



NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations and Schedule of
Pension Amounts by Employer

June 30, 2018

(With Independent Auditors' Report Thereon)

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

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Pension Amounts by Employer

June 30, 2018

Table of Contents

	Page
Independent Auditors' Report	1
Schedule of Employer Allocations	3
Schedule of Pension Amounts by Employer	23
Notes to Schedule of Employer Allocations and Schedule of Pension Amounts by Employer	42



KPMG LLP
515 Broadway
Albany, NY 12207-2974

Independent Auditors' Report

The Retirement Board
New York State Teachers' Retirement System:

We have audited the accompanying schedule of employer allocations of the New York State Teachers' Retirement System (the System) as of and for the fiscal year ended June 30, 2018, and the related notes. We have also audited the total for all districts of the columns titled net pension liability (asset), total deferred outflows of resources, total deferred inflows of resources, and total pension expense included in the accompanying schedule of pension amounts by employer of the System as of and for the fiscal year ended June 30, 2018 (collectively the specified column totals), 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 employer allocations and the specified column totals included in the schedule of pension amounts by employer 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 employer allocations and specified column totals included in the schedule of pension amounts by employer are free from material misstatement.

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

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 employer allocations and net pension asset, total deferred outflows of resources, total deferred inflows of resources, and total pension expense for the total of all participating districts for the New York State Teachers' Retirement System as of and for the fiscal year ended June 30, 2018, in accordance with U.S. generally accepted accounting principles.

Other Matter

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the New York State Teachers' Retirement System as of and for the fiscal year ended June 30, 2018, and our report thereon dated November 1, 2018, expressed an unmodified opinion on those financial statements.

Restriction on Use

Our report is intended solely for the information and use of the New York State Teachers' Retirement System management, the Retirement Board of the New York State Teachers' Retirement System, New York State Teachers' Retirement System employers and their auditors and is not intended to be and should not be used by anyone other than these specified parties.

KPMG LLP

Albany, New York
December 7, 2018

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
All districts	\$ 1,596,310,607	100.000000 %
1005	8,692,217	0.544519
1010	2,396,499	0.150127
1015	2,714,889	0.170073
1020	1,664,710	0.104285
1025	2,599,174	0.162824
1030	4,121,801	0.258208
1035	29,085,441	1.822041
1040	2,513,642	0.157466
1045	1,460,880	0.091516
1050	3,666,178	0.229666
1055	1,750,776	0.109676
1060	1,761,333	0.110338
1065	3,425,115	0.214564
1070	2,536,054	0.158870
1075	1,741,359	0.109086
1080	3,373,854	0.211353
1085	1,554,368	0.097373
1090	1,898,949	0.118959
1095	983,938	0.061638
1100	1,598,807	0.100156
1105	3,994,249	0.250218
1110	3,198,086	0.200342
1115	1,056,296	0.066171
1120	6,257,022	0.391968
1125	1,524,140	0.095479
1130	689,506	0.043194
1135	3,485,253	0.218332
1140	5,424,899	0.339840
1145	818,023	0.051245
1150	6,091,987	0.381629
1155	9,971,391	0.624652
1160	11,179,356	0.700325
1165	10,969,680	0.687190
1170	4,951,058	0.310156
1175	2,548,661	0.159659
1180	1,370,302	0.085842
1185	1,212,178	0.075936
1190	1,400,583	0.087739
1195	1,469,044	0.092027
1200	1,418,116	0.088837

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
1205	\$ 2,748,088	0.172152 %
1210	3,366,144	0.210870
1215	1,686,858	0.105672
1220	2,344,330	0.146859
1225	3,662,213	0.229417
1230	784,327	0.049134
1235	27,173,940	1.702297
1240	3,946,409	0.247221
1245	3,645,410	0.228365
1250	1,111,835	0.069650
1255	4,247,853	0.266104
1260	7,439,635	0.466052
1265	1,348,856	0.084498
1270	18,028,006	1.129355
1275	1,265,486	0.079276
1280	3,352,335	0.210005
1285	6,046,797	0.378798
1290	2,339,211	0.146539
1295	925,459	0.057975
1300	8,902,790	0.557710
1305	24,283,232	1.521210
2005	1,270,027	0.079560
2006	1,199,175	0.075122
2007	3,147,784	0.197191
2008	2,925,664	0.183277
2009	2,285,042	0.143145
2010	7,433,181	0.465648
2014	950,582	0.059549
2015	2,136,347	0.133830
2016	819,866	0.051360
2018	1,988,634	0.124577
2020	5,312,694	0.332811
2025	4,037,909	0.252953
2030	3,444,348	0.215769
2035	1,139,577	0.071388
2040	6,597,341	0.413287
2044	1,585,868	0.099346
2045	3,849,755	0.241166
2046	3,165,580	0.198306
2047	15,813,206	0.990610
2048	3,654,881	0.228958

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
2050	\$ 2,785,139	0.174474 %
2052	2,463,374	0.154317
2055	2,087,449	0.130767
2056	2,610,367	0.163525
2057	3,351,186	0.209933
2058	2,113,791	0.132417
2059	3,485,983	0.218378
2060	945,807	0.059250
2061	991,781	0.062130
2062	1,530,092	0.095852
2063	809,899	0.050736
2064	2,482,916	0.155541
2065	2,077,077	0.130117
2066	5,309,641	0.332620
2067	8,064,516	0.505197
2068	7,032,142	0.440525
2069	979,797	0.061379
2070	1,323,450	0.082907
2071	1,083,552	0.067878
2072	1,252,446	0.078459
2073	2,567,728	0.160854
2074	2,685,792	0.168250
2075	4,959,357	0.310676
2076	3,076,086	0.192700
2077	877,391	0.054964
2078	8,033,921	0.503281
2079	4,606,381	0.288564
2080	1,021,795	0.064010
2081	1,292,754	0.080984
2082	714,489	0.044759
2083	1,747,688	0.109483
2084	2,821,548	0.176754
2085	1,397,678	0.087557
2086	4,828,630	0.302487
2090	2,092,667	0.131094
2095	2,074,993	0.129987
2104	1,125,809	0.070526
2105	1,040,726	0.065196
2110	3,242,332	0.203114
2112	2,195,680	0.137547
2115	4,411,327	0.276345

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
2120	\$ 8,356,157	0.523467 %
2125	845,996	0.052997
2130	1,531,006	0.095909
2135	2,995,695	0.187664
2140	2,612,847	0.163680
2145	3,720,588	0.233074
2146	3,738,580	0.234201
2147	952,179	0.059649
2148	2,375,667	0.148822
2149	1,591,529	0.099700
2150	635,472	0.039809
2155	2,436,377	0.152626
2160	4,313,718	0.270230
2165	1,440,082	0.090213
2170	6,331,397	0.396627
2175	596,731	0.037382
2180	1,231,985	0.077177
2185	6,855,161	0.429438
2187	3,259,464	0.204187
2190	4,357,238	0.272957
2191	3,119,676	0.195430
2195	940,593	0.058923
2196	1,063,809	0.066642
2198	2,269,444	0.142168
2200	9,553,626	0.598482
2204	8,439,245	0.528672
2205	243,547	0.015257
2206	1,295,523	0.081157
2207	2,317,195	0.145159
2208	4,056,060	0.254090
2209	9,299,590	0.582568
2210	2,609,926	0.163497
2212	3,325,640	0.208333
2215	4,961,240	0.310794
2220	2,066,226	0.129438
2224	4,382,325	0.274528
2225	7,769,585	0.486721
2230	6,443,207	0.403631
2231	3,135,763	0.196438
2235	682,602	0.042761
2239	2,926,132	0.183306

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
2240	\$ 5,486,484	0.343698 %
2241	862,394	0.054024
2242	1,483,665	0.092943
2243	1,533,106	0.096041
2244	881,054	0.055193
2245	2,448,963	0.153414
2250	1,431,289	0.089662
2255	4,572,058	0.286414
2260	3,138,799	0.196628
2266	2,605,522	0.163222
2268	1,414,700	0.088623
2270	2,512,564	0.157398
2271	1,690,863	0.105923
2272	2,612,318	0.163647
2275	4,897,009	0.306770
2280	1,602,238	0.100371
2281	989,982	0.062017
2282	4,279,226	0.268070
2285	6,147,654	0.385116
2286	3,367,297	0.210942
2288	1,972,976	0.123596
2289	6,224,275	0.389916
2290	3,540,618	0.221800
2295	1,635,047	0.102427
2300	3,452,060	0.216252
2305	838,204	0.052509
2310	9,282,646	0.581506
2315	1,591,604	0.099705
2317	1,481,396	0.092801
2320	6,183,492	0.387361
2325	5,692,541	0.356606
2328	1,261,150	0.079004
2330	3,213,201	0.201289
2335	3,688,074	0.231037
2338	5,076,847	0.318036
2339	1,506,753	0.094390
2340	1,701,044	0.106561
2345	2,169,210	0.135889
2350	5,813,815	0.364203
2355	4,108,623	0.257382
2360	3,026,713	0.189607

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
2361	\$ 1,301,586	0.081537 %
2362	1,521,584	0.095319
2363	936,200	0.058648
2364	1,847,618	0.115743
2365	9,214,596	0.577243
2370	1,518,382	0.095118
2375	1,252,894	0.078487
2377	1,781,451	0.111598
2378	9,258,146	0.579971
2379	9,437,164	0.591186
2380	3,769,002	0.236107
2381	2,037,610	0.127645
2383	6,658,296	0.417105
2384	4,246,979	0.266050
2385	2,755,319	0.172605
2389	2,506,118	0.156994
2390	5,052,482	0.316510
2391	2,552,691	0.159912
2394	1,787,168	0.111956
2395	1,501,110	0.094036
2396	1,149,793	0.072028
2400	8,733,723	0.547119
2401	2,102,971	0.131739
2402	5,051,024	0.316419
2403	2,435,116	0.152547
2405	3,164,725	0.198252
2406	4,410,459	0.276291
2408	4,546,553	0.284816
2409	966,603	0.060552
2410	5,842,395	0.365994
2415	6,777,623	0.424580
2420	3,435,084	0.215189
2425	6,363,508	0.398638
2426	1,844,928	0.115574
2428	3,639,700	0.228007
2430	5,364,856	0.336078
2435	1,415,679	0.088684
2440	2,320,907	0.145392
2441	1,376,394	0.086223
2445	6,834,337	0.428133
2450	2,714,278	0.170034

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
2455	\$ 3,433,844	0.215111 %
2458	3,363,193	0.210685
2460	1,219,392	0.076388
2464	1,080,848	0.067709
2465	562,055	0.035210
2466	1,376,599	0.086236
2467	1,931,842	0.121019
2468	1,524,730	0.095516
2469	4,250,925	0.266297
2470	3,773,446	0.236385
2471	4,106,428	0.257245
2475	6,208,779	0.388946
2480	2,016,997	0.126354
2485	4,411,982	0.276386
2490	6,341,040	0.397231
2495	845,748	0.052981
2497	2,056,469	0.128826
2498	1,836,809	0.115066
2500	5,096,366	0.319259
2504	3,226,941	0.202150
2505	4,298,425	0.269273
2507	821,642	0.051471
2508	2,277,597	0.142679
2509	4,171,336	0.261311
2510	1,699,683	0.106476
2512	12,118,565	0.759161
2514	1,129,013	0.070726
2515	1,012,889	0.063452
2520	2,338,414	0.146489
2525	3,320,920	0.208037
2530	6,480,749	0.405983
2533	1,541,005	0.096535
2535	1,907,254	0.119479
2540	4,471,745	0.280130
2541	2,741,910	0.171765
2542	1,638,382	0.102636
2545	842,104	0.052753
2547	6,186,361	0.387541
2550	738,799	0.046282
2551	1,125,922	0.070533
2555	1,131,725	0.070896

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
2557	\$ 9,446,602	0.591777 %
2559	948,340	0.059408
2560	1,147,753	0.071900
2561	3,768,526	0.236077
2562	4,478,164	0.280532
2563	4,875,750	0.305439
2564	6,377,650	0.399524
2565	3,692,683	0.231326
2570	2,601,594	0.162975
2573	2,699,321	0.169098
2574	894,817	0.056055
2575	9,420,314	0.590130
2576	1,915,547	0.119998
2580	5,113,118	0.320308
2582	1,130,606	0.070826
2584	2,971,155	0.186126
2585	10,175,023	0.637409
2590	3,334,857	0.208910
2593	8,204,812	0.513986
2595	696,257	0.043617
2600	1,293,389	0.081024
2605	606,063	0.037966
2610	8,548,059	0.535488
2611	2,275,828	0.142568
2612	2,653,216	0.166209
2613	2,612,685	0.163670
2614	3,357,476	0.210327
2615	9,219,067	0.577523
2616	3,210,079	0.201094
2617	3,347,422	0.209697
2618	902,027	0.056507
2619	1,900,647	0.119065
2620	628,783	0.039390
2625	1,083,017	0.067845
2626	780,846	0.048916
2630	858,147	0.053758
2632	1,659,577	0.103963
2633	6,309,423	0.395250
2635	798,406	0.050016
2640	2,042,432	0.127947
2641	1,200,998	0.075236

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
2642	\$ 4,945,993	0.309839 %
2643	4,624,710	0.289712
2644	4,272,602	0.267655
2645	5,456,151	0.341798
2648	1,025,231	0.064225
2649	2,168,981	0.135875
2650	503,684	0.031553
2651	7,817,323	0.489712
2652	881,342	0.055211
2653	1,306,393	0.081838
2654	8,194,570	0.513344
2655	4,579,691	0.286892
2656	4,275,722	0.267850
3032	616,391	0.038613
3041	256,397	0.016062
3042	712,999	0.044665
3043	733,491	0.045949
3044	487,870	0.030562
3048	233,812	0.014647
3077	608,062	0.038092
3078	263,177	0.016487
3079	158,237	0.009913
3081	294,390	0.018442
3082	536,673	0.033620
3101	279,688	0.017521
3105	263,334	0.016496
3106	473,196	0.029643
3107	419,396	0.026273
3126	494,467	0.030976
3128	436,379	0.027337
3178	768,307	0.048130
3179	542,330	0.033974
3201	303,542	0.019015
3202	536,797	0.033627
3204	548,020	0.034330
3206	627,672	0.039320
3208	266,348	0.016685
3226	714,479	0.044758
3229	449,711	0.028172
3231	668,024	0.041848
3232	330,575	0.020709

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
3276	\$ 645,787	0.040455 %
3277	749,737	0.046967
3278	515,101	0.032268
3280	600,410	0.037612
3281	628,568	0.039376
3284	666,642	0.041761
3303	682,741	0.042770
3304	347,343	0.021759
3305	453,211	0.028391
3306	451,327	0.028273
3307	181,775	0.011387
3308	365,287	0.022883
3309	638,190	0.039979
3326	546,496	0.034235
3327	726,734	0.045526
3328	370,762	0.023226
3329	482,332	0.030215
3330	748,726	0.046904
3331	887,532	0.055599
3332	383,727	0.024038
3452	932,365	0.058407
3453	316,813	0.019847
3458	673,450	0.042188
3460	1,010,429	0.063298
3464	269,073	0.016856
3465	195,096	0.012222
3466	522,932	0.032759
3467	263,916	0.016533
3468	57,450	0.003599
3470	249,937	0.015657
3471	219,724	0.013764
3472	199,096	0.012472
3526	486,448	0.030473
3527	409,419	0.025648
3528	359,398	0.022514
3531	587,038	0.036775
3552	182,395	0.011426
3559	426,791	0.026736
3560	563,181	0.035280
3561	597,153	0.037408
3576	244,343	0.015307

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
3577	\$ 554,507	0.034737 %
3579	276,777	0.017339
3585	632,902	0.039648
3586	701,283	0.043931
3589	534,890	0.033508
3591	251,936	0.015782
3592	580,626	0.036373
3593	1,056,319	0.066173
3594	256,723	0.016082
3626	1,168,485	0.073199
3629	726,163	0.045490
3630	1,182,149	0.074055
3631	991,295	0.062099
3632	1,769,765	0.110866
3635	1,188,987	0.074483
3636	978,849	0.061319
3658	998,246	0.062535
3679	1,070,457	0.067058
3702	619,367	0.038800
3709	475,406	0.029782
3805	370,200	0.023191
3821	584,103	0.036591
3822	216,112	0.013538
3854	1,187,189	0.074371
3855	656,417	0.041121
3856	122,509	0.007674
3927	729,723	0.045713
3928	364,153	0.022812
3929	680,280	0.042616
3930	608,599	0.038125
3931	817,281	0.051198
3932	603,142	0.037783
3934	112,550	0.007051
3979	400,456	0.025086
3980	361,826	0.022666
3981	274,361	0.017187
3982	136,299	0.008538
3983	286,638	0.017956
3986	308,816	0.019346
3987	208,709	0.013074
3988	279,135	0.017486

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
3989	\$ 207,073	0.012972 %
3990	298,571	0.018704
3991	368,486	0.023084
3992	310,199	0.019432
3994	595,153	0.037283
3995	291,541	0.018263
3996	233,603	0.014634
3997	260,536	0.016321
3998	254,551	0.015946
3999	280,521	0.017573
4004	136,383	0.008544
4007	202,569	0.012690
4008	72,489	0.004541
4009	1,215,566	0.076148
4010	112,106	0.007023
4014	555,449	0.034796
4015	355,521	0.022271
4020	668,869	0.041901
4021	946,003	0.059262
4022	690,481	0.043255
4027	693,984	0.043474
4028	125,143	0.007840
4029	765,125	0.047931
4030	449,436	0.028155
4031	410,583	0.025721
4034	357,410	0.022390
4036	542,000	0.033953
4101	389,773	0.024417
4104	319,551	0.020018
4124	31,813	0.001993
4126	1,086,182	0.068043
4128	690,603	0.043262
4130	582,754	0.036506
4132	267,361	0.016749
4134	270,729	0.016960
4135	218,657	0.013698
4137	312,069	0.019549
4142	985,517	0.061737
4143	767,977	0.048109
4144	478,295	0.029963
4149	271,704	0.017021

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
4151	\$ 679,163	0.042546 %
4152	632,585	0.039628
4153	707,518	0.044322
4154	390,480	0.024461
4155	537,876	0.033695
4178	518,088	0.032455
4180	1,037,664	0.065004
4183	669,739	0.041955
4184	630,076	0.039471
4202	423,630	0.026538
4203	443,107	0.027758
4205	309,915	0.019414
4206	295,700	0.018524
4208	1,566,209	0.098114
4258	530,797	0.033251
4259	500,775	0.031371
4260	774,267	0.048504
4301	1,565,507	0.098070
4351	2,306,732	0.144504
4353	1,343,909	0.084188
4355	2,271,705	0.142310
4356	3,755,402	0.235255
4357	1,634,412	0.102387
4358	1,253,950	0.078553
4360	1,348,613	0.084483
4361	2,326,545	0.145745
4363	1,369,229	0.085775
4364	1,469,016	0.092026
4365	1,165,727	0.073026
4366	5,024,579	0.314762
4367	8,355,495	0.523425
4368	6,528,710	0.408987
4428	387,809	0.024294
4430	434,791	0.027237
4434	165,526	0.010369
4437	637,473	0.039934
4438	500,744	0.031369
4439	603,532	0.037808
4504	441,308	0.027645
4531	597,248	0.037414
4532	923,125	0.057829

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
4533	\$ 671,396	0.042059 %
4534	654,513	0.041002
4557	330,708	0.020717
4582	691,880	0.043342
4583	552,104	0.034586
4586	597,761	0.037446
4588	499,841	0.031312
4590	559,770	0.035066
4592	332,999	0.020861
4593	647,747	0.040578
4594	662,139	0.041479
4595	699,729	0.043834
4596	543,784	0.034065
4597	823,447	0.051584
4598	751,048	0.047049
4604	971,640	0.060868
4617	391,139	0.024503
4620	680,037	0.042601
4651	765,900	0.047979
4653	2,616,628	0.163917
4654	3,090,911	0.193628
4662	582,276	0.036476
4663	783,918	0.049108
4679	632,170	0.039602
4680	482,246	0.030210
4701	924,716	0.057928
4703	725,995	0.045480
4704	733,067	0.045923
4705	988,542	0.061927
4854	942,984	0.059073
4855	292,829	0.018344
4857	1,933,616	0.121130
4862	1,687,576	0.105717
4863	2,078,774	0.130224
4877	861,895	0.053993
4879	634,025	0.039718
4883	22,509	0.001410
4884	274,214	0.017178
4885	731,584	0.045830
4890	1,129,103	0.070732
4892	1,042,583	0.065312

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
4894	\$ 1,052,290	0.065920 %
4901	656,422	0.041121
4905	285,765	0.017902
4906	957,931	0.060009
4907	1,513,657	0.094822
4908	416,428	0.026087
4909	1,086,703	0.068076
4910	491,785	0.030808
4976	250,129	0.015669
4978	282,829	0.017718
4979	397,646	0.024910
4980	204,384	0.012804
4981	263,167	0.016486
4982	366,185	0.022939
4983	300,834	0.018846
5001	540,641	0.033868
5002	354,810	0.022227
5003	443,589	0.027788
5026	314,674	0.019713
5027	625,438	0.039180
5028	298,862	0.018722
5076	822,024	0.051495
5078	654,521	0.041002
5102	2,065,084	0.129366
5103	1,092,859	0.068462
5107	753,367	0.047194
5108	669,222	0.041923
5251	506,552	0.031733
5253	687,141	0.043046
5276	877,805	0.054990
5281	307,108	0.019239
5282	330,715	0.020717
5301	368,103	0.023060
5303	213,568	0.013379
5305	263,016	0.016476
5306	441,656	0.027667
5307	571,123	0.035778
5308	432,777	0.027111
5309	189,668	0.011882
5351	2,631,528	0.164851
5352	27,180	0.001703

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
5353	\$ 285,327	0.017874 %
5354	883,657	0.055356
5355	1,640,075	0.102742
5356	558,673	0.034998
5357	2,316,628	0.145124
5358	4,970,944	0.311402
5359	440,648	0.027604
5360	315,868	0.019787
5361	2,333,265	0.146166
5362	258,868	0.016217
5363	2,051,238	0.128499
5364	547,345	0.034288
5365	21,456	0.001344
5367	552,940	0.034639
5368	439,559	0.027536
5369	136,077	0.008524
5371	168,412	0.010550
5372	1,138,098	0.071296
5375	1,622,511	0.101641
5376	693,915	0.043470
5379	38,774	0.002429
5380	316,941	0.019855
5403	3,730,892	0.233720
5406	1,544,773	0.096771
5407	2,461,817	0.154219
5408	2,617,507	0.163972
5409	3,058,118	0.191574
5415	1,701,883	0.106614
5416	631,421	0.039555
5418	3,188,100	0.199717
5420	2,956,596	0.185214
5427	148,552	0.009306
5457	2,463,553	0.154328
5458	2,553,394	0.159956
5501	995,692	0.062375
5504	933,799	0.058497
5505	265,652	0.016642
5506	450,213	0.028203
5507	495,307	0.031028
5527	565,461	0.035423
5528	631,251	0.039544

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
5530	\$ 832,501	0.052152 %
5533	317,189	0.019870
5534	539,025	0.033767
5535	958,500	0.060045
5541	520,084	0.032580
5601	1,462,724	0.091632
5676	391,952	0.024554
5677	342,339	0.021446
5678	406,090	0.025439
5679	797,764	0.049975
5680	728,958	0.045665
5681	359,856	0.022543
5682	436,774	0.027361
5683	675,148	0.042294
5684	281,010	0.017604
5685	460,953	0.028876
5687	827,091	0.051813
5688	288,840	0.018094
5691	123,343	0.007727
5692	661,647	0.041449
5693	197,991	0.012403
5694	166,537	0.010433
5695	179,150	0.011223
5801	2,336,077	0.146342
5806	1,356,856	0.085000
5807	461,282	0.028897
5812	539,058	0.033769
5813	653,430	0.040934
5817	1,934,348	0.121176
5820	549,704	0.034436
5821	943,647	0.059114
5822	1,157,032	0.072482
5823	261,626	0.016389
6001	2,548,175	0.159629
6005	1,934,569	0.121190
6008	1,934,366	0.121177
6011	921,138	0.057704
6018	965,896	0.060508
6022	937,792	0.058747
6026	1,810,516	0.113419
6027	2,667,039	0.167075

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
6028	\$ 2,234,357	0.139970 %
6036	451,113	0.028260
6040	639,751	0.040077
6041	977,361	0.061226
6042	888,781	0.055677
6044	1,362,772	0.085370
6048	1,151,849	0.072157
6050	1,387,707	0.086932
6051	3,077,690	0.192800
6052	2,112,089	0.132311
6056	8,853,376	0.554615
6057	1,804,726	0.113056
6061	3,334,156	0.208866
6065	3,828,550	0.239837
6067	1,965,316	0.123116
6068	1,509,886	0.094586
6074	2,204,733	0.138114
6075	1,615,438	0.101198
6078	4,269,329	0.267450
6079	1,901,178	0.119098
6091	8,398,103	0.526095
6093	4,136,587	0.259134
6094	2,666,213	0.167023
6095	1,034,856	0.064828
6097	887,255	0.055582
6099	1,100,814	0.068960
6104	1,777,293	0.111338
6105	2,965,148	0.185750
6109	2,785,038	0.174467
6507	87,089	0.005456
6511	43,189	0.002706
7000	12,949,289	0.811201
7500	108,645	0.006806
7501	224,223	0.014046
7502	38,774	0.002429
8000	1,553,805	0.097337
8102	338,326	0.021194
8105	346,806	0.021725
8110	731,104	0.045800
8112	133,679	0.008374
8113	174,200	0.010913

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
8115	\$ 179,325	0.011234 %
8120	624,862	0.039144
8124	1,500,019	0.093968
8129	457,313	0.028648
8130	2,116,694	0.132599
8131	305,112	0.019114
8133	411,633	0.025786
8134	181,267	0.011355
8135	1,003,080	0.062837
8140	235,801	0.014772
8142	481,618	0.030171
8145	390,927	0.024489
8146	1,050,873	0.065831
8149	152,752	0.009569
8150	2,160,596	0.135349
8151	1,005,268	0.062974
8153	316,888	0.019851
8155	595,284	0.037291
8160	672,512	0.042129
8162	196,375	0.012302
8166	2,807,325	0.175863
8167	115,204	0.007217
8168	205,493	0.012873
8169	198,282	0.012421
8170	1,283,958	0.080433
8400	434,174	0.027199
8402	288,490	0.018072
8403	279,247	0.017493
8406	166,187	0.010411
8407	1,149,984	0.072040
8409	594,612	0.037249
8410	294,655	0.018459
8412	475,949	0.029816
8415	559,094	0.035024
8416	229,068	0.014350
8419	304,104	0.019050
8420	321,220	0.020123
8421	264,097	0.016544
8422	25,105	0.001573
8423	164,657	0.010315
8424	120,127	0.007525

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Employer Allocations

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

District code	Required employer contribution	Employer allocation percentage
8425	\$ 212,698	0.013324 %
8426	158,231	0.009912
8427	66,865	0.004189
8428	364,853	0.022856
8429	224,210	0.014045
8430	208,470	0.013060
8431	199,552	0.012501
8432	216,642	0.013571
8433	75,239	0.004713
8434	88,103	0.005519
8435	86,728	0.005433
8436	313,019	0.019609

See accompanying notes to schedule of employer allocations and schedule of pension amounts by employer.

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources				Pension expense			
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
All districts	\$ (1,808,264,334)	1,351,301,364	6,321,070,215	163,666,527	7,836,038,106	244,773,391	2,007,311,180	163,666,527	2,415,751,098	1,401,612,811	—	1,401,612,811
1005	(9,846,345)	7,358,094	34,419,437	97,965	41,875,496	1,332,838	10,930,193	2,867,337	15,130,369	7,632,050	(567,655)	7,064,395
1010	(2,714,699)	2,028,673	9,489,654	320,086	11,838,412	367,472	3,013,523	107,534	3,488,529	2,104,204		2,140,936
1015	(3,075,364)	2,298,195	10,750,416	745,877	13,794,488	416,293	3,413,889	511,880	4,342,061	2,383,761	29,967	2,413,728
1020	(1,885,745)	1,409,202	6,591,917	144,273	8,145,392	255,261	2,093,321	192,044	2,540,627	1,461,669	(5,108)	1,456,561
1025	(2,944,285)	2,200,240	10,292,207	52,550	12,544,997	398,549	3,268,380	303,066	3,969,996	2,282,159	(44,163)	2,237,996
1030	(4,669,082)	3,489,167	16,321,505	21,560	19,832,233	632,024	5,183,037	540,091	6,355,152	3,619,076	(98,050)	3,521,026
1035	(32,947,326)	24,621,271	115,172,521	2,101,233	141,895,026	4,459,873	36,574,042	9,627,007	50,660,922	25,537,967	(1,486,259)	24,051,707
1040	(2,847,397)	2,127,837	9,953,520	168,063	12,249,419	385,434	3,160,827	74,929	3,621,191	2,207,060		2,233,407
1045	(1,654,852)	1,236,657	5,784,792	82,404	7,103,853	224,007	1,837,011	196,206	2,257,224	1,282,700	(18,502)	1,264,198
1050	(4,152,963)	3,103,476	14,517,332	390,082	18,010,890	562,161	4,610,106	18,054	5,190,320	3,219,024		3,282,580
1055	(1,983,239)	1,482,059	6,932,722	216,017	8,630,798	268,459	2,201,547	89,499	2,559,505	1,537,238	15,216	1,552,454
1060	(1,995,198)	1,490,995	6,974,526	232,646	8,698,167	270,077	2,214,822	418,072	2,902,972	1,546,508	(28,028)	1,518,480
1065	(3,879,892)	2,899,412	13,562,768	628,558	17,090,738	525,197	4,306,976	191,342	5,023,514	3,007,363	91,353	3,098,715
1070	(2,872,784)	2,146,808	10,042,265	300,764	12,489,837	388,871	3,189,009	116,068	3,693,948	2,226,738	43,065	2,269,803
1075	(1,972,571)	1,474,087	6,895,431	96,310	8,465,828	267,015	2,189,705	143,191	2,599,910	1,528,970	(14,892)	1,514,078
1080	(3,821,825)	2,856,019	13,359,786	456,328	16,672,133	517,336	4,242,517	—	4,759,853	2,962,354	82,704	3,045,058
1085	(1,760,753)	1,315,796	6,154,986	189,099	7,659,882	238,342	1,954,570	362,565	2,555,477	1,364,786	(31,450)	1,333,336
1090	(2,151,086)	1,607,489	7,519,457	547,457	9,674,404	291,179	2,387,870	103,888	2,782,937	1,667,339	79,341	1,746,680
1095	(1,114,582)	832,918	3,896,197	275,730	5,004,846	150,874	1,237,271	74,405	1,462,550	863,930	35,204	899,134
1100	(1,811,093)	1,353,415	6,330,957	283,684	7,968,056	245,156	2,010,451	598,451	2,854,058	1,403,805	(65,323)	1,338,482
1105	(4,524,594)	3,381,193	15,816,424	336,627	19,534,244	612,466	5,022,644	634,789	6,269,899	3,507,081	(41,920)	3,465,161
1110	(3,622,719)	2,707,229	12,663,781	548,369	15,919,380	490,385	4,021,495	74,672	4,586,552	2,808,024	114,914	2,922,938
1115	(1,196,549)	894,171	4,182,722	99,876	5,176,769	161,969	1,328,260	246,093	1,736,323	927,463	(27,785)	899,678
1120	(7,087,813)	5,296,665	24,776,555	540,048	30,613,268	959,433	7,868,012	587,076	9,414,521	5,493,870	(42,735)	5,451,135
1125	(1,726,511)	1,290,207	6,035,287	117,084	7,442,579	233,707	1,916,558	148,737	2,299,003	1,338,244	(4,259)	1,333,986
1130	(781,056)	583,677	2,730,305	31,499	3,345,481	105,727	867,032	137,839	1,110,597	605,409	(16,217)	589,191
1135	(3,948,015)	2,950,320	13,800,903	288,748	17,039,970	534,418	4,382,597	—	4,917,015	3,060,166	63,301	3,123,467
1140	(6,145,203)	4,592,260	21,481,515	1,006,942	27,080,717	831,837	6,821,643	291,555	7,945,035	4,763,239	141,708	4,904,947
1145	(926,637)	692,469	3,239,205	—	3,931,674	125,433	1,028,638	101,934	1,256,005	718,250	(20,350)	697,900
1150	(6,900,864)	5,156,960	24,123,046	419,047	29,699,053	934,127	7,660,485	943,226	9,537,837	5,348,963	(64,855)	5,284,108
1155	(11,295,365)	8,440,935	39,484,712	111,666	48,037,313	1,528,983	12,538,716	929,625	14,997,324	8,755,207	(159,188)	8,596,019
1160	(12,663,720)	9,463,496	44,268,010	419,001	54,150,507	1,714,208	14,057,694	77,427	15,849,329	9,815,839	65,856	9,881,696
1165	(12,426,204)	9,286,002	43,437,736	534,484	53,258,223	1,682,057	13,794,033	871,234	16,347,325	9,631,737	(29,787)	9,601,950
1170	(5,608,445)	4,191,146	19,605,196	500,354	24,296,697	759,180	6,225,802	331,112	7,316,093	4,347,190	57,065	4,404,256
1175	(2,887,065)	2,157,480	10,092,186	643,019	12,892,686	390,804	3,204,862	177,444	3,773,110	2,237,807	78,902	2,316,710
1180	(1,552,247)	1,159,981	5,426,120	49,179	6,635,281	120,118	1,723,112	268,629	2,201,859	1,203,170	(38,945)	1,164,225
1185	(1,373,128)	1,026,127	4,799,982	378,006	6,204,116	185,872	1,524,276	112,767	1,822,935	1,064,332	41,705	1,106,037
1190	(1,586,549)	1,185,615	5,546,028	137,888	6,869,531	214,761	1,761,190	81,655	2,057,606	1,229,758	15,188	1,244,945
1195	(1,664,099)	1,243,568	5,817,118	153,607	7,214,294	225,259	1,847,277	228,049	2,300,585	1,289,868	(18,255)	1,271,613
1200	(1,606,409)	1,200,457	5,615,454	35,529	6,851,439	217,450	1,783,237	40,107	2,040,793	1,245,152	(424)	1,244,727
1205	(3,112,972)	2,326,299	10,881,880	1,438,915	14,647,094	421,383	3,455,636	390,298	4,267,317	2,412,911	232,978	2,645,890
1210	(3,813,091)	2,849,493	13,329,256	945	16,179,694	16,154	4,232,822	449,312	5,198,288	2,955,584	(86,400)	2,869,184

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources					Pension expense		
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
1215	\$ (1,910,835)	1,427,951	6,679,621	280,009	8,387,581	258,658	2,121,172	11,946	2,391,776	1,481,117	50,856	1,531,973
1220	(2,655,604)	1,984,512	9,283,079	289,456	11,557,046	359,472	2,947,923	6,437	3,313,833	2,058,399	52,230	2,110,628
1225	(4,148,472)	3,100,120	14,501,631	1,040,412	18,642,162	561,553	4,605,120	281,688	5,448,360	3,215,543	185,612	3,401,155
1230	(888,468)	663,945	3,105,779	68,855	3,838,579	120,266	986,267	63,955	1,170,488	688,665	3,472	692,137
1235	(30,782,021)	23,003,156	107,603,360	3,582,346	134,188,862	4,166,769	34,170,389	5,561,003	43,898,161	23,859,606	(224,042)	23,635,565
1240	(4,470,403)	3,340,696	15,626,990	311,370	19,279,056	605,130	4,962,487	644,561	6,212,179	3,465,076	(65,539)	3,399,537
1245	(4,129,437)	3,085,895	14,435,093	202,038	17,723,026	558,976	4,583,990	678,572	5,821,539	3,200,789	(113,509)	3,087,280
1250	(1,259,461)	941,185	4,402,644	18,667	5,362,497	170,485	1,398,098	286,601	1,855,185	976,227	(46,833)	929,395
1255	(4,811,871)	3,595,872	16,820,645	20,766	20,437,283	651,353	5,341,543	375,061	6,367,956	3,729,753	(72,976)	3,656,777
1260	(8,427,450)	6,297,765	29,459,466	260,548	36,017,779	1,140,771	9,355,111	1,465,569	11,961,451	6,532,243	(215,573)	6,316,669
1265	(1,527,954)	1,141,827	5,341,200	3,829	6,486,857	206,829	1,696,145	168,819	2,071,793	1,184,340	(30,433)	1,153,907
1270	(20,421,715)	15,260,983	71,387,291	1,356,426	88,004,700	2,764,359	22,669,659	4,049,423	29,483,441	15,829,177	(657,337)	15,171,841
1275	(1,433,514)	1,071,253	5,011,072	47,706	6,130,031	194,046	1,591,310	224,265	2,009,620	1,111,138	(31,147)	1,079,991
1280	(3,797,449)	2,837,803	13,274,575	23,963	16,136,341	514,037	4,215,458	269,584	4,999,079	2,943,460	(44,664)	2,898,795
1285	(6,849,674)	5,118,706	23,944,105	636,728	29,699,539	927,197	7,603,860	1,434,807	9,965,664	5,309,285	(147,205)	5,162,080
1290	(2,649,805)	1,980,178	9,262,807	284,326	11,527,311	358,687	2,941,485	233,475	3,533,648	2,053,904	18,696	2,072,600
1295	(1,048,339)	783,415	3,664,633	18,591	4,466,640	141,907	1,163,736	77,150	1,382,794	812,583	(11,511)	801,072
1300	(10,084,877)	7,536,348	35,253,263	291,741	43,081,351	1,365,127	11,194,982	1,003,577	13,563,686	7,816,940	(137,069)	7,679,871
1305	(27,507,493)	20,556,128	96,156,736	67,116	116,779,980	3,723,517	30,535,413	2,431,124	36,690,054	21,321,471	(467,470)	20,854,001
2005	(1,438,657)	1,075,097	5,029,051	300,883	6,405,032	194,742	1,597,019	11,420	1,803,182	1,115,125	49,713	1,164,838
2006	(1,358,398)	1,015,120	4,748,493	43,476	5,807,090	183,878	1,507,926	89,910	1,781,713	1,052,915	(6,519)	1,046,396
2007	(3,565,738)	2,664,648	12,464,595	742,970	15,872,213	482,672	3,958,241	734,175	5,175,087	2,763,857	(32,526)	2,731,331
2008	(3,314,125)	2,476,619	11,585,042	40,279	14,101,940	448,612	3,678,931	305,554	4,433,098	2,568,828	(44,789)	2,524,039
2009	(2,588,443)	1,934,323	9,048,308	163,621	11,146,252	350,381	2,873,369	118,816	3,342,566	2,006,341	2,053	2,008,394
2010	(8,420,138)	6,292,301	29,433,906	484,144	36,210,351	1,139,781	9,346,994	181,718	10,668,494	6,526,575	58,114	6,584,689
2014	(1,076,797)	804,682	3,764,113	242,677	4,811,472	145,759	1,195,327	—	1,341,086	834,642	44,418	879,059
2015	(2,420,005)	1,808,451	8,459,506	119,079	10,387,036	327,581	2,686,390	235,254	3,249,225	1,875,782	(28,529)	1,847,252
2016	(928,725)	694,029	3,246,504	341,085	4,281,617	125,716	1,030,956	47,794	1,204,466	719,869	52,383	772,252
2018	(2,252,679)	1,683,409	7,874,591	185,075	9,743,075	304,931	2,500,645	195,545	3,001,122	1,746,085	(12,475)	1,733,610
2020	(6,018,099)	4,497,277	21,037,205	355,772	25,890,254	814,632	6,680,549	144,730	7,639,911	4,664,719	47,313	4,712,032
2025	(4,574,052)	3,418,152	15,989,311	—	19,407,463	619,161	5,077,546	429,573	6,126,280	3,545,416	(86,123)	3,459,293
2030	(3,901,679)	2,915,693	13,638,927	278,282	16,832,902	528,146	4,331,161	142,421	5,001,728	3,024,250	39,577	3,063,827
2035	(1,290,887)	964,669	4,512,496	16,464	5,493,629	174,739	1,432,982	63,231	1,670,953	1,000,586	(9,243)	991,343
2040	(7,473,317)	5,584,750	26,124,147	75,712	31,784,608	1,011,616	8,295,952	1,225,886	10,533,453	5,792,680	(206,879)	5,585,801
2044	(1,796,435)	1,342,461	6,279,718	6,029	7,628,208	243,172	1,994,179	623,163	2,860,514	1,392,443	(127,916)	1,264,528
2045	(4,360,915)	3,258,877	15,244,260	16,699	18,519,836	590,310	4,840,948	217,075	5,648,333	3,380,211	(38,954)	3,341,257
2046	(3,585,897)	2,679,712	12,535,063	252,319	15,467,094	485,400	3,980,619	58,006	4,524,026	2,779,483	29,788	2,809,271
2047	(17,912,840)	13,386,121	62,617,127	63,800	76,067,048	2,424,749	19,884,617	1,485,411	23,794,777	13,884,511	(272,914)	13,611,596
2048	(4,140,166)	3,093,913	14,472,597	328,300	17,894,810	560,428	4,595,900	139,297	5,295,625	3,209,105	43,381	3,252,486
2050	(3,154,942)	2,357,663	11,028,593	167,590	13,553,846	427,065	3,502,226	191,503	4,120,794	2,445,443	(243)	2,445,200
2052	(2,790,454)	2,085,284	9,754,468	336,358	12,176,109	377,726	3,097,617	501,288	3,976,630	2,162,923	(42,985)	2,119,938
2055	(2,364,614)	1,767,057	8,265,878	396,708	10,429,644	320,083	2,624,902	87,703	3,032,688	1,832,848	62,643	1,895,491
2056	(2,956,964)	2,209,716	10,336,530	247,788	12,794,034	400,266	3,282,456	180,250	3,862,971	2,291,987	6,675	2,298,662

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources				Pension expense			
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
2057	\$ (3,796,148)	2,836,831	13,270,027	403,934	16,510,791	513,861	4,214,013	161,958	4,889,831	2,942,451	37,849	2,980,299
2058	(2,384,455)	1,789,357	8,370,190	118,815	10,278,362	324,122	2,658,027	82,984	3,065,133	1,855,978	8,160	1,864,138
2059	(3,948,843)	2,950,938	13,803,795	66,166	16,820,900	534,530	4,383,516	471,814	5,389,860	3,060,807	(79,137)	2,981,670
2060	(1,071,388)	800,640	3,745,206	53,092	4,598,938	145,027	1,189,323	228,395	1,562,745	830,449	(30,901)	799,548
2061	(1,123,467)	839,558	3,927,254	179,151	4,945,962	152,077	1,247,134	8,394	1,407,604	870,166	33,909	904,725
2062	(1,733,254)	1,295,247	6,058,860	385,478	7,739,585	234,620	1,924,044	182,318	2,340,982	1,343,471	29,464	1,372,935
2063	(917,435)	685,592	3,207,037	10,019	3,902,647	124,187	1,018,423	142,885	1,285,495	711,118	(26,993)	684,125
2064	(2,812,591)	2,101,827	9,831,850	354,739	12,288,416	380,723	3,122,190	—	3,502,913	2,180,081	69,617	2,249,698
2065	(2,352,865)	1,758,277	8,224,808	336,447	10,319,532	318,493	2,611,860	2,313	2,932,665	1,823,741	68,831	1,892,572
2066	(6,014,641)	4,494,693	21,025,116	46,379	25,566,188	814,164	6,676,710	199,566	7,690,439	4,662,038	(34,868)	4,627,170
2067	(9,135,300)	6,826,736	31,933,868	390,478	39,151,083	1,236,598	10,140,879	1,291,213	12,668,680	7,080,908	(162,392)	6,918,516
2068	(7,965,850)	5,952,816	27,845,872	520,990	34,319,678	1,078,287	8,842,701	274,510	10,195,498	6,174,450	27,984	6,202,434
2069	(1,109,892)	829,413	3,679,801	8,542	4,717,756	150,239	1,232,065	300,647	1,682,951	860,294	(62,321)	797,973
2070	(1,499,174)	1,120,321	5,240,598	81,532	6,442,450	202,934	6,442,450	6,792	1,873,924	1,162,032	13,707	1,175,739
2071	(1,227,423)	917,243	4,290,647	179,047	5,386,938	166,148	1,362,533	109,334	1,638,015	951,394	10,718	962,112
2072	(1,418,743)	1,060,215	4,959,436	62,322	6,081,973	192,046	1,574,912	32,301	1,799,260	1,099,689	8,956	1,108,645
2073	(2,908,664)	2,173,621	10,167,689	402,812	12,744,122	393,728	3,228,839	210,952	3,833,518	2,254,549	43,076	2,297,625
2074	(3,042,405)	2,273,564	10,635,200	322,399	13,231,163	411,831	3,377,301	57,342	3,846,474	2,358,213	41,493	2,399,706
2075	(5,617,846)	4,198,171	19,638,059	1,131,111	24,967,340	760,453	6,236,237	573	6,997,263	4,354,477	221,565	4,576,042
2076	(3,484,521)	2,603,954	12,180,686	22,485	14,807,125	471,678	3,868,083	331,885	4,671,646	2,700,904	(60,322)	2,640,582
2077	(993,889)	742,725	3,474,293	29,162	4,246,179	134,536	1,103,292	107,121	1,344,949	770,378	(14,839)	755,539
2078	(9,100,642)	6,800,837	31,812,716	1,230,079	39,843,632	1,231,897	10,102,407	440,676	11,774,979	7,054,044	126,107	7,180,151
2079	(5,218,004)	3,899,372	18,240,347	72,975	22,212,694	706,328	5,792,382	540,255	7,038,965	4,044,553	(89,153)	3,955,400
2080	(1,157,466)	864,965	4,046,102	156,527	5,067,594	156,679	1,284,875	41,434	1,482,988	897,169	26,227	923,395
2081	(1,464,402)	1,094,336	5,119,047	88,632	6,302,015	198,227	1,625,598	107,330	1,931,156	1,135,080	(2,989)	1,132,092
2082	(809,357)	604,826	2,829,234	98,121	3,532,181	109,558	898,448	20,138	1,028,144	627,345	12,609	639,954
2083	(1,979,741)	1,479,444	6,920,492	49,842	8,449,778	267,985	2,197,663	205,357	2,671,005	1,534,527	(29,298)	1,505,229
2084	(3,196,186)	2,388,484	11,172,767	106,175	13,667,426	432,648	3,548,010	210,099	4,190,756	2,477,412	(23,582)	2,453,830
2085	(1,583,258)	1,183,156	5,534,525	35,759	6,753,440	214,316	1,757,537	54,389	2,026,241	1,227,207	(2,077)	1,225,130
2086	(5,469,763)	4,087,510	19,120,409	308,860	23,516,779	740,407	6,071,853	165,922	6,978,182	4,239,695	17,908	4,257,603
2090	(2,370,526)	1,771,475	8,286,543	265,796	10,323,813	320,883	2,631,464	63,240	3,015,588	1,837,430	35,018	1,872,448
2095	(2,350,504)	1,756,513	8,216,555	2,594	9,975,662	318,173	2,609,239	210,329	3,137,741	1,821,911	(38,461)	1,783,450
2104	(1,275,291)	953,015	4,457,978	357,609	5,768,602	172,628	1,415,670	57,845	1,646,143	988,497	52,596	1,041,093
2105	(1,178,911)	880,991	4,121,068	254,551	5,256,610	159,582	1,308,681	50,050	1,518,313	913,792	36,533	950,325
2110	(3,672,840)	2,744,684	12,838,987	191,370	15,775,041	497,169	4,077,133	220,816	4,795,118	2,846,874	(985)	2,845,888
2112	(2,487,217)	1,858,677	8,694,453	278,685	10,831,815	336,679	2,761,000	14,822	3,112,500	1,927,879	53,998	1,981,776
2115	(4,997,051)	3,734,256	17,467,973	1,772,437	22,974,666	676,419	5,547,108	18,670	6,242,198	3,873,289	321,294	4,194,584
2120	(9,465,865)	7,073,615	33,068,710	267,668	40,429,992	1,281,308	10,507,609	198,584	11,987,501	7,336,979	12,455	7,349,434
2125	(958,325)	716,149	3,349,976	130,683	4,196,808	129,722	1,063,814	177,862	1,371,399	742,812	(15,722)	727,090
2130	(1,734,289)	1,296,020	6,062,476	340,271	7,698,767	234,760	1,925,192	4,665	2,164,617	1,344,273	60,509	1,404,782
2135	(3,393,455)	2,535,901	11,862,350	172,125	14,570,376	459,351	3,766,993	372,360	4,598,703	2,630,318	(23,659)	2,606,658
2140	(2,959,774)	2,211,815	10,346,351	35,066	12,593,232	400,646	3,285,574	278,609	3,964,830	2,294,165	(44,335)	2,249,830
2145	(4,214,598)	3,149,535	14,732,785	276,101	18,158,420	570,504	4,678,525	74,026	5,323,054	3,266,798	34,871	3,301,669

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources					Deferred inflows of resources					Pension expense		
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense	
2146	\$ (4,234,978)	3,164,765	14,804,027	1,352,367	19,321,159	573,262	4,701,148	40,753	5,315,164	3,282,595	249,100	3,531,695	
2147	(1,078,606)	806,034	3,770,437	219,864	4,796,334	146,004	1,197,335	22,933	1,366,272	836,044	35,443	871,487	
2148	(2,691,101)	2,011,038	9,407,164	27,346	11,445,548	364,277	2,987,327	178,162	3,529,766	2,085,913	(31,503)	2,054,410	
2149	(1,802,848)	1,347,254	6,302,138	166,200	7,815,591	244,400	2,001,299	76,738	2,322,078	1,397,415	24,951	1,422,366	
2150	(719,848)	537,937	2,516,341	17,813	3,072,091	97,441	799,086	32,477	929,004	557,965	(1,447)	556,518	
2155	(2,759,873)	2,062,431	9,647,566	110,899	11,820,895	373,587	3,063,669	170,323	3,607,578	2,139,219	(4,292)	2,134,927	
2160	(4,886,482)	3,651,628	17,081,459	853,426	21,586,513	661,452	5,424,367	205,361	6,291,180	3,787,585	104,953	3,892,538	
2165	(1,631,293)	1,219,052	5,702,438	196,228	7,117,717	220,818	1,810,859	123,056	2,154,733	1,264,439	9,018	1,273,457	
2170	(7,172,063)	5,359,625	25,071,065	928,092	31,358,782	970,837	7,961,536	6,647	8,939,020	5,569,174	158,113	5,717,286	
2175	(675,963)	505,142	2,362,936	52,984	2,921,061	91,501	750,371	33,377	875,249	523,949	4,893	528,842	
2180	(1,395,565)	1,042,895	4,878,416	73,383	5,994,694	188,909	1,549,184	50,566	1,788,658	1,081,723	7,657	1,089,380	
2185	(7,765,371)	5,802,999	27,145,066	604,552	33,552,617	1,051,150	8,620,153	198,841	9,870,144	6,019,056	86,074	6,105,130	
2187	(3,692,246)	2,759,186	12,906,823	15,112	15,681,121	499,796	4,098,675	227,452	4,825,922	2,861,915	(37,686)	2,824,230	
2190	(4,935,780)	3,688,468	17,253,788	860,544	21,802,800	668,126	5,479,092	3,557	6,150,774	3,825,797	151,876	3,977,675	
2191	(3,533,898)	2,640,854	12,353,293	121,248	15,115,395	478,362	3,922,896	166,055	4,567,313	2,739,178	(14,462)	2,724,716	
2195	(1,065,483)	796,227	3,724,561	67,710	4,588,498	144,228	1,182,767	84,972	1,411,967	825,872	(5,447)	820,425	
2196	(1,205,058)	900,530	4,212,470	70,032	5,183,033	163,121	1,337,707	68,971	1,569,799	934,059	(1,825)	932,234	
2198	(2,570,774)	1,921,119	8,986,543	40,313	10,947,975	347,990	2,853,755	239,635	3,441,379	1,992,646	(44,063)	1,948,582	
2200	(10,822,130)	8,087,291	37,830,445	1,174,497	47,092,233	1,464,924	12,013,389	314,758	13,793,070	8,388,395	156,461	8,544,856	
2204	(9,559,785)	7,143,950	33,417,719	1,523,799	42,085,468	1,294,048	10,612,089	107,489	12,013,626	7,409,932	268,189	7,678,121	
2205	(275,884)	206,166	964,396	91,291	1,261,853	37,345	306,252	58,489	402,086	213,842	6,760	220,602	
2206	(1,467,539)	1,096,680	5,130,012	93,299	6,319,991	198,652	1,629,080	87,386	1,915,118	1,137,512	5,332	1,142,843	
2207	(2,624,866)	1,961,541	9,175,630	708,083	11,845,254	355,312	2,913,802	236,266	3,505,379	2,034,573	79,204	2,113,777	
2208	(4,594,612)	3,433,516	16,061,183	135,347	19,630,046	621,944	5,100,369	763,621	6,485,934	3,561,353	(130,831)	3,430,520	
2209	(10,534,364)	7,872,245	36,824,513	1,357,543	46,054,301	1,425,971	11,693,947	78,297	13,198,214	8,165,344	222,169	8,387,512	
2210	(2,956,465)	2,209,343	10,334,785	—	12,544,128	400,198	3,281,902	510,443	4,192,543	2,291,600	(92,942)	2,198,658	
2212	(3,767,209)	2,815,205	13,168,867	304,930	16,289,003	509,943	4,181,889	348,091	5,039,924	2,920,020	(25,818)	2,894,202	
2215	(5,619,980)	4,199,766	19,645,516	317,854	24,163,135	760,741	6,238,606	294,186	7,293,533	4,356,131	19,121	4,375,252	
2220	(2,340,574)	1,749,092	8,181,842	29,127	9,960,061	316,829	2,598,215	240,900	3,155,944	1,814,214	(35,392)	1,778,822	
2224	(4,964,198)	3,709,705	17,353,127	73,698	21,136,530	671,972	5,510,638	100,328	6,282,938	3,847,824	(4,995)	3,842,829	
2225	(8,801,209)	6,577,073	30,766,001	2,214,622	39,557,696	1,191,364	9,770,013	—	10,961,377	6,821,949	445,373	7,267,322	
2230	(7,298,718)	5,454,273	25,513,809	1,973,183	32,941,266	987,982	8,102,133	667,489	9,757,604	5,657,346	320,795	5,978,141	
2231	(3,552,121)	2,654,471	12,416,993	367,880	15,439,344	480,828	3,943,125	187,126	4,611,079	2,753,302	38,970	2,792,272	
2235	(773,236)	577,833	2,702,965	48,549	3,329,347	104,668	858,350	200,781	1,163,799	599,346	(23,773)	575,573	
2239	(3,314,656)	2,477,015	11,586,896	264,404	14,328,316	448,684	3,679,520	2,808	4,131,013	2,569,239	49,518	2,618,757	
2240	(6,214,964)	4,644,392	21,725,376	519,981	26,889,749	841,281	6,899,083	444,536	8,184,900	4,817,312	39,591	4,856,903	
2241	(976,900)	730,030	3,414,907	130,825	4,275,762	132,237	1,084,434	24,205	1,240,876	757,210	22,737	779,947	
2242	(1,680,662)	1,255,945	5,875,017	396,853	7,527,816	227,501	1,865,663	36,728	2,129,892	1,302,707	71,334	1,374,040	
2243	(1,736,667)	1,297,797	6,070,791	227,632	7,596,220	235,082	1,927,833	40,591	2,203,505	1,346,117	39,668	1,385,785	
2244	(998,038)	745,826	3,488,798	182,032	4,416,655	135,098	1,107,898	35,947	1,278,943	773,594	28,615	802,209	
2245	(2,774,130)	2,073,085	9,697,403	154,335	11,924,820	375,516	3,079,495	356,161	3,811,173	2,150,269	(55,595)	2,094,675	
2250	(1,621,331)	1,211,608	5,667,616	2,876	6,882,100	219,469	1,799,801	141,131	2,160,401	1,256,718	(30,455)	1,226,264	
2255	(5,179,123)	3,870,317	18,104,434	4,867	21,979,618	701,065	5,749,221	398,508	6,848,795	4,014,416	(76,385)	3,938,031	

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources					Pension expense		
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
2260	\$ (3,555,560)	2,657,041	12,429,013	553,893	15,639,947	481,294	3,946,942	14,631	4,442,867	2,755,968	100,637	2,856,605
2266	(2,951,476)	2,205,614	10,317,346	132,909	12,655,869	399,523	3,276,363	74,383	3,750,270	2,287,734	9,530	2,297,263
2268	(1,602,540)	1,197,565	5,601,927	426,029	7,225,521	216,926	1,778,941	133,700	2,129,566	1,242,152	60,021	1,302,173
2270	(2,846,175)	2,126,924	9,949,251	20,028	12,096,203	385,269	3,159,472	221,557	3,766,298	2,206,113	(43,134)	2,162,979
2271	(1,915,371)	1,431,341	6,695,479	101,845	8,228,666	259,272	2,126,208	21,888	2,407,368	1,484,633	11,931	1,496,564
2272	(2,959,174)	2,211,367	10,344,254	329,681	12,885,302	400,565	3,284,908	42,953	3,728,426	2,293,700	48,482	2,342,182
2275	(5,547,221)	4,145,393	19,391,175	512,765	24,049,334	750,892	6,157,837	102,295	7,011,025	4,299,734	93,962	4,393,696
2280	(1,814,979)	1,356,319	6,344,542	86,885	7,787,746	245,682	2,014,765	149,837	2,410,284	1,406,817	(17,273)	1,389,545
2281	(1,121,429)	838,035	3,920,129	15,447	4,773,610	151,801	1,244,871	63,705	1,460,377	869,236	(8,079)	861,157
2282	(4,847,410)	3,622,431	16,944,880	1,220,291	21,787,602	656,164	5,380,995	—	6,037,158	3,757,301	226,711	3,984,012
2285	(6,963,923)	5,204,083	24,343,479	509,769	30,057,331	942,662	7,730,485	269,105	8,942,252	5,397,841	41,578	5,439,419
2286	(3,814,397)	2,850,468	13,333,821	412,076	16,596,365	516,331	4,234,271	—	4,750,602	2,956,596	84,386	3,040,982
2288	(2,234,942)	1,670,154	7,812,590	288,614	9,771,358	302,530	2,480,956	—	2,783,487	1,732,337	58,379	1,790,716
2289	(7,050,717)	5,268,944	24,646,883	898,999	30,814,826	954,411	7,826,833	—	8,781,245	5,465,117	190,261	5,655,377
2290	(4,010,732)	2,997,188	14,020,139	—	17,017,326	542,908	4,452,218	439,407	5,434,532	3,108,778	(84,588)	3,024,190
2295	(1,852,144)	1,384,092	6,474,457	28,674	7,887,223	250,713	2,056,021	275,423	2,582,157	1,435,624	(40,877)	1,394,747
2300	(3,910,415)	2,922,222	13,669,468	1,599,722	18,191,412	529,328	4,340,859	—	4,870,187	3,031,022	318,912	3,349,934
2305	(949,498)	709,552	3,319,119	46,322	4,074,993	128,528	1,054,015	81,180	1,263,723	735,970	(10,196)	725,774
2310	(10,515,171)	7,857,902	36,757,420	1,331,202	45,946,524	1,423,373	11,672,641	—	13,096,013	8,150,466	248,436	8,398,903
2315	(1,802,933)	1,347,317	6,302,433	119,623	7,769,374	244,052	2,001,393	297,498	2,542,943	1,397,480	(22,168)	1,375,312
2317	(1,678,091)	1,254,024	5,866,030	62,805	7,182,860	227,153	1,862,809	8,036	2,097,998	1,300,714	9,401	1,310,115
2320	(7,004,519)	5,234,421	24,485,391	878,425	30,598,236	948,158	7,775,550	171,925	8,895,633	5,429,308	112,319	5,541,627
2325	(6,448,381)	4,818,823	22,541,323	65,005	27,425,151	872,877	7,158,194	439,534	8,470,605	4,998,237	(72,705)	4,925,532
2328	(1,428,602)	1,067,583	4,993,902	167,636	6,229,120	193,381	1,585,857	85,680	1,864,918	1,107,331	14,024	1,121,355
2330	(3,639,841)	2,720,024	12,723,632	287,055	15,730,710	492,702	4,040,501	195,092	4,728,295	2,821,295	8,246	2,829,541
2335	(4,177,766)	3,122,011	14,604,032	155,178	17,881,221	565,518	4,637,638	273,799	5,476,955	3,238,249	(36,091)	3,202,158
2338	(5,750,936)	4,297,628	20,103,295	160,600	24,561,523	778,468	6,383,977	182,446	7,344,891	4,457,637	(12,540)	4,445,097
2339	(1,706,816)	1,275,490	5,966,440	105,910	7,347,840	231,041	1,894,695	332,157	2,457,894	1,322,978	(41,823)	1,281,155
2340	(1,926,904)	1,439,960	6,735,795	2,229	8,177,984	260,833	2,139,011	218,443	2,618,286	1,493,573	(45,344)	1,448,228
2345	(2,457,232)	1,836,270	8,589,639	46,070	10,471,979	332,620	2,727,715	229,676	3,290,011	1,904,638	(32,328)	1,872,957
2350	(6,585,757)	4,921,483	23,021,543	629,823	28,572,850	891,473	7,310,693	660,738	8,862,903	5,104,719	(31,763)	5,072,957
2355	(4,654,155)	3,478,012	16,269,324	476,735	20,224,071	630,004	5,166,466	292,959	6,089,430	3,607,505	23,674	3,631,269
2360	(3,428,592)	2,562,159	11,985,178	51,942	14,599,280	464,107	3,805,998	199,229	4,469,334	2,657,553	(30,295)	2,627,258
2361	(1,474,407)	1,101,812	5,154,019	93,389	6,349,220	199,581	1,636,704	148,802	1,985,087	1,142,835	(8,202)	1,134,332
2362	(1,723,616)	1,288,044	6,025,168	37,992	7,351,204	233,315	1,913,345	232,597	2,379,257	1,336,001	(30,951)	1,305,050
2363	(1,060,506)	792,508	3,707,166	95,966	4,595,640	143,554	1,177,243	13,416	1,334,213	822,014	18,471	840,486
2364	(2,092,939)	1,564,037	7,316,197	125,754	9,005,987	283,308	2,323,322	341,454	2,948,085	1,622,269	(32,279)	1,589,990
2365	(10,438,085)	7,800,297	36,487,956	408,345	44,696,598	1,412,938	11,587,070	1,477,809	14,477,817	8,090,716	(183,056)	7,907,660
2370	(1,719,989)	1,285,334	6,012,490	20,937	7,318,761	232,824	1,909,319	115,713	2,257,856	1,333,189	(15,877)	1,317,312
2375	(1,419,250)	1,060,594	4,961,210	57,134	6,078,938	192,115	1,575,476	135,963	1,903,554	1,100,082	(17,373)	1,082,709
2377	(2,017,987)	1,508,025	7,054,188	443,688	9,005,901	273,162	2,240,119	244,637	2,757,918	1,564,172	48,261	1,612,433
2378	(10,487,417)	7,837,162	36,660,403	382,931	44,880,496	1,419,616	11,641,832	541,500	13,602,947	8,128,954	(61,705)	8,067,249
2379	(10,690,204)	7,988,704	37,369,278	220,919	45,578,900	1,447,066	11,866,941	842,687	14,156,694	8,286,138	(113,775)	8,172,363

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources				Pension expense			
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
2380	\$ (4,269,439)	3,190,518	14,924,492	360,738	18,475,748	577,927	4,739,403	268,125	5,585,455	3,309,307	37,015	3,346,322
2381	(2,308,158)	1,724,868	8,068,528	95,824	9,889,220	312,441	2,562,232	523,348	3,398,021	1,789,088	(85,114)	1,703,974
2383	(7,542,367)	5,636,350	26,365,520	443,476	32,445,346	1,020,963	8,372,602	188,840	9,582,405	5,846,201	71,824	5,918,025
2384	(4,810,881)	3,595,132	16,817,185	80,048	20,492,365	651,219	5,340,444	915,341	6,907,004	3,728,986	(183,770)	3,545,216
2385	(3,121,162)	2,332,419	10,910,509	604,455	13,847,384	422,492	3,464,728	171,844	4,059,064	2,419,260	71,032	2,490,292
2389	(2,838,874)	2,121,467	9,923,726	449,291	12,494,484	384,281	3,151,366	170,130	3,705,776	2,200,454	44,795	2,245,249
2390	(5,723,336)	4,277,003	20,006,816	1,333,310	25,617,129	774,732	6,353,340	286,902	7,414,973	4,436,244	190,436	4,626,680
2391	(2,891,630)	2,160,892	10,108,145	318,429	12,587,466	391,422	3,209,930	—	3,601,352	2,241,346	67,362	2,308,708
2394	(2,024,464)	1,512,865	7,076,829	171,894	8,761,589	274,039	2,247,309	104,357	2,625,705	1,569,192	11,440	1,580,632
2395	(1,700,423)	1,270,712	5,944,094	22,606	7,237,413	230,176	1,887,599	70,055	2,187,830	1,318,023	(7,696)	1,310,327
2396	(1,302,459)	973,317	4,552,950	138,270	5,664,537	176,306	1,445,829	314,886	1,937,021	1,009,556	(35,548)	974,008
2400	(9,893,363)	7,393,230	34,583,794	928,330	42,905,354	1,339,202	10,982,386	357,320	12,678,909	7,668,494	134,264	7,802,758
2401	(2,382,197)	1,780,197	8,327,343	306,539	10,414,079	322,463	2,644,421	215,496	3,182,380	1,846,477	31,537	1,878,014
2402	(5,721,685)	4,275,769	20,001,044	518,778	24,795,591	774,509	6,351,507	231,513	7,357,528	4,434,964	39,116	4,474,080
2403	(2,758,444)	2,061,363	9,642,572	90,960	11,794,894	373,393	3,062,083	283,754	3,719,231	2,138,111	(31,699)	2,106,412
2405	(3,584,929)	2,678,988	12,531,678	58,525	15,269,191	485,269	3,979,544	268,148	4,732,961	2,778,732	(51,045)	2,727,687
2406	(4,996,067)	3,733,521	17,464,533	82,202	21,280,255	676,286	5,546,015	640,531	6,862,833	3,872,527	(114,449)	3,758,077
2408	(5,150,232)	3,848,727	18,003,438	136,714	21,988,879	697,155	5,717,149	338,592	6,752,896	3,992,022	(31,496)	3,960,526
2409	(1,094,946)	818,244	3,827,553	172,225	4,818,022	148,216	1,215,473	215,226	1,578,915	848,709	(415)	848,294
2410	(6,618,132)	4,945,676	23,134,712	316,354	28,396,743	895,855	7,346,630	109,408	8,351,894	5,129,813	43,549	5,173,362
2415	(7,677,537)	5,737,362	26,838,031	1,120,524	33,695,916	1,039,260	8,522,652	620,643	10,182,554	5,950,974	75,169	6,026,143
2420	(3,891,185)	2,907,851	13,602,244	68,508	16,578,603	526,725	4,319,512	271,051	5,117,288	3,016,116	(39,500)	2,976,616
2425	(7,208,437)	5,386,807	25,198,215	1,738,444	32,323,466	975,761	8,001,914	17,102	8,994,777	5,587,367	333,325	5,920,692
2426	(2,089,892)	1,561,760	7,305,545	247,539	9,114,844	282,896	2,319,940	48,740	2,651,576	1,619,907	47,610	1,619,907
2428	(4,122,969)	3,081,061	14,412,481	136,855	17,630,397	558,100	4,576,809	320,215	5,455,125	3,195,775	(29,076)	3,166,699
2430	(6,077,187)	4,541,433	21,243,757	201,243	25,986,433	822,631	6,746,141	569,359	8,138,131	4,710,519	(56,218)	4,654,301
2435	(1,603,649)	1,198,394	5,605,807	235,430	7,039,631	217,076	1,780,173	145,442	2,142,691	1,243,013	10,949	1,253,961
2440	(2,629,071)	1,964,683	9,190,327	412,071	11,567,082	355,881	2,918,469	62,108	3,336,458	2,037,832	75,575	2,113,407
2441	(1,559,147)	1,165,138	5,450,243	36,181	6,651,562	211,052	1,730,772	93,305	2,035,130	1,208,519	(9,559)	1,198,960
2445	(7,741,782)	5,785,371	27,062,606	439,740	33,287,717	1,047,956	8,593,967	451,296	10,093,220	6,000,771	22,154	6,022,925
2450	(3,074,673)	2,297,678	10,747,998	3,765	13,049,441	416,199	3,413,121	279,740	4,109,060	2,383,225	(54,302)	2,328,927
2455	(3,889,780)	2,906,801	13,597,333	154,495	16,658,629	526,535	4,317,952	449,072	5,293,559	3,015,027	(45,489)	2,969,538
2458	(3,809,749)	2,846,995	13,317,572	349,331	16,513,898	515,702	4,229,112	169,163	4,913,976	2,952,994	46,897	2,999,891
2460	(1,381,300)	1,032,234	4,828,548	118,497	5,979,279	186,978	1,533,348	104,530	1,824,855	1,070,666	(1,504)	1,069,162
2464	(1,224,360)	914,955	4,279,943	86,610	5,281,508	165,734	1,359,133	5,816	1,530,684	949,020	15,157	964,177
2465	(636,683)	475,788	2,225,626	137,320	2,838,735	86,184	706,767	7,009	799,960	493,503	24,217	517,720
2466	(1,559,380)	1,165,312	5,451,056	81,415	6,697,783	211,083	1,731,031	288,947	2,231,061	1,208,699	(48,021)	1,160,678
2467	(2,188,346)	1,635,334	7,649,707	110,356	9,395,396	296,223	2,429,231	124,354	2,849,808	1,696,220	(7,185)	1,689,036
2468	(1,727,179)	1,290,707	6,037,625	306,478	7,634,810	233,797	1,917,810	—	2,151,098	1,338,763	56,999	1,395,761
2469	(4,815,351)	3,598,473	16,832,810	308,851	20,740,134	651,824	5,345,406	11,001	6,008,231	3,732,450	62,784	3,795,235
2470	(4,274,474)	3,194,280	14,942,091	543,924	18,680,294	578,609	4,744,992	146,160	5,469,760	3,313,209	59,718	3,372,927
2471	(4,651,668)	3,476,154	16,260,633	563,517	20,300,304	629,667	5,163,706	3,603	5,796,976	3,605,578	102,412	3,707,990
2475	(7,033,163)	5,255,826	24,585,519	998,704	30,840,049	952,035	7,807,347	238,713	8,998,095	5,451,510	135,605	5,587,115

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources					Pension expense		
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
2480	\$ (2,284,809)	1,707,419	7,986,906	301,397	9,995,722	309,280	2,536,312	39,012	2,884,604	1,770,990	47,472	1,818,462
2485	(4,997,793)	3,734,810	17,470,565	15,804	21,221,179	676,520	5,547,931	1,210,874	7,435,325	3,873,864	(252,830)	3,621,034
2490	(7,182,986)	5,367,787	25,109,247	199,308	30,676,342	972,316	7,973,661	129,647	9,075,623	5,567,640	25,291	5,592,931
2495	(958,044)	715,938	3,348,991	17,147	4,082,076	129,684	1,063,501	238,867	1,432,052	742,594	(42,378)	700,216
2497	(2,329,521)	1,740,832	8,143,205	273,742	10,157,779	315,333	2,585,946	37,072	2,938,351	1,805,647	44,466	1,850,113
2498	(2,080,695)	1,554,887	7,273,396	58,616	8,886,898	281,651	2,309,730	73,958	2,665,339	1,612,778	(57)	1,612,722
2500	(5,773,048)	4,314,152	20,180,590	183,902	24,678,644	781,461	6,408,523	279,342	7,469,326	4,474,776	(18,399)	4,456,377
2504	(3,655,405)	2,731,655	12,778,039	96,545	15,606,238	494,809	4,057,778	998,016	5,550,603	2,833,359	(164,365)	2,668,995
2505	(4,869,159)	3,638,683	17,020,904	481,882	21,141,469	659,107	5,405,137	62,909	6,127,154	3,774,158	81,539	3,855,697
2507	(930,738)	695,533	3,253,540	27,322	3,976,394	125,988	1,033,190	38,091	1,197,270	721,429	(2,837)	718,592
2508	(2,580,010)	1,928,021	9,018,828	357,952	11,304,900	349,240	2,864,008	6,918	3,220,166	1,999,804	66,775	2,066,579
2509	(4,725,195)	3,531,100	16,517,656	344,540	20,393,296	639,620	5,245,326	97,301	5,982,247	3,662,569	42,997	3,705,566
2510	(1,925,362)	1,438,808	6,730,404	258,630	8,427,841	260,624	2,137,299	51,568	2,449,491	1,492,377	46,313	1,538,690
2512	(13,727,635)	10,258,551	47,987,090	2,720,563	60,966,204	1,858,224	15,238,720	747,893	17,844,837	10,640,496	432,037	11,072,532
2514	(1,278,921)	955,727	4,470,667	191,296	5,617,690	173,119	1,419,699	2,062	1,594,881	991,311	37,472	1,028,783
2515	(1,147,377)	857,426	4,010,836	225,548	5,093,809	155,313	1,273,676	132,922	1,561,911	889,349	24,633	913,983
2520	(2,648,902)	1,979,503	9,259,649	101,994	11,341,146	358,565	2,940,483	90,724	3,389,772	2,053,203	2,486	2,055,689
2525	(3,761,863)	2,811,210	13,150,178	211,614	16,173,002	509,220	4,175,954	99,154	4,784,328	2,915,876	17,643	2,933,519
2530	(7,341,245)	5,486,053	25,662,468	447,595	31,596,117	993,738	8,149,342	126,248	9,269,328	5,690,309	69,818	5,760,127
2533	(1,745,616)	1,304,485	6,102,073	247,893	7,654,450	236,293	1,937,767	142,475	2,316,534	1,353,053	13,057	1,366,110
2535	(2,160,494)	1,614,520	7,552,345	75,456	9,242,321	292,453	2,398,313	64,052	2,754,818	1,674,631	5,322	1,679,954
2540	(5,065,491)	3,785,401	17,707,214	2,579	21,495,194	685,684	5,623,081	573,673	6,882,437	3,926,338	(112,305)	3,814,033
2541	(3,105,973)	2,321,069	10,857,415	233,345	13,411,828	420,436	3,447,867	194,991	4,063,294	2,407,487	2,999	2,410,486
2542	(1,855,922)	1,386,915	6,487,665	175,526	8,050,107	251,224	2,060,215	47,669	2,359,108	1,438,553	31,150	1,469,703
2545	(953,916)	712,854	3,334,564	82,670	4,130,088	129,126	1,058,920	30,517	1,218,563	739,395	9,995	749,390
2547	(7,007,769)	5,236,849	24,496,750	205,827	29,939,426	948,598	7,779,157	1,012,628	9,740,383	5,431,827	(166,647)	5,265,180
2550	(836,895)	625,405	2,925,497	138,770	3,689,672	113,285	929,017	117,688	1,159,990	648,690	11,300	659,989
2551	(1,275,419)	953,110	4,458,427	132,273	5,543,811	172,645	1,415,812	239,917	1,828,375	988,597	(12,402)	976,194
2555	(1,281,993)	958,023	4,481,405	162,495	5,601,922	173,535	1,423,109	5,343	1,601,987	993,692	27,561	1,021,252
2557	(10,700,896)	7,996,693	37,406,652	282,761	45,686,107	1,448,513	11,878,810	584,784	13,912,107	8,294,425	(43,038)	8,251,387
2559	(1,074,258)	802,785	3,755,238	191,749	4,749,772	145,416	1,192,509	93,124	1,431,049	832,674	11,719	844,392
2560	(1,300,149)	971,591	4,544,874	97,531	5,613,995	175,993	1,443,264	60,476	1,679,734	1,007,765	9,636	1,017,401
2561	(4,268,901)	3,190,115	14,922,610	175,148	18,287,873	577,854	4,738,805	208,532	5,525,192	3,308,889	(3,837)	3,305,053
2562	(5,072,762)	3,790,834	17,732,632	66,997	21,590,464	686,668	5,631,153	444,859	6,762,680	3,931,974	(67,300)	3,864,665
2563	(5,523,139)	4,127,397	19,306,994	—	23,434,391	747,633	6,131,105	695,674	7,574,411	4,281,068	(141,858)	4,139,210
2564	(7,224,457)	5,398,779	25,254,218	41,089	30,694,086	977,929	8,019,698	1,358,044	10,355,671	5,599,778	(231,077)	5,368,701
2565	(4,182,987)	3,125,913	14,622,284	701,855	18,450,051	566,225	4,643,434	228,630	5,438,289	3,242,296	115,551	3,357,847
2570	(2,947,026)	2,202,289	10,301,790	118,993	12,623,073	398,920	3,271,424	236,026	3,906,371	2,284,284	(29,186)	2,255,098
2573	(3,057,730)	2,285,017	10,688,772	1,470	12,975,259	413,906	3,394,313	142,492	3,950,711	2,370,092	(28,010)	2,342,082
2574	(1,013,628)	757,476	3,543,295	109,089	4,409,860	137,208	1,125,204	—	1,262,413	785,678	20,865	806,543
2575	(10,671,117)	7,974,440	37,302,555	112,663	45,389,658	1,444,482	11,845,753	2,580,109	15,870,344	8,271,343	(462,760)	7,808,582
2576	(2,169,888)	1,621,540	7,585,183	—	9,206,723	293,724	2,408,741	290,386	2,992,852	1,681,913	(56,909)	1,625,004
2580	(5,792,024)	4,328,333	20,246,924	40,684	24,615,941	784,030	6,429,588	451,704	7,665,322	4,489,485	(83,574)	4,405,911

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources					Deferred inflows of resources					Pension expense		
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense	
2582	\$ (1,280,724)	957,075	4,476,972	297,632	5,731,679	173,364	1,421,702	—	1,595,065	992,709	59,398	1,052,106	
2584	(3,365,656)	2,515,128	11,765,177	41,563	14,321,868	455,588	3,736,135	145,777	4,337,500	2,608,771	(26,419)	2,582,352	
2585	(11,526,035)	8,613,313	40,291,055	1,055,191	49,959,558	1,560,207	12,794,777	95,823	14,450,807	8,934,003	189,769	9,123,772	
2590	(3,777,650)	2,823,007	13,205,364	42,492	16,070,864	511,357	4,193,479	361,791	5,066,626	2,928,113	(68,434)	2,859,679	
2593	(9,294,224)	6,945,499	32,489,410	38,512	39,473,420	1,258,101	10,317,297	1,556,879	13,132,277	7,204,092	(308,391)	6,895,702	
2595	(788,705)	589,393	2,757,040	24,926	3,371,358	106,762	875,522	62,668	1,044,952	611,337	(9,543)	601,793	
2600	(1,465,121)	1,094,873	5,121,560	48,099	6,264,532	198,324	1,626,396	437,914	2,262,635	1,135,638	(68,965)	1,066,672	
2605	(686,534)	513,041	2,399,887	54,818	2,967,746	92,932	762,105	71,838	926,875	532,143	(3,019)	529,123	
2610	(9,683,046)	7,236,062	33,848,599	—	41,084,662	1,310,733	10,748,919	1,056,239	13,115,891	7,505,474	(209,483)	7,295,992	
2611	(2,578,006)	1,926,523	9,011,823	525,111	11,463,458	348,969	2,861,783	485,162	3,695,914	1,998,251	34,215	2,032,466	
2612	(3,005,503)	2,245,988	10,506,204	195,476	12,947,669	406,836	3,336,337	56,917	3,800,090	2,329,610	19,560	2,349,170	
2613	(2,959,590)	2,211,677	10,345,707	—	12,557,385	400,621	3,285,370	312,663	3,998,654	2,294,022	(62,226)	2,231,796	
2614	(3,803,273)	2,842,155	13,294,934	290,494	16,427,583	514,825	4,221,923	9,742	4,746,490	2,947,974	49,245	2,997,219	
2615	(10,443,149)	7,804,081	36,505,658	—	44,309,739	1,413,624	11,592,691	726,765	13,733,079	8,094,642	(139,300)	7,955,341	
2616	(3,636,304)	2,717,381	12,711,268	435,088	15,863,738	492,224	4,036,575	23,401	4,552,199	2,818,554	74,256	2,892,810	
2617	(3,791,884)	2,833,644	13,255,122	741,299	16,830,065	513,284	4,209,280	—	4,722,563	2,939,146	136,466	3,075,612	
2618	(1,021,795)	763,580	3,571,846	24,887	4,360,312	138,314	1,134,271	154,440	1,427,025	792,009	(25,149)	766,860	
2619	(2,153,009)	1,608,927	7,526,181	167,458	9,302,565	291,439	2,390,005	114,383	2,795,827	1,668,830	3,478	1,672,308	
2620	(712,271)	532,274	2,489,853	115,766	3,137,893	96,416	790,675	24,392	911,482	552,092	15,136	567,227	
2625	(1,226,817)	916,790	4,288,529	186,475	5,391,794	166,066	1,361,860	—	1,527,926	950,924	36,650	987,574	
2626	(884,524)	660,998	3,091,992	197,104	3,950,094	119,732	981,889	53,391	1,155,012	685,608	28,014	713,622	
2630	(972,089)	726,434	3,398,088	342,589	4,467,112	131,586	1,079,093	35,476	1,246,154	753,481	61,180	814,661	
2632	(1,879,931)	1,404,857	6,571,591	688,303	8,664,751	254,474	2,086,866	132,289	2,473,629	1,457,163	89,127	1,546,290	
2633	(7,147,171)	5,341,023	24,984,052	251,761	30,576,836	967,468	7,933,904	455,470	9,356,842	5,539,879	(36,058)	5,503,822	
2635	(904,416)	675,863	3,161,526	216,295	4,053,684	122,425	1,003,970	104,768	1,231,163	701,026	16,307	717,333	
2640	(2,313,620)	1,728,950	8,087,621	804,239	10,620,810	313,180	2,568,295	63,509	2,944,984	1,793,322	156,032	1,949,354	
2641	(1,360,463)	1,016,663	4,755,712	156,843	5,929,218	184,157	1,510,218	—	1,694,375	1,054,515	33,211	1,087,726	
2642	(5,602,708)	4,186,858	19,585,140	828,564	24,600,568	758,403	6,219,433	—	6,977,836	4,342,743	150,949	4,493,692	
2643	(5,238,766)	3,914,888	18,312,924	623,129	22,850,941	709,139	5,815,429	218,904	6,743,472	4,060,646	105,929	4,166,575	
2644	(4,839,906)	3,616,823	16,918,648	440,435	20,975,906	655,148	5,372,665	1,101,368	6,129,181	3,751,484	76,148	3,827,632	
2645	(6,180,604)	4,618,715	21,605,264	117,333	26,341,313	836,630	6,860,941	1,101,641	8,799,211	4,790,679	(188,631)	4,602,404	
2648	(1,161,358)	867,874	4,059,710	173,379	5,100,962	157,206	1,289,196	13,546	1,459,948	900,186	29,399	929,586	
2649	(2,456,972)	1,836,075	8,588,729	141,380	10,566,185	332,585	2,727,426	36,598	3,096,609	1,904,436	18,808	1,923,244	
2650	(570,562)	426,376	1,994,487	143,645	2,564,509	77,233	633,367	240,794	951,394	442,251	431,708	431,708	
2651	(8,855,285)	6,617,483	30,955,031	641,789	38,214,303	1,198,684	9,830,041	1,297,799	12,326,524	6,863,864	(188,651)	6,675,214	
2652	(998,365)	746,070	3,489,939	111,669	4,347,678	135,142	1,108,261	3,846	1,247,249	773,847	21,927	795,774	
2653	(1,479,852)	1,105,882	5,173,054	4,350	6,283,286	200,318	1,642,749	183,953	2,027,020	1,147,056	(35,650)	1,111,405	
2654	(9,282,622)	6,936,829	32,448,855	336,133	39,721,817	1,256,530	10,304,418	574,041	12,134,989	7,195,100	(41,387)	7,153,713	
2655	(5,187,769)	3,876,778	18,134,657	5,957	22,017,392	702,236	5,758,819	492,303	6,953,358	4,021,118	(89,813)	3,931,305	
2656	(4,843,440)	3,619,464	16,931,001	349,358	20,899,823	655,626	5,376,588	—	6,032,214	3,754,223	66,710	3,820,934	
3032	(698,233)	521,784	2,440,784	17,747	2,980,315	94,515	2,980,315	102,500	972,108	541,211	(14,381)	526,831	
3041	(290,441)	217,044	1,015,282	9,651	1,241,976	39,315	322,412	33,686	395,413	225,125	(4,518)	220,607	
3042	(807,669)	603,565	2,823,334	100,595	3,527,494	109,329	896,574	—	1,005,904	626,037	19,208	645,244	

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer
As of and for the fiscal year ended June 30, 2018

District code	Deferred outflows of resources				Deferred inflows of resources					Pension expense		
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
3043	\$ (830,882)	620,911	2,904,476	76,454	3,601,841	112,471	922,342	31,230	1,066,043	644,029	5,968	649,997
3044	(552,648)	412,989	1,931,866	155,507	2,500,362	74,808	613,481	73,741	762,030	428,365	18,300	446,666
3048	(264,857)	197,925	925,847	56,300	1,180,073	35,852	294,011	54,798	384,661	205,294	303	205,598
3077	(688,799)	514,734	2,407,804	72,062	2,994,600	93,238	764,619	12,380	870,238	533,898	12,960	546,858
3078	(298,121)	222,783	1,042,128	33,757	1,298,667	40,355	330,937	24,071	395,363	231,078	1,877	232,955
3079	(179,247)	133,950	626,586	70,023	830,560	24,264	198,978	3,613	226,854	138,937	11,293	150,230
3081	(333,478)	249,206	1,165,725	66,327	1,481,258	45,141	370,186	9,625	424,952	258,484	11,552	270,036
3082	(607,931)	454,302	2,125,118	104,240	2,683,661	82,292	674,850	32,840	789,982	471,217	12,647	483,864
3101	(316,824)	236,760	1,107,509	22,217	1,366,486	42,887	113,363	351,699	507,949	245,575	(16,551)	229,025
3105	(298,299)	222,916	1,042,749	42,913	1,308,578	40,379	331,134	9,733	381,246	231,216	5,707	236,923
3106	(536,026)	400,568	1,873,761	301	2,274,630	72,558	595,029	125,182	792,770	415,482	(26,594)	388,887
3107	(475,082)	355,025	1,660,723	64,564	2,080,311	64,309	527,377	29,373	621,059	368,243	10,018	378,261
3126	(560,121)	418,574	1,957,990	582,603	2,959,167	75,820	621,777	103,106	800,703	434,158	92,749	526,907
3128	(494,321)	369,402	1,727,975	132,871	2,230,248	66,913	548,734	57,024	672,671	383,155	13,542	396,697
3178	(870,321)	650,384	3,042,343	77,374	3,770,101	117,810	966,123	11,604	1,095,536	674,599	15,868	690,467
3179	(614,340)	459,091	2,147,520	514	2,607,125	83,159	681,964	77,097	842,220	476,184	(13,138)	463,046
3201	(343,846)	256,953	1,201,966	58,894	1,517,121	46,544	381,695	17,902	446,141	266,520	10,176	276,696
3202	(608,071)	454,407	2,125,607	23,976	2,603,990	82,311	675,005	33,354	790,670	471,325	(3,662)	467,663
3204	(620,785)	463,907	2,170,050	82,753	2,716,711	84,032	689,118	75,408	848,558	481,180	4,511	485,691
3206	(711,012)	531,334	2,485,453	6,689	3,023,476	96,245	789,277	101,028	986,551	551,116	(17,731)	533,385
3208	(301,713)	225,468	1,054,684	50,111	1,330,263	40,841	334,924	29,845	405,610	233,862	4,761	238,623
3226	(809,345)	604,817	2,829,192	193,110	3,627,119	109,556	898,435	26,807	1,034,798	627,336	34,101	661,437
3229	(509,423)	380,688	1,780,767	39,057	2,200,511	68,957	565,498	82,617	717,072	394,861	(12,549)	382,312
3231	(756,723)	565,493	2,645,242	57,447	3,268,181	102,433	840,020	75,007	1,017,459	586,547	235	586,782
3232	(374,467)	279,836	1,309,009	—	1,588,846	50,689	415,687	50,882	517,258	290,255	(9,707)	280,549
3276	(731,533)	546,669	2,557,187	29,429	3,133,285	99,023	812,057	86,251	997,331	567,022	(9,151)	557,871
3277	(849,285)	634,664	2,968,810	—	3,603,474	114,962	942,771	126,134	1,183,867	658,294	(23,941)	634,352
3278	(583,495)	436,041	2,039,698	23,053	2,498,792	78,984	647,724	34,030	760,738	452,276	(1,526)	450,750
3280	(680,130)	508,256	2,377,502	84,168	2,969,925	92,065	754,996	18,338	865,400	527,179	13,396	540,576
3281	(712,027)	532,092	2,489,002	113,985	3,135,080	96,383	790,404	194,306	1,081,093	551,903	(10,878)	541,025
3284	(755,157)	564,323	2,639,769	26,350	3,230,441	102,221	838,282	100,167	1,040,670	585,333	(17,960)	567,374
3303	(773,394)	577,951	2,703,519	133,431	3,414,901	104,689	858,526	12,508	975,724	599,469	26,553	626,022
3304	(393,462)	294,031	1,375,408	48,655	1,718,094	53,260	436,773	13,798	507,832	304,978	4,976	309,954
3305	(513,387)	383,650	1,794,625	27,726	2,206,001	69,494	569,899	13,177	652,569	397,934	3,156	401,090
3306	(511,253)	382,056	1,787,166	34,322	2,203,543	69,205	567,530	55,905	692,641	396,280	(5,549)	390,732
3307	(205,911)	153,875	719,793	60,684	934,352	27,873	228,576	21,967	250,543	159,604	9,204	168,809
3308	(413,789)	309,221	1,446,464	1,802	1,757,487	56,012	459,337	68,048	583,397	320,734	(13,021)	307,713
3309	(722,927)	540,238	2,527,104	2,280	3,069,622	97,858	802,504	82,394	982,756	560,352	(15,058)	545,294
3326	(619,058)	462,617	2,164,014	79,286	2,705,916	83,798	687,202	2,208	773,207	479,841	14,659	494,501
3327	(823,227)	615,191	2,877,719	119,700	3,612,610	111,435	913,845	—	1,025,280	638,096	26,077	664,172
3328	(419,990)	313,855	1,468,142	293,147	2,075,144	56,851	466,221	—	523,073	325,541	58,438	383,978
3329	(546,374)	408,301	1,909,936	71,944	2,390,181	73,959	606,517	—	680,476	423,503	12,544	436,047
3330	(848,139)	633,808	2,964,804	90,818	3,689,430	114,807	941,499	41,035	1,097,342	657,406	11,583	668,989

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources					Pension expense		
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
3331	\$ (1,005,376)	751,309	3,514,449	12,258	4,278,017	136,091	1,116,044	216,495	1,468,631	779,282	(43,281)	736,001
3332	(434,677)	324,831	1,519,482	28,348	1,872,661	58,840	482,525	31,484	572,849	336,925	266	337,191
3452	(1,056,162)	789,261	3,691,979	97,804	4,579,045	142,966	1,172,420	190,599	1,505,985	818,647	(17,410)	801,237
3453	(358,878)	268,187	1,254,515	24,186	1,546,888	48,579	398,382	41,323	488,284	278,172	(2,208)	275,964
3458	(762,869)	570,085	2,666,726	84,983	3,321,795	103,265	846,842	41,618	991,725	591,311	12,311	603,622
3460	(1,144,591)	855,343	4,001,095	111,338	4,967,776	154,936	1,270,583	38,891	1,464,410	887,189	15,756	902,946
3464	(304,800)	227,775	1,065,477	8,066	1,301,317	41,259	338,352	11,194	390,804	236,255	(288)	235,967
3465	(221,000)	165,152	772,540	9,182	946,874	29,915	245,327	48,245	323,488	171,300	(8,993)	162,308
3466	(592,366)	442,670	2,070,708	17,828	2,531,207	80,185	657,571	76,376	814,133	459,152	(10,200)	448,952
3467	(298,959)	223,409	1,045,056	19,602	1,288,068	40,468	331,867	66,083	438,417	231,727	(9,990)	221,738
3468	(65,079)	48,633	227,492	11,714	287,939	8,809	72,242	17,826	98,877	50,443	(372)	50,071
3470	(283,123)	211,575	989,699	15,018	1,216,293	38,325	314,288	84,945	437,557	219,453	(13,328)	206,125
3471	(248,898)	186,000	870,062	28,509	1,084,571	33,692	276,296	50,207	360,194	192,925	(2,574)	190,351
3472	(225,531)	168,538	788,379	28,793	985,709	30,529	250,357	20,623	301,508	174,813	1,611	176,423
3526	(551,037)	411,785	1,926,236	85,898	2,423,919	74,590	611,893	49,356	735,639	427,117	5,835	432,952
3527	(463,781)	346,580	1,621,218	59,171	2,026,969	62,779	514,832	22,660	600,271	359,483	9,433	368,916
3528	(407,118)	304,236	1,423,143	153,053	1,880,431	55,109	451,932	43,960	551,001	315,563	17,420	332,983
3531	(664,983)	496,936	2,324,552	33,737	2,855,226	90,015	738,182	224,756	1,052,952	515,438	(42,542)	472,896
3552	(206,613)	154,400	722,247	111,275	987,922	27,968	229,356	51,926	309,250	160,149	12,138	172,287
3559	(483,459)	361,285	1,690,008	189,933	2,241,226	65,443	536,677	40,273	642,393	374,737	25,820	400,557
3560	(637,958)	476,741	2,230,083	54,764	2,761,587	86,356	708,182	73,978	868,517	494,491	(4,396)	490,095
3561	(676,441)	505,499	2,364,605	227,131	3,097,235	91,566	750,901	38,753	881,219	524,320	31,933	556,253
3576	(276,786)	206,840	967,550	50,655	1,225,045	37,467	307,254	27,407	372,127	214,541	4,162	218,703
3577	(628,133)	469,399	2,195,736	25,368	2,690,503	85,026	697,275	77,385	859,687	486,875	(11,060)	475,815
3579	(313,527)	234,296	1,095,982	129,538	1,459,815	42,440	348,039	26,962	417,441	243,019	17,384	260,403
3585	(716,937)	535,761	2,506,164	76,952	3,118,877	97,047	795,854	92,879	985,780	555,708	(6,505)	549,203
3586	(794,397)	593,647	2,776,939	134,719	3,505,304	107,533	881,841	168,711	1,158,085	615,749	(6,997)	608,752
3589	(605,911)	452,793	2,118,057	108,083	2,678,933	82,018	672,608	69,261	823,887	469,651	7,709	477,360
3591	(285,388)	213,268	997,618	68,721	1,279,607	38,631	316,802	12,202	367,636	221,208	12,072	233,280
3592	(657,720)	491,509	2,299,161	49,750	2,840,419	89,031	730,119	34,564	853,714	509,808	938	510,746
3593	(1,196,575)	894,191	4,182,813	132,871	5,209,875	161,973	1,328,289	25,226	1,515,487	927,483	17,864	945,347
3594	(290,810)	217,320	1,016,571	36,977	1,270,868	39,365	322,821	17,923	380,109	225,411	3,024	228,435
3626	(1,323,633)	989,140	4,626,965	98,153	5,714,258	179,172	1,469,333	5,117	1,653,623	1,025,968	17,082	1,043,050
3629	(822,581)	614,708	2,875,459	140,816	3,630,983	111,348	913,127	87,826	1,112,201	637,595	3,497	641,092
3630	(1,339,112)	1,000,708	4,681,075	231,481	5,913,264	181,267	1,486,516	60,366	1,728,150	1,037,966	30,895	1,068,861
3631	(1,122,916)	839,146	3,925,328	86,476	4,850,950	152,002	1,246,522	30,916	1,429,441	870,389	8,888	879,077
3632	(2,004,750)	1,498,134	7,007,917	130,862	8,636,912	271,370	2,225,425	26,305	2,523,101	1,553,912	18,292	1,572,204
3635	(1,346,859)	1,006,496	4,708,152	229,443	5,944,091	182,316	1,495,115	11,374	1,688,804	1,043,970	41,692	1,085,662
3636	(1,108,818)	828,611	3,876,047	198,831	4,903,488	150,094	1,230,872	2,816	1,363,782	859,461	36,117	895,579
3658	(1,130,790)	845,030	3,952,854	20,556	4,818,440	153,068	1,255,263	116,328	1,524,659	876,492	(18,000)	858,492
3679	(1,212,589)	906,158	4,238,796	19,869	5,164,823	164,141	1,346,067	95,176	1,605,363	939,896	(11,884)	928,012
3702	(701,605)	524,304	2,452,570	3,742	2,980,615	94,972	778,835	169,301	1,043,108	543,825	(29,947)	513,878
3709	(538,530)	402,439	1,882,514	23,237	2,308,190	72,897	597,809	88,055	758,761	417,422	(14,806)	402,617

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources					Pension expense		
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
3805	\$ (419,354)	313,380	1,465,918	30,991	1,810,290	56,765	465,515	17,754	540,034	325,048	3,083	328,131
3821	(661,658)	494,452	2,312,930	304	2,807,686	89,565	734,491	279,661	1,103,717	512,861	(52,217)	460,645
3822	(244,806)	182,942	855,759	27,744	1,066,444	33,138	271,754	124,560	429,452	189,753	(18,051)	171,702
3854	(1,344,821)	1,004,974	4,701,032	227,341	5,933,348	182,040	1,492,854	320,047	1,994,941	1,042,391	(20,253)	1,022,138
3855	(743,575)	555,667	2,599,281	31,254	3,186,202	100,653	825,424	54,665	980,743	576,356	(5,834)	570,522
3856	(138,775)	103,705	485,109	20,686	609,501	18,785	154,051	6,121	178,957	107,567	2,748	110,315
3927	(826,614)	617,722	2,889,559	51,058	3,558,339	111,894	917,605	117,504	1,147,003	640,721	(13,614)	627,107
3928	(412,504)	308,261	1,441,973	103,337	1,853,571	55,838	457,911	154,710	668,459	319,738	(1,605)	318,133
3929	(770,606)	575,868	2,693,774	55,147	3,324,789	104,312	855,432	103,269	1,063,012	597,308	(10,469)	586,839
3930	(689,407)	515,188	2,409,930	37,768	2,962,886	93,321	765,294	59,692	918,307	534,370	(2,122)	532,248
3931	(925,797)	691,841	3,236,268	—	3,928,109	125,319	1,027,705	156,833	1,309,858	717,599	(30,239)	687,360
3932	(683,225)	510,569	2,388,321	23,492	2,922,382	92,484	758,432	80,739	931,655	529,578	(8,868)	520,711
3934	(127,494)	95,276	445,676	47,953	588,905	17,258	141,528	552	159,338	98,823	10,065	108,888
3979	(453,628)	338,992	1,585,726	81,166	2,005,884	61,405	503,561	—	564,966	351,614	15,267	366,880
3980	(409,868)	306,291	1,432,759	104,623	1,843,673	55,481	454,985	1,640	512,107	317,695	18,775	336,470
3981	(310,790)	232,251	1,086,415	69,913	1,388,578	42,070	345,001	75,707	462,777	240,898	(2,772)	238,126
3982	(154,397)	115,380	539,718	16,342	671,440	20,900	171,392	17,135	209,427	119,675	515	120,190
3983	(324,697)	242,643	1,135,028	117,319	1,494,991	43,952	360,438	4,044	408,435	251,677	25,340	277,018
3986	(349,820)	261,418	1,222,851	82,765	1,567,034	47,353	388,327	28,378	464,058	271,151	12,129	283,279
3987	(236,421)	176,676	826,448	145,016	1,148,139	32,003	262,446	45,992	340,441	183,254	14,001	197,255
3988	(316,198)	236,292	1,105,318	106,052	1,447,662	42,802	351,003	16,167	409,972	245,089	19,164	264,254
3989	(234,567)	175,290	819,966	44,490	1,039,746	31,752	260,387	13,584	305,724	181,817	5,768	187,585
3990	(338,215)	252,745	1,182,283	78,492	1,513,521	45,782	375,444	8,123	429,350	262,155	14,559	276,715
3991	(417,413)	311,929	1,459,133	14,359	1,785,421	56,503	463,360	99,356	619,219	323,543	(13,579)	309,964
3992	(351,386)	262,588	1,228,326	42,164	1,533,078	47,565	390,066	36,466	474,096	272,365	(661)	271,704
3994	(674,176)	503,806	2,356,686	35,539	2,896,030	91,259	748,386	110,523	950,168	522,564	(11,150)	511,414
3995	(330,250)	246,794	1,154,442	33,464	1,434,699	44,704	366,603	40,976	452,283	255,982	(1,306)	254,677
3996	(264,620)	197,749	925,021	35,111	1,157,881	35,820	293,749	11,143	340,711	205,111	3,682	208,793
3997	(295,129)	220,547	1,031,669	66,727	1,318,943	39,950	327,616	33,087	400,652	228,759	7,122	235,881
3998	(288,350)	215,481	1,007,971	13,901	1,237,353	39,032	320,090	44,018	403,140	223,504	(5,805)	217,700
3999	(317,768)	237,465	1,110,807	—	1,348,272	43,014	352,746	87,759	483,520	246,307	(18,534)	227,772
4004	(154,491)	115,450	540,048	40,353	695,851	20,913	171,497	—	192,410	119,749	7,999	127,747
4007	(229,465)	171,477	802,131	16,024	989,632	31,061	254,724	3,835	289,620	177,862	2,179	180,041
4008	(82,114)	61,363	287,043	13,547	361,954	11,115	91,153	2,960	105,228	63,648	2,663	66,311
4009	(1,376,965)	1,028,995	4,813,397	84,385	5,926,777	186,391	1,528,536	107,850	1,822,777	1,067,306	(329)	1,066,978
4010	(126,991)	94,899	443,917	24,144	562,960	17,190	140,970	27,868	186,027	98,433	(1,001)	97,432
4014	(629,200)	470,196	2,199,465	54,636	2,724,297	85,171	698,459	66,582	850,213	487,702	(5,896)	481,806
4015	(402,726)	300,954	1,407,791	18,566	1,727,311	54,514	447,056	87,375	588,946	312,159	(11,595)	300,564
4020	(757,679)	566,207	2,648,586	56,467	3,271,260	102,562	841,082	32,054	975,698	587,288	3,426	590,714
4021	(1,071,611)	800,806	3,745,984	1,558	4,548,348	145,057	1,189,570	122,646	1,457,274	830,622	(26,278)	804,344
4022	(782,161)	584,503	2,734,167	13,076	3,331,746	105,876	868,259	70,267	1,044,402	606,265	(12,469)	593,796
4027	(786,129)	587,468	2,748,037	82,666	3,418,172	106,413	872,663	102,449	1,081,526	609,341	536	609,877
4028	(141,760)	105,936	495,543	17,403	618,882	19,189	157,364	18,959	195,512	109,880	(66)	109,814

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources					Pension expense		
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
4029	\$ (866,717)	647,690	3,029,744	28,933	3,706,367	117,322	962,122	67,909	1,147,353	671,805	(6,682)	665,124
4030	(509,111)	380,455	1,779,678	14,077	2,174,211	68,915	565,152	13,898	647,966	394,620	(501)	394,119
4031	(465,099)	347,565	1,625,826	81,924	2,055,315	62,958	516,295	70,793	650,045	360,505	3,332	363,837
4034	(404,866)	302,553	1,415,272	43,761	1,761,586	54,804	449,432	77,988	582,224	313,818	(5,625)	308,192
4036	(613,965)	458,811	2,146,210	298,460	2,903,481	83,109	681,548	56,758	821,414	475,893	48,543	524,436
4101	(441,527)	329,949	1,543,425	92,210	1,965,584	59,767	490,128	163,156	713,051	342,234	(8,748)	333,486
4104	(361,980)	270,504	1,265,356	7,703	1,543,564	48,999	401,825	25,771	476,595	280,576	(2,651)	277,925
4124	(36,037)	26,930	125,973	9,635	162,538	4,878	40,004	10,430	55,312	27,933	419	28,352
4126	(1,230,402)	919,469	4,301,062	143,342	5,363,873	166,552	1,365,840	—	1,532,392	953,703	30,770	984,473
4128	(782,299)	584,606	2,734,648	63,863	3,383,117	105,895	868,411	87,350	1,061,657	606,372	(7,410)	598,962
4130	(660,131)	493,310	2,307,590	175,687	2,976,587	89,358	732,795	5,425	827,578	511,677	31,093	542,771
4132	(302,860)	226,325	1,058,694	83,391	1,368,410	40,996	336,198	38,340	415,534	234,751	6,000	240,751
4134	(306,676)	229,176	1,072,033	30,788	1,331,998	41,513	340,433	7,893	389,839	237,709	3,476	241,185
4135	(247,689)	185,096	865,837	108,433	1,159,366	33,528	274,954	23,591	332,073	191,988	19,713	211,701
4137	(353,505)	264,171	1,235,731	8,161	1,508,064	47,852	392,417	21,554	461,823	274,007	(2,110)	271,897
4142	(1,116,371)	834,255	3,902,449	25,202	4,761,906	151,116	1,239,257	54,087	1,444,460	865,316	(5,203)	860,113
4143	(869,947)	650,104	3,041,034	123,901	3,815,039	117,759	965,707	51,251	1,134,717	674,309	9,836	684,145
4144	(541,801)	404,884	1,893,951	62,099	2,360,934	73,340	601,441	78,053	752,834	419,958	(5,808)	414,151
4149	(307,780)	230,002	1,075,893	21,293	1,327,188	41,662	341,659	15,488	398,809	238,565	1,610	240,175
4151	(769,340)	574,922	2,689,349	145,410	3,409,680	104,141	854,026	2,554	960,721	596,327	26,512	622,839
4152	(716,577)	535,493	2,504,908	5,347	3,045,748	96,999	795,456	20,130	912,584	555,430	(2,531)	552,899
4153	(801,460)	598,925	2,801,628	36,851	3,437,404	108,489	889,682	28,148	1,026,318	621,224	3,843	625,067
4154	(442,327)	330,548	1,546,224	34,517	1,911,289	59,875	491,017	103,239	654,131	342,855	(11,593)	331,262
4155	(609,294)	455,320	2,129,881	11,043	2,596,243	82,476	676,362	52,391	811,230	472,273	472,273	462,546
4178	(586,878)	438,569	2,051,524	122,428	2,612,521	79,442	651,479	33,227	764,148	454,898	16,992	471,890
4180	(1,175,442)	878,399	4,108,943	78,816	5,066,157	159,112	1,304,831	18,425	1,482,368	911,103	13,067	924,170
4183	(758,665)	566,944	2,652,032	45,333	3,264,308	102,696	842,176	9,406	954,277	588,053	6,106	594,158
4184	(713,735)	533,369	2,494,974	94,426	3,122,768	96,614	792,301	47,183	936,098	553,227	5,256	558,483
4202	(479,878)	358,609	1,677,489	97,900	2,133,999	64,958	532,701	3,048	600,707	371,961	19,591	391,552
4203	(501,942)	375,097	1,754,616	48,072	2,177,785	67,945	557,194	56,026	681,164	389,063	1,157	390,219
4205	(351,065)	262,348	1,227,201	20,139	1,509,687	47,521	389,708	55,142	492,371	272,115	(6,347)	265,769
4206	(334,962)	250,314	1,170,912	49,773	1,471,000	45,342	371,833	9,149	426,324	259,634	8,847	268,481
4208	(1,774,166)	1,325,820	6,201,874	236,133	7,763,827	240,158	1,969,459	62,470	2,272,087	1,375,183	34,097	1,409,280
4258	(601,275)	449,328	2,101,849	469,328	2,643,944	81,391	667,461	70,160	819,677	466,057	7,744	473,801
4259	(567,267)	423,914	1,982,970	102,390	2,509,273	76,787	629,709	16,761	723,258	439,697	16,312	456,010
4260	(877,073)	655,429	3,065,944	226,814	3,948,187	118,724	973,617	33,023	1,125,364	679,832	33,348	713,180
4301	(1,773,371)	1,325,226	6,199,094	187,300	7,711,619	240,050	1,968,576	96,079	2,304,706	1,374,566	12,350	1,386,916
4351	(2,613,013)	1,952,684	9,134,196	214,197	11,301,077	353,707	2,900,644	140,989	3,395,340	2,025,386	4,740	2,030,125
4353	(1,522,350)	1,137,640	5,321,612	196,308	6,655,559	206,071	1,689,924	2,164	1,898,160	1,179,994	34,588	1,214,584
4355	(2,573,335)	1,923,033	8,995,496	60,817	10,979,345	348,336	2,856,598	126,823	3,331,758	1,994,631	(14,819)	1,979,812
4356	(4,254,034)	3,179,005	14,870,639	191,816	18,241,460	575,842	4,722,302	557,691	5,855,835	3,297,365	(53,346)	3,244,020
4357	(1,851,425)	1,383,555	6,471,943	392,864	8,248,362	250,616	2,055,222	16,532	2,322,370	1,435,067	65,514	1,500,581
4358	(1,420,446)	1,061,488	4,965,391	102,341	6,129,219	192,277	1,576,803	32,568	1,801,648	1,101,009	9,663	1,110,672

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources				Pension expense			
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
4360	\$ (1,527,678)	1,141,622	5,340,238	415,123	6,896,983	206,792	1,695,839	—	1,902,632	1,184,126	92,871	1,276,997
4361	(2,635,458)	1,969,456	9,212,654	—	11,182,110	356,745	2,925,559	76,277	3,358,581	2,042,783	(14,733)	2,028,050
4363	(1,551,031)	1,159,073	5,421,872	172,661	6,753,606	209,953	1,721,763	103,386	2,035,102	1,202,228	19,987	1,220,215
4364	(1,664,068)	1,243,544	5,817,008	252,582	7,313,134	225,254	1,847,242	35,673	2,108,169	1,289,844	39,263	1,329,107
4365	(1,320,509)	986,806	4,616,044	20,334	5,623,184	178,749	1,465,865	192,431	1,837,045	1,023,546	(30,500)	993,046
4366	(5,691,729)	4,253,383	19,896,326	335,777	24,485,485	770,454	6,318,252	228,959	7,317,665	4,411,744	20,518	4,432,262
4367	(9,464,914)	7,073,054	33,086,085	787,844	40,946,983	1,281,206	10,506,776	113,484	11,901,466	7,336,997	111,944	7,448,341
4368	(7,395,575)	5,526,653	25,852,385	164,415	31,543,453	1,001,093	8,209,651	152,819	9,363,563	5,732,421	1,558	5,733,978
4428	(439,301)	328,286	1,535,645	73,018	1,936,949	59,465	487,657	112,497	659,620	340,509	(2,980)	337,529
4430	(492,522)	368,057	1,721,686	90,052	2,179,796	66,670	546,737	34,952	648,358	381,761	9,282	391,042
4434	(187,504)	140,120	655,450	19,756	815,326	25,381	208,144	19,672	253,197	145,337	295	145,632
4437	(722,115)	539,631	2,524,265	24,115	3,088,011	97,748	801,602	2,174	901,525	559,722	4,116	563,838
4438	(567,232)	423,888	1,962,848	60,769	2,467,505	76,783	629,671	53,576	760,030	439,670	4,344	444,014
4439	(683,668)	510,899	2,389,867	135,065	3,035,831	92,544	758,923	74,807	926,274	529,921	7,627	537,548
4504	(499,903)	373,574	1,747,490	26,825	2,147,889	67,669	554,931	91,694	714,293	387,483	(11,050)	376,432
4531	(676,548)	505,579	2,364,980	57,249	2,927,809	91,580	751,020	—	842,600	524,403	10,446	534,849
4532	(1,045,695)	781,440	3,655,391	67,242	4,504,073	141,549	1,160,801	271,902	1,574,253	810,534	(34,386)	776,148
4533	(760,543)	568,347	2,658,595	80,784	3,307,727	102,950	844,260	75,535	1,022,745	589,508	5,787	595,295
4534	(741,417)	554,055	2,591,740	30,568	3,176,363	100,361	823,030	29,878	953,269	574,684	(1,257)	573,427
4557	(374,618)	279,949	1,309,535	42,884	1,632,369	50,710	415,854	77,988	544,552	290,372	(9,149)	281,223
4582	(783,746)	585,687	2,739,705	203,812	3,529,204	106,091	870,017	—	976,108	607,493	37,660	645,153
4583	(625,410)	467,364	2,186,220	46,438	2,700,022	84,658	694,253	151,341	930,252	484,765	(16,261)	468,504
4586	(677,130)	506,014	2,367,013	150,533	3,023,560	91,659	751,666	23,361	866,686	524,854	20,300	545,154
4588	(566,209)	423,123	1,979,271	203,674	2,606,067	76,644	628,535	32,747	737,926	438,877	27,764	466,640
4590	(634,094)	473,854	2,216,576	141,156	2,831,585	85,833	703,893	50,192	839,918	491,496	16,329	507,825
4592	(377,214)	281,889	1,318,609	4,944	1,605,442	51,061	418,736	93,115	562,912	292,384	(19,716)	272,668
4593	(733,753)	548,328	2,564,949	65,501	3,178,778	99,324	814,522	66,556	980,402	568,743	(2,588)	566,155
4594	(750,056)	560,511	2,621,938	434,929	3,617,378	101,530	832,619	449,663	1,383,813	581,380	(11,407)	569,973
4595	(792,637)	592,331	2,770,785	45,595	3,408,711	107,294	879,887	106,658	1,093,840	614,385	(12,962)	601,458
4596	(615,986)	460,322	2,153,276	32,400	2,645,998	83,382	683,792	25,345	792,519	477,460	2,880	480,340
4597	(932,782)	697,060	3,260,684	103,349	4,061,094	126,265	1,035,459	78,410	1,240,134	723,013	2,348	725,362
4598	(850,770)	635,773	2,973,998	4,273	3,614,044	115,163	944,419	122,354	1,181,936	659,444	(25,831)	633,613
4604	(1,100,652)	822,508	3,847,500	41,971	4,711,979	148,988	1,221,807	209,024	1,578,819	853,132	(36,226)	816,906
4617	(443,073)	331,105	1,548,831	570,013	2,449,949	59,976	491,845	—	551,821	343,433	124,718	468,151
4620	(770,330)	575,661	2,692,808	18,187	3,286,657	104,275	855,125	76,268	1,035,668	597,094	(8,807)	588,287
4651	(867,594)	648,346	3,032,810	256,466	3,937,621	117,441	963,095	167,306	1,247,842	672,485	5,065	677,550
4653	(2,964,057)	2,215,016	10,361,324	26,357	12,602,697	401,226	3,290,329	413,093	4,104,648	2,297,485	(70,880)	2,226,606
4654	(3,501,313)	2,616,503	12,239,388	—	14,855,891	473,951	3,886,725	688,691	5,049,366	2,713,921	(122,562)	2,591,359
4662	(659,589)	492,906	2,305,697	23,608	2,805,697	89,284	732,194	44,257	865,736	511,258	(3,373)	507,884
4663	(888,005)	663,599	3,104,159	36,058	3,803,816	120,204	985,753	34,644	1,140,600	688,306	729	689,035
4679	(716,108)	535,142	2,503,266	280,769	3,319,177	96,935	794,934	3,048	894,917	555,066	57,883	612,949
4680	(546,277)	408,229	1,909,598	30,253	2,348,079	73,946	606,409	50,040	730,396	423,428	(1,754)	421,674
4701	(1,047,497)	782,786	3,661,689	207,740	4,652,214	141,793	1,162,801	124,609	1,429,203	811,931	27,523	839,454

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources					Pension expense		
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
4703	\$ (822,391)	614,566	2,874,796	338,905	3,828,267	111,322	912,916	5,821	1,030,059	637,447	62,008	699,456
4704	(830,401)	620,552	2,902,797	12,808	3,536,156	112,406	921,809	27,670	1,061,884	643,656	(3,492)	640,165
4705	(1,119,798)	836,816	3,914,428	112,981	4,864,225	151,580	1,243,061	146,122	1,540,763	867,972	(2,697)	865,275
4854	(1,068,191)	798,250	3,734,028	35,480	4,567,758	144,594	1,185,773	171,656	1,502,024	827,971	(25,245)	802,726
4855	(331,710)	247,884	1,159,543	105,728	1,513,155	44,901	368,223	—	413,124	257,113	18,716	275,830
4857	(2,190,356)	1,636,836	7,656,732	11,162	9,304,729	296,495	2,431,462	555,909	3,283,866	1,697,778	(105,352)	1,592,426
4862	(1,911,648)	1,428,559	6,682,464	256,295	8,367,317	258,768	2,122,075	5,514	2,386,356	1,481,747	41,956	1,523,703
4863	(2,354,788)	1,759,714	8,231,530	293,792	10,285,036	318,753	2,613,994	134,804	3,067,551	1,825,232	35,700	1,860,932
4877	(976,335)	729,607	3,412,931	45,595	4,188,132	132,160	1,083,806	133,393	1,349,359	756,772	(17,159)	739,612
4879	(718,209)	536,712	2,510,612	94,555	3,141,879	97,219	797,267	898	895,385	556,695	17,988	574,683
4883	(25,497)	19,054	89,130	25,549	133,733	3,451	28,304	8,433	40,188	19,763	3,567	23,330
4884	(310,624)	232,127	1,085,834	6,395	1,324,355	42,047	344,816	48,886	435,749	240,769	(9,353)	231,416
4885	(828,722)	619,297	2,896,928	130,763	3,646,989	112,179	919,945	63,315	1,095,439	642,355	11,553	653,908
4890	(1,279,022)	955,803	4,471,022	175,048	5,601,873	173,133	1,419,812	35,637	1,628,583	991,389	29,199	1,020,588
4892	(1,181,015)	882,563	4,128,421	33,724	5,044,708	159,867	1,311,016	60,710	1,531,593	915,422	(6,809)	908,614
4894	(1,192,011)	890,780	4,166,859	205,111	5,262,749	161,355	1,323,223	16,105	1,500,682	923,945	40,196	964,141
4901	(743,580)	555,671	2,599,301	248,404	3,403,376	100,654	825,431	15,479	941,563	576,360	43,597	619,957
4905	(323,708)	241,904	1,131,571	178,546	1,552,021	43,818	359,340	162,557	565,716	250,911	1,764	252,675
4906	(1,085,123)	810,904	3,793,216	92,736	4,696,856	146,886	1,204,569	72,656	1,424,112	841,095	6,707	847,802
4907	(1,714,637)	1,281,334	5,993,780	1,772	7,276,887	232,100	1,903,377	203,741	2,339,218	1,329,041	(34,846)	1,294,195
4908	(471,720)	352,513	1,648,972	18,008	2,019,493	63,854	523,646	28,344	615,843	365,638	(961)	364,677
4909	(1,230,993)	919,911	4,303,126	50,967	5,274,005	166,632	1,366,495	54,530	1,587,657	954,161	(1,526)	952,635
4910	(567,083)	416,304	1,947,372	166,004	2,529,679	75,409	618,405	67,985	761,799	431,804	13,879	445,683
4976	(283,340)	211,738	990,459	25,104	1,227,300	38,354	314,529	26,564	379,447	219,621	(1,854)	218,067
4978	(320,383)	239,419	1,119,948	4,326	1,363,693	43,368	355,649	87,716	486,733	248,333	(14,955)	233,379
4979	(450,444)	336,613	1,574,598	38,239	1,949,449	60,974	500,027	15,219	576,220	349,146	3,322	352,468
4980	(231,522)	173,015	809,321	50,556	1,032,891	31,340	257,007	15,374	303,721	179,456	8,634	188,090
4981	(298,110)	222,775	1,042,090	—	1,264,866	40,353	330,925	117,358	488,636	231,070	(22,712)	208,358
4982	(414,806)	309,981	1,450,020	6,970	1,766,971	56,150	460,467	64,785	581,402	321,523	(11,635)	309,887
4983	(340,778)	254,661	1,191,243	40,336	1,486,240	46,129	378,290	124,955	549,373	264,142	(13,285)	250,857
5001	(612,426)	457,661	2,140,830	134,226	2,732,717	82,900	679,839	155,695	918,435	474,701	(11,768)	462,932
5002	(401,921)	300,352	1,404,978	141,902	1,847,233	54,406	446,163	213,826	714,394	311,535	(7,494)	304,042
5003	(502,487)	375,505	1,756,523	7,315	2,139,343	68,019	557,799	67,324	693,142	389,485	(13,702)	375,783
5026	(356,456)	266,377	1,246,048	49,869	1,562,293	48,251	395,693	15,667	459,611	276,294	7,913	284,207
5027	(708,482)	529,443	2,476,609	252,401	3,258,453	95,903	786,469	257,024	1,139,396	549,155	(10,250)	538,905
5028	(338,545)	252,992	1,183,435	93,398	1,529,814	45,827	375,810	35,912	457,549	262,411	13,801	276,212
5076	(931,170)	695,856	3,255,051	125,115	4,076,021	126,047	1,033,670	21,688	1,181,404	721,764	22,691	744,455
5078	(741,427)	554,062	2,591,772	28,072	3,173,907	100,362	823,040	9,373	932,775	574,691	3,036	577,727
5102	(2,339,280)	1,748,125	8,177,320	146,471	10,071,916	316,654	2,596,779	45,554	2,958,988	1,813,211	19,376	1,832,587
5103	(1,237,966)	925,122	4,327,503	117,594	5,370,220	167,576	1,374,237	—	1,541,812	959,566	21,382	980,948
5107	(853,398)	637,737	2,983,184	2,934	3,623,855	115,519	947,336	58,468	1,121,324	661,481	(11,631)	649,850
5108	(758,080)	566,507	2,649,986	87,595	3,304,088	102,616	841,526	114,579	1,058,722	587,599	(145)	587,454
5251	(573,810)	428,804	2,005,843	1,669	2,436,316	77,673	636,973	143,560	858,206	444,769	(25,941)	418,828

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources				Pension expense			
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
5253	\$ (778,377)	581,675	2,720,939	17,363	3,319,977	105,364	864,058	64,004	1,033,426	603,332	(10,511)	592,821
5276	(994,358)	743,075	3,475,932	37,412	4,256,420	134,600	1,103,813	82,499	1,320,911	770,742	(11,236)	759,505
5281	(347,885)	259,972	1,216,087	138,065	1,614,125	47,091	386,179	41,423	474,694	269,651	22,047	291,698
5282	(374,626)	279,955	1,309,564	196,110	1,785,629	50,711	415,863	—	466,574	290,378	40,448	330,826
5301	(416,979)	311,605	1,457,615	42,072	1,811,292	56,444	462,878	429	519,751	323,207	8,233	331,440
5303	(241,925)	180,789	845,686	55,349	1,081,824	32,748	268,555	5,831	307,134	187,520	8,382	195,901
5305	(297,938)	222,647	1,041,490	64,752	1,328,888	40,330	330,734	—	330,734	230,936	13,599	244,536
5306	(500,297)	373,868	1,748,868	78,447	2,201,183	67,722	555,368	8,059	631,149	387,788	14,944	402,732
5307	(646,955)	483,464	2,261,533	187,466	2,926,464	87,574	718,170	40,183	845,927	501,465	25,338	526,803
5308	(490,240)	366,352	1,713,710	60,681	2,140,743	66,361	544,204	7,415	617,979	379,992	12,093	392,085
5309	(214,851)	160,557	751,046	38,546	950,149	29,083	238,501	12,912	280,496	166,534	3,779	170,314
5351	(2,980,935)	2,227,629	10,420,325	253,920	12,901,873	403,511	3,309,065	143,485	3,856,060	2,310,568	24,774	2,335,342
5352	(30,789)	23,008	107,627	5,985	136,620	4,168	34,178	4,983	43,328	23,865	298	24,162
5353	(323,212)	241,534	1,129,839	51,059	1,422,432	43,751	358,790	4,875	407,417	250,527	7,927	258,453
5354	(1,000,986)	748,029	3,499,104	—	4,247,134	135,497	1,111,171	323,691	1,570,359	775,880	(59,867)	716,013
5355	(1,857,840)	1,388,349	6,494,369	131,753	8,014,471	251,484	2,062,344	34,999	2,348,827	1,440,040	16,115	1,456,154
5356	(632,852)	472,925	2,212,233	137,751	2,822,910	85,665	702,514	99,656	887,835	490,533	5,695	496,228
5357	(2,624,223)	1,961,061	9,173,381	642,854	11,777,296	355,225	2,913,088	—	3,268,312	2,034,075	114,042	2,148,116
5358	(5,630,972)	4,207,980	19,683,941	119,418	24,011,339	762,229	6,250,808	514,233	7,527,270	4,364,651	(83,882)	4,280,769
5359	(499,156)	373,015	1,744,877	54,552	2,172,444	67,568	554,101	46,845	668,514	386,903	397	387,300
5360	(357,808)	267,387	1,250,773	52,595	1,570,754	48,434	397,194	8,920	454,548	277,342	9,894	287,236
5361	(2,643,069)	1,975,144	9,239,260	188,566	11,402,970	357,776	2,934,008	—	3,291,784	2,048,682	36,234	2,084,916
5362	(293,240)	219,136	1,025,065	68,196	1,312,396	39,694	325,518	71,250	436,462	227,294	2,929	230,224
5363	(2,323,595)	1,736,404	8,122,490	213,581	10,072,475	314,531	2,579,368	136,756	3,030,654	1,801,054	7,944	1,808,997
5364	(620,020)	463,336	2,167,376	2,714	2,633,425	83,928	688,269	150,496	922,694	480,587	(30,349)	450,238
5365	(24,305)	18,163	84,963	25,935	129,061	3,290	26,981	2,323	32,594	18,839	4,428	23,268
5367	(626,358)	468,073	2,189,533	143,754	2,801,359	84,786	695,305	74,098	854,190	485,500	17,899	503,489
5368	(497,922)	372,093	1,740,565	47,551	2,160,209	67,401	552,732	23,131	643,263	385,947	6,534	392,481
5369	(154,144)	115,191	538,836	16,116	670,143	20,866	171,112	65,618	257,595	119,480	(10,603)	108,877
5371	(190,773)	142,563	666,876	28,221	837,660	25,824	211,772	39,108	276,704	147,871	(1,447)	146,424
5372	(1,289,212)	963,417	4,506,640	356,174	5,826,231	174,512	1,431,123	73,645	1,679,280	999,287	48,276	1,047,563
5375	(1,837,944)	1,373,480	6,424,819	296,098	8,094,397	248,791	2,040,257	—	2,289,048	1,424,618	61,065	1,485,683
5376	(786,051)	587,410	2,747,764	63,594	3,398,767	106,403	872,576	300,061	1,279,040	609,280	(50,421)	558,859
5379	(43,923)	32,823	153,538	38,081	224,442	5,946	48,757	59,569	114,272	34,045	(850)	33,195
5380	(359,024)	268,296	1,255,024	58,905	1,582,224	48,599	398,544	34,273	481,415	278,285	6,447	284,732
5403	(4,226,269)	3,158,257	14,773,583	303,771	18,235,611	572,084	4,691,481	288,564	5,552,128	3,275,845	(240)	3,275,604
5406	(1,749,884)	1,307,674	6,116,993	154,846	7,579,513	236,871	1,942,505	110,723	2,290,098	1,356,361	10,309	1,366,670
5407	(2,788,691)	2,083,968	9,748,303	326,299	12,158,569	377,488	3,095,659	82,318	3,555,465	2,161,556	42,280	2,203,836
5408	(2,965,053)	2,215,760	10,364,804	260,242	12,840,806	401,361	3,291,434	117,393	3,810,188	2,298,257	23,921	2,322,178
5409	(3,464,167)	2,588,744	12,109,536	55,706	14,753,985	468,923	3,845,489	68,992	4,383,403	2,685,128	(341)	2,684,786
5415	(1,927,854)	1,440,670	6,739,115	183,885	8,363,670	260,962	2,140,065	31,375	2,432,401	1,494,309	31,782	1,526,091
5416	(715,259)	534,507	2,500,300	96,232	3,131,039	96,820	793,992	17,525	908,337	554,408	15,435	569,843
5418	(3,611,408)	2,698,776	12,624,239	271,208	15,594,223	488,854	4,008,938	101,269	4,599,060	2,799,256	27,116	2,826,372

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources				Pension expense			
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
5420	\$ (3,349,164)	2,502,803	11,707,526	398,846	14,609,176	453,355	3,717,828	45,324	4,216,507	2,595,987	68,661	2,664,648
5427	(168,277)	125,752	588,237	7,483	721,472	22,779	186,800	4,832	214,411	130,434	372	130,805
5457	(2,790,656)	2,085,435	9,755,175	156,368	11,996,978	377,754	3,097,841	937,806	4,413,401	2,163,080	(152,087)	2,010,992
5458	(2,892,427)	2,161,487	10,110,929	269,332	12,541,748	391,530	3,210,814	158,603	3,760,947	2,241,963	29,026	2,270,990
5501	(1,127,897)	842,869	3,942,741	200,076	4,985,686	152,676	1,252,052	8,279	1,413,008	874,250	32,817	907,076
5504	(1,057,786)	790,475	3,697,657	285,200	4,773,332	143,186	1,174,223	—	1,317,409	819,906	51,983	871,889
5505	(300,924)	224,878	1,051,927	98,544	1,375,350	40,734	334,049	19,620	394,403	233,251	13,428	246,679
5506	(509,992)	381,113	1,782,755	64,300	2,228,168	69,034	566,129	45,520	680,684	395,302	441	395,743
5507	(561,072)	419,285	1,961,316	131,308	2,511,909	75,949	622,833	30,008	728,790	434,896	16,800	451,695
5527	(640,542)	478,672	2,239,114	84,065	2,801,850	86,706	711,050	38,261	836,018	496,494	12,533	509,026
5528	(715,066)	534,363	2,499,626	74,503	3,108,493	96,794	793,778	133,170	1,023,742	554,259	(15,254)	539,004
5530	(943,038)	704,725	3,296,536	49,466	4,050,726	127,653	1,046,844	265,243	1,439,740	730,963	(34,844)	696,118
5533	(359,305)	268,505	1,256,005	186,841	1,711,352	48,637	398,856	17,048	464,540	278,502	27,603	306,105
5534	(610,596)	456,293	2,134,432	80,522	2,671,247	82,652	677,808	22,582	783,042	473,282	11,283	484,565
5535	(1,085,767)	811,385	3,795,467	19,182	4,626,034	146,973	1,205,284	25,989	1,378,246	841,594	(2,812)	838,782
5541	(589,140)	440,259	2,059,430	36,228	2,535,917	79,748	653,990	65,940	799,678	456,651	(8,130)	448,520
5601	(1,656,940)	1,238,218	5,792,093	6,044	7,036,355	224,290	1,839,330	92,755	2,156,374	1,284,319	(18,200)	1,266,119
5676	(443,994)	331,793	1,552,050	11,576	1,895,420	60,101	492,867	15,340	568,308	344,146	—	344,147
5677	(387,794)	289,795	1,355,594	—	1,645,389	52,493	430,481	78,447	561,421	300,585	(14,976)	285,608
5678	(460,010)	343,761	1,608,035	177,940	2,129,737	62,269	510,646	131,499	704,413	356,560	3,955	360,515
5679	(903,689)	675,319	3,158,985	105,346	3,939,650	122,327	1,003,163	3,152	1,128,642	700,463	18,956	719,418
5680	(825,747)	617,074	2,886,528	216,557	3,720,159	111,776	916,642	5,477	1,033,896	640,049	40,796	680,845
5681	(407,637)	304,624	1,424,959	22,312	1,751,895	55,179	452,508	23,679	531,367	315,966	851	316,817
5682	(494,768)	369,736	1,729,539	5,676	2,104,952	66,974	549,230	62,741	678,945	383,502	(10,937)	372,565
5683	(764,792)	571,523	2,673,450	26,609	3,271,582	103,525	848,977	56,890	1,009,393	592,802	(7,006)	585,796
5684	(318,322)	237,880	1,112,745	21,478	1,372,103	43,089	353,362	4,435	400,886	246,736	4,175	250,912
5685	(522,157)	390,204	1,825,282	75,882	2,291,368	70,681	579,634	21,055	671,370	404,732	12,604	417,335
5687	(936,910)	700,145	3,275,115	15,968	3,991,228	126,824	1,040,042	44,910	1,211,775	726,213	(6,589)	719,624
5688	(327,191)	244,507	1,143,748	83,023	1,471,279	44,290	363,207	—	407,497	253,611	16,279	269,889
5691	(139,720)	104,411	488,412	8,971	601,794	18,913	155,100	29,697	189,299	108,299	(4,198)	104,101
5692	(749,499)	560,094	2,619,989	64,513	3,244,596	101,455	832,000	24,137	957,592	580,948	9,894	590,841
5693	(224,280)	167,602	784,004	85,364	1,036,971	30,359	248,967	6,250	285,577	173,842	16,051	189,893
5694	(188,649)	140,976	659,451	71,760	872,187	25,536	209,415	2,016	236,967	146,225	13,278	159,503
5695	(202,937)	151,653	709,399	21,058	882,110	27,470	225,276	22,361	225,276	157,300	(974)	156,326
5801	(2,646,255)	1,977,525	9,250,397	—	11,227,922	358,207	2,937,544	332,949	3,628,700	2,051,152	(69,560)	1,981,591
5806	(1,537,016)	1,148,600	5,372,879	62,641	6,584,120	208,056	1,706,205	165,006	2,079,268	1,191,364	(15,455)	1,175,909
5807	(522,530)	390,483	1,826,586	485,508	2,702,576	70,732	580,048	109,250	760,030	405,021	93,401	498,422
5812	(610,632)	456,320	2,134,560	31,466	2,622,346	82,657	677,848	48,790	809,296	473,310	(4,809)	468,501
5813	(740,190)	553,138	2,587,450	162,102	3,302,690	100,195	821,667	6,981	928,844	573,732	32,515	606,247
5817	(2,191,185)	1,637,455	7,659,630	302,082	9,599,167	296,607	2,432,383	128,965	2,857,955	1,698,421	20,852	1,719,273
5820	(622,692)	465,333	2,176,719	706,517	3,348,569	84,290	691,236	—	775,526	482,658	137,317	619,975
5821	(1,068,941)	798,811	3,736,651	54,110	4,589,573	144,696	1,186,606	151,192	1,482,494	828,552	(22,479)	806,073
5822	(1,310,659)	979,445	4,581,613	499,010	6,060,068	177,416	1,454,931	15,352	1,647,699	1,015,911	90,784	1,106,696

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources				Pension expense			
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
5823	\$ (296,364)	221,470	1,035,987	109,993	1,367,450	40,117	328,987	6,555	375,659	229,716	19,296	249,012
6001	(2,886,515)	2,157,069	10,090,263	686,636	12,933,968	390,729	3,204,251	205,545	3,800,525	2,237,381	112,162	2,349,543
6005	(2,191,436)	1,637,643	7,660,507	—	9,298,150	296,641	2,432,661	337,887	3,067,189	1,698,615	(69,173)	1,629,442
6008	(2,191,206)	1,637,471	7,659,703	117,163	9,414,336	296,610	2,432,406	656,423	3,385,438	1,698,437	(82,639)	1,615,798
6011	(1,043,444)	779,757	3,647,520	50,950	4,478,228	141,244	1,158,302	123,210	1,422,757	808,789	(17,411)	791,378
6018	(1,094,144)	817,645	3,824,753	187,297	4,829,695	148,107	1,214,584	215,055	1,577,747	848,088	(2,403)	845,685
6022	(1,062,309)	793,855	3,713,467	391,379	4,898,701	143,798	1,179,244	76,327	1,399,369	823,412	53,194	876,606
6026	(2,050,911)	1,532,629	7,169,279	237,116	8,939,025	277,619	2,276,667	157,873	2,712,159	1,589,692	20,969	1,610,661
6027	(3,021,162)	2,257,690	10,560,942	566,186	13,384,818	408,956	3,353,720	27,908	3,790,583	2,341,748	99,291	2,441,039
6028	(2,531,029)	1,891,417	8,847,606	144,253	10,883,276	342,609	2,809,635	316,446	3,468,690	1,961,838	(24,219)	1,937,619
6036	(511,011)	381,874	1,786,319	316,682	2,484,875	69,172	567,261	9,332	645,766	396,092	65,967	462,059
6040	(724,695)	541,559	2,533,285	138,244	3,213,087	98,097	804,467	517	903,081	561,722	24,689	586,411
6041	(1,107,133)	827,351	3,870,155	55,262	4,752,768	149,866	1,229,002	211,332	1,590,199	858,155	(36,358)	821,797
6042	(1,006,790)	752,366	3,519,393	14,415	4,286,174	136,283	1,117,614	202,006	1,455,902	780,378	(34,084)	746,295
6044	(1,543,717)	1,153,607	5,396,304	610,052	7,159,963	208,963	1,713,643	174,388	2,096,994	1,196,558	94,121	1,290,679
6048	(1,304,789)	975,058	4,561,092	156,709	5,692,859	176,621	1,448,415	85,449	1,710,485	1,011,361	11,675	1,023,036
6050	(1,571,962)	1,174,715	5,495,040	239,387	6,909,142	212,787	1,744,998	401,191	2,358,976	1,218,452	(13,729)	1,204,722
6051	(3,486,337)	2,605,312	12,187,035	40,831	14,833,178	471,924	3,870,100	562,268	4,904,291	2,702,312	(114,340)	2,587,973
6052	(2,392,527)	1,787,916	8,363,451	260,527	10,411,894	323,861	2,655,887	351,440	3,331,189	1,854,483	(26,141)	1,828,342
6056	(10,028,903)	7,494,519	35,057,596	815,936	43,368,051	1,357,550	11,132,847	610,640	13,101,036	7,773,553	62,246	7,835,800
6057	(2,044,352)	1,527,728	7,146,353	—	8,674,081	276,731	2,269,387	461,051	3,007,169	1,584,608	(87,255)	1,497,353
6061	(3,776,856)	2,822,414	13,202,590	—	16,025,004	511,249	4,192,598	459,362	5,163,209	2,927,498	(94,235)	2,833,263
6065	(4,336,894)	3,240,926	15,160,291	214,905	18,616,122	587,058	4,814,283	399,333	5,800,674	3,361,592	(39,241)	3,322,350
6067	(2,226,265)	1,663,670	7,782,256	161,894	9,607,820	301,356	2,471,324	182,772	2,955,451	1,725,611	(9,933)	1,721,678
6068	(1,710,364)	1,278,141	5,978,845	—	7,256,986	231,521	1,898,634	829,084	2,959,239	1,325,729	(143,005)	1,182,723
6074	(2,497,472)	1,866,341	8,730,303	256,577	10,853,221	338,067	2,772,384	131,701	3,242,152	1,935,828	30,609	1,966,437
6075	(1,829,932)	1,367,493	6,396,811	506,545	8,270,850	247,706	2,031,363	—	2,279,070	1,418,407	90,032	1,508,440
6078	(4,836,199)	3,614,052	16,905,687	20,580	20,540,320	654,646	5,368,549	635,639	6,658,834	3,748,610	(118,782)	3,629,828
6079	(2,153,611)	1,609,376	7,528,284	118,915	9,256,576	291,521	2,390,673	40,147	2,722,340	1,669,296	12,555	1,681,851
6091	(9,513,181)	7,109,123	33,254,807	456,054	40,819,984	1,287,740	10,560,355	450,127	12,298,222	7,373,809	(20,906)	7,352,903
6093	(4,685,831)	3,501,684	16,380,054	1,644,800	21,526,537	634,292	5,201,630	—	5,835,921	3,632,058	307,295	3,939,353
6094	(3,020,225)	2,256,990	10,557,668	38,590	12,853,248	408,829	3,352,680	322,651	4,084,162	2,341,022	(61,427)	2,279,595
6095	(1,172,261)	876,021	4,097,822	360,732	5,334,576	158,682	1,301,299	—	1,459,981	908,637	66,791	975,428
6097	(1,005,063)	751,075	3,513,353	—	4,264,428	136,049	1,115,696	174,057	1,425,802	779,039	(36,668)	742,371
6099	(1,246,977)	931,856	4,359,002	693,413	5,984,270	168,795	1,384,239	164,482	1,717,517	966,550	112,737	1,079,287
6104	(2,013,277)	1,504,505	7,037,723	187,346	8,729,574	272,525	2,234,890	247,610	2,755,026	1,560,521	(9,616)	1,550,905
6105	(3,358,852)	2,510,043	11,741,390	74,925	14,326,358	454,667	3,728,581	776,754	4,960,002	2,603,496	(141,600)	2,461,896
6109	(3,154,827)	2,357,577	11,028,192	1,214,935	14,600,704	427,049	3,502,099	102,573	4,031,721	2,445,354	229,537	2,674,891
6507	(98,652)	73,722	344,854	—	58,822	477,398	13,354	109,511	19,054	141,919	76,467	6,403
6511	(48,923)	36,560	171,019	38,022	245,601	6,622	54,309	3,723	64,654	37,921	6,571	44,493
7000	(14,668,660)	10,961,771	51,276,589	393,174	62,631,534	1,985,604	16,283,330	3,722,005	21,990,939	11,369,898	(766,153)	10,603,745
7500	(123,071)	91,970	430,214	72,735	594,919	16,659	136,618	3,657	156,934	95,394	12,969	108,363
7501	(253,994)	189,808	887,876	224,557	1,302,241	34,382	281,953	—	316,334	196,875	42,076	238,950

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources				Pension expense			
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
7502	\$ (43,922)	32,823	153,538	5,187	191,547	5,946	48,757	49,431	104,134	34,045	(9,901)	24,144
8000	(1,760,115)	1,315,320	6,152,756	469,699	7,937,775	238,256	1,953,862	31,502	2,223,619	1,364,291	83,371	1,447,663
8102	(383,248)	286,398	1,339,704	59,905	1,686,007	51,878	425,435	110,896	588,209	297,062	(12,063)	284,999
8105	(392,854)	293,576	1,373,281	339,651	2,006,508	53,178	436,097	—	489,276	304,507	69,224	373,730
8110	(828,178)	618,891	2,895,026	—	3,513,917	112,105	919,341	254,085	1,285,531	641,933	(51,788)	590,145
8112	(151,428)	113,161	529,341	148,737	791,239	20,498	168,097	—	188,595	117,374	28,579	145,953
8113	(197,330)	147,463	689,798	2,234	839,495	26,711	219,051	29,572	275,335	152,953	(5,457)	147,496
8115	(203,135)	151,801	710,090	106,897	968,789	27,497	225,495	13,438	266,431	157,453	18,632	176,085
8120	(707,829)	528,955	2,474,328	—	3,003,283	95,814	785,744	371,410	1,252,969	548,649	(74,641)	474,008
8124	(1,699,188)	1,269,789	5,939,776	209,133	7,418,698	230,008	1,886,228	125,777	2,242,013	1,317,066	12,216	1,329,281
8129	(518,033)	387,122	1,810,867	196,385	2,394,374	70,123	575,057	137	645,317	401,535	40,601	442,136
8130	(2,397,743)	1,791,814	8,381,686	1,633,739	11,807,239	324,567	2,661,678	1,129,384	4,115,629	1,858,527	68,342	1,926,869
8131	(345,624)	258,282	1,208,181	31	1,466,494	46,785	383,668	42,067	472,520	267,898	(8,611)	259,287
8133	(466,288)	348,453	1,629,983	151,474	2,129,910	63,118	517,615	41,997	622,731	361,427	17,660	379,087
8134	(205,335)	153,445	717,780	125,719	996,944	27,795	227,937	—	255,732	159,158	24,540	183,698
8135	(1,136,266)	849,122	3,971,995	354,808	5,175,925	153,809	1,261,342	—	1,415,151	880,737	64,450	945,187
8140	(267,110)	199,609	933,725	90,226	1,223,560	36,157	296,513	51,234	383,903	207,041	9,489	216,530
8142	(545,565)	407,697	1,907,109	134,337	2,449,143	73,850	605,619	98,215	777,684	422,876	6,293	429,169
8145	(442,834)	330,926	1,547,994	139,517	2,018,438	59,944	491,579	39,882	591,405	343,247	22,150	365,397
8146	(1,190,405)	889,580	4,161,246	354,352	5,405,177	161,138	1,321,440	66,787	1,549,365	922,701	48,214	970,915
8149	(173,034)	129,307	604,867	111,553	845,727	23,423	192,081	73,842	289,345	134,121	11,456	145,577
8150	(2,447,474)	1,828,978	8,555,529	625,368	11,009,874	331,299	2,716,883	449,220	3,497,402	1,897,074	63,380	1,960,455
8151	(1,138,745)	850,975	3,980,661	256,048	5,087,685	154,145	1,264,094	77,284	1,495,522	882,658	25,074	907,733
8153	(358,963)	268,250	1,254,812	473,087	1,996,149	48,591	398,477	168,739	615,806	278,238	73,769	352,007
8155	(674,324)	503,917	2,357,206	147,400	3,008,523	91,279	748,551	120,666	960,496	522,679	(2,458)	520,220
8160	(761,806)	569,291	2,663,011	225,601	3,457,903	103,121	845,662	516,334	1,465,118	590,487	(48,267)	542,220
8162	(222,449)	166,235	777,606	93,911	1,037,752	30,112	246,936	92,240	369,287	172,424	1,589	174,012
8166	(3,180,073)	2,376,443	11,116,443	74,467	13,567,353	430,467	3,530,124	216,721	4,177,311	2,464,923	(23,675)	2,441,247
8167	(130,500)	97,522	456,184	64,070	617,776	17,665	144,865	15,135	177,665	101,153	8,610	109,763
8168	(232,778)	173,953	813,712	25,041	1,012,707	31,510	258,401	66,286	356,197	180,430	(10,186)	170,243
8169	(224,609)	167,849	785,157	100,433	1,053,439	30,404	249,334	14,340	294,077	174,098	14,096	188,194
8170	(1,454,438)	1,086,890	5,084,215	16,825	6,187,929	196,878	1,614,537	1,245,200	3,056,615	1,127,357	(213,896)	913,461
8400	(491,823)	367,535	1,719,244	80,845	2,167,624	66,575	545,961	182,371	794,907	381,219	(28,761)	352,458
8402	(326,795)	244,211	1,142,364	56,405	1,442,980	44,236	362,768	355,696	762,700	253,304	(54,355)	198,949
8403	(316,324)	236,387	1,105,762	—	1,342,148	42,819	351,144	275,681	669,844	245,188	(50,411)	194,777
8406	(188,253)	140,680	658,068	14,129	812,878	25,483	208,975	76,036	310,494	145,918	(12,971)	132,947
8407	(1,302,676)	973,479	4,553,706	14,206	5,541,391	176,335	1,446,069	982,121	2,604,525	1,009,723	(179,144)	830,579
8409	(673,563)	503,348	2,354,545	642	2,858,535	91,176	747,706	316,418	1,155,301	522,089	(62,163)	459,926
8410	(333,779)	249,430	1,166,777	60,011	1,476,217	45,182	370,520	404,593	820,294	258,717	(58,431)	200,286
8412	(539,144)	402,898	1,884,661	106,766	2,394,325	72,981	598,491	140,140	811,611	417,898	(10,024)	407,875
8415	(633,329)	473,282	2,213,901	—	2,687,183	85,730	703,044	645,798	1,434,571	490,903	(117,448)	373,455
8416	(259,483)	193,910	907,064	154,028	1,255,003	35,125	288,046	183,746	506,917	201,129	(9,528)	191,602
8419	(344,482)	257,428	1,204,190	16,616	1,478,234	46,630	382,401	332,593	761,624	267,013	(52,369)	214,644

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Schedule of Pension Amounts by Employer

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

District code	Deferred outflows of resources				Deferred inflows of resources				Pension expense			
	Net pension liability (asset)	Differences between expected and actual experience	Changes of assumptions	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred outflows of resources	Differences between expected and actual experience	Net difference between projected and actual investment earnings on pension plan investments	Changes in proportion and differences between employer contributions and proportionate share of contributions	Total deferred inflows of resources	Proportionate share of allocable plan pension expense	Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions	Total pension expense
8420	\$ (363,871)	271,918	1,271,968	287,081	1,830,967	49,255	403,925	182,648	635,827	282,042	14,817	296,859
8421	(299,163)	223,562	1,045,772	32,281	1,301,615	40,496	332,094	218,565	591,155	231,886	(30,721)	201,164
8422	(28,438)	21,252	99,410	760,351	881,012	3,849	31,568	110,415	145,833	22,043	101,853	123,895
8423	(186,520)	139,385	652,009	52,170	843,564	25,248	207,051	63,412	295,711	144,574	(6,119)	138,455
8424	(136,078)	101,690	475,681	1,768	579,139	18,420	151,057	69,114	238,590	105,476	(13,460)	92,015
8425	(240,939)	180,052	842,240	14,345	1,036,637	32,614	267,461	106,234	406,309	186,756	(18,767)	167,988
8426	(179,240)	133,945	626,562	35,597	796,104	24,263	198,970	95,276	318,509	138,932	(11,470)	127,462
8427	(75,744)	56,603	264,773	29,584	350,960	10,253	84,081	1,409	95,743	58,710	5,368	64,078
8428	(413,298)	308,854	1,444,746	—	1,753,600	55,946	458,792	117,745	632,482	320,353	(22,331)	298,023
8429	(253,980)	189,797	887,825	68,014	1,145,636	34,380	281,937	342,998	659,315	196,863	(47,577)	149,287
8430	(236,150)	176,473	825,500	—	1,001,974	31,966	262,145	252,212	546,323	183,044	(48,575)	134,469
8431	(226,048)	168,924	790,185	—	959,109	30,599	250,930	347,851	629,379	175,213	(68,676)	106,537
8432	(245,407)	183,390	857,857	—	1,041,248	33,219	272,420	618,542	924,181	190,218	(131,305)	58,914
8433	(85,229)	63,691	297,930	—	361,621	11,537	94,610	278,721	384,869	66,062	(46,740)	19,322
8434	(99,801)	74,580	348,869	—	423,449	13,509	110,786	328,631	452,927	77,357	(54,712)	22,645
8435	(98,244)	73,417	343,427	—	416,844	13,299	109,058	328,290	450,646	76,150	(53,818)	22,332
8436	(354,581)	264,975	1,239,492	—	1,504,467	47,997	393,611	1,184,859	1,626,468	274,841	(194,239)	80,602
Closed districts	—	—	—	995,711	995,711	—	—	16,061	16,061	—	192,649	192,649

See accompanying notes to schedule of employer allocations and schedule of pension amounts by employer.

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Employer Allocations and Schedule of Pension Amounts by Employer

June 30, 2018

(1) Plan Description

The New York State Teachers' Retirement System (NYSTRS or the System) was created and exists pursuant to Article 11 of the New York State Education Law. The System is the administrator of a cost-sharing, multiple-employer public employee retirement system (PERS), administered by a 10-member Board to provide pension benefits for teachers employed by participating employers in the State of New York, excluding New York City. For additional Plan information please refer to the NYSTRS Comprehensive Annual Financial Report which can be found on the System's website located at www.nystrs.org.

(a) Benefits

The benefits provided to members of the System are established by New York State law and may be amended only by the Legislature with the Governor's approval. Benefit provisions vary depending on date of membership and are subdivided into the following six classes:

(i) Tier 1

Members who last joined prior to July 1, 1973 are covered by the provisions of Article 11 of the Education Law.

(ii) Tier 2

Members who last joined on or after July 1, 1973 and prior to July 27, 1976 are covered by the provisions of Article 11 of the Education Law and Article 11 of the Retirement and Social Security Law (RSSL).

(iii) Tier 3

Members who last joined on or after July 27, 1976 and prior to September 1, 1983 are covered by the provisions of Article 14 and Article 15 of the RSSL.

(iv) Tier 4

Members who last joined on or after September 1, 1983 and prior to January 1, 2010 are covered by the provisions of Article 15 of the RSSL.

(v) Tier 5

Members who joined on or after January 1, 2010 and prior to April 1, 2012 are covered by the provisions of Article 15 of the RSSL.

(vi) Tier 6

Members who joined on or after April 1, 2012 are covered by the provisions of Article 15 of the RSSL.

(b) Service Retirements

Tier 1 members are eligible, beginning at age 55, for a service retirement allowance of approximately 2% per year of credited service times final average salary.

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Employer Allocations and Schedule of Pension Amounts by Employer

June 30, 2018

Under Article 19 of the RSSL, eligible Tiers 1 and 2 members can receive additional service credit of one-twelfth of a year for each year of retirement credit as of the date of retirement or death up to a maximum of two additional years.

Tiers 2 through 5 are eligible for the same but with the following limitations: (1) Tiers 2 through 4 members receive an unreduced benefit for retirement at age 62 or retirement at ages 55 through 61 with 30 years of service or a reduced benefit for retirement at ages 55 through 61 with less than 30 years of service. (2) Tier 5 members receive an unreduced benefit for retirement at age 62 or retirement at ages 57 through 61 with 30 years of service. They receive a reduced benefit for retirement at ages 55 and 56 regardless of service credit, or ages 57 through 61 with less than 30 years of service.

Tier 6 members are eligible for a service retirement allowance of 1.75% per year of credited service for the first 20 years of service plus 2% per year for years of service in excess of 20 years times final average salary. Tier 6 members receive an unreduced benefit for retirement at age 63. They receive a reduced benefit at ages 55 through 62 regardless of service credit.

(c) *Vested Benefits*

Retirement benefits vest after 5 years of credited service except for Tiers 5 and 6 where 10 years of credited service are required. Benefits are payable at age 55 or greater with the limitations noted for service retirements above.

(d) *Disability Retirement*

Members are eligible for disability retirement benefits after 10 years of credited New York State service except for Tier 3 where disability retirement is permissible after 5 years of credited New York State service pursuant to the provisions of Article 14 of the RSSL. The Tier 3 benefit is integrated with Social Security.

(e) *Death Benefits*

Death benefits are paid to the beneficiary of active members who die in service. The benefit is based on final salary and the number of years of credited service.

(f) *Prior Service*

After 2 years of membership, members of all tiers may claim and receive credit for prior New York State public or teaching service. Only Tiers 1 and 2 members may, under certain conditions, claim out of state service.

(g) *Tier Reinstatement*

In accordance with Chapter 640 of the Laws of 1998, any active member who had a prior membership may elect to be reinstated to their original date and Tier of membership.

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Employer Allocations and Schedule of
Pension Amounts by Employer

June 30, 2018

(h) Permanent Cost of Living Adjustment (COLA)

Section 532-a of the Education Law provides a permanent cost-of-living benefit to both current and future retired members. This benefit will be paid commencing September of each year to retired members who have attained age 62 and have been retired for 5 years or attained age 55 and have been retired for 10 years. Disability retirees must have been retired for 5 years, regardless of age, to be eligible. The annual COLA percentage is equal to 50% of the increase in the consumer price index, not to exceed 3% nor be lower than 1%. It is applied to the first eighteen thousand dollars of the annual benefit. The applicable percentage payable beginning September 2018 is 1.2%.

Members who retired prior to July 1, 1970 are eligible for a minimum benefit of seventeen thousand five hundred dollars for 35 years of credited full-time New York State service. Certain members who retire pursuant to the provisions of Article 14 of the RSSL are eligible for automatic cost-of-living supplementation based on the increase in the consumer price index with a maximum per annum increase of 3.0%.

(2) Contributions

(a) Employer Contributions

Pursuant to Article 11 of the New York State Education Law, employers are required to contribute at an actuarially determined rate adopted annually by the Retirement Board. The actuarially determined contribution rate applied to 2017–18 salaries is 9.80%. A reconciliation of total required employer contributions presented in the Schedule of the School Districts' Contributions and additions from employer contributions per the System's Statement of Changes in Fiduciary Net Position for fiscal year June 30, 2018 is as follows:

Total required employer contributions	\$ 1,596,310,607
Miscellaneous billing adjustments	<u>828,817</u>
Additions from employer contributions	<u>\$ 1,597,139,424</u>

(b) Member Contributions

Tier 3 and Tier 4 members are required by law to contribute 3% of salary to the System. Effective October 2000, contributions were eliminated for Tiers 3 and 4 members with 10 or more years of service or membership. Effective January 1, 2010, Tier 5 members are required by law to contribute 3.5% of salary throughout their active membership. Effective April 1, 2012, Tier 6 members are required by law to contribute between 3% and 6% of salary throughout their active membership in accordance with a schedule based upon salary earned. Pursuant to Article 14 and Article 15 of the RSSL, those member contributions are used to help fund the benefits provided by the System. However, if a member dies or leaves covered employment with less than 5 years of credited service for Tiers 3 and 4, or 10 years of credited service for Tiers 5 and 6, the member contributions with interest calculated at 5% per annum are refunded to the employee or designated beneficiary. Eligible Tier 1 and Tier 2 members may make member contributions under certain conditions pursuant to the provisions of Article 11 of the Education Law and Article 11 of the RSSL. Upon termination of

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Employer Allocations and Schedule of Pension Amounts by Employer

June 30, 2018

membership, such accumulated member contributions are refunded. At retirement, such accumulated member contributions can be withdrawn or are paid as a life annuity.

(3) Basis of Presentation

The Schedule of Employer Allocations and Schedule of Pension Amounts by Employer (collectively, the Schedules) present amounts that are elements of the financial statements of the System or of its participating employers. Accordingly, they do not purport to be a complete presentation of the financial position or changes in financial position of either the System or its participating employers. The amounts presented in the Schedules were prepared in accordance with U.S. generally accepted accounting principles. Such preparation requires management of the System to make a number of estimates and assumptions relating to the reported amounts. Due to the inherent nature of these estimates, actual results could differ from those estimates.

(4) Employer Allocation Percentages

The employer allocation percentages presented in the Schedule of Employer Allocations and applied to amounts presented in the Schedule of Pension Amounts by Employer are based on the ratio of each employer's actuarially determined contribution to the System's total actuarially determined employer contribution for the fiscal year ended June 30, 2018. The employer allocation percentages have been rounded for presentation purposes. Therefore, use of these percentages to recalculate individual employer amounts presented in the Schedule of Pension Amounts by Employer may result in immaterial differences due to this rounding.

(5) Summary of Significant Accounting Policies

The System's financial statements from which the System's fiduciary net position is determined are prepared using the accrual basis of accounting. Plan member contributions are recognized in the period in which the contributions are due. Employer contributions are recognized when due and the employer has a legal requirement to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the plan. Plan investments are reported at fair value. For detailed information on how investments are valued, please refer to the System's annual report.

(6) Collective Net Pension Liability (Asset) and Actuarial Information

The components of the collective net pension liability (asset) of the participating school districts at June 30, 2018 are as follows:

Total pension liability	\$ 118,107,253,288
System fiduciary net position	<u>119,915,517,622</u>
School districts' net pension liability (asset)	<u>\$ (1,808,264,334)</u>
System fiduciary net position as a percentage of total pension liability	101.53 %

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Employer Allocations and Schedule of
Pension Amounts by Employer

June 30, 2018

(a) Actuarial Methods and Assumptions

The total pension liability for the June 30, 2018 measurement date was determined by an actuarial valuation as of June 30, 2017, with update procedures used to roll forward the total pension liability to June 30, 2018, using the following actuarial methods and assumptions:

Actuarial cost method	Entry age normal										
Inflation	2.25%										
Projected salary increases	Rates of increase differ based on service. They have been calculated based upon recent NYSTRS member experience.										
	<table border="1"> <thead> <tr> <th align="center">Service</th> <th align="center">Rate</th> </tr> </thead> <tbody> <tr> <td align="center">5</td> <td align="center">4.72 %</td> </tr> <tr> <td align="center">15</td> <td align="center">3.46</td> </tr> <tr> <td align="center">25</td> <td align="center">2.37</td> </tr> <tr> <td align="center">35</td> <td align="center">1.90</td> </tr> </tbody> </table>	Service	Rate	5	4.72 %	15	3.46	25	2.37	35	1.90
Service	Rate										
5	4.72 %										
15	3.46										
25	2.37										
35	1.90										
Projected COLAs	1.5% compounded annually										
Investment rate of return	7.25% compounded annually, net of pension plan investment expense, including inflation.										

Annuitant mortality rates are based on plan member experience, with adjustments for mortality improvements based on Society of Actuaries Scale MP2014, applied on a generational basis. Active member mortality rates are based on plan member experience.

The actuarial assumptions were based on the results of an actuarial experience study for the period of July 1, 2009 and June 30, 2014.

The long-term expected rate of return on pension plan investments was determined in accordance with Actuarial Standard of Practice (ASOP) No. 27, *Selection of Economic Assumptions for Measuring Pension Obligations*. ASOP No. 27 provides guidance on the selection of an appropriate assumed investment rate of return. Consideration was given to expected future real rates of return (expected returns, net of pension plan investment expense and inflation) for each major asset class as well as historical investment data and plan performance.

The Long Term Expected Real Rates of Return are presented by asset allocation classification, which differs from the financial statement presentation. Best estimates of arithmetic real rates of return for

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Employer Allocations and Schedule of
Pension Amounts by Employer

June 30, 2018

each major asset class included in the System's target asset allocation as of the measurement date of June 30, 2018 are summarized in the following table:

	<u>Target allocation</u>	<u>Long-term expected real rate of return*</u>
Asset class:		
Domestic equities	33 %	5.8 %
International equities	16	7.3
Global equities	4	6.7
Real estate equities	11	4.9
Private equities	8	8.9
Domestic fixed income securities	16	1.3
Global fixed income securities	2	0.9
Private debt	1	6.8
Real estate debt	7	2.8
High-yield fixed income securities	1	3.5
Short-term	<u>1</u>	0.3
Total	<u><u>100 %</u></u>	

* Real rates of return are net of a long-term inflation assumption of 2.3% for 2018.

(b) Discount Rate

The discount rate used to measure the total pension liability as of June 30, 2018 was 7.25%. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current member contribution rates and that contributions from school districts will be made at statutorily required rates, actuarially determined. Based on those assumptions, the System's fiduciary 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.

(c) Sensitivity of the Collective Net Pension Liability (Asset) to Changes in the Discount Rate

The following presents the collective net pension liability (asset) of the NYSTRS participating school districts calculated using the discount rate of 7.25% for June 30, 2018, as well as what the school districts' net pension liability (asset) would be if it were calculated using a discount rate that is 1-percentage-point lower (6.25%) or 1-percentage-point higher (8.25%) than the current rate:

<u>1% Decrease (6.25%)</u>	<u>Current discount rate (7.25%)</u>	<u>1% Increase (8.25%)</u>
\$ 12,423,071,269	\$ (1,808,264,334)	\$ (13,730,168,756)

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Employer Allocations and Schedule of
Pension Amounts by Employer

June 30, 2018

(7) Collective Deferred Outflows of Resources and Deferred Inflows of Resources

Annual changes to the net pension liability (asset) resulting from differences between expected and actual experience with regard to economic and demographic factors and from changes of assumptions about future economic or demographic factors or other inputs are deferred and amortized over a closed period equal to the average of the expected service lives of all members and beneficiaries that are provided with pension benefits determined for the period during which the changes occurred. Differences between projected and actual earnings on pension plan investments are amortized over a closed 5-year period. The following presents a summary of changes in the collective deferred outflows of resources and deferred inflows of resources (excluding employer-specific amounts) for the year ended June 30, 2018:

<u>Deferred outflows of resources</u>	<u>Measurement period July 1–June 30</u>	<u>Amortization period</u>	<u>Beginning balance on prior measurement period deferrals</u>	<u>Current measurement period additions</u>	<u>Amortization of amounts recognized in current period pension expense</u>	<u>End of year balance</u>
Changes of assumptions	2016	7.2	\$ 5,117,250,169	\$ —	\$ (984,086,571)	\$ 4,133,163,598
	2017	7.1	<u>2,616,907,915</u>	<u>—</u>	<u>(429,001,298)</u>	<u>2,187,906,617</u>
Total			<u>7,734,158,084</u>	<u>—</u>	<u>(1,413,087,869)</u>	<u>6,321,070,215</u>
Differences between expected and actual experience	2017	7.1	625,374,937	—	(102,520,481)	522,854,456
	2018	7.1	<u>—</u>	<u>964,257,877</u>	<u>(135,810,969)</u>	<u>828,446,908</u>
Total			<u>625,374,937</u>	<u>964,257,877</u>	<u>(238,331,450)</u>	<u>1,351,301,364</u>
Total deferred outflows of resources			<u>\$ 8,359,533,021</u>	<u>\$ 964,257,877</u>	<u>\$ (1,651,419,319)</u>	<u>\$ 7,672,371,579</u>

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Employer Allocations and Schedule of
Pension Amounts by Employer

June 30, 2018

<u>Deferred inflows of resources</u>	<u>Measurement period July 1-June 30</u>	<u>Amortization period</u>	<u>Beginning balance on prior measurement period deferrals</u>	<u>Current measurement period additions</u>	<u>Amortization of amounts recognized in current period pension expense</u>	<u>End of year balance</u>
Net difference between projected and actual investment earnings on pension plan investments	2014	5	\$ 1,870,325,495	\$ —	\$ (1,870,325,495)	\$ —
	2015	5	(1,163,825,433)	—	581,912,718	(581,912,715)
	2016	5	(3,302,383,699)	—	1,100,794,567	(2,201,589,132)
	2017	5	4,386,137,285	—	(1,096,534,321)	3,289,602,964
	2018	5	—	1,876,512,579	(375,302,516)	1,501,210,063
Total			<u>1,790,253,648</u>	<u>1,876,512,579</u>	<u>(1,659,455,047)</u>	<u>2,007,311,180</u>
Differences between expected and actual experience	2014	9.6	106,069,842	—	(18,941,044)	87,128,798
	2015	9.4	109,646,487	—	(17,132,263)	92,514,224
	2016	7.2	80,637,599	—	(15,507,230)	65,130,369
Total			<u>296,353,928</u>	<u>—</u>	<u>(51,580,537)</u>	<u>244,773,391</u>
Total deferred inflows of resources			<u>\$ 2,086,607,576</u>	<u>\$ 1,876,512,579</u>	<u>\$ (1,711,035,584)</u>	<u>\$ 2,252,084,571</u>

The collective deferred outflows of resources and deferred inflows of resources (excluding employer-specific amounts) reported in the chart above will be amortized in the collective proportionate share of pension expense as follows:

Year ended June 30:	
2019	\$ 1,810,709,227
2020	1,228,796,510
2021	128,001,944
2022	1,224,536,267
2023	832,551,728
Thereafter	<u>195,691,332</u>
Total	<u>\$ 5,420,287,008</u>

Deferred outflows of resources and deferred inflows of resources resulting from changes in an individual employer's proportion are amortized over a closed period equal to the average of the expected service lives of all members and beneficiaries that are provided with pension benefits determined for the period during which the changes occurred. Because these deferred amounts and their amortization are specific to individual employers and offset on a collective basis, they are not included in the tables above.

NEW YORK STATE TEACHERS' RETIREMENT SYSTEM

Notes to Schedule of Employer Allocations and Schedule of
Pension Amounts by Employer

June 30, 2018

(8) Allocable Plan Pension Expense

The components of allocable plan pension expense, which excludes amounts attributable to member contributions specific to individual employers, for the period ended June 30, 2018, comprises the following:

Service cost	\$	1,319,512,653
Interest on total pension liability		8,224,221,062
Member contributions		(131,595,275)
Projected earnings on pension plan investments		(8,051,498,099)
Pension plan administrative expense		60,610,369
Other changes in fiduciary net position		(9,277,814)
Cumulative effect of change in accounting principle		49,256,180
Amortization of deferred inflows/outflows of resources:		
Amortization of differences between expected and actual experience		186,750,913
Amortization of changes of assumptions		1,413,087,869
Amortization of differences between expected and actual investment earnings on investments		<u>(1,659,455,047)</u>
Total allocable plan pension expense	\$	<u><u>1,401,612,811</u></u>