOROUGH PUBLIC SCHOOLS.....	4,076,936	0.310084%
1180-MIDDLETON PUBLIC SCHOOLS.....	1,163,984	0.088531%
1185-MILFORD PUBLIC SCHOOLS.....	5,905,623	0.449171%
1190-MILLBURY PUBLIC SCHOOLS.....	2,337,332	0.177773%
1195-MILLIS PUBLIC SCHOOLS.....	1,950,481	0.148350%
1200-MILTON PUBLIC SCHOOLS.....	6,043,131	0.459630%
1205-MINUTEMAN REGIONAL VOCATIONAL SCHOOL.....	1,784,090	0.135695%

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
 SUPPLEMENTAL SCHEDULE OF EMPLOYER ALLOCATIONS OF SPECIAL FUNDING AMOUNTS
 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth Pension Support Provided	Employer Allocation Percentage
1210-MOHAWK TRAIL REGIONAL SCHOOL.....	1,394,547	0.106067%
1215-MONROE PUBLIC SCHOOLS.....	5,139	0.000391%
1220-MONSON PUBLIC SCHOOLS.....	1,288,930	0.098034%
1225-MONTACHUSETT REGIONAL VOCATIONAL SCHOOL.....	2,152,738	0.163733%
1230-MOUNT GREYLOCK REGIONAL SCHOOL.....	917,391	0.069775%
1235-NAHANT PUBLIC SCHOOLS.....	160,994	0.012245%
1240-NANTUCKET PUBLIC SCHOOLS.....	3,077,725	0.234086%
1245-NARRAGANSETT REGIONAL SCHOOL DISTRICT.....	1,655,774	0.125935%
1250-NASHOBA REGIONAL SCHOOL DISTRICT.....	5,242,254	0.398716%
1255-NASHOBA VALLEY TECH.....	1,276,593	0.097095%
1260-NATICK PUBLIC SCHOOLS.....	7,403,122	0.563068%
1265-NAUSET REGIONAL SCHOOL.....	2,835,953	0.215697%
1275-NEEDHAM PUBLIC SCHOOLS.....	9,056,616	0.688830%
1285-NEW BEDFORD PUBLIC SCHOOLS.....	15,740,011	1.197157%
1295-NEW SALEM-WENDELL REGIONAL SCHOOL.....	283,616	0.021571%
1305-NEWBURYPORT PUBLIC SCHOOLS.....	3,513,107	0.267201%
1310-NEWTON PUBLIC SCHOOLS.....	21,903,945	1.665974%
1315-NORFOLK PUBLIC SCHOOLS.....	1,447,692	0.110109%
1320-NORFOLK COUNTY AGRICULTURAL SCHOOL.....	998,901	0.075975%
1325-NORTH ADAMS PUBLIC SCHOOLS.....	1,923,903	0.146329%
1330-NORTH ANDOVER PUBLIC SCHOOLS.....	5,636,228	0.428681%
1335-NORTH ATTLEBORO PUBLIC SCHOOLS.....	5,149,737	0.391680%
1340-NORTH BROOKFIELD PUBLIC SCHOOLS.....	699,389	0.053194%
1345-NORTH MIDDLESEX REGIONAL SCHOOL.....	4,162,490	0.316591%
1350-NORTH READING PUBLIC SCHOOLS.....	3,811,466	0.289893%
1355-NORTH RIVER COLLABORATIVE SCHOOL.....	747,761	0.056873%
1365-NORTHAMPTON PUBLIC SCHOOLS.....	4,415,617	0.335844%
1370-NORTHBOROUGH PUBLIC SCHOOLS.....	2,835,205	0.215641%
1375-NORTHBORO-SOUTHBORO REGIONAL SCHOOL.....	2,393,666	0.182058%
1380-NORTHBRIDGE PUBLIC SCHOOLS.....	2,878,394	0.218925%
1385-NORTHEAST METRO REGIONAL VOCATIONAL SCH.....	2,243,146	0.170610%
1390-NORTHERN BERKSHIRE REGIONAL VOC. SCH.....	896,485	0.068185%
1400-NORTON PUBLIC SCHOOLS.....	3,488,771	0.265350%
1405-NORWELL PUBLIC SCHOOLS.....	3,461,298	0.263260%
1410-NORWOOD PUBLIC SCHOOLS.....	5,195,261	0.395142%
1415-OAK BLUFFS PUBLIC SCHOOLS.....	801,764	0.060981%
1425-OLD COLONY VOCATIONAL SCHOOL.....	996,005	0.075754%
1430-OLD ROCHESTER REGIONAL SCHOOL.....	1,707,663	0.129882%
1435-ORANGE PUBLIC SCHOOLS.....	686,516	0.052215%
1440-ORLEANS PUBLIC SCHOOLS.....	420,582	0.031989%
1445-FARMINGTON RIVER PUBLIC SCHOOLS.....	194,937	0.014827%
1450-OXFORD PUBLIC SCHOOLS.....	2,035,068	0.154784%
1455-PALMER PUBLIC SCHOOLS.....	1,861,555	0.141586%
1460-PATHFINDER REGIONAL VOC.....	1,348,975	0.102601%
1470-PEABODY PUBLIC SCHOOLS.....	7,649,185	0.581783%
1475-PELHAM PUBLIC SCHOOLS.....	190,975	0.014525%

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
 SUPPLEMENTAL SCHEDULE OF EMPLOYER ALLOCATIONS OF SPECIAL FUNDING AMOUNTS
 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth Pension Support Provided	Employer Allocation Percentage
1480-PEMBROKE PUBLIC SCHOOLS.....	3,971,424	0.302059%
1485-PENTUCKET REGIONAL SCHOOL.....	3,375,848	0.256761%
1490-PETERSHAM CENTER SCHOOL.....	123,512	0.009394%
1495-PILGRIM AREA COLLABORATIVE.....	592,975	0.045101%
1500-PIONEER VALLEY REGIONAL.....	1,191,500	0.090623%
1505-PITTSFIELD PUBLIC SCHOOLS.....	7,470,337	0.568180%
1515-PLAINVILLE PUBLIC SCHOOLS.....	999,632	0.076030%
1520-PLYMOUTH PUBLIC SCHOOLS.....	11,196,628	0.851595%
1530-PLYMPTON PUBLIC SCHOOLS.....	302,195	0.022984%
1540-ACCEPT EDUCATIONAL COLLABORATIVE.....	411,739	0.031316%
1550-PROVINCETOWN PUBLIC SCHOOLS.....	361,122	0.027466%
1556-QUABBIN REGIONAL SCHOOL.....	2,716,664	0.206625%
1560-QUABOAG REGIONAL SCHOOL DISTRICT.....	1,653,473	0.125760%
1565-QUINCY PUBLIC SCHOOLS.....	13,564,753	1.031710%
1566-QUINCY COLLEGE.....	922,645	0.070175%
1570-RALPH C. MAHAR REG. SCHOOL.....	996,185	0.075768%
1575-RANDOLPH PUBLIC SCHOOLS.....	4,775,188	0.363192%
1585-READING PUBLIC SCHOOLS.....	5,565,557	0.423306%
1590-READS COLLABORATIVE.....	715,175	0.054395%
1605-REVERE PUBLIC SCHOOLS.....	10,109,211	0.768888%
1610-RICHMOND PUBLIC SCHOOLS.....	295,036	0.022440%
1615-ROCHESTER PUBLIC SCHOOLS.....	702,164	0.053405%
1620-ROCKLAND PUBLIC SCHOOLS.....	3,037,607	0.231035%
1625-ROCKPORT PUBLIC SCHOOLS.....	1,597,256	0.121484%
1630-ROWE PUBLIC SCHOOLS.....	133,414	0.010147%
1645-SALEM PUBLIC SCHOOLS.....	7,539,830	0.573466%
1660-SANDWICH PUBLIC SCHOOLS.....	3,756,410	0.285706%
1665-SAUGUS PUBLIC SCHOOLS.....	3,544,878	0.269617%
1670-SAVOY PUBLIC SCHOOLS.....	69,760	0.005306%
1675-SCITUATE PUBLIC SCHOOLS.....	5,014,376	0.381384%
1680-SEEKONK PUBLIC SCHOOLS.....	3,025,156	0.230088%
1685-SEEM COLLABORATIVE.....	1,497,783	0.113919%
1690-SHARON PUBLIC SCHOOLS.....	5,653,983	0.430032%
1695-SHAWNSHEEN VALLEY VOC.....	2,686,724	0.204347%
1700-SHERBORN PUBLIC SCHOOLS.....	711,112	0.054086%
1710-SHORE COLLABORATIVE.....	826,174	0.062837%
1715-SHREWSBURY PUBLIC SCHOOLS.....	7,814,750	0.594376%
1720-SHUTESBURY PUBLIC SCHOOLS.....	203,547	0.015481%
1725-SILVER LAKE REGIONAL SCHOOL DIST.....	2,684,354	0.204167%
1730-SOMERSET PUBLIC SCHOOLS.....	2,133,511	0.162271%
1735-SOMERVILLE PUBLIC SCHOOLS.....	8,780,928	0.667861%
1745-SOUTH HADLEY PUBLIC SCHOOLS.....	2,396,368	0.182263%
1750-SOUTH MIDDLESEX REGIONAL VOC.....	1,599,802	0.121678%
1755-SOUTH SHORE REGIONAL SCHOOL DIST.....	1,168,186	0.088850%
1760-SOUTH SHORE EDUCATIONAL COLLABORATIVE.....	1,727,030	0.131355%
1765-SOUTHERN WORCESTER COUNTY REGIONAL SCH.....	2,023,473	0.153902%

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
SUPPLEMENTAL SCHEDULE OF EMPLOYER ALLOCATIONS OF SPECIAL FUNDING AMOUNTS
As of and for the fiscal year ended June 30, 2018
(Unaudited)

Employer	Commonwealth Pension Support Provided	Employer Allocation Percentage
1770-SOUTHAMPTON PUBLIC SCHOOLS.....	582,372	0.044294%
1775-SOUTHBOROUGH PUBLIC SCHOOLS.....	2,369,569	0.180225%
1780-SOUTHBRIDGE PUBLIC SCHOOLS.....	3,038,464	0.231100%
1785-SOUTHEASTERN REGIONAL VOC. SCHOOL DIST.....	2,242,980	0.170597%
1790-SOUTHEASTERN MASS. COLLAB.....	273,023	0.020766%
1795-SOUTHERN BERKSHIRE REGIONAL.....	1,184,770	0.090111%
1800-SOUTHERN WORCESTER CO. ED. COLLAB.....	492,155	0.037432%
1805-SOUTHWICK-TOLLAND REGIONAL.....	2,149,175	0.163462%
1810-NORTH SHORE EDUCATION CONSORTIUM.....	1,629,644	0.123948%
1820-SPENCER-EAST BROOKFIELD PUBLIC SCHOOLS.....	1,797,633	0.136725%
1825-SPRINGFIELD PUBLIC SCHOOLS.....	32,252,904	2.453097%
1835-STONEHAM PUBLIC SCHOOLS.....	3,377,551	0.256890%
1840-STOUGHTON PUBLIC SCHOOLS.....	4,953,090	0.376723%
1850-STURBRIDGE PUBLIC SCHOOL.....	1,256,175	0.095542%
1855-SUDBURY PUBLIC SCHOOLS.....	4,428,548	0.336827%
1860-SUNDERLAND PUBLIC SCHOOLS.....	311,769	0.023713%
1865-SUTTON PUBLIC SCHOOLS.....	1,793,545	0.136414%
1870-SWAMPSCOTT PUBLIC SCHOOLS.....	3,466,862	0.263683%
1875-SWANSEA PUBLIC SCHOOLS.....	2,658,064	0.202168%
1880-TANTASQUA REGIONAL HIGH SCHOOL.....	2,545,767	0.193626%
1885-TAUNTON PUBLIC SCHOOLS.....	9,743,991	0.741110%
1890-TECH. COLLAB. THE ED. COOPERATIVE.....	556,498	0.042326%
1895-TEWKSBURY PUBLIC SCHOOLS.....	4,747,320	0.361072%
1900-TISBURY PUBLIC SCHOOLS.....	661,414	0.050306%
1905-TOPSFIELD PUBLIC SCHOOLS.....	1,009,824	0.076805%
1910-TRI-COUNTY REGIONAL VOC.....	1,948,913	0.148231%
1915-TRITON PUBLIC SCHOOLS.....	3,684,581	0.280243%
1920-TRURO PUBLIC SCHOOLS.....	315,060	0.023963%
1925-TYNGSBOROUGH PUBLIC SCHOOLS.....	2,503,329	0.190399%
1935-UPPER CAPE COD VOC. SCHOOL.....	1,317,328	0.100194%
1936-UP ISLAND REGIONAL SCHOOL.....	728,741	0.055427%
1940-UXBRIDGE PUBLIC SCHOOLS.....	2,327,359	0.177015%
1950-WACHUSETT REGIONAL SCHOOL DIST.....	8,311,275	0.632140%
1955-WAKEFIELD PUBLIC SCHOOLS.....	4,947,050	0.376264%
1960-WALES PUBLIC SCHOOLS.....	186,697	0.014200%
1965-WALPOLE PUBLIC SCHOOLS.....	5,826,838	0.443179%
1970-WALTHAM PUBLIC SCHOOLS.....	10,838,720	0.824373%
1975-WARE PUBLIC SCHOOLS.....	1,365,464	0.103855%
1980-WAREHAM PUBLIC SCHOOLS.....	3,299,191	0.250930%
2000-WATERTOWN PUBLIC SCHOOLS.....	5,168,514	0.393108%
2005-WAYLAND PUBLIC SCHOOLS.....	4,952,138	0.376651%
2010-WEBSTER PUBLIC SCHOOLS.....	2,350,398	0.178767%
2015-WELLESLEY PUBLIC SCHOOLS.....	9,710,362	0.738552%
2020-WELLFLEET PUBLIC SCHOOLS.....	277,958	0.021141%
2025-WEST BOYLSTON PUBLIC SCHOOLS.....	1,435,569	0.109187%
2030-WEST BRIDGEWATER PUBLIC SCHOOLS.....	1,646,622	0.125239%

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
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 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth Pension Support Provided	Employer Allocation Percentage
2045-WEST SPRINGFIELD PUBLIC SCHOOLS.....	4,750,268	0.361297%
2055-WESTBOROUGH PUBLIC SCHOOLS.....	6,066,753	0.461426%
2060-WESTFIELD PUBLIC SCHOOLS.....	7,047,440	0.536015%
2065-WESTFORD PUBLIC SCHOOLS.....	7,287,824	0.554299%
2070-WESTHAMPTON PUBLIC SCHOOLS.....	186,091	0.014154%
2080-WESTON PUBLIC SCHOOLS.....	4,575,452	0.348001%
2085-WESTPORT PUBLIC SCHOOLS.....	2,027,797	0.154231%
2090-WESTWOOD PUBLIC SCHOOLS.....	5,436,606	0.413498%
2095-WEYMOUTH PUBLIC SCHOOLS.....	8,367,990	0.636454%
2100-WHATELY PUBLIC SCHOOLS.....	201,530	0.015328%
2110-WHITMAN-HANSON REGIONAL.....	4,693,765	0.356999%
2120-WILLIAMSBURG PUBLIC SCHOOLS.....	261,292	0.019873%
2125-WILLIAMSTOWN PUBLIC SCHOOLS.....	654,648	0.049791%
2130-WILMINGTON PUBLIC SCHOOLS.....	4,992,966	0.379756%
2135-WINCENDON PUBLIC SCHOOLS.....	1,617,608	0.123032%
2140-WINCHESTER PUBLIC SCHOOLS.....	6,817,055	0.518493%
2145-WINTHROP PUBLIC SCHOOLS.....	2,473,525	0.188132%
2150-WHITTIER VOC. SCHOOL DIST.....	2,261,193	0.171982%
2155-WOBURN PUBLIC SCHOOLS.....	7,122,582	0.541731%
2160-WORCESTER PUBLIC SCHOOLS.....	34,757,955	2.643627%
2162-MASS ACADEMY OF MATH AND SCIENCE.....	107,676	0.008190%
2164-WORTHINGTON PUBLIC SCHOOLS.....	82,047	0.006240%
2165-WRENTHAM PUBLIC SCHOOLS.....	1,417,398	0.107805%
2200-AYER SHIRLEY REGIONAL.....	2,039,755	0.155140%
2205-SOMERSET-BERKLEY REGIONAL.....	1,358,091	0.103294%
2210-MONOMOY REGIONAL SCHOOL DISTRICT.....	3,180,634	0.241913%
2215-ESSEX NORTH SHORE AGRICULTURAL & TECHNICAL.....	2,231,011	0.169687%
3000-MASS VIRTUAL ACADEMY AT GREENFIELD.....	402,539	0.030616%
3005-TECCA VIRTUAL SCHOOL.....	670,875	0.051026%
4005-COMMUNITY DAY CHARTER SCHOOL.....	651,627	0.049562%
4010-CITY ON A HILL CHARTER SCHOOL.....	584,756	0.044475%
4015-ATLANTIS CHARTER SCHOOL.....	1,163,443	0.088489%
4020-CAPE COD LIGHTHOUSE CHARTER SCHOOL.....	396,382	0.030148%
4025-HILLTOWN COOPERATIVE CHARTER SCHOOL.....	286,076	0.021758%
4030-BENJAMIN FRANKLIN CLASSICAL CHARTER SCH.....	513,614	0.039065%
4035-SOUTH SHORE CHARTER SCHOOL.....	1,198,319	0.091142%
4040-LOWELL MIDDLESEX ACADEMY CHARTER SCH.....	150,548	0.011450%
4055-BOSTON RENAISSANCE CHARTER SCHOOL.....	1,377,509	0.104771%
4060-MARBLEHEAD COMMUNITY CHARTER SCHOOL.....	298,446	0.022699%
4065-FRANCIS W. PARKER CHARTER SCHOOL.....	510,897	0.038858%
4070-NEIGHBORHOOD HOUSE CHARTER SCHOOL.....	766,562	0.058303%
4075-ACADEMY OF THE PACIFIC RIM CHARTER SCH.....	776,676	0.059073%
4080-BENJAMIN BANNEKER CHARTER SCHOOL.....	490,915	0.037338%
4090-LAWRENCE FAMILY DEVELOPMENT CHARTER SCH.....	803,246	0.061093%
4095-MARTHA'S VINEYARD CHARTER SCHOOL.....	347,146	0.026403%
4105-SABIS INTERNATIONAL CHARTER SCHOOL.....	1,314,104	0.099948%

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM

SUPPLEMENTAL SCHEDULE OF EMPLOYER ALLOCATIONS OF SPECIAL FUNDING AMOUNTS

As of and for the fiscal year ended June 30, 2018

(Unaudited)

Employer	Commonwealth Pension Support Provided	Employer Allocation Percentage
4115-PIONEER VALLEY PERFORMING ARTS CHARTER.....	574,914	0.043727%
4120-PROSPECT HILL ACADEMY CHARTER SCHOOL.....	1,966,080	0.149536%
4125-SEVEN HILLS CHARTER SCHOOL.....	681,346	0.051822%
4140-ABBY KELLEY FOSTER REGIONAL CHARTER.....	1,599,470	0.121653%
4145-MYSTIC VALLEY REGIONAL CHARTER SCHOOL.....	1,373,956	0.104501%
4150-FOXBORO REGIONAL CHARTER SCHOOL.....	1,340,381	0.101947%
4165-RISING TIDE CHARTER.....	830,896	0.063196%
4170-BOSTON COLLEGIATE CHARTER SCHOOL.....	1,159,501	0.088190%
4175-STURGIS CHARTER SCHOOL.....	1,422,159	0.108167%
4180-RIVER VALLEY CHARTER SCHOOL.....	300,289	0.022839%
4200-CONSERVATORY LAB CHARTER SCHOOL.....	547,475	0.041640%
4205-ROXBURY PREPARATORY CHARTER.....	1,961,407	0.149181%
4210-MEDIA & TECH CHARTER HIGH SCH.....	1,878,645	0.142886%
4225-CODMAN ACADEMY CHARTER SCHOOL.....	600,561	0.045678%
4235-CHRISTA MCAULIFFE REG. CHARTER P.S.....	565,741	0.043029%
4240-NORTH CENTRAL CHARTER ESSENTIAL SCHOOL.....	502,841	0.038245%
4245-INNOVATION ACADEMY CHARTER SCHOOL.....	1,019,647	0.077552%
4250-EDWARD BROOKE CHARTER SCHOOL.....	2,703,831	0.205648%
4260-FOUR RIVER CHARTER PUBLIC SCHOOL.....	307,968	0.023423%
4265-BOSTON PREPARATORY CHARTER SCHOOL.....	800,925	0.060917%
4270-EXCEL ACADEMY CHARTER SCHOOL.....	1,752,894	0.133322%
4275-SALEM ACADEMY CHARTER SCHOOL.....	691,666	0.052607%
4285-BERKSHIRE ARTS AND TECHNOLOGY CHARTER.....	459,317	0.034935%
4290-HELEN Y. DAVIS LEADERSHIP ACADEMY CHARTER PUBLIC.....	308,764	0.023484%
4295-HILLVIEW MONTESSORI CHARTER SCHOOL.....	261,155	0.019863%
4300-KIPP ACADEMY LYNN CHARTER SCHOOL.....	1,915,338	0.145677%
4305-ADVANCED MATH & SCIENCE ACADEMY CHARTER SCHOOL.....	1,135,467	0.086362%
4310-COMMUNITY CHARTER SCHOOL OF CAMBRIDGE.....	616,782	0.046911%
4315-HOLYOKE COMMUNITY CHARTER SCHOOL.....	652,667	0.049641%
4320-MARTIN LUTHER KING JR. CHARTER SCHOOL.....	512,772	0.039001%
4325-PHOENIX CHARTER ACADEMY.....	223,077	0.016967%
4330-PIONEER VALLEY CHINESE IMMERSION CHARTER.....	801,474	0.060959%
4420-LOWELL COMMUNITY CHARTER SCHOOL.....	914,550	0.069559%
4425-PIONEER CHARTER SCHOOL OF SCIENCE.....	825,617	0.062795%
4430-GLOBAL LEARNING CHARTER PUBLIC SCHOOL.....	546,620	0.041575%
4440-HAMPDEN CHARTER SCHOOL OF SCIENCE - EAST.....	501,158	0.038117%
4510-ALMA DEL MAR CHARTER SCHOOL.....	425,095	0.032332%
4515-BRIDGE BOSTON CHARTER SCHOOL.....	410,132	0.031194%
4550-VERITAS PREPARATORY CHARTER SCHOOL.....	509,137	0.038724%
4565-CDCPS-GATEWAY.....	413,860	0.031477%
4570-CDCPS-R KINGMAN WEBSTER.....	392,046	0.029818%
4575-KIPP ACADEMY BOSTON CHARTER SCHOOL.....	772,839	0.058781%
4580-PAULO FREIRE SOCIAL JUSTICE CHARTER SCHOOL.....	362,131	0.027543%
4585-CITY ON A HILL CHARTER 2.....	352,425	0.026805%
4590-CITY ON A HILL CHARTER - NEW BEDFORD.....	255,716	0.019449%
4595-PIONEER CHARTER SCHOOL OF SCIENCE II.....	406,195	0.030894%

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
 SUPPLEMENTAL SCHEDULE OF EMPLOYER ALLOCATIONS OF SPECIAL FUNDING AMOUNTS
 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth Pension Support Provided	Employer Allocation Percentage
4600-THE LOWELL COLLEGIATE CHARTER SCHOOL.....	428,875	0.032619%
4605-BAY STATE ACADEMY CHARTER PUBLIC SCHOOL.....	500,400	0.038060%
4610-PHOENIX CHARTER ACADEMY SPRINGFIELD.....	173,810	0.013220%
4615-ARGOSY COLLEGIATE CHARTER SCHOOL.....	441,629	0.033589%
4620-SPRINGFIELD PREPARATORY CHARTER SCHOOL.....	242,625	0.018454%
4625-NEW HEIGHTS CHARTER OF BROCKTON.....	487,737	0.037096%
4630-LIBERTAS ACADEMY CHARTER SCHOOL.....	134,806	0.010253%
4635-OLD STURBRIDGE ACADEMY CHARTER PS.....	107,728	0.008194%
4640-MAP ACADEMY CHARTER SCHOOL.....	46,804	0.003560%
4645-HAMPDEN CHARTER SCHOOL OF SCIENCE - WEST.....	1,014	0.000077%
Totals.....	<u>\$ 1,314,783,000</u>	<u>100.000000%</u>

See accompanying notes to supplemental schedules.

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
As of and for the fiscal year ended June 30, 2018
(Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
0100-ABINGTON PUBLIC SCHOOLS.....	\$ 44,490,485	\$ 4,508,466
0110-ACTON-BOXBOROUGH REGIONAL SCHOOL.....	136,192,824	13,801,171
0115-ACUSHNET PUBLIC SCHOOLS.....	22,015,964	2,230,999
0120-ADAMS-CHESHIRE REGIONAL SCHOOLS.....	26,361,272	2,671,333
0125-AGAWAM PUBLIC SCHOOLS.....	100,261,735	10,160,075
0130-AMESBURY PUBLIC SCHOOLS.....	55,017,084	5,575,185
0135-AMHERST PUBLIC SCHOOLS.....	41,550,963	4,210,588
0140-AMHERST-PELHAM REGIONAL SCHOOL DISTRICT.....	43,414,836	4,399,465
0145-ANDOVER PUBLIC SCHOOLS.....	176,905,548	17,926,816
0150-ARLINGTON PUBLIC SCHOOLS.....	132,990,182	13,476,629
0160-ASHBURNHAM-WESTMINSTER REGIONAL SCHOOL.....	48,125,817	4,876,855
0170-ASHLAND PUBLIC SCHOOLS.....	68,793,959	6,971,272
0175-ASSABET VALLEY REGIONAL VOCATIONAL SCH.....	38,296,789	3,880,825
0180-ASSABET VALLEY COLLABORATIVE SCHOOL.....	12,567,663	1,273,551
0185-ATHOL-ROYALSTON REGIONAL SCHOOL.....	33,519,619	3,396,728
0190-ATTLEBORO PUBLIC SCHOOLS.....	130,090,800	13,182,819
0195-AUBURN PUBLIC SCHOOLS.....	56,682,560	5,743,957
0200-AVON PUBLIC SCHOOLS.....	20,743,457	2,102,049
0210-BARNSTABLE PUBLIC SCHOOLS.....	140,712,524	14,259,177
0220-BEDFORD PUBLIC SCHOOLS.....	80,938,112	8,201,906
0225-BELCHERTOWN PUBLIC SCHOOLS.....	51,259,402	5,194,398
0230-BELLINGHAM PUBLIC SCHOOLS.....	55,657,110	5,640,042
0235-BELMONT PUBLIC SCHOOLS.....	102,925,762	10,430,036
0240-BERKLEY PUBLIC SCHOOLS.....	19,535,625	1,979,653
0245-BERKSHIRE HILLS REGIONAL SCHOOL DISTRICT.....	36,183,362	3,666,660
0250-BERLIN PUBLIC SCHOOLS.....	6,626,245	671,474
0255-BERLIN-BOYLSTON REGIONAL SCHOOL.....	15,130,205	1,533,227
0265-BEVERLY PUBLIC SCHOOLS.....	106,266,978	10,768,620
0270-BICOUNTY COLLABORATIVE.....	17,010,576	1,723,776
0275-BILLERICA PUBLIC SCHOOLS.....	139,277,465	14,113,754
0280-BLACKSTONE-MILLVILLE REGIONAL SCHOOL.....	38,944,767	3,946,488
0285-BLACKSTONE VALLEY REG. VOC.....	33,631,085	3,408,023
0300-BLUE HILLS REGIONAL TECH.....	30,239,889	3,064,375
0315-BOURNE PUBLIC SCHOOLS.....	52,198,418	5,289,554
0325-BOXFORD PUBLIC SCHOOLS.....	21,822,869	2,211,432
0330-BOYLSTON PUBLIC SCHOOLS.....	6,326,936	641,143
0335-BRAINTREE PUBLIC SCHOOLS.....	150,334,844	15,234,260
0340-BREWSTER PUBLIC SCHOOLS.....	12,597,747	1,276,599
0350-BRIDGewater-RAYNHAM REGIONAL SCHOOL.....	116,304,257	11,785,752
0355-BRIMFIELD PUBLIC SCHOOLS.....	7,853,354	795,824
0360-BRISTOL COUNTY AGRICULTURAL.....	11,626,547	1,178,182

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
 SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
0365-BRISTOL-PLYMOUTH REGIONAL SCHOOL.....	36,641,368	3,713,072
0370-BROCKTON PUBLIC SCHOOLS.....	390,765,228	39,598,398
0375-BROOKFIELD PUBLIC SCHOOLS.....	6,874,526	696,634
0380-BROOKLINE PUBLIC SCHOOLS.....	267,520,203	27,109,299
0390-BURLINGTON PUBLIC SCHOOLS.....	120,102,352	12,170,634
0395-CAMBRIDGE PUBLIC SCHOOLS.....	291,737,048	29,563,326
0400-CANTON PUBLIC SCHOOLS.....	89,963,752	9,116,524
0410-CAPE COD REGIONAL SCHOOL DISTRICT.....	20,127,241	2,039,604
0415-CAPE COD COLLABORATIVE.....	9,374,364	949,956
0420-CAPS COLLABORATIVE.....	7,798,833	790,299
0425-CARLISLE PUBLIC SCHOOLS.....	24,607,936	2,493,658
0430-CARVER PUBLIC SCHOOLS.....	39,167,616	3,969,071
0435-CASE COLLABORATIVE.....	15,478,182	1,568,490
0440-CENTRAL BERKSHIRE REGIONAL.....	40,888,680	4,143,476
0445-CENTRAL MASS. SPEC. ED. COLLABORATIVE.....	25,834,643	2,617,967
0460-CHELMSFORD PUBLIC SCHOOLS.....	120,617,262	12,222,813
0465-CHELSEA PUBLIC SCHOOLS.....	132,800,353	13,457,393
0470-CHESTERFIELD-GOSHEN REGIONAL.....	4,107,082	416,193
0475-CHICOPEE PUBLIC SCHOOLS.....	180,956,505	18,337,322
0485-CLARKSBURG PUBLIC SCHOOLS.....	4,514,915	457,521
0490-CLINTON PUBLIC SCHOOLS.....	43,438,155	4,401,828
0495-COHASSET PUBLIC SCHOOLS.....	45,339,435	4,594,495
0500-CONCORD PUBLIC SCHOOLS.....	72,994,178	7,396,903
0505-CONCORD-CARLISLE REGIONAL SCHOOL.....	47,640,580	4,827,683
0510-CONWAY PUBLIC SCHOOLS.....	4,399,463	445,822
0515-SOUTH COAST ED. COLLABORATIVE (COOPC).....	20,977,431	2,125,759
0520-DANVERS PUBLIC SCHOOLS.....	95,362,775	9,663,636
0525-DARTMOUTH PUBLIC SCHOOLS.....	94,746,403	9,601,176
0530-DEDHAM PUBLIC SCHOOLS.....	91,250,976	9,246,965
0540-DEERFIELD PUBLIC SCHOOLS.....	9,840,478	997,190
0545-DENNIS-YARMOUTH REGIONAL SCHOOLS.....	95,118,884	9,638,922
0555-DIGHTON-REHOBOTH REGIONAL SCHOOL.....	69,366,374	7,029,278
0560-DOUGLAS PUBLIC SCHOOLS.....	28,272,534	2,865,012
0565-DOVER PUBLIC SCHOOLS.....	15,141,252	1,534,347
0570-DOVER-SHERBORN REGIONAL SCHOOL.....	44,878,304	4,547,766
0575-DRACUT PUBLIC SCHOOLS.....	63,157,309	6,400,079
0580-DUDLEY-CHARLTON REGIONAL SCHOOLS.....	79,945,162	8,101,285
0585-DUXBURY PUBLIC SCHOOLS.....	78,913,771	7,996,768
0590-EAST BRIDGEWATER PUBLIC SCHOOLS.....	48,222,769	4,886,679
0600-EAST LONGMEADOW PUBLIC SCHOOLS.....	67,823,621	6,872,942
0605-EASTHAM PUBLIC SCHOOLS.....	7,284,552	738,184

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
As of and for the fiscal year ended June 30, 2018
(Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
0610-EASTHAMPTON PUBLIC SCHOOLS.....	31,045,114	3,145,973
0615-EASTON PUBLIC SCHOOLS.....	88,238,114	8,941,655
0617-EDCO COLLABORATIVE.....	7,945,197	805,131
0620-EDGARTOWN PUBLIC SCHOOLS.....	13,201,733	1,337,804
0625-ERVING PUBLIC SCHOOLS.....	5,669,536	574,525
0640-EVERETT PUBLIC SCHOOLS.....	177,867,088	18,024,254
0645-FAIRHAVEN PUBLIC SCHOOLS.....	43,176,990	4,375,363
0650-FALL RIVER PUBLIC SCHOOLS.....	230,787,937	23,387,016
0655-FALMOUTH PUBLIC SCHOOLS.....	100,443,487	10,178,493
0660-FITCHBURG PUBLIC SCHOOLS.....	115,198,697	11,673,720
0665-FLLAC COLLABORATIVE.....	10,450,057	1,058,962
0670-FLORIDA PUBLIC SCHOOLS.....	2,610,730	264,560
0675-FOXBOROUGH PUBLIC SCHOOLS.....	75,607,106	7,661,685
0680-FRAMINGHAM PUBLIC SCHOOLS.....	255,481,136	25,889,314
0685-FRANKLIN PUBLIC SCHOOLS.....	136,449,789	13,827,210
0690-FRANKLIN COUNTY REGIONAL SCHOOL DISTRICT.....	16,848,007	1,707,302
0700-FREETOWN-LAKEVILLE REGIONAL SCHOOLS.....	57,878,967	5,865,195
0705-FRONTIER REGIONAL SCHOOL DISTRICT.....	17,928,674	1,816,812
0710-GARDNER PUBLIC SCHOOLS.....	52,039,556	5,273,455
0715-GATEWAY REGIONAL SCHOOL.....	22,085,216	2,238,017
0725-GEORGETOWN PUBLIC SCHOOLS.....	34,031,869	3,448,637
0730-GILL-MONTAGUE REGIONAL.....	26,163,915	2,651,334
0735-GLOUCESTER PUBLIC SCHOOLS.....	81,090,428	8,217,341
0745-GOSNOLD PUBLIC SCHOOLS.....	146,859	14,882
0750-GRAFTON PUBLIC SCHOOLS.....	72,334,805	7,330,085
0755-GRANBY PUBLIC SCHOOLS.....	18,620,345	1,886,902
0765-DIMAN REGIONAL VOC.....	44,915,257	4,551,511
0770-GREATER LAWRENCE REGIONAL.....	51,361,082	5,204,702
0775-CREST.....	16,047,715	1,626,204
0780-GREATER LOWELL REGIONAL.....	65,978,487	6,685,964
0785-GREATER NEW BEDFORD REGIONAL VOC.....	65,465,622	6,633,993
0795-GREENFIELD PUBLIC SCHOOLS.....	38,873,911	3,939,308
0800-GROTON-DUNSTABLE REGIONAL.....	60,235,759	6,104,022
0810-HADLEY PUBLIC SCHOOLS.....	14,163,143	1,435,229
0815-HALIFAX PUBLIC SCHOOLS.....	11,883,654	1,204,236
0820-HAMILTON-WENHAM REGIONAL.....	53,814,444	5,453,315
0830-HAMPDEN-WILBRAHAM REGIONAL.....	73,778,648	7,476,398
0835-HAMPSHIRE REGIONAL SCHOOL.....	21,541,094	2,182,878
0840-COLLABORATIVE FOR EDUCATIONAL SERVICES.....	57,490,031	5,825,782
0845-HANCOCK PUBLIC SCHOOLS.....	1,136,157	115,133
0850-HANOVER PUBLIC SCHOOLS.....	70,782,899	7,172,822

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
As of and for the fiscal year ended June 30, 2018
(Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
0865-HARVARD PUBLIC SCHOOLS.....	31,141,499	3,155,740
0875-HATFIELD PUBLIC SCHOOLS.....	11,380,449	1,153,244
0880-HAVERHILL PUBLIC SCHOOLS.....	168,923,687	17,117,970
0885-HAWLEMONT REGIONAL.....	3,114,275	315,587
0895-HINGHAM PUBLIC SCHOOLS.....	113,568,043	11,508,477
0900-HOLBROOK PUBLIC SCHOOLS.....	27,277,562	2,764,186
0910-HOLLAND PUBLIC SCHOOLS.....	5,052,190	511,966
0915-HOLLISTON PUBLIC SCHOOLS.....	75,848,895	7,686,187
0920-HOLYOKE PUBLIC SCHOOLS.....	115,595,111	11,713,891
0925-HOPEDALE PUBLIC SCHOOLS.....	28,163,290	2,853,942
0930-HOPKINTON PUBLIC SCHOOLS.....	98,705,473	10,002,370
0940-HUDSON PUBLIC SCHOOLS.....	82,902,209	8,400,938
0945-HULL PUBLIC SCHOOLS.....	30,176,490	3,057,950
0950-IPSWICH PUBLIC SCHOOLS.....	50,519,698	5,119,440
0955-KING PHILIP REGIONAL.....	41,590,749	4,214,620
0960-KINGSTON PUBLIC SCHOOLS.....	20,342,190	2,061,386
0965-LABBB COLLABORATIVE.....	25,238,778	2,557,585
0980-LANESBOROUGH PUBLIC SCHOOLS.....	5,805,087	588,262
0985-LAWRENCE PUBLIC SCHOOLS.....	315,986,301	32,020,636
0990-LEE PUBLIC SCHOOLS.....	19,992,362	2,025,936
0995-LEICESTER PUBLIC SCHOOLS.....	35,479,310	3,595,314
1000-LENOX PUBLIC SCHOOLS.....	23,941,372	2,426,111
1005-LEOMINSTER PUBLIC SCHOOLS.....	125,524,359	12,720,076
1010-LEVERETT PUBLIC SCHOOLS.....	3,847,957	389,935
1015-LEXINGTON PUBLIC SCHOOLS.....	235,519,399	23,866,481
1025-LINCOLN PUBLIC SCHOOLS.....	50,387,226	5,106,016
1030-LINCOLN-SUDBURY REGIONAL.....	53,898,194	5,461,802
1035-LITTLETON PUBLIC SCHOOLS.....	38,067,628	3,857,603
1040-LONGMEADOW PUBLIC SCHOOLS.....	74,583,315	7,557,939
1045-LOWELL PUBLIC SCHOOLS.....	347,886,364	35,253,246
1050-LOWER PIONEER COLLAB.....	13,884,750	1,407,018
1055-LUDLOW PUBLIC SCHOOLS.....	67,628,079	6,853,127
1060-LUNENBURG PUBLIC SCHOOLS.....	37,216,024	3,771,305
1065-LYNN PUBLIC SCHOOLS.....	352,814,557	35,752,647
1070-LYNNFIELD PUBLIC SCHOOLS.....	59,715,836	6,051,335
1075-MALDEN PUBLIC SCHOOLS.....	158,789,240	16,090,990
1082-MANCHESTER ESSEX REGIONAL SCHOOL.....	45,707,364	4,631,779
1085-MANSFIELD PUBLIC SCHOOLS.....	107,393,980	10,882,825
1090-MARBLEHEAD PUBLIC SCHOOLS.....	88,329,506	8,950,916
1095-MARION PUBLIC SCHOOLS.....	11,319,990	1,147,117
1100-MARTHA'S VINEYARD PUBLIC SCHOOLS.....	36,883,900	3,737,649

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
As of and for the fiscal year ended June 30, 2018
(Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
1105-MARSHFIELD PUBLIC SCHOOLS.....	106,088,017	10,750,484
1110-MARLBOROUGH PUBLIC SCHOOLS.....	129,963,138	13,169,882
1115-MASCONOMET REGIONAL SCHOOL.....	56,272,028	5,702,355
1120-MASHPEE PUBLIC SCHOOLS.....	48,499,799	4,914,752
1125-MATTAPOISETT PUBLIC SCHOOLS.....	12,387,361	1,255,280
1130-MAYNARD PUBLIC SCHOOLS.....	36,699,145	3,718,927
1135-MEDFIELD PUBLIC SCHOOLS.....	77,805,403	7,884,451
1140-MEDFORD PUBLIC SCHOOLS.....	139,772,440	14,163,913
1145-MEDWAY PUBLIC SCHOOLS.....	57,947,940	5,872,185
1150-MELROSE PUBLIC SCHOOLS.....	76,908,935	7,793,607
1155-MENDON-UPTON REGIONAL SCHOOL DISTRICT.....	52,733,403	5,343,767
1165-VALLEY COLLABORATIVE SCHOOL.....	21,737,193	2,202,750
1170-METHUEN PUBLIC SCHOOLS.....	166,973,472	16,920,344
1175-MIDDLEBOROUGH PUBLIC SCHOOLS.....	73,524,984	7,450,693
1180-MIDDLETON PUBLIC SCHOOLS.....	20,991,728	2,127,208
1185-MILFORD PUBLIC SCHOOLS.....	106,504,226	10,792,661
1190-MILLBURY PUBLIC SCHOOLS.....	42,152,312	4,271,526
1195-MILLIS PUBLIC SCHOOLS.....	35,175,704	3,564,548
1200-MILTON PUBLIC SCHOOLS.....	108,984,097	11,043,960
1205-MINUTEMAN REGIONAL VOCATIONAL SCHOOL.....	32,174,938	3,260,464
1210-MOHAWK TRAIL REGIONAL SCHOOL.....	25,149,779	2,548,566
1215-MONROE PUBLIC SCHOOLS.....	92,685	9,392
1220-MONSON PUBLIC SCHOOLS.....	23,245,042	2,355,548
1225-MONTACHUSETT REGIONAL VOCATIONAL SCHOOL.....	38,823,286	3,934,178
1230-MOUNT GREYLOCK REGIONAL SCHOOL.....	16,544,565	1,676,552
1235-NAHANT PUBLIC SCHOOLS.....	2,903,432	294,221
1240-NANTUCKET PUBLIC SCHOOLS.....	55,504,851	5,624,613
1245-NARRAGANSETT REGIONAL SCHOOL DISTRICT.....	29,860,843	3,025,964
1250-NASHOBA REGIONAL SCHOOL DISTRICT.....	94,540,768	9,580,338
1255-NASHOBA VALLEY TECH.....	23,022,554	2,333,003
1260-NATICK PUBLIC SCHOOLS.....	133,510,676	13,529,374
1265-NAUSET REGIONAL SCHOOL.....	51,144,643	5,182,769
1275-NEEDHAM PUBLIC SCHOOLS.....	163,330,397	16,551,171
1285-NEW BEDFORD PUBLIC SCHOOLS.....	283,861,251	28,765,228
1295-NEW SALEM-WENDELL REGIONAL SCHOOL.....	5,114,832	518,314
1305-NEWBURYPORT PUBLIC SCHOOLS.....	63,356,687	6,420,283
1310-NEWTON PUBLIC SCHOOLS.....	395,023,946	40,029,957
1315-NORFOLK PUBLIC SCHOOLS.....	26,108,227	2,645,691
1320-NORFOLK COUNTY AGRICULTURAL SCHOOL.....	18,014,554	1,825,514
1325-NORTH ADAMS PUBLIC SCHOOLS.....	34,696,381	3,515,976
1330-NORTH ANDOVER PUBLIC SCHOOLS.....	101,645,855	10,300,336

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
 SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
1335-NORTH ATTLEBORO PUBLIC SCHOOLS.....	92,872,289	9,411,262
1340-NORTH BROOKFIELD PUBLIC SCHOOLS.....	12,613,041	1,278,149
1345-NORTH MIDDLESEX REGIONAL SCHOOL.....	75,067,910	7,607,046
1350-NORTH READING PUBLIC SCHOOLS.....	68,737,407	6,965,541
1355-NORTH RIVER COLLABORATIVE SCHOOL.....	13,485,406	1,366,551
1365-NORTHAMPTON PUBLIC SCHOOLS.....	79,632,892	8,069,641
1370-NORTHBOROUGH PUBLIC SCHOOLS.....	51,131,147	5,181,401
1375-NORTHBORO-SOUTHBORO REGIONAL SCHOOL.....	43,168,276	4,374,480
1380-NORTHBRIDGE PUBLIC SCHOOLS.....	51,910,041	5,260,331
1385-NORTHEAST METRO REGIONAL VOCATIONAL SCH.....	40,453,729	4,099,400
1390-NORTHERN BERKSHIRE REGIONAL VOC. SCH.....	16,167,549	1,638,347
1400-NORTON PUBLIC SCHOOLS.....	62,917,807	6,375,809
1405-NORWELL PUBLIC SCHOOLS.....	62,422,350	6,325,601
1410-NORWOOD PUBLIC SCHOOLS.....	93,693,283	9,494,458
1415-OAK BLUFFS PUBLIC SCHOOLS.....	14,459,320	1,465,243
1425-OLD COLONY VOCATIONAL SCHOOL.....	17,962,330	1,820,222
1430-OLD ROCHESTER REGIONAL SCHOOL.....	30,796,633	3,120,793
1435-ORANGE PUBLIC SCHOOLS.....	12,380,879	1,254,623
1440-ORLEANS PUBLIC SCHOOLS.....	7,584,925	768,622
1445-FARMINGTON RIVER PUBLIC SCHOOLS.....	3,515,564	356,252
1450-OXFORD PUBLIC SCHOOLS.....	36,701,184	3,719,134
1455-PALMER PUBLIC SCHOOLS.....	33,571,979	3,402,034
1460-PATHFINDER REGIONAL VOC.....	24,327,915	2,465,282
1470-PEABODY PUBLIC SCHOOLS.....	137,948,264	13,979,059
1475-PELHAM PUBLIC SCHOOLS.....	3,444,122	349,012
1480-PEMBROKE PUBLIC SCHOOLS.....	71,622,144	7,257,867
1485-PENTUCKET REGIONAL SCHOOL.....	60,881,300	6,169,438
1490-PETERSHAM CENTER SCHOOL.....	2,227,456	225,720
1495-PILGRIM AREA COLLABORATIVE.....	10,693,928	1,083,675
1500-PIONEER VALLEY REGIONAL.....	21,487,956	2,177,493
1505-PITTSFIELD PUBLIC SCHOOLS.....	134,722,858	13,652,211
1515-PLAINVILLE PUBLIC SCHOOLS.....	18,027,732	1,826,850
1520-PLYMOUTH PUBLIC SCHOOLS.....	201,924,187	20,462,093
1530-PLYMPTON PUBLIC SCHOOLS.....	5,449,900	552,268
1540-ACCEPT EDUCATIONAL COLLABORATIVE.....	7,425,462	752,463
1550-PROVINCETOWN PUBLIC SCHOOLS.....	6,512,612	659,959
1556-QUABBIN REGIONAL SCHOOL.....	48,993,339	4,964,765
1560-QUABOAG REGIONAL SCHOOL DISTRICT.....	29,819,347	3,021,759
1565-QUINCY PUBLIC SCHOOLS.....	244,631,836	24,789,894
1566-QUINCY COLLEGE.....	16,639,325	1,686,155
1570-RALPH C. MAHAR REG. SCHOOL.....	17,965,567	1,820,550

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
As of and for the fiscal year ended June 30, 2018
(Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
1575-RANDOLPH PUBLIC SCHOOLS.....	86,117,534	8,726,765
1585-READING PUBLIC SCHOOLS.....	100,371,336	10,171,182
1590-READS COLLABORATIVE.....	12,897,729	1,306,998
1605-REVERE PUBLIC SCHOOLS.....	182,313,296	18,474,813
1610-RICHMOND PUBLIC SCHOOLS.....	5,320,797	539,186
1615-ROCHESTER PUBLIC SCHOOLS.....	12,663,080	1,283,220
1620-ROCKLAND PUBLIC SCHOOLS.....	54,781,349	5,551,297
1625-ROCKPORT PUBLIC SCHOOLS.....	28,805,512	2,919,021
1630-ROWE PUBLIC SCHOOLS.....	2,406,044	243,818
1645-SALEM PUBLIC SCHOOLS.....	135,976,121	13,779,211
1660-SANDWICH PUBLIC SCHOOLS.....	67,744,502	6,864,924
1665-SAUGUS PUBLIC SCHOOLS.....	63,929,649	6,478,344
1670-SAVOY PUBLIC SCHOOLS.....	1,258,072	127,487
1675-SCITUATE PUBLIC SCHOOLS.....	90,431,128	9,163,885
1680-SEEKONK PUBLIC SCHOOLS.....	54,556,796	5,528,541
1685-SEEM COLLABORATIVE.....	27,011,576	2,737,232
1690-SHARON PUBLIC SCHOOLS.....	101,966,040	10,332,782
1695-SHAWSHEEN VALLEY VOC.....	48,453,386	4,910,049
1700-SHERBORN PUBLIC SCHOOLS.....	12,824,461	1,299,573
1710-SHORE COLLABORATIVE.....	14,899,536	1,509,852
1715-SHREWSBURY PUBLIC SCHOOLS.....	140,934,124	14,281,633
1720-SHUTESBURY PUBLIC SCHOOLS.....	3,670,838	371,986
1725-SILVER LAKE REGIONAL SCHOOL DIST.....	48,410,645	4,905,718
1730-SOMERSET PUBLIC SCHOOLS.....	38,476,545	3,899,041
1735-SOMERVILLE PUBLIC SCHOOLS.....	158,358,537	16,047,345
1745-SOUTH HADLEY PUBLIC SCHOOLS.....	43,217,003	4,379,417
1750-SOUTH MIDDLESEX REGIONAL VOC.....	28,851,420	2,923,674
1755-SOUTH SHORE REGIONAL SCHOOL DIST.....	21,067,496	2,134,886
1760-SOUTH SHORE EDUCATIONAL COLLABORATIVE.....	31,145,905	3,156,186
1765-SOUTHERN WORCESTER COUNTY REGIONAL SCH.....	36,492,078	3,697,944
1770-SOUTHAMPTON PUBLIC SCHOOLS.....	10,502,711	1,064,298
1775-SOUTHBOROUGH PUBLIC SCHOOLS.....	42,733,688	4,330,440
1780-SOUTHBRIDGE PUBLIC SCHOOLS.....	54,796,801	5,552,862
1785-SOUTHEASTERN REGIONAL VOC. SCHOOL DIST.....	40,450,746	4,099,097
1790-SOUTHEASTERN MASS. COLLAB.....	4,923,807	498,957
1795-SOUTHERN BERKSHIRE REGIONAL.....	21,366,590	2,165,195
1800-SOUTHERN WORCESTER CO. ED. COLLAB.....	8,875,715	899,425
1805-SOUTHWICK-TOLLAND REGIONAL.....	38,759,034	3,927,667
1810-NORTH SHORE EDUCATION CONSORTIUM.....	29,389,617	2,978,212
1820-SPENCER-EAST BROOKFIELD PUBLIC SCHOOLS.....	32,419,178	3,285,214
1825-SPRINGFIELD PUBLIC SCHOOLS.....	581,660,954	58,942,915

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
As of and for the fiscal year ended June 30, 2018
(Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
1835-STONEHAM PUBLIC SCHOOLS.....	60,912,021	6,172,551
1840-STOUGHTON PUBLIC SCHOOLS.....	89,325,878	9,051,884
1850-STURBRIDGE PUBLIC SCHOOL.....	22,654,323	2,295,688
1855-SUDBURY PUBLIC SCHOOLS.....	79,866,091	8,093,272
1860-SUNDERLAND PUBLIC SCHOOLS.....	5,622,564	569,765
1865-SUTTON PUBLIC SCHOOLS.....	32,345,458	3,277,744
1870-SWAMPSCOTT PUBLIC SCHOOLS.....	62,522,692	6,335,770
1875-SWANSEA PUBLIC SCHOOLS.....	47,936,526	4,857,673
1880-TANTASQUA REGIONAL HIGH SCHOOL.....	45,911,310	4,652,446
1885-TAUNTON PUBLIC SCHOOLS.....	175,726,783	17,807,365
1890-TECH. COLLAB. THE ED. COOPERATIVE.....	10,036,102	1,017,014
1895-TEWKSBURY PUBLIC SCHOOLS.....	85,614,939	8,675,834
1900-TISBURY PUBLIC SCHOOLS.....	11,928,186	1,208,749
1905-TOPSFIELD PUBLIC SCHOOLS.....	18,211,552	1,845,477
1910-TRI-COUNTY REGIONAL VOC.....	35,147,431	3,561,683
1915-TRITON PUBLIC SCHOOLS.....	66,449,110	6,733,655
1920-TRURO PUBLIC SCHOOLS.....	5,681,912	575,780
1925-TYNGSBOROUGH PUBLIC SCHOOLS.....	45,145,977	4,574,891
1935-UPPER CAPE COD VOC. SCHOOL.....	23,757,190	2,407,447
1936-UP ISLAND REGIONAL SCHOOL.....	13,142,387	1,331,791
1940-UXBRIDGE PUBLIC SCHOOLS.....	41,972,470	4,253,302
1950-WACHUSETT REGIONAL SCHOOL DIST.....	149,888,653	15,189,045
1955-WAKEFIELD PUBLIC SCHOOLS.....	89,216,961	9,040,847
1960-WALES PUBLIC SCHOOLS.....	3,366,967	341,193
1965-WALPOLE PUBLIC SCHOOLS.....	105,083,375	10,648,678
1970-WALTHAM PUBLIC SCHOOLS.....	195,469,540	19,808,007
1975-WARE PUBLIC SCHOOLS.....	24,625,293	2,495,417
1980-WAREHAM PUBLIC SCHOOLS.....	59,498,851	6,029,347
2000-WATERTOWN PUBLIC SCHOOLS.....	93,210,914	9,445,576
2005-WAYLAND PUBLIC SCHOOLS.....	89,308,714	9,050,145
2010-WEBSTER PUBLIC SCHOOLS.....	42,387,957	4,295,406
2015-WELLESLEY PUBLIC SCHOOLS.....	175,120,312	17,745,908
2020-WELLFLEET PUBLIC SCHOOLS.....	5,012,790	507,974
2025-WEST BOYLSTON PUBLIC SCHOOLS.....	25,889,588	2,623,535
2030-WEST BRIDGEWATER PUBLIC SCHOOLS.....	29,695,802	3,009,240
2045-WEST SPRINGFIELD PUBLIC SCHOOLS.....	85,668,121	8,681,224
2055-WESTBOROUGH PUBLIC SCHOOLS.....	109,410,088	11,087,128
2060-WESTFIELD PUBLIC SCHOOLS.....	127,096,171	12,879,357
2065-WESTFORD PUBLIC SCHOOLS.....	131,431,351	13,318,664
2070-WESTHAMPTON PUBLIC SCHOOLS.....	3,356,026	340,085
2080-WESTON PUBLIC SCHOOLS.....	82,515,418	8,361,743

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
 SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
2085-WESTPORT PUBLIC SCHOOLS.....	36,570,057	3,705,846
2090-WESTWOOD PUBLIC SCHOOLS.....	98,045,795	9,935,522
2095-WEYMOUTH PUBLIC SCHOOLS.....	150,911,463	15,292,692
2100-WHATELY PUBLIC SCHOOLS.....	3,634,460	368,300
2110-WHITMAN-HANSON REGIONAL.....	84,649,118	8,577,962
2120-WILLIAMSBURG PUBLIC SCHOOLS.....	4,712,239	477,517
2125-WILLIAMSTOWN PUBLIC SCHOOLS.....	11,806,168	1,196,384
2130-WILMINGTON PUBLIC SCHOOLS.....	90,045,017	9,124,759
2135-WINCENDON PUBLIC SCHOOLS.....	29,172,553	2,956,216
2140-WINCHESTER PUBLIC SCHOOLS.....	122,941,324	12,458,323
2145-WINTHROP PUBLIC SCHOOLS.....	44,608,468	4,520,422
2150-WHITTIER VOC. SCHOOL DIST.....	40,779,201	4,132,382
2155-WOBURN PUBLIC SCHOOLS.....	128,451,311	13,016,680
2160-WORCESTER PUBLIC SCHOOLS.....	626,837,968	63,520,952
2162-MASS ACADEMY OF MATH AND SCIENCE.....	1,941,875	196,781
2164-WORTHINGTON PUBLIC SCHOOLS.....	1,479,674	149,943
2165-WRENTHAM PUBLIC SCHOOLS.....	25,561,885	2,590,327
2200-AYER SHIRLEY REGIONAL.....	36,785,697	3,727,698
2205-SOMERSET-BERKLEY REGIONAL.....	24,492,327	2,481,943
2210-MONOMOY REGIONAL SCHOOL DISTRICT.....	57,360,749	5,812,681
2215-ESSEX NORTH SHORE AGRICULTURAL & TECHNICAL.....	40,234,879	4,077,222
3000-MASS VIRTUAL ACADEMY AT GREENFIELD.....	7,259,544	735,650
3005-TECCA VIRTUAL SCHOOL.....	12,098,818	1,226,040
4005-COMMUNITY DAY CHARTER SCHOOL.....	11,751,681	1,190,863
4010-CITY ON A HILL CHARTER SCHOOL.....	10,545,704	1,068,654
4015-ATLANTIS CHARTER SCHOOL.....	20,981,968	2,126,219
4020-CAPE COD LIGHTHOUSE CHARTER SCHOOL.....	7,148,495	724,396
4025-HILLTOWN COOPERATIVE CHARTER SCHOOL.....	5,159,193	522,810
4030-BENJAMIN FRANKLIN CLASSICAL CHARTER SCH.....	9,262,700	938,641
4035-SOUTH SHORE CHARTER SCHOOL.....	21,610,931	2,189,955
4040-LOWELL MIDDLESEX ACADEMY CHARTER SCH.....	2,715,038	275,130
4055-BOSTON RENAISSANCE CHARTER SCHOOL.....	24,842,511	2,517,429
4060-MARBLEHEAD COMMUNITY CHARTER SCHOOL.....	5,382,282	545,416
4065-FRANCIS W. PARKER CHARTER SCHOOL.....	9,213,706	933,676
4070-NEIGHBORHOOD HOUSE CHARTER SCHOOL.....	13,824,467	1,400,910
4075-ACADEMY OF THE PACIFIC RIM CHARTER SCH.....	14,006,857	1,419,392
4080-BENJAMIN BANNEKER CHARTER SCHOOL.....	8,853,337	897,158
4090-LAWRENCE FAMILY DEVELOPMENT CHARTER SCH.....	14,486,033	1,467,950
4095-MARTHA'S VINEYARD CHARTER SCHOOL.....	6,260,553	634,416
4105-SABIS INTERNATIONAL CHARTER SCHOOL.....	23,699,041	2,401,555
4115-PIONEER VALLEY PERFORMING ARTS CHARTER.....	10,368,216	1,050,669

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
 SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
4120-PROSPECT HILL ACADEMY CHARTER SCHOOL.....	35,457,026	3,593,056
4125-SEVEN HILLS CHARTER SCHOOL.....	12,287,648	1,245,175
4140-ABBY KELLEY FOSTER REGIONAL CHARTER.....	28,845,434	2,923,067
4145-MYSTIC VALLEY REGIONAL CHARTER SCHOOL.....	24,778,439	2,510,936
4150-FOXBORO REGIONAL CHARTER SCHOOL.....	24,172,933	2,449,577
4165-RISING TIDE CHARTER.....	14,984,696	1,518,482
4170-BOSTON COLLEGIATE CHARTER SCHOOL.....	20,910,868	2,119,014
4175-STURGIS CHARTER SCHOOL.....	25,647,751	2,599,028
4180-RIVER VALLEY CHARTER SCHOOL.....	5,415,527	548,785
4200-CONSERVATORY LAB CHARTER SCHOOL.....	9,873,365	1,000,523
4205-ROXBURY PREPARATORY CHARTER.....	35,372,751	3,584,516
4210-MEDIA & TECH CHARTER HIGH SCH.....	33,880,195	3,433,267
4225-CODMAN ACADEMY CHARTER SCHOOL.....	10,830,741	1,097,539
4235-CHRISTA MCAULIFFE REG. CHARTER P.S.....	10,202,790	1,033,905
4240-NORTH CENTRAL CHARTER ESSENTIAL SCHOOL.....	9,068,415	918,953
4245-INNOVATION ACADEMY CHARTER SCHOOL.....	18,388,692	1,863,428
4250-EDWARD BROOKE CHARTER SCHOOL.....	48,761,903	4,941,313
4260-FOUR RIVER CHARTER PUBLIC SCHOOL.....	5,554,011	562,819
4265-BOSTON PREPARATORY CHARTER SCHOOL.....	14,444,179	1,463,708
4270-EXCEL ACADEMY CHARTER SCHOOL.....	31,612,340	3,203,453
4275-SALEM ACADEMY CHARTER SCHOOL.....	12,473,772	1,264,036
4285-BERKSHIRE ARTS AND TECHNOLOGY CHARTER.....	8,283,494	839,412
4290-HELEN Y. DAVIS LEADERSHIP ACADEMY CHARTER PUBLIC.....	5,568,371	564,274
4295-HILLVIEW MONTESSORI CHARTER SCHOOL.....	4,709,762	477,266
4300-KIPP ACADEMY LYNN CHARTER SCHOOL.....	34,541,917	3,500,323
4305-ADVANCED MATH & SCIENCE ACADEMY CHARTER SCHOOL.....	20,477,438	2,075,092
4310-COMMUNITY CHARTER SCHOOL OF CAMBRIDGE.....	11,123,276	1,127,183
4315-HOLYOKE COMMUNITY CHARTER SCHOOL.....	11,770,433	1,192,763
4320-MARTIN LUTHER KING JR. CHARTER SCHOOL.....	9,247,530	937,103
4325-PHOENIX CHARTER ACADEMY.....	4,023,056	407,679
4330-PIONEER VALLEY CHINESE IMMERSION CHARTER.....	14,454,080	1,464,712
4420-LOWELL COMMUNITY CHARTER SCHOOL.....	16,493,336	1,671,361
4425-PIONEER CHARTER SCHOOL OF SCIENCE.....	14,889,486	1,508,834
4430-GLOBAL LEARNING CHARTER PUBLIC SCHOOL.....	9,857,943	998,960
4440-HAMPDEN CHARTER SCHOOL OF SCIENCE - EAST.....	9,038,064	915,877
4510-ALMA DEL MAR CHARTER SCHOOL.....	7,666,329	776,871
4515-BRIDGE BOSTON CHARTER SCHOOL.....	7,396,481	749,526
4550-VERITAS PREPARATORY CHARTER SCHOOL.....	9,181,974	930,460
4565-CDCPS-GATEWAY.....	7,463,703	756,338
4570-CDCPS-R KINGMAN WEBSTER.....	7,070,311	716,474
4575-KIPP ACADEMY BOSTON CHARTER SCHOOL.....	13,937,671	1,412,381

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM
 SUPPLEMENTAL SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER
 As of and for the fiscal year ended June 30, 2018
 (Unaudited)

Employer	Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District	Employer Pension Expense and Revenue from Commonwealth Support
4580-PAULO FREIRE SOCIAL JUSTICE CHARTER SCHOOL.....	6,530,806	661,803
4585-CITY ON A HILL CHARTER 2.....	6,355,766	644,065
4590-CITY ON A HILL CHARTER - NEW BEDFORD.....	4,611,675	467,326
4595-PIONEER CHARTER SCHOOL OF SCIENCE II.....	7,325,468	742,330
4600-THE LOWELL COLLEGIATE CHARTER SCHOOL.....	7,734,495	783,779
4605-BAY STATE ACADEMY CHARTER PUBLIC SCHOOL.....	9,024,401	914,492
4610-PHOENIX CHARTER ACADEMY SPRINGFIELD.....	3,134,561	317,642
4615-ARGOSY COLLEGIATE CHARTER SCHOOL.....	7,964,496	807,086
4620-SPRINGFIELD PREPARATORY CHARTER SCHOOL.....	4,375,597	443,403
4625-NEW HEIGHTS CHARTER OF BROCKTON.....	8,796,032	891,350
4630-LIBERTAS ACADEMY CHARTER SCHOOL.....	2,431,146	246,361
4635-OLD STURBRIDGE ACADEMY CHARTER PS.....	1,942,813	196,876
4640-MAP ACADEMY CHARTER SCHOOL.....	844,074	85,535
4645-HAMPDEN CHARTER SCHOOL OF SCIENCE - WEST.....	18,288	1,853
Totals.....	<u>\$ 23,711,289,000</u>	<u>\$ 2,402,795,806</u>

See accompanying notes to supplemental schedules.

MASSACHUSETTS TEACHERS' RETIREMENT SYSTEM

Notes to Supplemental Schedules

June 30, 2018

(Unaudited)

NOTE 1 - SCHEDULE OF EMPLOYER ALLOCATIONS OF SPECIAL FUNDING AMOUNTS

The Supplemental Schedule of Employer Allocations of Special Funding Amounts shows the total Commonwealth support provided to the employers for the year ending June 30, 2018. The total of Commonwealth provided contributions has been allocated based on the ratio of each employer's covered payroll to the total covered payroll (approximately \$7,022,866,000) of employers in MTRS as of the measurement date of June 30, 2018. The Supplemental Schedule of Employer Allocations of Special Funding Amounts is included to provide employers with their calculated proportionate share that will be used to recognize pension expense and revenue and to disclose the proportionate share of the collective net pension liability.

NOTE 2 - COMPONENTS ON SCHEDULE OF SPECIAL FUNDING AMOUNTS BY EMPLOYER

Commonwealth's Proportionate Share of the Net Pension Liability Associated with the District

The Commonwealth's proportionate share of the net pension liability associated with each employer is equal to the collective net pension liability multiplied by the employer's proportionate share percentage for the fiscal year ending June 30, 2018, as shown in the Supplemental Schedule of Employer Allocations of Special Funding Amounts.

Employer Pension Expense and Revenue from Commonwealth Support

Employers in a special funding situation are required to recognize pension expense and revenue for the support provided by the nonemployer contributing entity (the Commonwealth). All employers in MTRS are special funding situations with employer contributions paid by the Commonwealth. The amount reported in the Employer Pension Expense and Revenue from Commonwealth Support Column are calculated for each participating employer by multiplying the collective pension expense by the allocation percentage as shown in the Supplemental Schedule of Employer Allocations of Special Funding Amounts.