

2023

Employer and Non-Employer GASB 68 Schedules & Notes



A Pension Trust
Fund of the State
of Minnesota



Cover: Zimmerman High School, Zimmerman, Minnesota
Photo courtesy of Zimmerman Middle and High School

For fiscal year ended June 30, 2023



A Pension Trust Fund of the
State of Minnesota

Employer and Non-Employer GASB 68 Schedules & Notes

Teachers Retirement Association

60 Empire Drive
Suite 400
Saint Paul, MN
55103-4000

651.296.2409

800.657.3669

www.MinnesotaTRA.org

J. Michael Stoffel

Executive Director

For fiscal year ended June 30, 2023

Report prepared by the TRA accounting and executive staff

Cover: Zimmerman High School, Zimmerman, Minnesota
Photo courtesy of Zimmerman Middle and High School



INDEPENDENT AUDITORS' REPORT

Board of Trustees
Teachers Retirement Association of Minnesota
St. Paul, Minnesota

Report on the Audit of the Schedules

Opinions

We have audited:

- the accompanying schedule of employer and non-employer allocations of the Teachers Retirement Association of Minnesota (TRA) as of and for the year ended June 30, 2023,
- the total for all entities of the columns titled ending net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense (specified column totals) included in the accompanying schedule of pension amounts by entity, current reporting period only, of the TRA as of and for the year ended June 30, 2023,
- and the respective related notes

(collectively referred to herein as the "GASB (Governmental Accounting Standards Board) 68 Schedules").

In our opinion, the GASB 68 Schedules referred to above present fairly, in all material respects, the employer and non-employer allocations and ending net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense for the total of all entities for the TRA as of and for the year ended June 30, 2023, in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinions

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Schedules section of our report. We are required to be independent of TRA and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Responsibilities of Management for the Schedules

Management is responsible for the preparation and fair presentation of the schedules in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of schedules that are free from material misstatement, whether due to fraud or error

Auditor's Responsibilities for the Audit of the Schedules

Our objectives are to obtain reasonable assurance about whether the schedules as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and *Government Auditing Standards* will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based the schedule of employer and non-employer allocations and ending net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense for the total of all entities for the TRA included in the schedule of pension amounts by entity.

In performing an audit in accordance with GAAS and *Government Auditing Standards*, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the schedule of employer and non-employer allocations and ending net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense for the total of all entities for the TRA included in the schedule of pension amounts by entity, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the schedule of employer and non-employer allocations and ending net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense for the total of all entities for the TRA included in the schedule of pension amounts by entity.
- Obtain an understanding of internal control relevant to the audit 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 TRA's internal control. Accordingly, no such opinion is expressed.

- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the schedule of employer allocations and ending net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense for the total of all entities for the TRA included in the schedule of pension amounts by entity.

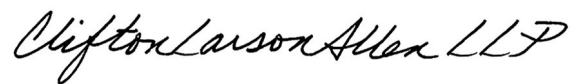
We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

Other Matter

The Office of the Legislative Auditor audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of TRA as of and for the year ended June 30, 2023, and their report thereon, dated December 21, 2023, expressed an unmodified opinion on those statements.

Restriction on Use

Our report is intended solely for the information and use of TRA management, members of the Board of Trustees, TRA employers and their auditors and is not intended to be, and should not be, used by anyone other than these specified parties.

A handwritten signature in cursive script that reads "CliftonLarsonAllen LLP".

CliftonLarsonAllen LLP

Minneapolis, Minnesota
May 31, 2024

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
00001	Aitkin - ISD #1	548,001	0.1008%
00002	Hill City - ISD #2	164,967	0.0303%
00004	McGregor - ISD #4	250,118	0.0460%
00006	South St Paul Special School Dist. #6	1,668,047	0.3068%
00011	Anoka-Hennepin - ISD #11	24,509,165	4.5085%
00012	Centennial - ISD #12	3,094,478	0.5692%
00013	Columbia Heights - ISD #13	1,798,526	0.3308%
00014	Fridley - ISD #14	1,758,450	0.3235%
00015	St Francis - ISD #15	2,027,170	0.3729%
00016	Spring Lake Park - ISD #16	2,909,338	0.5352%
00022	Detroit Lakes - ISD #22	1,663,241	0.3060%
00023	Frazee-Vergas Public Schools	423,669	0.0779%
00031	Bemidji - ISD #31	2,625,177	0.4829%
00032	Blackduck - ISD #32	332,660	0.0612%
00036	Kelliher - ISD #36	196,372	0.0361%
00038	Red Lake - ISD #38	1,251,514	0.2302%
00047	Sauk Rapids - ISD #47	2,198,104	0.4043%
00051	Foley - ISD #51	881,575	0.1622%
00075	St Clair - ISD #75	288,773	0.0531%
00077	Mankato - ISD #77	4,702,999	0.8651%
00081	Comfrey Public School ISD #81	79,400	0.0146%
00084	Sleepy Eye - ISD #84	283,630	0.0522%
00085	Springfield - ISD #85	287,803	0.0529%
00088	New Ulm - ISD #88	1,084,323	0.1995%
00091	Barnum - ISD #91	317,869	0.0585%
00093	Carlton - ISD #93	187,614	0.0345%
00094	Cloquet - ISD #94	1,536,922	0.2827%
00095	Cromwell - ISD #95	163,319	0.0300%
00097	Moose Lake - ISD #97	286,330	0.0527%
00099	Esko - ISD #99	564,870	0.1039%
00100	Wrenshall - ISD #100	191,132	0.0352%
00108	Central School District - ISD #108	489,257	0.0900%
00110	Waconia - ISD #110	2,017,126	0.3711%
00111	Watertown-Mayer - ISD #111	708,226	0.1303%
00112	Eastern Carver County Schools - ISD #112	5,601,930	1.0305%
00113	Walker-Hackensack - ISD #113	432,759	0.0796%
00115	Cass Lake - ISD #115	777,149	0.1430%
00116	Pillager - ISD #116	556,416	0.1024%
00118	Northland Community Schools - ISD #118	247,918	0.0456%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
00129	Montevideo - ISD #129	807,586	0.1486%
00138	North Branch - ISD #138	1,157,293	0.2129%
00139	Rush City - ISD #139	419,287	0.0771%
00146	Barnesville - ISD #146	397,449	0.0731%
00150	Hawley - ISD #150	493,563	0.0908%
00152	Moorhead - ISD #152	4,143,513	0.7622%
00162	Bagley - ISD #162	439,135	0.0808%
00166	Cook County - ISD #166	304,227	0.0560%
00173	Mountain Lake - ISD #173	275,484	0.0507%
00177	Windom - ISD #177	572,589	0.1053%
00181	Brainerd - ISD #181	3,470,081	0.6383%
00182	Crosby-Ironton - ISD #182	522,851	0.0962%
00186	Pequot Lakes - ISD #186	823,767	0.1515%
00191	Burnsville - ISD #191	4,933,111	0.9075%
00192	Farmington - ISD #192	3,763,529	0.6923%
00194	Lakeville - ISD #194	6,643,111	1.2220%
00195	Randolph - ISD #195	326,020	0.0600%
00196	Rosemount-Apple Valley-Eagan - ISD #196	18,625,682	3.4262%
00197	West St Paul - ISD #197	3,287,190	0.6047%
00199	Inver Grove Heights - ISD #199	1,937,813	0.3565%
00200	Hastings - ISD #200	2,115,982	0.3892%
00203	Hayfield - ISD #203	332,920	0.0612%
00204	Kasson-Mantorville - ISD #204	945,758	0.1740%
00206	Alexandria - ISD #206	2,223,019	0.4089%
00213	Osakis - ISD #213	380,002	0.0699%
00227	Chatfield - ISD #227	392,711	0.0722%
00229	Lanesboro - ISD #229	183,616	0.0338%
00238	Mabel-Canton - ISD #238	134,339	0.0247%
00239	Rushford - ISD #239	347,001	0.0638%
00241	Albert Lea - ISD #241	2,012,255	0.3702%
00242	Alden - ISD #242	240,997	0.0443%
00246	Central MN ERDC #246	3,694	0.0007%
00252	Cannon Falls - ISD #252	468,422	0.0862%
00253	Goodhue - ISD #253	293,768	0.0540%
00255	Pine Island - ISD #255	716,508	0.1318%
00256	Red Wing - ISD #256	1,173,090	0.2158%
00261	Ashby - ISD #261	162,175	0.0298%
00264	Herman - ISD #264	84,078	0.0155%
00270	Hopkins - ISD #270	4,430,890	0.8151%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
00271	Bloomington - ISD #271	7,292,830	1.3415%
00272	Eden Prairie - ISD #272	5,416,812	0.9964%
00273	Edina - ISD #273	5,332,710	0.9810%
00276	Minnetonka - ISD #276	7,261,163	1.3357%
00277	Westonka - ISD #277	1,364,768	0.2511%
00278	Orono - ISD #278	1,744,934	0.3210%
00279	Osseo - ISD #279	13,707,791	2.5216%
00280	Richfield - ISD #280	2,797,864	0.5147%
00281	Robbinsdale - ISD #281	7,435,994	1.3679%
00282	St Anthony - ISD #282	976,580	0.1796%
00283	St Louis Park - ISD #283	2,426,709	0.4464%
00284	Wayzata - ISD #284	7,377,638	1.3571%
00286	Brooklyn Center - ISD #286	1,319,424	0.2427%
00287	Interm School District #287	2,738,779	0.5038%
00288	Southwest Metro Intermediate District	1,004,142	0.1847%
00294	Houston - ISD #294	923,035	0.1698%
00297	Spring Grove - ISD #297	192,852	0.0355%
00299	Caledonia - ISD #299	382,489	0.0704%
00300	LaCrescent - ISD #300	514,146	0.0946%
00306	Laporte - ISD #306	165,669	0.0305%
00308	Nevis - ISD #308	262,339	0.0483%
00309	Park Rapids - ISD #309	866,796	0.1594%
00314	Braham - ISD #314	310,065	0.0570%
00316	Greenway Schools - ISD #316	549,048	0.1010%
00317	Deer River - ISD #317	564,994	0.1039%
00318	Grand Rapids - ISD #318	2,076,694	0.3820%
00319	Nashwauk-Keewatin - ISD #319	302,124	0.0556%
00330	Heron Lake-Okabena - ISD #330	151,010	0.0278%
00332	Mora - ISD #332	806,958	0.1484%
00333	Ogilvie - ISD #333	243,794	0.0448%
00345	New London-Spicer - ISD #345	805,157	0.1481%
00347	Willmar - ISD #347	2,498,763	0.4597%
00356	Lancaster - ISD #356	106,438	0.0196%
00361	International Falls - ISD #361	480,137	0.0883%
00362	Littlefork - Big Falls - ISD #362	140,322	0.0258%
00363	So Koochiching-Rainy River - ISD #363	194,577	0.0358%
00378	Dawson - ISD #378	302,909	0.0557%
00381	Lake Superior - ISD #381	825,913	0.1519%
00382	Northwest Reg Intrdst Council #382	77,458	0.0142%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
00390	Lake of the Woods - ISD #390	246,203	0.0453%
00391	Cleveland - ISD #391	268,909	0.0495%
00397	Lake Agassiz Spec Ed Coop #397	124,301	0.0229%
00398	Midwest Spec Ed Coop #398	117,510	0.0216%
00402	Hendricks - ISD #402	100,503	0.0185%
00403	Ivanhoe - ISD #403	36,701	0.0068%
00404	Lake Benton - ISD #404	63,531	0.0117%
00413	Marshall - ISD #413	1,470,366	0.2705%
00414	Minneota - ISD #414	256,568	0.0472%
00415	Lynd - ISD #415	90,716	0.0167%
00423	Hutchinson - ISD #423	1,383,298	0.2545%
00424	Lester Prairie - ISD #424	189,145	0.0348%
00432	Mahnomen - ISD #432	384,977	0.0708%
00435	Waubun - ISD #435	366,778	0.0675%
00441	Marshall County Central - ISD #441	200,657	0.0369%
00447	Grygla - ISD #447	116,538	0.0214%
00458	Truman - ISD #458	146,882	0.0270%
00463	Eden Valley - Watkins - ISD #463	415,367	0.0764%
00465	Litchfield - ISD #465	735,919	0.1354%
00466	Dassel-Cokato - ISD #466	976,673	0.1797%
00473	Isle - ISD #473	223,033	0.0410%
00477	Princeton - ISD #477	1,587,779	0.2921%
00480	Onamia - ISD #480	344,555	0.0634%
00482	Little Falls - ISD #482	1,308,972	0.2408%
00484	Pierz - ISD #484	602,465	0.1108%
00485	Royalton - ISD #485	351,265	0.0646%
00486	Swanville - ISD #486	160,522	0.0295%
00487	Upsala - ISD #487	187,519	0.0345%
00492	Austin - ISD #492	2,801,608	0.5154%
00495	Grand Meadow - ISD #495	192,591	0.0354%
00497	Lyle - ISD #497	148,251	0.0273%
00499	LeRoy - ISD #499	153,715	0.0283%
00500	Southland - ISD #500	213,907	0.0393%
00505	Fulda - ISD #505	208,258	0.0383%
00507	Nicollet - ISD #507	156,210	0.0287%
00508	St Peter - ISD #508	1,184,831	0.2180%
00511	Adrian - ISD #511	253,245	0.0466%
00514	Ellsworth - ISD #514	77,449	0.0142%
00518	Worthington - ISD #518	1,740,617	0.3202%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
00531	Byron - ISD #531	1,009,256	0.1857%
00533	Dover-Eyota - ISD #533	512,411	0.0943%
00534	Stewartville - ISD #534	964,073	0.1773%
00535	Rochester - ISD #535	10,269,391	1.8891%
00542	Battle Lake Public Schools - ISD #542	216,816	0.0399%
00544	Fergus Falls - ISD #544	1,253,674	0.2306%
00545	Henning - ISD #545	202,140	0.0372%
00547	Parkers Prairie - ISD #547	252,787	0.0465%
00548	Pelican Rapids - ISD #548	442,984	0.0815%
00549	Perham - ISD #549	778,858	0.1433%
00550	Underwood - ISD #550	277,197	0.0510%
00553	New York Mills - ISD #553	333,729	0.0614%
00561	Goodridge - ISD #561	128,688	0.0237%
00564	Thief River Falls Public Schools #564	891,518	0.1640%
00577	Willow River - ISD #577	225,152	0.0414%
00578	Pine City - ISD #578	749,719	0.1379%
00581	Edgerton - ISD #581	230,165	0.0423%
00592	Climax - ISD #592	115,547	0.0213%
00593	Crookston - ISD #593	565,704	0.1041%
00595	East Grand Forks - ISD #595	982,123	0.1807%
00599	Fertile-Beltrami - ISD #599	239,687	0.0441%
00600	Fisher - ISD #600	135,584	0.0249%
00601	Fosston - ISD #601	325,396	0.0599%
00621	Mounds View - ISD #621	6,264,920	1.1524%
00622	North St Paul-Maplewood - ISD #622	6,302,730	1.1594%
00623	Roseville - ISD #623	4,660,638	0.8573%
00624	White Bear Lake - ISD #624	5,106,857	0.9394%
00630	Red Lake Falls - ISD #630	233,445	0.0429%
00635	Milroy - ISD #635	31,069	0.0057%
00640	Wabasso - ISD #640	197,633	0.0364%
00656	Faribault - ISD #656	2,164,004	0.3981%
00659	Northfield - ISD #659	2,367,734	0.4355%
00671	Hills-Beaver Creek - ISD #671	163,612	0.0301%
00676	Badger - ISD #676	138,931	0.0256%
00682	Roseau - ISD #682	554,473	0.1020%
00690	Warroad - ISD #690	492,132	0.0905%
00695	Chisholm - ISD #695	336,860	0.0620%
00696	Ely - ISD #696	274,037	0.0504%
00698	Floodwood - ISD #698	95,267	0.0175%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
00700	Hermantown - ISD #700	927,230	0.1706%
00701	Hibbing - ISD #701	1,175,472	0.2162%
00704	Proctor - ISD #704	959,155	0.1764%
00707	Nett Lake - ISD #707	45,801	0.0084%
00709	Duluth - ISD #709	4,859,375	0.8939%
00712	Mountain Iron-Buhl - ISD #712	270,389	0.0497%
00716	Belle Plaine - ISD #716	652,180	0.1200%
00717	Jordan - ISD #717	936,749	0.1723%
00719	Prior Lake - ISD #719	4,454,509	0.8194%
00720	Shakopee - ISD #720	4,675,281	0.8600%
00721	New Prague - ISD #721	2,154,111	0.3963%
00726	Becker - ISD #726	1,397,161	0.2570%
00727	Big Lake - ISD #727	1,576,800	0.2901%
00728	Elk River - ISD #728	6,838,357	1.2579%
00738	Holdingford - ISD #738	442,732	0.0814%
00739	Kimball - ISD #739	348,612	0.0641%
00740	Melrose - ISD #740	625,517	0.1151%
00741	Paynesville - ISD #741	480,140	0.0883%
00742	St Cloud - ISD #742	6,236,763	1.1473%
00743	Sauk Centre - ISD #743	623,064	0.1146%
00745	Albany - ISD #745	944,345	0.1737%
00748	Sartell - ISD #748	2,056,177	0.3782%
00750	Rocori - ISD #750	1,069,351	0.1967%
00756	Blooming Prairie - ISD #756	447,984	0.0824%
00761	Owatonna - ISD #761	2,664,886	0.4902%
00763	Medford - ISD #763	393,529	0.0724%
00768	Hancock - ISD #768	202,106	0.0372%
00771	Chokio-Alberta - ISD #771	102,703	0.0189%
00775	Kerkhoven-Murdock-Sunburg - ISD #775	372,670	0.0686%
00777	Benson - ISD #777	408,836	0.0752%
00786	Bertha-Hewitt - ISD #786	238,731	0.0439%
00787	Browerville - ISD #787	262,504	0.0483%
00801	Browns Valley - ISD #801	90,081	0.0166%
00803	Wheaton - ISD #803	207,710	0.0382%
00811	Wabasha-Kellogg - ISD #811	414,146	0.0762%
00813	Lake City - ISD #813	582,963	0.1072%
00815	Prinsburg - ISD #815	14,751	0.0027%
00818	Verndale - ISD #818	248,909	0.0458%
00820	Sebeka - ISD #820	243,650	0.0448%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
00821	Menahga - ISD #821	411,108	0.0756%
00829	Waseca - ISD #829	958,066	0.1762%
00831	Forest Lake - ISD #831	2,942,334	0.5412%
00832	Mahtomedi - ISD #832	1,722,959	0.3169%
00833	South Washington County - ISD #833	10,596,691	1.9493%
00834	Stillwater - ISD #834	4,525,269	0.8324%
00836	Butterfield - ISD #836	138,621	0.0255%
00837	Madelia - ISD #837	300,735	0.0553%
00840	St James - ISD #840	503,796	0.0927%
00846	Breckenridge - ISD #846	307,059	0.0565%
00850	Rothsay - ISD #850	125,001	0.0230%
00852	Campbell-Tintah - ISD #852	71,663	0.0132%
00857	Lewiston - ISD #857	345,403	0.0635%
00858	St Charles - ISD #858	518,623	0.0954%
00861	Winona Area Public Schools - ISD #861	1,515,109	0.2787%
00876	Annandale - ISD #876	1,008,216	0.1855%
00877	Buffalo - ISD #877	2,771,309	0.5098%
00879	Delano - ISD #879	1,105,711	0.2034%
00881	Maple Lake - ISD #881	395,652	0.0728%
00882	Monticello - ISD #882	2,461,235	0.4527%
00883	Rockford - ISD #883	766,733	0.1410%
00885	St Michael - ISD #885	3,135,504	0.5768%
00891	Canby - ISD #891	252,267	0.0464%
00911	Cambridge-Isanti - ISD #911	2,257,025	0.4152%
00912	Milaca - ISD #912	806,610	0.1484%
00914	Ulen - Hitterdal -ISD #914	165,587	0.0305%
00915	Southern Plains #915	256,728	0.0472%
00916	NE Metro Interm School Dist. #916	2,075,071	0.3817%
00917	Interm School District #917	1,447,759	0.2663%
00920	Metro ECSU #920	90,523	0.0167%
00921	Southeast Service Coop #921	146,209	0.0269%
00922	South Central Serv Coop #922	70,958	0.0131%
00923	Resource Training and Solutions #923	137,422	0.0253%
00924	North Central Service Coop #924	263,168	0.0484%
00925	Sourcewell Technology #925	24,390	0.0045%
00926	Lakes Country Serv Coop #926	265,372	0.0488%
00927	Northeast Service Coop #927	60,457	0.0111%
00928	Northwest MN Service Co-op #928	143,838	0.0265%
00935	Fergus Falls Spec Ed Coop #935	198,720	0.0366%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
00938	Meeker & Wright Spec Ed Coop #938	441,433	0.0812%
00966	Wright Technical Ctr #966	142,922	0.0263%
00978	MN Valley Coop Ctr #978	130,522	0.0240%
00985	Pine to Prairie Coop Ctr #985	8,978	0.0017%
00991	SW/W Central Service Cooperative #991	1,324,746	0.2437%
00997	Area Special Educ Coop #997	175,965	0.0324%
00998	Bemidji Reg Interdist Council #998	344,125	0.0633%
02071	Lake Crystal-Wellcome Memorial ISD #2071	436,030	0.0802%
02125	Triton Schools - ISD #2125	507,277	0.0933%
02134	United South Central - ISD #2134	391,761	0.0721%
02135	Maple River - ISD #2135	399,781	0.0735%
02137	Kingsland - ISD #2137	262,352	0.0483%
02142	St Louis County Schools - ISD #2142	1,149,695	0.2115%
02143	Waterville-Elysian-Morristown ISD #2143	363,857	0.0669%
02144	Chisago Lakes Area - ISD #2144	1,613,965	0.2969%
02149	Minnewaska Area - ISD #2149	748,901	0.1378%
02155	Wadena-Deer Creek - ISD #2155	544,013	0.1001%
02159	Buffalo Lake-Hector - ISD #2159	262,747	0.0483%
02164	Dilworth-Glyndon-Felton - ISD #2164	726,763	0.1337%
02165	Hinckley-Finlayson - ISD #2165	508,198	0.0935%
02167	Lakeview - ISD #2167	337,467	0.0621%
02168	NRHEG - ISD #2168	373,172	0.0686%
02169	Murray County Central - ISD #2169	336,346	0.0619%
02170	Staples-Motley - ISD #2170	401,268	0.0738%
02171	Kittson Central - ISD #2171	160,487	0.0295%
02172	Kenyon-Wanamingo - ISD #2172	317,763	0.0585%
02174	Pine River-Backus - ISD #2174	473,419	0.0871%
02176	Warren-Alvarado-Oslo - ISD #2176	279,725	0.0515%
02180	MACCRAY - ISD #2180	396,280	0.0729%
02184	Luverne - ISD #2184	648,080	0.1192%
02190	Yellow Medicine East - ISD #2190	272,826	0.0502%
02198	Fillmore Central - ISD #2198	295,807	0.0544%
02215	Norman County East - ISD #2215	136,707	0.0251%
02310	Sibley East - ISD #2310	452,188	0.0832%
02311	Clearbrook-Gonvick - ISD #2311	230,559	0.0424%
02342	West Central Area - ISD #2342	422,172	0.0777%
02358	Tri-County - ISD #2358	107,504	0.0198%
02364	Belgrade-Brooten-Elrosa - ISD #2364	302,412	0.0556%
02365	Gibbon-Fairfax-Winthrop - ISD #2365	342,511	0.0630%

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
02396	Atwater-Cosmos-Grove City - ISD #2396	473,798	0.0872%
02397	Le Sueur-Henderson - ISD #2397	425,281	0.0782%
02448	Martin County West - ISD #2448	303,010	0.0557%
02534	BOLD - ISD #2534	276,422	0.0508%
02536	Granada-Huntley-E Chain - ISD #2536	160,827	0.0296%
02580	East Central - ISD #2580	397,511	0.0731%
02609	Win-E-Mac - ISD #2609	211,279	0.0389%
02683	Greenbush-Middle River - ISD #2683	131,253	0.0241%
02687	Howard Lake-Waverly-Winsted - ISD #2687	607,970	0.1118%
02689	Pipestone Area Schools - ISD #2689	521,362	0.0959%
02711	Mesabi East - ISD #2711	447,734	0.0824%
02752	Fairmont-Ceylon - ISD #2752	838,087	0.1542%
02753	Long Prairie-Grey Eagle - ISD #2753	479,074	0.0881%
02754	Cedar Mountain - ISD #2754	201,635	0.0371%
02769	Morris Area Schools - ISD #2769	536,448	0.0987%
02805	Zumbrota-Mazeppa - ISD #2805	636,710	0.1171%
02835	Janesville-Waldorf-Pemberton - ISD #2835	383,895	0.0706%
02853	Lac qui Parle Valley - ISD #2853	418,836	0.0770%
02856	Stephen-Argyle - ISD #2856	162,636	0.0299%
02859	Glencoe-Silver Lake - ISD #2859	741,301	0.1364%
02860	Blue Earth Area Public Schools #2860	531,031	0.0977%
02884	Red Rock Central - ISD #2884	237,895	0.0438%
02886	Glenville-Emmons - ISD #2886	118,598	0.0218%
02888	Clinton-Graceville-Beardsley - ISD #2888	156,880	0.0289%
02889	Lake Park-Audubon District - ISD #2889	346,789	0.0638%
02890	Renville County West - ISD #2890	294,526	0.0542%
02895	Jackson County Central Schools ISD #2895	588,684	0.1083%
02897	Redwood Area Schools - ISD #2897	575,712	0.1059%
02898	Westbrook-Walnut Grove Public School #2898	231,417	0.0426%
02899	Plainview-Elgin-Millville ISD #2899	660,827	0.1216%
02902	RTR Public School #2902	260,865	0.0480%
02903	Ortonville Public School #2903	261,447	0.0481%
02904	Tracy Area School District #2904	326,697	0.0601%
02905	Tri-City United ISD #2905	930,413	0.1712%
02906	Red Lake County Central - ISD #2906	199,058	0.0366%
02907	Round Lake/Brewster - ISD #2907	186,706	0.0343%
02908	Brandon/Evansville - ISD #2908	255,291	0.0470%
02909	Rock Ridge Public Schools	1,195,778	0.2200%
02910	Ada-Borup West Public Schools	338,538	0.0623%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
03333	Pine Point - ISD #3333	78,735	0.0145%
04000	City Academy	58,202	0.0107%
04001	Bluffview Montessori	83,840	0.0154%
04003	New Heights School	63,603	0.0117%
04004	Cedar-Riverside Community School	433	0.0001%
04005	Metro Deaf School	319,237	0.0587%
04007	New Country Charter School	123,218	0.0227%
04008	PACT Charter School	264,654	0.0487%
04011	Athlos Leadership Academy	374,416	0.0689%
04015	Community of Peace	385,655	0.0709%
04016	World Learner School	74,165	0.0136%
04017	MN Transitions Charter School	724,277	0.1332%
04018	Achieve Language Academy	233,577	0.0430%
04020	Duluth Edison Charter School	579,937	0.1067%
04025	Cyber Village Academy	154,966	0.0285%
04026	ECHO Charter School	31,505	0.0058%
04027	Higher Ground	391,473	0.0720%
04029	St Paul City School	363,905	0.0669%
04031	Jennings Experiential High School	30,654	0.0056%
04035	Life Prep Academy	108,941	0.0200%
04036	Face to Face Academy	70,325	0.0129%
04038	Sojourner Truth Academy	200,225	0.0368%
04039	High School for Recording Arts	85,103	0.0157%
04043	Math & Science Academy	213,083	0.0392%
04049	Northwest Passage High School	75,316	0.0139%
04050	Lafayette Charter School	3,702	0.0007%
04053	North Lakes Academy	266,778	0.0491%
04054	LaCrescent Montessori Academy	33,009	0.0061%
04055	Nerstrand Elementary School	39,791	0.0073%
04056	Rosa Parks Charter High School Total	30,013	0.0055%
04057	El Colegio Charter School	63,999	0.0118%
04058	Schoolcraft Learning Community	76,425	0.0141%
04059	Crosslake Community School	209,374	0.0385%
04064	Riverway Learning Community	56,428	0.0104%
04066	Kato Public Charter School	37,707	0.0069%
04067	Aurora Charter School	196,905	0.0362%
04068	Excell Academy for Higher Learning	270,127	0.0497%
04070	HOPE Community Academy	346,643	0.0638%
04073	Academia Cesar Chavez	183,075	0.0337%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
04074	AFSA High School	229,386	0.0422%
04075	Avalon School	195,572	0.0360%
04078	MN International Middle School	387,097	0.0712%
04079	Friendship Academy of Fine Arts	123,445	0.0227%
04080	Pillager Area Charter School	26,086	0.0048%
04081	Discovery Public School of Faribault	30,768	0.0057%
04082	BlueSky Charter School	372,569	0.0685%
04083	Ridgeway Community School	36,628	0.0067%
04084	North Shore Community School	145,803	0.0268%
04085	Harbor City International	95,921	0.0176%
04087	SAGE Academy	46,688	0.0086%
04088	Urban Academy	203,164	0.0374%
04089	New City School Charter School	159,548	0.0293%
04090	Prairie Creek Community School	86,857	0.0160%
04091	Arcadia Charter School	74,644	0.0137%
04092	Watershed High School	27,643	0.0051%
04093	New Century Charter School	51,459	0.0095%
04095	Trio Wolf Creek Distance Learning	81,546	0.0150%
04097	Partnership Academy, Inc.	393,453	0.0724%
04098	Nova Classical Academy	388,513	0.0715%
04100	Great Expectations School	56,045	0.0103%
04102	Mn Internship Center	157,703	0.0290%
04103	Hmong Academy	969,073	0.1783%
04104	Paladin Academy (Liberty High School)	80,634	0.0148%
04105	Great River School	330,160	0.0607%
04106	Trek North High School	148,280	0.0273%
04107	Voyageurs Expeditionary School	61,661	0.0113%
04110	Performing Institute of Minnesota Arts High School	184,401	0.0339%
04111	Augsburg Academy for Health Careers	25,490	0.0047%
04112	St Paul Conservatory for Performing Arts	178,651	0.0329%
04113	Spero Academy	327,458	0.0602%
04116	Lakes International Language Academy	586,369	0.1079%
04118	Kaleidoscope Charter School	251,072	0.0462%
04119	Academic Arts High School	69,387	0.0128%
04120	St Croix Preparatory School	513,195	0.0944%
04121	UBAH Medical Academy	136,275	0.0251%
04122	Eagle Ridge Academy	613,224	0.1128%
04124	Beacon Academy	256,904	0.0473%
04126	Prairie Seeds Academy	354,876	0.0653%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
04127	TEAM Academy	79,277	0.0146%
04131	Metro School Charter Total	289,196	0.0532%
04132	Twin Cities Academy High School	261,994	0.0482%
04135	Rochester Math and Science Academy	161,237	0.0297%
04137	Swan River Montessori	75,632	0.0139%
04139	LoveWorks Academy	60,940	0.0112%
04140	Yinghua Academy	293,543	0.0540%
04142	Stride Academy	245,445	0.0452%
04143	New Millennium Academy	356,163	0.0655%
04144	Green Isle Community School	22,150	0.0041%
04145	Birch Grove Charter School	23,136	0.0043%
04146	Northern Lights Community School	62,281	0.0115%
04150	Minnesota Online High School	150,482	0.0277%
04151	EdVisions Off-Campus Charter School	67,033	0.0123%
04152	Twin Cities German Immersion School	253,980	0.0467%
04153	Dugsi Academy	169,392	0.0312%
04155	Naytahwaush Community School	86,547	0.0159%
04159	Seven Hills Classical	524,200	0.0964%
04160	Spectrum HS	308,206	0.0567%
04161	New Discoveries Montessori Academy	151,556	0.0279%
04162	Southside Family Charter School	52,859	0.0097%
04164	Laura Jeffrey Academy	66,695	0.0123%
04166	East Range Academy of Tech and Science	56,896	0.0105%
04167	International Spanish Language Academy	164,099	0.0302%
04168	Glacial Hills Elementary School	54,828	0.0101%
04169	Stonebridge Community School	115,943	0.0213%
04170	Hiawatha Academies	872,500	0.1605%
04171	Noble Academy	150,021	0.0276%
04172	Clarkfield Area Charter School	10,561	0.0019%
04178	Lincoln International Charter School	78,934	0.0145%
04181	Community School of Excellence	509,364	0.0937%
04183	Lionsgate Academy	638,048	0.1174%
04184	Aspen Academy	220,932	0.0406%
04185	DaVinci Academy of Art and Science	369,624	0.0680%
04186	Global Academy, Inc.	246,179	0.0453%
04188	Cologne Academy	333,101	0.0613%
04189	Bright Water Elementary Charter School	46,265	0.0085%
04191	KIPP Minnesota	211,384	0.0389%
04192	Best Academy	377,014	0.0694%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
04193	College Prep Elementary	85,448	0.0157%
04194	Cannon River STEM School	139,409	0.0256%
04195	Oshki Ogimaag Charter School	23,466	0.0043%
04198	Discovery Woods Montessori	44,965	0.0083%
04199	Parnassus Preparatory School	515,563	0.0948%
04200	Step Academy	302,228	0.0556%
04201	Cornerstone Montessori Elementary School	52,980	0.0097%
04204	Rochester STEM Academy	43,292	0.0080%
04205	Hennepin Elementary School	210,047	0.0386%
04207	Vermilion Country School	19,687	0.0036%
04208	Nasha Shkola Charter School	47,955	0.0088%
04210	Upper Mississippi Academy	140,589	0.0259%
04213	Prodeo Academy	467,939	0.0861%
04215	Sejong Academy	221,681	0.0408%
04217	Technical Academies of Minnesota	59,778	0.0110%
04218	Venture Academy	240,131	0.0442%
04219	Northeast College Prep Charter School	190,370	0.0350%
04220	Agamim Hebrew Language School	108,898	0.0200%
04221	Discovery Charter School	79,980	0.0147%
04223	Saint Cloud Math and Science Academy	146,092	0.0269%
04224	Star of the North Academy	44,622	0.0082%
04225	Universal Academy Charter School	181,369	0.0334%
04226	Bdote Learning Center	40,254	0.0074%
04227	Art and Science Academy	141,881	0.0261%
04228	Woodbury Leadership Academy	245,907	0.0452%
04229	Jane Goodall Environmental Sciences Acad	55,285	0.0102%
04230	Minnesota Excellence in Learning Academy	101,002	0.0186%
04231	Minnesota Math and Science Academy	249,368	0.0459%
04232	Success Academy School	98,964	0.0182%
04233	Level Up Academy Charter School	101,091	0.0186%
04237	Career Pathways	46,616	0.0086%
04238	Rochester Beacon Academy	74,085	0.0136%
04239	TESFA International School	107,952	0.0199%
04240	New Century Academy	231,841	0.0426%
04243	North Metro Flex Academy	101,434	0.0187%
04244	FIT Academy	173,313	0.0319%
04250	Athlos Academy of St Cloud	208,569	0.0384%
04253	Phoenix Academy	48,469	0.0089%
04254	Marine Area Charter School	121,359	0.0223%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
04255	Skyline Math & Science Academy	87,028	0.0160%
04258	The Journey School	43,406	0.0080%
04261	SciTech Academy	94,575	0.0174%
04263	Progeny Academy	20,601	0.0038%
04264	Gateway STEM Academy Charter School	85,755	0.0158%
04265	Minnesota Wildflower Montessori School	53,509	0.0098%
04266	Three Rivers Montessori School	51,314	0.0094%
04267	Horizon Science Academy Twin Cities	45,761	0.0084%
04268	Great Oaks Academy	86,624	0.0159%
04269	Quantum STEAM Academy Charter School	60,504	0.0111%
04270	STEAM Academy Charter School	19,147	0.0035%
04271	Aurora Waasakone Community of Learners	63,906	0.0118%
04273	Modern Montessori Charter School	60,537	0.0111%
04275	St. Paul Northern Lights Charter School	100,344	0.0185%
04276	Notre Ecole Academy Charter School	24,604	0.0045%
04279	Exploration High School Charter School	34,346	0.0063%
04280	Aspire Academy Charter School	38,359	0.0071%
04282	Innovation Science & Technology Academy	29,588	0.0054%
04283	Escuela Exitos Charter School	33,266	0.0061%
04284	Gentry Academy Charter School	109,184	0.0201%
04285	Aim Academy of Science & Technology	30,899	0.0057%
04286	Link Public Schools Charter School	9,805	0.0018%
04287	Cross River Charter School	3,698	0.0007%
04288	Kandiyohi Academy Charter School	171	0.0000%
04289	Oak Hill Montessori Community School	73,352	0.0135%
04290	Kalon Prep Academy Charter School	66,399	0.0122%
04291	Creekstone Montessori Charter School	29,326	0.0054%
04292	School Of Leadership for Public Service	5,641	0.0010%
04293	Rollingstone Community School Charter	15,510	0.0029%
04295	Bultum Academy	27,776	0.0051%
04297	Marine Village School Charter School	16,310	0.0030%
04298	Endazhi-Nitaawiging Charter	33,404	0.0061%
05001	MN Family Career & Comm Leaders of America	2,489	0.0005%
05002	MN Business Professionals of America	3,141	0.0006%
05004	MN Delta Epsilon / DECA	3,420	0.0006%
06004	Freshwater Education Dist. #6004	505,835	0.0930%
06009	St. Croix River Education District	309,521	0.0569%
06012	Zumbro Education District #6012	336,467	0.0619%
06013	Hiawatha Valley Ed Dist. #6013	388,717	0.0715%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
06014	Runestone Area Education Dist. #6014	99,798	0.0184%
06017	MN Transitions - Connections Academy	750,672	0.1381%
06026	W Central Education Dist. #6026	202,868	0.0373%
06027	MN Valley Educ Dist. #6027	250,495	0.0461%
06049	Riverbend Educational Dist. #6049	307,370	0.0565%
06051	Goodhue County Ed Dist. #6051	658,264	0.1211%
06067	East Metro Integration District	1,269	0.0002%
06070	Itasca Area Schools Collaborative	146,592	0.0270%
06076	Northland Learning Center - ISD #6076	384,719	0.0708%
06078	Northwest Suburban ISD #6078	10,349	0.0019%
06079	Rum River Special Education Coop	336,490	0.0619%
06080	Minnesota's Digital Academy	27,164	0.0050%
06083	Southern Minnesota Education Consortium	239,040	0.0440%
06094	Cannon Valley Special Education Coop	226,737	0.0417%
06383	Benton-Stearns Educ Dist. #6383	413,283	0.0760%
06979	Midstate Educational Dist. #6979	168,717	0.0310%
08800037	Dept of Education	1,120,233	0.2061%
08825000	Perpich Center for Arts Education	131,038	0.0241%
08837001	Minnesota State Academies	360,637	0.0663%
09700004	Education Minnesota	18,666	0.0034%
10100011	System Office 101-11	414,323	0.0762%
10100012	Bemidji State Univ 101-12	551,179	0.1014%
10100013	Minnesota State Univ, Mankato 101-13	1,164,568	0.2142%
10100014	Minnesota St. University Moorhead 101-14	578,132	0.1063%
10100015	St Cloud State Univ 101-15	945,868	0.1740%
10100016	Southwest Minnesota State Univ 101-16	331,677	0.0610%
10100017	Winona State Univ 101-17	985,308	0.1812%
10100018	Metropolitan State Univ 101-18	735,565	0.1353%
10100020	Alexandria Tech College 101-20	415,614	0.0765%
10100021	Anoka Technical College 101-21	230,930	0.0425%
10100022	Central Lakes College 101-22	506,950	0.0933%
10100023	Dakota County Tech College 101-23	333,819	0.0614%
10100024	Lake Superior College 101-24	301,888	0.0555%
10100025	Hennepin Tech College 101-25	716,447	0.1318%
10100026	Ridgewater College 101-26	519,879	0.0956%
10100027	Minneapolis Comm & Tech College 101-27	591,895	0.1089%
10100028	Century Comm and Tech College 101-28	854,991	0.1573%
10100029	Northwest Tech College - Bemidji 101-29	94,793	0.0174%
10100030	Pine Tech College 101-30	178,387	0.0328%

The notes to the required schedules as an integral part of this schedule

Teachers Retirement Association
Schedule of Employer and Non-Employer Allocations
As of and for the Year Ended June 30, 2023

ID	Entity	Employer Contributions	Entity Allocations Percentage
10100031	Mesabi Range Comm & Tech College 101-31	27,347	0.0050%
10100032	Hibbing Comm College 101-32	28,222	0.0052%
10100033	Minnesota State College-SE Tech 101-33	248,802	0.0458%
10100034	Riverland Community College 101-34	417,683	0.0768%
10100035	South Central College 101-35	457,384	0.0841%
10100036	Minnesota West Comm & Tech College 101-36	464,132	0.0854%
10100037	St Cloud Tech College 101-37	578,203	0.1064%
10100038	St Paul College 101-38	629,289	0.1158%
10100039	Northeast Service Unit 101-39	3,879	0.0007%
10100040	Fond du Lac Tribal & Comm College 101-40	170,887	0.0314%
10100041	North Hennepin Comm College 101-41	514,583	0.0947%
10100042	Northland Community & Tech College 101-42	381,689	0.0702%
10100043	Normandale Community College 101-43	664,337	0.1222%
10100044	Inver Hills Community College 101-44	293,297	0.0540%
10100045	Itasca Community College 101-45	22,640	0.0042%
10100046	Rainy River Community College 101-46	3,335	0.0006%
10100048	Rochester Comm & Tech College 101-48	509,842	0.0938%
10100049	Anoka-Ramsey Comm College 101-49	619,146	0.1139%
10100050	Vermilion Comm College 101-50	8,314	0.0015%
10100051	MN State Comm and Tech College 101-51	480,626	0.0884%
10100052	Minnesota North College	734,489	0.1351%
S0001	Minneapolis - Special School Dist. #1	32,507,422	5.9791%
CITY	City of Minneapolis	2,250,000	0.4139%
MSPSD	MPS	2,250,000	0.4139%
STATE	State of MN	31,087,000	5.7185%
TOTAL		\$ 543,621,202	100.0000%

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

			Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred		
ID	Entity	Net Pension Liability	Difference Between				Total Deferred Outflows of Resources	Difference Between				Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Amounts from	
			Difference Between Expected and Actual Experience	Projected and Actual Investment Earnings	Changes in Assumptions	Changes in Proportion		Difference Between Expected and Actual Experience	Projected and Actual Investment Earnings	Changes in Assumptions	Changes in Proportion			Changes in	Total Pension Expense
00001	Aitkin - ISD #1	\$ 8,322,274	\$ -	\$ -	\$ -	\$ 180,168	\$ 180,168	\$ 76,161	\$ 369,717	\$ -	\$ -	\$ 445,878	\$ 1,245,328	\$ 36,034	\$ 1,281,362
00002	Hill City - ISD #2	2,501,636	-	-	-	-	-	22,894	111,135	-	140,131	274,160	374,340	(28,026)	346,314
00004	McGregor - ISD #4	3,797,863	-	-	-	-	-	34,756	168,720	-	253,570	457,046	568,304	(50,714)	517,590
00006	South St Paul Special School Dist. #6	25,330,095	-	-	-	-	-	231,809	1,125,290	-	960,897	2,317,996	3,790,342	(192,179)	3,598,163
00011	Anoka-Hennepin - ISD #11	372,231,859	-	-	-	5,658,612	5,658,612	3,406,487	16,536,412	-	-	19,942,899	55,699,993	1,131,723	56,831,716
00012	Centennial - ISD #12	46,994,427	-	-	-	-	326,972	430,070	2,087,729	-	-	2,517,799	7,032,147	65,394	7,097,541
00013	Columbia Heights - ISD #13	27,311,589	-	-	-	-	-	249,943	1,213,318	-	613,906	2,077,167	4,086,849	(122,781)	3,964,068
00014	Fridley - ISD #14	26,708,885	-	-	-	-	-	244,427	1,186,543	-	860,803	2,291,773	3,996,661	(172,161)	3,824,500
00015	St Francis - ISD #15	30,787,459	-	-	-	-	-	281,752	1,367,734	-	20,018	1,669,504	4,606,971	(4,004)	4,602,967
00016	Spring Lake Park - ISD #16	44,187,311	-	-	-	-	-	404,381	1,963,023	-	393,701	2,761,105	6,612,096	(78,740)	6,533,356
00022	Detroit Lakes - ISD #22	25,264,045	-	-	-	-	333,645	231,204	1,122,356	-	-	1,353,560	3,780,459	66,729	3,847,188
00023	Frazee-Vergas Public Schools	6,431,598	-	-	-	-	-	58,859	285,724	-	293,607	638,190	962,411	(58,722)	903,689
00031	Bemidji - ISD #31	39,869,306	-	-	-	-	33,364	364,865	1,771,195	-	-	2,136,060	5,965,959	6,673	5,972,632
00032	Blackduck - ISD #32	5,052,809	-	-	-	-	186,841	46,241	224,471	-	-	270,712	756,092	37,368	793,460
00036	Kelliher - ISD #36	2,980,497	-	-	-	-	33,364	27,276	132,409	-	-	159,685	445,995	6,673	452,668
00038	Red Lake - ISD #38	19,005,828	-	-	-	-	360,336	173,932	844,334	-	-	1,018,266	2,843,992	72,067	2,916,059
00047	Sauk Rapids - ISD #47	33,379,914	-	-	-	-	-	305,477	1,482,904	-	960,897	2,749,278	4,994,900	(192,179)	4,802,721
00051	Foley - ISD #51	13,391,595	-	-	-	-	-	122,553	594,922	-	333,645	1,051,120	2,003,890	(66,729)	1,937,161
00075	St Clair - ISD #75	4,384,055	-	-	-	-	93,421	40,121	194,762	-	-	234,883	656,021	18,684	674,705
00077	Mankato - ISD #77	71,424,594	-	-	-	-	-	653,644	3,173,040	-	220,206	4,046,890	10,687,826	(44,041)	10,643,785
00081	Comfrey Public School ISD #81	1,205,409	-	-	-	-	-	11,031	53,550	-	73,402	137,983	180,375	(14,680)	165,695
00084	Sleepy Eye - ISD #84	4,309,749	-	-	-	-	-	39,441	191,461	-	53,383	284,285	644,902	(10,677)	634,225
00085	Springfield - ISD #85	4,367,542	-	-	-	-	-	39,970	194,028	-	180,168	414,166	653,550	(36,034)	617,516
00088	New Ulm - ISD #88	16,471,167	-	-	-	-	253,570	150,736	731,732	-	-	882,468	2,464,711	50,714	2,515,425
00091	Barnum - ISD #91	4,829,891	-	-	-	-	-	44,201	214,568	-	293,607	552,376	722,735	(58,722)	664,013
00093	Carlton - ISD #93	2,848,397	-	-	-	-	-	26,067	126,540	-	260,242	412,849	426,228	(52,049)	374,179
00094	Cloquet - ISD #94	23,340,345	-	-	-	-	313,626	213,600	1,036,896	-	-	1,250,496	3,492,600	62,725	3,555,325
00095	Cromwell - ISD #95	2,476,867	-	-	-	-	53,383	22,667	110,035	-	-	132,702	370,633	10,677	381,310
00097	Moose Lake - ISD #97	4,351,030	-	-	-	-	-	39,819	193,295	-	120,112	353,226	651,079	(24,022)	627,057
00099	Esko - ISD #99	8,578,217	-	-	-	-	-	78,504	381,088	-	333,645	793,237	1,283,626	(66,729)	1,216,897
00100	Wrenshall - ISD #100	2,906,191	-	-	-	-	-	26,596	129,108	-	126,785	282,489	434,876	(25,357)	409,519
00108	Central School District - ISD #108	7,430,602	-	-	-	-	100,093	68,001	330,105	-	-	398,106	1,111,900	20,019	1,131,919
00110	Waconia - ISD #110	30,638,847	-	-	-	-	507,140	280,392	1,361,132	-	-	1,641,524	4,584,733	101,428	4,686,161
00111	Watertown-Mayer - ISD #111	10,757,860	-	-	-	-	-	98,451	477,918	-	6,672	583,041	1,609,784	(1,335)	1,608,449
00112	Eastern Carver County Schools - ISD #112	85,080,388	-	-	-	-	-	778,615	3,779,699	-	220,206	4,778,520	12,731,250	(44,041)	12,687,209
00113	Walker-Hackensack - ISD #113	6,571,954	-	-	-	-	-	60,143	291,959	-	80,075	432,177	983,413	(16,015)	967,398
00115	Cass Lake - ISD #115	11,806,400	-	-	-	-	-	108,047	524,500	-	293,607	926,154	1,766,685	(58,722)	1,707,963
00116	Pillager - ISD #116	8,454,373	-	-	-	-	40,037	77,370	375,586	-	-	452,956	1,265,095	8,008	1,273,103
00118	Northland Community Schools - ISD #118	3,764,838	-	-	-	-	160,149	34,454	167,253	-	-	201,707	563,362	32,030	595,392
00129	Montevideo - ISD #129	12,268,749	-	-	-	-	-	112,278	545,040	-	6,672	663,990	1,835,870	(1,335)	1,834,535
00138	North Branch - ISD #138	17,577,501	-	-	-	-	467,102	160,861	780,881	-	-	941,742	2,630,260	93,421	2,723,681
00139	Rush City - ISD #139	6,365,549	-	-	-	-	400,373	58,254	282,790	-	-	341,044	952,527	80,075	1,032,602
00146	Barnesville - ISD #146	6,035,300	-	-	-	-	-	55,232	268,118	-	33,364	356,714	903,110	(6,673)	896,437
00150	Hawley - ISD #150	7,496,651	-	-	-	-	100,093	68,606	333,039	-	-	401,645	1,121,783	20,019	1,141,802
00152	Moorhead - ISD #152	62,928,939	-	-	-	-	1,201,121	575,895	2,795,620	-	-	3,371,515	9,416,554	240,224	9,656,778
00162	Bagley - ISD #162	6,671,029	-	-	-	-	-	61,050	296,361	-	313,626	671,037	998,239	(62,725)	935,514
00166	Cook County - ISD #166	4,623,485	-	-	-	-	-	42,312	205,398	-	66,729	314,439	691,849	(13,346)	678,503
00173	Mountain Lake - ISD #173	4,185,906	-	-	-	-	100,093	38,307	185,959	-	-	224,266	626,370	20,019	646,389
00177	Windom - ISD #177	8,693,804	-	-	-	-	80,075	79,562	386,222	-	-	465,784	1,300,923	16,015	1,316,938
00181	Brainerd - ISD #181	52,699,478	-	-	-	-	-	482,280	2,341,176	-	814,092	3,637,548	7,885,839	(162,819)	7,723,020
00182	Crosby-Ironton - ISD #182	7,942,487	-	-	-	-	340,317	72,686	352,845	-	-	425,531	1,188,497	68,064	1,256,561
00186	Pequot Lakes - ISD #186	12,508,179	-	-	-	-	300,280	114,469	555,676	-	-	670,145	1,871,698	60,056	1,931,754
00191	Burnsville - ISD #191	74,925,233	-	-	-	-	-	685,680	3,328,556	-	1,561,457	5,575,693	11,211,654	(312,291)	10,899,363
00192	Farmington - ISD #192	57,157,839	-	-	-	-	-	523,081	2,539,239	-	627,252	3,689,572	8,552,979	(125,450)	8,427,529
00194	Lakeville - ISD #194	100,891,057	-	-	-	-	1,654,877	923,307	4,482,088	-	-	5,405,395	15,097,126	330,976	15,428,102
00195	Randolph - ISD #195	4,953,734	-	-	-	-	346,990	45,334	220,070	-	-	265,404	741,266	69,398	810,664
00196	Rosemount-Apple Valley-Eagan - ISD #196	282,874,747	-	-	-	-	1,674,896	2,588,734	12,566,719	-	-	15,155,453	42,328,782	334,979	42,663,761
00197	West St Paul - ISD #197	49,925,387	-	-	-	-	186,841	456,893	2,217,937	-	-	2,674,830	7,470,730	37,368	7,508,098

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

ID	Entity	Net Pension Liability	Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred		
			Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Outflows of Resources	Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Amounts from Changes in Proportion	Total Pension Expense
			Expected and Actual Experience	Projected and Actual Investment Earnings				Expected and Actual Experience	Projected and Actual Investment Earnings						
00199	Inver Grove Heights - ISD #199	29,433,439	-	-	-	-	-	269,361	1,307,581	-	226,878	1,803,820	4,404,358	(45,376)	4,358,982
00200	Hastings - ISD #200	32,133,224	-	-	-	-	-	294,068	1,427,519	-	914,187	2,635,774	4,808,348	(182,837)	4,625,511
00203	Hayfield - ISD #203	5,052,809	-	-	-	-	-	46,241	224,471	-	140,131	410,843	756,092	(28,026)	728,066
00204	Kasson-Mantorville - ISD #204	14,365,830	-	-	-	-	-	131,469	638,202	-	-	769,671	2,149,673	-	2,149,673
00206	Alexandria - ISD #206	33,759,700	-	-	-	473,775	473,775	308,953	1,499,776	-	-	1,808,729	5,051,731	94,755	5,146,486
00213	Osakis - ISD #213	5,771,101	-	-	-	-	-	52,814	256,381	-	73,402	382,597	863,575	(14,680)	848,895
00227	Chatfield - ISD #227	5,960,994	-	-	-	166,822	166,822	54,552	264,817	-	-	319,369	891,991	33,365	925,356
00229	Lanesboro - ISD #229	2,790,604	-	-	-	-	-	25,538	123,973	-	60,056	209,567	417,580	(12,011)	405,569
00238	Mabel-Canton - ISD #238	2,039,287	-	-	-	-	-	18,663	90,595	-	-	109,258	305,155	-	305,155
00239	Rushford - ISD #239	5,267,471	-	-	-	33,364	33,364	48,205	234,008	-	-	282,213	788,213	6,673	794,886
00241	Albert Lea - ISD #241	30,564,541	-	-	-	113,439	113,439	279,712	1,357,831	-	-	1,637,543	4,573,614	22,688	4,596,302
00242	Alden - ISD #242	3,657,507	-	-	-	-	-	33,472	162,485	-	40,037	235,994	547,302	(8,008)	539,294
00246	Central MN ERDC #246	57,794	-	-	-	-	-	529	2,567	-	133,457	136,553	8,648	(26,692)	(18,044)
00252	Cannon Falls - ISD #252	7,116,865	-	-	-	-	-	65,130	316,167	-	373,682	754,979	1,064,953	(74,736)	990,217
00253	Goodhue - ISD #253	4,458,361	-	-	-	93,421	93,421	40,801	198,063	-	-	238,864	667,140	18,684	685,824
00255	Pine Island - ISD #255	10,881,703	-	-	-	306,953	306,953	99,584	483,420	-	-	583,004	1,628,315	61,391	1,689,706
00256	Red Wing - ISD #256	17,816,931	-	-	-	-	-	163,052	791,518	-	900,841	1,855,411	2,666,088	(180,168)	2,485,920
00261	Ashby - ISD #261	2,460,355	-	-	-	60,056	60,056	22,516	109,301	-	-	131,817	368,162	12,011	380,173
00264	Herman - ISD #264	1,279,715	-	-	-	13,346	13,346	11,711	56,851	-	-	68,562	191,494	2,669	194,163
00270	Hopkins - ISD #270	67,296,482	-	-	-	940,877	940,877	615,865	2,989,648	-	-	3,605,513	10,070,104	188,176	10,258,280
00271	Bloomington - ISD #271	110,757,245	-	-	-	974,242	974,242	1,013,597	4,920,394	-	-	5,933,991	16,573,481	194,849	16,768,330
00272	Eden Prairie - ISD #272	82,265,016	-	-	-	-	-	752,850	3,654,626	-	300,280	4,707,756	12,309,964	(60,056)	12,249,908
00273	Edina - ISD #273	80,993,557	-	-	-	-	-	741,214	3,598,141	-	1,427,999	5,767,354	12,119,706	(285,600)	11,834,106
00276	Minnetonka - ISD #276	110,278,384	-	-	-	2,549,045	2,549,045	1,009,215	4,899,121	-	-	5,908,336	16,501,826	509,809	17,011,635
00277	Westonka - ISD #277	20,731,378	-	-	-	-	-	189,724	920,992	-	113,439	1,224,155	3,102,200	(22,688)	3,079,512
00278	Orono - ISD #278	26,502,479	-	-	-	-	-	242,538	1,177,373	-	100,093	1,520,004	3,965,775	(20,019)	3,945,756
00279	Osseo - ISD #279	208,188,944	-	-	-	15,948,213	15,948,213	1,905,245	9,248,800	-	-	11,154,045	31,152,956	3,189,643	34,342,599
00280	Richfield - ISD #280	42,494,785	-	-	-	1,134,392	1,134,392	388,892	1,887,832	-	-	2,276,724	6,358,830	226,878	6,585,708
00281	Robbinsdale - ISD #281	112,936,888	-	-	-	-	-	1,033,544	5,017,225	-	980,915	7,031,684	16,899,638	(196,183)	16,703,455
00282	St Anthony - ISD #282	14,828,178	-	-	-	253,570	253,570	135,700	658,742	-	-	794,442	2,218,857	50,714	2,269,571
00283	St Louis Park - ISD #283	36,855,784	-	-	-	-	-	337,286	1,637,319	-	10,403,039	12,377,644	5,515,022	(2,080,608)	3,434,414
00284	Wayzata - ISD #284	112,045,216	-	-	-	-	-	1,025,384	4,977,612	-	1,000,934	7,003,930	16,766,211	(200,187)	16,566,024
00286	Brooklyn Center - ISD #286	20,037,856	-	-	-	907,513	907,513	183,377	890,182	-	-	1,073,559	2,998,423	181,503	3,179,926
00287	Interm School District #287	41,594,857	-	-	-	-	-	380,656	1,847,853	-	433,738	2,662,247	6,224,167	(86,748)	6,137,419
00288	Southwest Metro Intermediate District	15,249,246	-	-	-	1,468,037	1,468,037	139,554	677,448	-	-	817,002	2,281,865	293,607	2,575,472
00294	Houston - ISD #294	14,019,068	-	-	-	126,785	126,785	128,296	622,798	-	-	751,094	2,097,784	25,357	2,123,141
00297	Spring Grove - ISD #297	2,930,960	-	-	-	86,747	86,747	26,823	130,208	-	-	157,031	438,583	17,350	455,933
00299	Caledonia - ISD #299	5,812,382	-	-	-	246,897	246,897	53,192	258,215	-	-	311,407	869,753	49,379	919,132
00300	LaCrescent - ISD #300	7,810,388	-	-	-	6,672	6,672	71,477	346,977	-	-	418,454	1,168,730	1,335	1,170,065
00306	Laporte - ISD #306	2,518,148	-	-	-	33,364	33,364	23,045	111,869	-	-	134,914	376,810	6,673	383,483
00308	Nevis - ISD #308	3,987,756	-	-	-	-	-	36,494	177,156	-	126,785	340,435	596,719	(25,357)	571,362
00309	Park Rapids - ISD #309	13,160,421	-	-	-	213,532	213,532	120,438	584,652	-	-	705,090	1,969,298	42,707	2,012,005
00314	Braham - ISD #314	4,706,048	-	-	-	-	-	43,067	209,066	-	140,131	392,264	704,203	(28,026)	676,177
00316	Greenway Schools - ISD #316	8,338,786	-	-	-	333,645	333,645	76,313	370,451	-	-	446,764	1,247,798	66,729	1,314,527
00317	Deer River - ISD #317	8,578,217	-	-	-	-	-	78,504	381,088	-	106,767	566,359	1,283,626	(21,353)	1,262,273
00318	Grand Rapids - ISD #318	31,538,776	-	-	-	-	-	288,628	1,401,111	-	1,394,634	3,084,373	4,719,396	(278,927)	4,440,469
00319	Nashwauk-Keewatin - ISD #319	4,590,461	-	-	-	-	-	42,010	203,931	-	233,551	479,492	686,907	(46,710)	640,197
00330	Heron Lake-Okabena - ISD #330	2,295,230	-	-	-	-	-	21,005	101,966	-	100,093	223,064	343,453	(20,019)	323,434
00332	Mora - ISD #332	12,252,236	-	-	-	-	-	112,127	544,306	-	106,767	763,200	1,833,399	(21,353)	1,812,046
00333	Ogilvie - ISD #333	3,698,788	-	-	-	-	-	33,850	164,319	-	100,093	298,262	553,479	(20,019)	533,460
00345	New London-Spicer - ISD #345	12,227,468	-	-	-	487,121	487,121	111,900	543,206	-	-	655,106	1,829,693	97,424	1,927,117
00347	Willmar - ISD #347	37,953,862	-	-	-	3,076,203	3,076,203	347,336	1,686,101	-	-	2,033,437	5,679,336	615,241	6,294,577
00356	Lancaster - ISD #356	1,618,220	-	-	-	-	-	14,809	71,889	-	73,402	160,100	242,147	(14,680)	227,467
00361	International Falls - ISD #361	7,290,246	-	-	-	-	-	66,717	323,869	-	260,242	650,828	1,090,897	(52,049)	1,038,848
00362	Littlefork - Big Falls - ISD #362	2,130,106	-	-	-	-	-	19,494	94,630	-	113,439	227,563	318,745	(22,688)	296,057
00363	So Koochiching-Rainy River - ISD #363	2,955,728	-	-	-	-	-	27,049	131,308	-	26,692	185,049	442,289	(5,338)	436,951
00378	Dawson - ISD #378	4,598,717	-	-	-	-	-	42,085	204,298	-	80,075	326,458	688,142	(16,015)	672,127
00381	Lake Superior - ISD #381	12,541,204	-	-	-	100,093	100,093	114,771	557,143	-	-	671,914	1,876,639	20,019	1,896,658

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

			Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred		
		Net Pension	Difference Between			Total Deferred		Difference Between			Total Deferred		Proportionate	Amounts from	Total Pension
ID	Entity	Liability	Expected and	Projected and	Changes in	Outflows of		Expected and	Projected and	Changes in	Inflows of		Share of Plan	Changes in	Expense
			Actual Experience	Earnings	Assumptions	Resources		Actual Experience	Earnings	Assumptions	Resources		Pension Expense	Proportion	Expense
00382	Northwest Reg Intrdst Council #382	1,172,384	-	-	-	6,672	6,672	10,729	52,083	-	-	62,812	175,433	1,335	176,768
00390	Lake of the Woods - ISD #390	3,740,069	-	-	-	113,439	113,439	34,227	166,153	-	-	200,380	559,656	22,688	582,344
00391	Cleveland - ISD #391	4,086,831	-	-	-	200,187	200,187	37,401	181,558	-	-	218,959	611,545	40,037	651,582
00397	Lake Agassiz Spec Ed Coop #397	1,890,675	-	-	-	173,495	173,495	17,303	83,993	-	-	101,296	282,917	34,699	317,616
00398	Midwest Spec Ed Coop #398	1,783,344	-	-	-	26,692	26,692	16,320	79,225	-	-	95,545	266,856	5,338	272,194
00402	Hendricks - ISD #402	1,527,401	-	-	-	33,364	33,364	13,978	67,855	-	-	81,833	228,557	6,673	235,230
00403	Ivanhoe - ISD #403	561,423	-	-	-	-	-	5,138	24,941	-	53,383	83,462	84,010	(10,677)	73,333
00404	Lake Benton - ISD #404	965,978	-	-	-	-	-	8,840	42,914	-	6,672	58,426	144,547	(1,335)	143,212
00413	Marshall - ISD #413	22,333,086	-	-	-	233,551	233,551	204,382	992,148	-	-	1,196,530	3,341,876	46,710	3,388,586
00414	Minneota - ISD #414	3,896,938	-	-	-	66,729	66,729	35,663	173,122	-	-	208,785	583,130	13,346	596,476
00415	Lynd - ISD #415	1,378,789	-	-	-	-	-	12,618	61,253	-	13,346	87,217	206,319	(2,669)	203,650
00423	Hutchinson - ISD #423	21,012,090	-	-	-	880,822	880,822	192,293	933,463	-	-	1,125,756	3,144,205	176,164	3,320,369
00424	Lester Prairie - ISD #424	2,873,166	-	-	-	-	-	26,294	127,640	-	93,421	247,355	429,935	(18,684)	411,251
00432	Mahnomen - ISD #432	5,845,407	-	-	-	-	-	53,494	259,682	-	13,346	326,522	874,694	(2,669)	872,025
00435	Waubun - ISD #435	5,572,951	-	-	-	-	-	51,001	247,579	-	66,729	365,309	833,925	(13,346)	820,579
00441	Marshall County Central - ISD #441	3,046,547	-	-	-	-	-	27,881	135,343	-	120,112	283,336	455,879	(24,022)	431,857
00447	Grygla - ISD #447	1,766,832	-	-	-	33,364	33,364	16,169	78,492	-	-	94,661	264,385	6,673	271,058
00458	Truman - ISD #458	2,229,180	-	-	-	-	-	20,400	99,031	-	26,692	146,123	333,570	(5,338)	328,232
00463	Eden Valley - Watkins - ISD #463	6,307,755	-	-	-	-	-	57,726	280,222	-	93,421	431,369	943,879	(18,684)	925,195
00465	Litchfield - ISD #465	11,178,927	-	-	-	246,897	246,897	102,304	496,624	-	-	598,928	1,672,791	49,379	1,722,170
00466	Dassel-Cokato - ISD #466	14,836,435	-	-	-	-	-	135,776	659,109	-	133,457	928,342	2,220,093	(26,692)	2,193,401
00473	Isle - ISD #473	3,385,052	-	-	-	6,672	6,672	30,978	150,381	-	-	181,359	506,532	1,335	507,867
00477	Princeton - ISD #477	24,116,430	-	-	-	540,504	540,504	220,702	1,071,373	-	-	1,292,075	3,608,732	108,101	3,716,833
00480	Onamia - ISD #480	5,234,446	-	-	-	-	-	47,903	232,540	-	320,299	600,742	783,271	(64,060)	719,211
00482	Little Falls - ISD #482	19,880,987	-	-	-	747,364	747,364	181,941	883,213	-	-	1,065,154	2,974,949	149,473	3,124,422
00484	Pierz - ISD #484	9,147,896	-	-	-	160,149	160,149	83,717	406,396	-	-	490,113	1,368,872	32,030	1,400,902
00485	Royalton - ISD #485	5,333,521	-	-	-	20,018	20,018	48,810	236,942	-	-	285,752	798,097	4,004	802,101
00486	Swanville - ISD #486	2,435,586	-	-	-	220,206	220,206	22,289	108,201	-	-	130,490	364,456	44,041	408,497
00487	Upsala - ISD #487	2,848,397	-	-	-	33,364	33,364	26,067	126,540	-	-	152,607	426,228	6,673	432,901
00492	Austin - ISD #492	42,552,578	-	-	-	-	-	389,421	1,890,400	-	300,280	2,580,101	6,367,478	(60,056)	6,307,422
00495	Grand Meadow - ISD #495	2,922,703	-	-	-	-	-	26,747	129,841	-	226,878	383,466	437,347	(45,376)	391,971
00497	Lyle - ISD #497	2,253,949	-	-	-	120,112	120,112	20,627	100,132	-	-	120,759	337,276	24,022	361,298
00499	LeRoy - ISD #499	2,336,511	-	-	-	73,402	73,402	21,383	103,800	-	-	125,183	349,631	14,680	364,311
00500	Southland - ISD #500	3,244,696	-	-	-	153,477	153,477	29,694	144,146	-	-	173,840	485,529	30,695	516,224
00505	Fulda - ISD #505	3,162,134	-	-	-	60,056	60,056	28,938	140,478	-	-	169,416	473,175	12,011	485,186
00507	Nicollet - ISD #507	2,369,536	-	-	-	-	-	21,685	105,267	-	186,841	313,793	354,572	(37,368)	317,204
00508	St Peter - ISD #508	17,998,568	-	-	-	120,112	120,112	164,714	799,587	-	-	964,301	2,693,268	24,022	2,717,290
00511	Adrian - ISD #511	3,847,400	-	-	-	-	-	35,210	170,921	-	20,018	226,149	575,717	(4,004)	571,713
00514	Ellsworth - ISD #514	1,172,384	-	-	-	-	-	10,729	52,083	-	113,439	176,251	175,433	(22,688)	152,745
00518	Worthington - ISD #518	26,436,429	-	-	-	-	-	241,934	1,174,439	-	427,065	1,843,438	3,955,892	(85,413)	3,870,479
00531	Byron - ISD #531	15,331,808	-	-	-	60,056	60,056	140,309	681,116	-	-	821,425	2,294,220	12,011	2,306,231
00533	Dover-Eyota - ISD #533	7,785,619	-	-	-	-	-	71,250	345,876	-	100,093	517,219	1,165,024	(20,019)	1,145,005
00534	Stewartville - ISD #534	14,638,285	-	-	-	246,897	246,897	133,963	650,306	-	-	784,269	2,190,442	49,379	2,239,821
00535	Rochester - ISD #535	155,968,328	-	-	-	-	-	1,427,347	6,928,898	-	2,849,325	11,205,570	23,338,773	(569,865)	22,768,908
00542	Battle Lake Public Schools - ISD #542	3,294,233	-	-	-	-	-	30,147	146,346	-	33,364	209,857	492,942	(6,673)	486,269
00544	Fergus Falls - ISD #544	19,038,853	-	-	-	180,168	180,168	174,234	845,802	-	-	1,020,036	2,848,934	36,034	2,884,968
00545	Henning - ISD #545	3,071,315	-	-	-	40,037	40,037	28,107	136,443	-	-	164,550	459,585	8,008	467,593
00547	Parkers Prairie - ISD #547	3,839,144	-	-	-	-	-	35,134	170,554	-	253,570	459,258	574,481	(50,714)	523,767
00548	Pelican Rapids - ISD #548	6,728,823	-	-	-	193,514	193,514	61,579	298,928	-	-	360,507	1,006,887	38,703	1,045,590
00549	Perham - ISD #549	11,831,169	-	-	-	13,346	13,346	108,273	525,600	-	-	633,873	1,770,391	2,669	1,773,060
00550	Underwood - ISD #550	4,210,674	-	-	-	213,532	213,532	38,534	187,059	-	-	225,593	630,076	42,707	672,783
00553	New York Mills - ISD #553	5,069,322	-	-	-	273,588	273,588	46,392	225,205	-	-	271,597	758,563	54,718	813,281
00561	Goodridge - ISD #561	1,956,725	-	-	-	73,402	73,402	17,907	86,928	-	-	104,835	292,800	14,680	307,480
00564	Thief River Falls Public Schools #564	13,540,207	-	-	-	353,663	353,663	123,913	601,524	-	-	725,437	2,026,128	70,733	2,096,861
00577	Willow River - ISD #577	3,418,077	-	-	-	-	-	31,281	151,848	-	13,346	196,475	511,474	(2,669)	508,805
00578	Pine City - ISD #578	11,385,333	-	-	-	-	-	104,193	505,794	-	633,925	1,243,912	1,703,677	(126,785)	1,576,892
00581	Edgerton - ISD #581	3,492,383	-	-	-	46,710	46,710	31,961	155,149	-	-	187,110	522,593	9,342	531,935
00592	Climax - ISD #592	1,758,576	-	-	-	-	-	16,094	78,125	-	193,514	287,733	263,150	(38,703)	224,447

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

			Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred			
			Difference Between		Projected and Actual Investment Earnings	Changes in Assumptions	Changes in Proportion	Total Deferred Outflows of Resources	Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Amounts from Changes in Proportion	Total Pension Expense
ID	Entity	Net Pension Liability	Difference Between Expected and Actual Experience	Expected and Actual Experience					Actual Investment Earnings	Actual Investment Earnings						
00593	Crookston - ISD #593	8,594,729	-	-	-	-	-	78,655	381,821	-	173,495	633,971	1,286,097	(34,699)	1,251,398	
00595	East Grand Forks - ISD #595	14,918,997	-	-	-	447,084	447,084	136,531	662,777	-	-	799,308	2,232,447	89,417	2,321,864	
00599	Fertile-Beltrami - ISD #599	3,640,995	-	-	-	-	-	33,321	161,751	-	40,037	235,109	544,831	(8,008)	536,823	
00600	Fisher - ISD #600	2,055,800	-	-	-	-	-	18,814	91,329	-	140,131	250,274	307,626	(28,026)	279,600	
00601	Fosston - ISD #601	4,945,478	-	-	-	193,514	193,514	45,259	219,703	-	-	264,962	740,031	38,703	778,734	
00621	Mounds View - ISD #621	95,144,725	-	-	-	-	-	870,719	4,226,807	-	2,148,672	7,246,198	14,237,257	(429,734)	13,807,523	
00622	North St Paul-Maplewood - ISD #622	95,722,661	-	-	-	1,354,597	1,354,597	876,008	4,252,482	-	-	5,128,490	14,323,738	270,920	14,594,658	
00623	Roseville - ISD #623	70,780,608	-	-	-	1,114,373	1,114,373	647,750	3,144,431	-	-	3,792,181	10,591,461	222,875	10,814,336	
00624	White Bear Lake - ISD #624	77,558,968	-	-	-	-	-	709,782	3,445,560	-	1,701,587	5,856,929	11,605,761	(340,318)	11,265,443	
00630	Red Lake Falls - ISD #630	3,541,920	-	-	-	-	-	32,414	157,350	-	26,692	216,456	530,005	(5,338)	524,667	
00635	Milroy - ISD #635	470,605	-	-	-	-	-	4,307	20,907	-	13,346	38,560	70,420	(2,669)	67,751	
00640	Wabasso - ISD #640	3,005,266	-	-	-	-	-	27,503	133,509	-	133,457	294,469	449,702	(26,692)	423,010	
00656	Faribault - ISD #656	32,868,028	-	-	-	-	-	300,792	1,460,163	-	794,074	2,555,029	4,918,303	(158,815)	4,759,488	
00659	Northfield - ISD #659	35,955,856	-	-	-	-	-	329,051	1,597,340	-	974,242	2,900,633	5,380,359	(194,849)	5,185,510	
00671	Hills-Beaver Creek - ISD #671	2,485,123	-	-	-	-	-	22,743	110,402	-	53,383	186,528	371,869	(10,677)	361,192	
00676	Badger - ISD #676	2,113,593	-	-	-	46,710	46,710	19,343	93,896	-	-	113,239	316,274	9,342	325,616	
00682	Roseau - ISD #682	8,421,348	-	-	-	113,439	113,439	77,068	374,119	-	-	451,187	1,260,153	22,688	1,282,841	
00690	Warroad - ISD #690	7,471,883	-	-	-	-	-	68,379	331,939	-	553,850	954,168	1,118,077	(110,770)	1,007,307	
00695	Chisholm - ISD #695	5,118,859	-	-	-	-	-	46,845	227,405	-	20,018	294,268	765,975	(4,004)	761,971	
00696	Ely - ISD #696	4,161,137	-	-	-	26,692	26,692	38,081	184,859	-	-	222,940	622,664	5,338	628,002	
00698	Floodwood - ISD #698	1,444,839	-	-	-	-	-	13,222	64,187	-	6,672	84,081	216,203	(1,335)	214,868	
00700	Hermantown - ISD #700	14,085,118	-	-	-	-	-	128,900	625,732	-	66,729	821,361	2,107,667	(13,346)	2,094,321	
00701	Hibbing - ISD #701	17,849,956	-	-	-	-	-	163,354	792,985	-	266,916	1,223,255	2,671,030	(53,383)	2,617,647	
00704	Proctor - ISD #704	14,563,979	-	-	-	-	-	133,283	647,005	-	13,346	793,634	2,179,323	(2,669)	2,176,654	
00707	Nett Lake - ISD #707	693,523	-	-	-	-	-	6,347	30,810	-	26,692	63,849	103,777	(5,338)	98,439	
00709	Duluth - ISD #709	73,802,386	-	-	-	1,654,877	1,654,877	675,404	3,278,673	-	-	3,954,077	11,043,634	330,976	11,374,610	
00712	Mountain Iron-Buhl - ISD #712	4,103,343	-	-	-	6,672	6,672	37,552	182,291	-	-	219,843	614,016	1,335	615,351	
00716	Belle Plaine - ISD #716	9,907,469	-	-	-	-	-	90,668	440,140	-	420,392	951,200	1,482,533	(84,079)	1,398,454	
00717	Jordan - ISD #717	14,225,474	-	-	-	-	-	130,185	631,967	-	146,803	908,955	2,128,670	(29,361)	2,099,309	
00719	Prior Lake - ISD #719	67,651,499	-	-	-	767,382	767,382	619,114	3,005,420	-	-	3,624,534	10,123,228	153,477	10,276,705	
00720	Shakopee - ISD #720	71,003,526	-	-	-	7,246,762	7,246,762	649,790	3,154,334	-	-	3,804,124	10,624,818	1,449,352	12,074,170	
00721	New Prague - ISD #721	32,719,416	-	-	-	-	-	299,432	1,453,561	-	126,785	1,879,778	4,896,065	(25,357)	4,870,708	
00726	Becker - ISD #726	21,218,496	-	-	-	120,112	120,112	194,181	942,632	-	-	1,136,813	3,175,091	24,022	3,199,113	
00727	Big Lake - ISD #727	23,951,306	-	-	-	1,081,008	1,081,008	219,191	1,064,037	-	-	1,283,228	3,584,023	216,202	3,800,225	
00728	Elk River - ISD #728	103,855,042	-	-	-	2,182,036	2,182,036	950,432	4,613,763	-	-	5,564,195	15,540,650	436,407	15,977,057	
00738	Holdingford - ISD #738	6,720,566	-	-	-	26,692	26,692	61,503	298,561	-	-	360,064	1,005,651	5,338	1,010,989	
00739	Kimball - ISD #739	5,292,240	-	-	-	146,803	146,803	48,432	235,108	-	-	283,540	791,920	29,361	821,281	
00740	Melrose - ISD #740	9,502,914	-	-	-	26,692	26,692	86,966	422,167	-	-	509,133	1,421,996	5,338	1,427,334	
00741	Paynesville - ISD #741	7,290,246	-	-	-	-	-	66,717	323,869	-	133,457	524,043	1,090,897	(26,692)	1,064,205	
00742	St Cloud - ISD #742	94,723,658	-	-	-	-	-	866,865	4,208,101	-	620,579	5,695,545	14,174,249	(124,116)	14,050,133	
00743	Sauk Centre - ISD #743	9,461,633	-	-	-	166,822	166,822	86,588	420,333	-	-	506,921	1,415,819	33,365	1,449,184	
00745	Albany - ISD #745	14,341,061	-	-	-	-	-	131,243	637,102	-	180,168	948,513	2,145,966	(36,034)	2,109,932	
00748	Sartell - ISD #748	31,225,039	-	-	-	747,364	747,364	285,757	1,387,173	-	-	1,672,930	4,672,449	149,473	4,821,922	
00750	Rocori - ISD #750	16,239,993	-	-	-	-	-	148,621	721,462	-	367,009	1,237,092	2,430,118	(73,402)	2,356,716	
00756	Blooming Prairie - ISD #756	6,803,129	-	-	-	166,822	166,822	62,259	302,229	-	-	364,488	1,018,006	33,365	1,051,371	
00761	Owatonna - ISD #761	40,472,010	-	-	-	-	-	370,380	1,797,970	-	553,850	2,722,200	6,056,146	(110,770)	5,945,376	
00763	Medford - ISD #763	5,977,506	-	-	-	-	-	54,703	265,551	-	20,018	340,272	894,461	(4,004)	890,457	
00768	Hancock - ISD #768	3,071,315	-	-	-	46,710	46,710	28,107	136,443	-	-	164,550	459,585	9,342	468,927	
00771	Chokio-Alberta - ISD #771	1,560,426	-	-	-	-	-	14,280	69,322	-	66,729	150,331	233,499	(13,346)	220,153	
00775	Kerkhoven-Murdock-Sunburg - ISD #775	5,663,770	-	-	-	-	-	51,832	251,613	-	46,710	350,155	847,515	(9,342)	838,173	
00777	Benson - ISD #777	6,208,680	-	-	-	6,672	6,672	56,819	275,821	-	-	332,640	929,054	1,335	930,389	
00786	Bertha-Hewitt - ISD #786	3,624,482	-	-	-	-	-	33,170	161,018	-	113,439	307,627	542,360	(22,688)	519,672	
00787	Browerville - ISD #787	3,987,756	-	-	-	66,729	66,729	36,494	177,156	-	-	213,650	596,719	13,346	610,065	
00801	Browns Valley - ISD #801	1,370,533	-	-	-	-	-	12,542	60,886	-	6,672	80,100	205,084	(1,335)	203,749	
00803	Wheaton - ISD #803	3,153,878	-	-	-	-	-	28,863	140,111	-	46,710	215,684	471,940	(9,342)	462,598	
00811	Wabasha-Kellogg - ISD #811	6,291,243	-	-	-	26,692	26,692	57,574	279,489	-	-	337,063	941,408	5,338	946,746	
00813	Lake City - ISD #813	8,850,672	-	-	-	-	-	80,997	393,191	-	173,495	647,683	1,324,396	(34,699)	1,289,697	
00815	Prinsburg - ISD #815	222,918	-	-	-	-	-	2,040	9,903	-	-	11,943	33,357	-	33,357	

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

			Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred		
			Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Outflows of Resources	Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Amounts from Changes in Proportion	Total Pension Expense
ID	Entity	Net Pension Liability	Difference Between Expected and Actual Experience	Projected and Actual Investment Earnings				Difference Between Expected and Actual Experience	Projected and Actual Investment Earnings						
00818	Verndale - ISD #818	3,781,351	-	-	-	193,514	193,514	34,605	167,987	-	-	202,592	565,833	38,703	604,536
00820	Sebeka - ISD #820	3,698,788	-	-	-	-	-	33,850	164,319	-	160,149	-	553,479	(32,030)	521,449
00821	Menahga - ISD #821	6,241,705	-	-	-	140,131	140,131	57,121	277,288	-	-	334,409	933,996	28,026	962,022
00829	Waseca - ISD #829	14,547,467	-	-	-	-	-	133,131	646,272	-	493,794	1,273,197	2,176,852	(98,759)	2,078,093
00831	Forest Lake - ISD #831	44,682,684	-	-	-	-	-	408,914	1,985,030	-	1,341,252	3,735,196	6,686,223	(268,250)	6,417,973
00832	Mahtomedi - ISD #832	26,163,974	-	-	-	106,767	106,767	239,440	1,162,335	-	-	1,401,775	3,915,122	21,353	3,936,475
00833	South Washington County - ISD #833	160,938,574	-	-	-	260,242	260,242	1,472,833	7,149,701	-	-	8,622,534	24,082,510	52,049	24,134,559
00834	Stillwater - ISD #834	68,724,809	-	-	-	1,314,560	1,314,560	628,936	3,053,102	-	-	3,682,038	10,283,836	262,912	10,546,748
00836	Butterfield - ISD #836	2,105,337	-	-	-	-	-	19,267	93,530	-	33,364	146,161	315,038	(6,673)	308,365
00837	Madella - ISD #837	4,565,692	-	-	-	40,037	40,037	41,783	202,831	-	-	244,614	683,201	8,008	691,209
00840	St James - ISD #840	7,653,520	-	-	-	-	-	70,041	340,008	-	140,131	550,180	1,145,257	(28,026)	1,117,231
00846	Breckenridge - ISD #846	4,664,767	-	-	-	-	-	42,690	207,232	-	86,747	336,669	698,026	(17,350)	680,676
00850	Rothsay - ISD #850	1,898,932	-	-	-	86,747	86,747	17,378	84,360	-	-	101,738	284,152	17,350	301,502
00852	Campbell-Tintah - ISD #852	1,089,822	-	-	-	-	-	9,974	48,415	-	66,729	125,118	163,079	(13,346)	149,733
00857	Lewiston - ISD #857	5,242,702	-	-	-	-	-	47,979	232,907	-	460,429	741,315	784,507	(92,086)	692,421
00858	St Charles - ISD #858	7,876,438	-	-	-	186,841	186,841	72,081	349,911	-	-	421,992	1,178,614	37,368	1,215,982
00861	Winona Area Public Schools - ISD #861	23,010,096	-	-	-	-	-	210,577	1,022,224	-	707,327	1,940,128	3,443,182	(141,465)	3,301,717
00876	Annandale - ISD #876	15,315,296	-	-	-	246,897	246,897	140,158	680,382	-	-	820,540	2,291,749	49,379	2,341,128
00877	Buffalo - ISD #877	42,090,230	-	-	-	-	-	385,190	1,869,860	-	-	2,255,050	6,298,294	-	6,298,294
00879	Delano - ISD #879	16,793,160	-	-	-	-	-	153,683	746,037	-	180,168	1,079,888	2,512,893	(36,034)	2,476,859
00881	Maple Lake - ISD #881	6,010,531	-	-	-	26,692	26,692	55,005	267,018	-	-	322,023	899,403	5,338	904,741
00882	Monticello - ISD #882	37,375,926	-	-	-	-	-	342,047	1,660,427	-	373,682	2,376,156	5,592,855	(74,736)	5,518,119
00883	Rockford - ISD #883	11,641,276	-	-	-	-	-	106,535	517,164	-	173,495	797,194	1,741,976	(34,699)	1,707,277
00885	St Michael - ISD #885	47,621,900	-	-	-	-	-	435,813	2,115,604	-	300,280	2,851,697	7,126,041	(60,056)	7,065,985
00891	Canby - ISD #891	3,830,888	-	-	-	40,037	40,037	35,058	170,187	-	-	205,245	573,246	8,008	581,254
00911	Cambridge-Isanti - ISD #911	34,279,842	-	-	-	1,040,971	1,040,971	313,713	1,522,883	-	-	1,836,596	5,129,563	208,194	5,337,757
00912	Milaca - ISD #912	12,252,236	-	-	-	-	-	112,127	544,306	-	320,299	976,732	1,833,399	(64,060)	1,769,339
00914	Ulen - Hitterdal -ISD #914	2,518,148	-	-	-	40,037	40,037	23,045	111,869	-	-	134,914	376,810	8,008	384,818
00915	Southern Plains #915	3,896,938	-	-	-	-	-	35,663	173,122	-	-	208,785	583,130	-	583,130
00916	NE Metro Interm School Dist. #916	31,514,007	-	-	-	3,209,662	3,209,662	288,401	1,400,011	-	-	1,688,412	4,715,690	641,932	5,357,622
00917	Interm School District #917	21,986,325	-	-	-	-	-	201,208	976,743	-	1,000,934	2,178,885	3,289,987	(200,187)	3,089,800
00920	Metro ECSU #920	1,378,789	-	-	-	86,747	86,747	12,618	61,253	-	-	73,871	206,319	17,350	223,669
00921	Southeast Service Coop #921	2,220,924	-	-	-	133,457	133,457	20,325	98,665	-	-	118,990	332,334	26,692	359,026
00922	South Central Serv Coop #922	1,081,565	-	-	-	80,075	80,075	9,898	48,049	-	-	57,947	161,843	16,015	177,858
00923	Resource Training and Solutions #923	2,088,825	-	-	-	-	-	19,116	92,796	-	33,364	145,276	312,567	(6,673)	305,894
00924	North Central Service Coop #924	3,996,012	-	-	-	800,747	800,747	36,570	177,523	-	-	214,093	597,955	160,150	758,105
00925	Sourcewell Technology #925	371,530	-	-	-	-	-	3,400	16,505	-	333,645	353,550	55,595	(66,729)	(11,134)
00926	Lakes Country Serv Coop #926	4,029,037	-	-	-	-	-	36,872	178,990	-	33,364	249,226	602,897	(6,673)	596,224
00927	Northeast Service Coop #927	916,441	-	-	-	126,785	126,785	8,387	40,713	-	-	49,100	137,134	25,357	162,491
00928	Northwest MN Service Co-op #928	2,187,899	-	-	-	120,112	120,112	20,023	97,197	-	-	117,220	327,393	24,022	351,415
00935	Fergus Falls Spec Ed Coop #935	3,021,778	-	-	-	333,645	333,645	27,654	134,243	-	-	161,897	452,173	66,729	518,902
00938	Meeker & Wright Spec Ed Coop #938	6,704,054	-	-	-	513,812	513,812	61,352	297,828	-	-	359,180	1,003,181	102,763	1,105,944
00966	Wright Technical Ctr #966	2,171,387	-	-	-	-	-	19,871	96,464	-	26,692	143,027	324,922	(5,338)	319,584
00978	MN Valley Coop Ctr #978	1,981,494	-	-	-	-	-	18,134	88,028	-	113,439	219,601	296,507	(22,688)	273,819
00985	Pine to Prairie Coop Ctr #985	140,356	-	-	-	-	-	1,284	6,235	-	-	7,519	21,003	-	21,003
00991	SW/W Central Service Cooperative #991	20,120,418	-	-	-	1,421,326	1,421,326	184,132	893,850	-	-	1,077,982	3,010,777	284,265	3,295,042
00997	Area Special Educ Coop #997	2,675,017	-	-	-	113,439	113,439	24,480	118,838	-	-	143,318	400,284	22,688	422,972
00998	Bemidji Reg Interdist Council #998	5,226,190	-	-	-	226,878	226,878	47,828	232,174	-	-	280,002	782,036	45,376	827,412
02071	Lake Crystal-Wellcome Memorial ISD #2071	6,621,492	-	-	-	-	-	60,597	294,160	-	193,514	548,271	990,826	(38,703)	952,123
02125	Triton Schools - ISD #2125	7,703,057	-	-	-	46,710	46,710	70,495	342,209	-	-	412,704	1,152,669	9,342	1,162,011
02134	United South Central - ISD #2134	5,952,738	-	-	-	86,747	86,747	54,477	264,451	-	-	318,928	890,755	17,350	908,105
02135	Maple River - ISD #2135	6,068,325	-	-	-	-	-	55,534	269,586	-	40,037	365,157	908,051	(8,008)	900,043
02137	Kingsland - ISD #2137	3,987,756	-	-	-	60,056	60,056	36,494	177,156	-	-	213,650	596,719	12,011	608,730
02142	St Louis County Schools - ISD #2142	17,461,914	-	-	-	-	-	159,803	775,746	-	480,448	1,415,997	2,612,964	(96,090)	2,516,874
02143	Waterville-Elysian-Morristown ISD #2143	5,523,414	-	-	-	-	-	50,548	245,378	-	186,841	482,767	826,512	(37,368)	789,144
02144	Chisago Lakes Area - ISD #2144	24,512,729	-	-	-	487,121	487,121	224,329	1,088,979	-	-	1,313,308	3,668,033	97,424	3,765,457
02149	Minnewaska Area - ISD #2149	11,377,077	-	-	-	313,626	313,626	104,118	505,427	-	-	609,545	1,702,442	62,725	1,765,167
02155	Wadena-Deer Creek - ISD #2155	8,264,480	-	-	-	160,149	160,149	75,633	367,150	-	-	442,783	1,236,679	32,030	1,268,709

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

			Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred			
			Difference Between		Projected and Actual Investment Earnings	Changes in Assumptions	Changes in Proportion	Total Deferred Outflows of Resources	Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Amounts from Changes in Proportion	Total Pension Expense
ID	Entity	Net Pension Liability	Difference Between Expected and Actual Experience	Expected and Actual Experience												
02159	Buffalo Lake-Hector - ISD #2159	3,987,756	-	-	-	-	100,093	100,093	36,494	177,156	-	-	213,650	596,719	20,019	616,738
02164	Dilworth-Glyndon-Felton - ISD #2164	11,038,571	-	-	-	-	-	-	101,020	490,389	-	313,626	905,035	1,651,789	(62,725)	1,589,064
02165	Hinckley-Finlayson - ISD #2165	7,719,569	-	-	-	-	300,280	300,280	70,646	342,942	-	-	413,588	1,155,140	60,056	1,215,196
02167	Lakeview - ISD #2167	5,127,115	-	-	-	-	60,056	60,056	46,921	227,772	-	-	274,693	767,211	12,011	779,222
02168	NRHEG - ISD #2168	5,663,770	-	-	-	-	-	-	51,832	251,613	-	320,299	623,744	847,515	(64,060)	783,455
02169	Murray County Central - ISD #2169	5,110,603	-	-	-	-	-	-	46,770	227,039	-	333,645	607,454	764,740	(66,729)	698,011
02170	Staples-Motley - ISD #2170	6,093,093	-	-	-	-	-	-	55,761	270,686	-	373,682	700,129	911,758	(74,736)	837,022
02171	Kittson Central - ISD #2171	2,435,586	-	-	-	-	26,692	26,692	22,289	108,201	-	-	130,490	364,456	5,338	369,794
02172	Kenyon-Wanamingo - ISD #2172	4,829,891	-	-	-	-	-	-	44,201	214,568	-	46,710	305,479	722,735	(9,342)	713,393
02174	Pine River-Backus - ISD #2174	7,191,171	-	-	-	-	-	-	65,810	319,468	-	133,457	518,735	1,076,072	(26,692)	1,049,380
02176	Warren-Alvarado-Oslo - ISD #2176	4,251,955	-	-	-	-	-	-	38,912	188,893	-	13,346	241,151	636,254	(2,669)	633,585
02180	MACCRAY - ISD #2180	6,018,787	-	-	-	-	66,729	66,729	55,081	267,385	-	-	322,466	900,639	13,346	913,985
02184	Luverne - ISD #2184	9,841,419	-	-	-	-	26,692	26,692	90,064	437,205	-	-	527,269	1,472,649	5,338	1,477,987
02190	Yellow Medicine East - ISD #2190	4,144,624	-	-	-	-	13,346	13,346	37,930	184,125	-	-	222,055	620,193	2,669	622,862
02198	Fillmore Central - ISD #2198	4,491,386	-	-	-	-	-	-	41,103	199,530	-	13,346	253,979	672,082	(2,669)	669,413
02215	Norman County East - ISD #2215	2,072,312	-	-	-	-	-	-	18,965	92,063	-	126,785	237,813	310,096	(25,357)	284,739
02310	Sibley East - ISD #2310	6,869,178	-	-	-	-	-	-	62,863	305,163	-	246,897	614,923	1,027,889	(49,379)	978,510
02311	Clearbrook-Gonvick - ISD #2311	3,500,639	-	-	-	-	106,767	106,767	32,036	155,516	-	-	187,552	523,828	21,353	545,181
02342	West Central Area - ISD #2342	6,415,086	-	-	-	-	-	-	58,708	284,990	-	13,346	357,044	959,940	(2,669)	957,271
02358	Tri-County - ISD #2358	1,634,732	-	-	-	-	-	-	14,960	72,623	-	186,841	274,424	244,618	(37,368)	207,250
02364	Belgrade-Brooten-Elrosa - ISD #2364	4,590,461	-	-	-	-	-	-	42,010	203,931	-	173,495	419,436	686,907	(34,699)	652,208
02365	Gibbon-Fairfax-Winthrop - ISD #2365	5,201,421	-	-	-	-	153,477	153,477	47,601	231,073	-	-	278,674	778,330	30,695	809,025
02396	Atwater-Cosmos-Grove City - ISD #2396	7,199,427	-	-	-	-	146,803	146,803	65,886	319,835	-	-	385,721	1,077,307	29,361	1,106,668
02397	Le Sueur-Henderson - ISD #2397	6,456,367	-	-	-	-	-	-	59,086	286,824	-	126,785	472,695	966,117	(25,357)	940,760
02448	Martin County West - ISD #2448	4,598,717	-	-	-	-	-	-	42,085	204,298	-	273,588	519,971	688,142	(54,718)	633,424
02534	BOLD - ISD #2534	4,194,162	-	-	-	-	13,346	13,346	38,383	186,326	-	-	224,709	627,606	2,669	630,275
02536	Granada-Huntley-E Chain - ISD #2536	2,443,842	-	-	-	-	153,477	153,477	22,365	108,568	-	-	130,933	365,691	30,695	396,386
02580	East Central - ISD #2580	6,035,300	-	-	-	-	40,037	40,037	55,232	268,118	-	-	323,350	903,110	8,008	911,118
02609	Win-E-Mac - ISD #2609	3,211,671	-	-	-	-	60,056	60,056	29,392	142,679	-	-	172,071	480,588	12,011	492,599
02683	Greenbush-Middle River - ISD #2683	1,989,750	-	-	-	-	-	-	18,209	88,395	-	33,364	139,968	297,742	(6,673)	291,069
02687	Howard Lake-Waverly-Winsted - ISD #2687	9,230,458	-	-	-	-	40,037	40,037	84,473	410,063	-	-	494,536	1,381,226	8,008	1,389,234
02689	Pipestone Area Schools - ISD #2689	7,917,719	-	-	-	-	-	-	72,459	351,745	-	320,299	744,503	1,184,791	(64,060)	1,120,731
02711	Mesabi East - ISD #2711	6,803,129	-	-	-	-	-	-	62,259	302,229	-	300,280	664,768	1,018,006	(60,056)	957,950
02752	Fairmont-Ceylon - ISD #2752	12,731,097	-	-	-	-	-	-	116,509	565,579	-	186,841	868,929	1,905,055	(37,368)	1,867,687
02753	Long Prairie-Grey Eagle - ISD #2753	7,273,733	-	-	-	-	-	-	66,566	323,136	-	160,149	549,851	1,088,426	(32,030)	1,056,396
02754	Cedar Mountain - ISD #2754	3,063,059	-	-	-	-	-	-	28,032	136,076	-	53,383	217,491	458,350	(10,677)	447,673
02769	Morris Area Schools - ISD #2769	8,148,893	-	-	-	-	313,626	313,626	74,575	362,015	-	-	436,590	1,219,383	62,725	1,282,108
02805	Zumbrota-Mazeppa - ISD #2805	9,668,038	-	-	-	-	246,897	246,897	88,477	429,503	-	-	517,980	1,446,705	49,379	1,496,084
02835	Janesville-Waldorf-Pemberton - ISD #2835	5,828,894	-	-	-	-	126,785	126,785	53,343	258,949	-	-	312,292	872,223	25,357	897,580
02853	Lac qui Parle Valley - ISD #2853	6,357,292	-	-	-	-	-	-	58,179	282,423	-	367,009	707,611	951,292	(73,402)	877,890
02856	Stephen-Argyle - ISD #2856	2,468,611	-	-	-	-	-	-	22,592	109,668	-	186,841	319,101	369,398	(37,368)	332,030
02859	Glencoe-Silver Lake - ISD #2859	11,261,490	-	-	-	-	-	-	103,060	500,292	-	306,953	910,305	1,685,146	(61,391)	1,623,755
02860	Blue Earth Area Public Schools #2860	8,066,331	-	-	-	-	413,719	413,719	73,819	358,347	-	-	432,166	1,207,029	82,744	1,289,773
02884	Red Rock Central - ISD #2884	3,616,226	-	-	-	-	46,710	46,710	33,094	160,651	-	-	193,745	541,124	9,342	550,466
02886	Glenville-Emmons - ISD #2886	1,799,857	-	-	-	-	6,672	6,672	16,471	79,959	-	-	96,430	269,327	1,335	270,662
02888	Clinton-Graceville-Beardsley - ISD #2888	2,386,049	-	-	-	-	53,383	53,383	21,836	106,000	-	-	127,836	357,043	10,677	367,720
02889	Lake Park-Audubon District - ISD #2889	5,267,471	-	-	-	-	293,607	293,607	48,205	234,008	-	-	282,213	788,213	58,722	846,935
02890	Renville County West - ISD #2890	4,474,873	-	-	-	-	73,402	73,402	40,952	198,796	-	-	239,748	669,611	14,680	684,291
02895	Jackson County Central Schools ISD #2895	8,941,491	-	-	-	-	-	-	81,828	397,226	-	233,551	712,605	1,337,986	(46,710)	1,291,276
02897	Redwood Area Schools - ISD #2897	8,743,341	-	-	-	-	80,075	80,075	80,015	388,423	-	-	468,438	1,308,335	16,015	1,324,350
02898	Westbrook-Walnut Grove Public School #2898	3,517,151	-	-	-	-	-	-	32,187	156,250	-	133,457	321,894	526,299	(26,692)	499,607
02899	Plainview-Elgin-Millville ISD #2899	10,039,568	-	-	-	-	160,149	160,149	91,877	446,008	-	-	537,885	1,502,300	32,030	1,534,330
02902	RTR Public School #2902	3,962,988	-	-	-	-	120,112	120,112	36,267	176,056	-	-	212,323	593,013	24,022	617,035
02903	Ortonville Public School #2903	3,971,244	-	-	-	-	-	-	36,343	176,423	-	73,402	286,168	594,249	(14,680)	579,569
02904	Tracy Area School District #2904	4,961,991	-	-	-	-	20,018	20,018	45,410	220,437	-	-	265,847	742,502	4,004	746,506
02905	Tri-City United ISD #2905	14,134,655	-	-	-	-	-	-	129,354	627,932	-	46,710	803,996	2,115,080	(9,342)	2,105,738
02906	Red Lake County Central - ISD #2906	3,021,778	-	-	-	-	-	-	27,654	134,243	-	166,822	328,719	452,173	(33,365)	418,808
02907	Round Lake/Brewster - ISD #2907	2,831,885	-	-	-	-	-	-	25,916	125,807	-	20,018	171,741	423,757	(4,004)	419,753

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

			Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred		
ID	Entity	Net Pension Liability	Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Outflows of Resources	Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Amounts from Changes in Proportion	Total Pension Expense
			Difference Between Expected and Actual Experience	Projected and Actual Investment Earnings				Difference Between Expected and Actual Experience	Projected and Actual Investment Earnings						
02908	Brandon/Evansville - ISD #2908	3,880,425	-	-	-	126,785	126,785	35,512	172,388	-	-	207,900	580,659	25,357	606,016
02909	Rock Ridge Public Schools	18,163,693	-	-	-	140,131	140,131	166,225	806,923	-	-	973,148	2,717,977	28,026	2,746,003
02910	Ada-Borup West Public Schools	5,143,628	-	-	-	453,757	453,757	47,072	228,506	-	-	275,578	769,682	90,751	860,433
03333	Pine Point - ISD #3333	1,197,152	-	-	-	13,346	13,346	10,956	53,184	-	-	64,140	179,139	2,669	181,808
04000	City Academy	883,416	-	-	-	-	-	8,085	39,246	-	46,710	94,041	132,193	(9,342)	122,851
04001	Bluffview Montessori	1,271,458	-	-	-	26,692	26,692	11,636	56,485	-	-	68,121	190,258	5,338	195,596
04003	New Heights School	965,978	-	-	-	13,346	13,346	8,840	42,914	-	-	51,754	144,547	2,669	147,216
04004	Cedar-Riverside Community School	8,256	-	-	-	-	-	76	367	-	233,551	233,994	1,235	(46,710)	(45,475)
04005	Metro Deaf School	4,846,403	-	-	-	260,242	260,242	44,352	215,302	-	-	259,654	725,206	52,049	777,255
04007	New Country Charter School	1,874,163	-	-	-	106,767	106,767	17,151	83,260	-	-	100,411	280,446	21,353	301,799
04008	PACT Charter School	4,020,781	-	-	-	333,645	333,645	36,796	178,623	-	-	215,419	601,661	66,729	668,390
04011	Athlos Leadership Academy	5,688,538	-	-	-	-	-	52,059	252,713	-	60,056	364,828	851,221	(12,011)	839,210
04015	Community of Peace	5,853,663	-	-	-	-	-	53,570	260,049	-	360,336	673,955	875,930	(72,067)	803,863
04016	World Learner School	1,122,846	-	-	-	-	-	10,276	49,882	-	166,822	226,980	168,020	(33,365)	134,655
04017	MN Transitions Charter School	10,997,290	-	-	-	80,075	80,075	100,642	488,555	-	-	589,197	1,645,611	16,015	1,661,626
04018	Achieve Language Academy	3,550,176	-	-	-	-	-	32,490	157,717	-	280,262	470,469	531,241	(56,052)	475,189
04020	Duluth Edison Charter School	8,809,391	-	-	-	-	-	80,619	391,357	-	553,850	1,025,826	1,318,219	(110,770)	1,207,449
04025	Cyber Village Academy	2,353,024	-	-	-	13,346	13,346	21,534	104,533	-	-	126,067	352,102	2,669	354,771
04026	ECHO Charter School	478,861	-	-	-	-	-	4,382	21,273	-	-	25,655	71,656	-	71,656
04027	Higher Ground	5,944,481	-	-	-	-	-	54,401	264,084	-	66,729	385,214	889,520	(13,346)	876,174
04029	St Paul City School	5,523,414	-	-	-	814,092	814,092	50,548	245,378	-	-	295,926	826,512	162,819	989,331
04031	Jennings Experiential High School	462,349	-	-	-	-	-	4,231	20,540	-	26,692	51,463	69,185	(5,338)	63,847
04035	Life Prep Academy	1,651,245	-	-	-	-	-	15,111	73,357	-	186,841	275,309	247,089	(37,368)	209,721
04036	Face to Face Academy	1,065,053	-	-	-	13,346	13,346	9,747	47,315	-	-	57,062	159,372	2,669	162,041
04038	Sojourner Truth Academy	3,038,290	-	-	-	220,206	220,206	27,805	134,976	-	-	162,781	454,643	44,041	498,684
04039	High School for Recording Arts	1,296,227	-	-	-	-	-	11,862	57,585	-	166,822	236,269	193,965	(33,365)	160,600
04043	Math & Science Academy	3,236,440	-	-	-	360,336	360,336	29,618	143,779	-	-	173,397	484,294	72,067	556,361
04049	Northwest Passage High School	1,147,615	-	-	-	-	-	10,502	50,983	-	100,093	161,578	171,727	(20,019)	151,708
04050	Lafayette Charter School	57,794	-	-	-	-	-	529	2,567	-	260,242	263,338	8,648	(52,049)	(43,401)
04053	North Lakes Academy	4,053,806	-	-	-	-	-	37,098	180,090	-	100,093	317,281	606,603	(20,019)	586,584
04054	LaCrescent Montessori Academy	503,630	-	-	-	13,346	13,346	4,609	22,374	-	-	26,983	75,362	2,669	78,031
04055	Nerstrand Elementary School	602,704	-	-	-	-	-	5,516	26,775	-	173,495	205,786	90,187	(34,699)	55,488
04056	Rosa Parks Charter High School Total	454,092	-	-	-	113,439	113,439	4,156	20,173	-	-	24,329	67,949	22,688	90,637
04057	El Colegio Charter School	974,234	-	-	-	-	-	8,916	43,280	-	6,672	58,868	145,782	(1,335)	144,447
04058	Schoolcraft Learning Community	1,164,128	-	-	-	-	-	10,654	51,716	-	80,075	142,445	174,198	(16,015)	158,183
04059	Crosslake Community School	3,178,646	-	-	-	326,972	326,972	29,089	141,211	-	-	170,300	475,646	65,394	541,040
04064	Riverway Learning Community	858,647	-	-	-	-	-	7,858	38,145	-	26,692	72,695	128,486	(5,338)	123,148
04066	Kato Public Charter School	569,679	-	-	-	-	-	5,213	25,308	-	106,767	137,288	85,246	(21,353)	63,893
04067	Aurora Charter School	2,988,753	-	-	-	-	-	27,352	132,775	-	73,402	233,529	447,231	(14,680)	432,551
04068	Excell Academy for Higher Learning	4,103,343	-	-	-	173,495	173,495	37,552	182,291	-	-	219,843	614,016	34,699	648,715
04070	HOPE Community Academy	5,267,471	-	-	-	507,140	507,140	48,205	234,008	-	-	282,213	788,213	101,428	889,641
04073	Academia Cesar Chavez	2,782,347	-	-	-	-	-	25,463	123,606	-	246,897	395,966	416,345	(49,379)	366,966
04074	AFSA High School	3,484,127	-	-	-	200,187	200,187	31,885	154,782	-	-	186,667	521,357	40,037	561,394
04075	Avalon School	2,972,241	-	-	-	146,803	146,803	27,201	132,042	-	-	159,243	444,760	29,361	474,121
04078	MN International Middle School	5,878,431	-	-	-	-	-	53,797	261,149	-	346,990	661,936	879,636	(69,398)	810,238
04079	Friendship Academy of Fine Arts	1,874,163	-	-	-	-	-	17,151	83,260	-	53,383	153,794	280,446	(10,677)	269,769
04080	Pillager Area Charter School	396,299	-	-	-	6,672	6,672	3,627	17,606	-	-	21,233	59,301	1,335	60,636
04081	Discovery Public School of Faribault	470,605	-	-	-	-	-	4,307	20,907	-	26,692	51,906	70,420	(5,338)	65,082
04082	BlueSky Charter School	5,655,513	-	-	-	-	-	51,757	251,246	-	26,692	329,695	846,279	(5,338)	840,941
04083	Ridgeway Community School	553,167	-	-	-	-	-	5,062	24,574	-	6,672	36,308	82,775	(1,335)	81,440
04084	North Shore Community School	2,212,668	-	-	-	-	-	20,249	98,298	-	40,037	158,584	331,099	(8,008)	323,091
04085	Harbor City International	1,453,095	-	-	-	-	-	13,298	64,554	-	66,729	144,581	217,438	(13,346)	204,092
04087	SAGE Academy	710,035	-	-	-	26,692	26,692	6,498	31,543	-	-	38,041	106,248	5,338	111,586
04088	Urban Academy	3,087,828	-	-	-	320,299	320,299	28,258	137,177	-	-	165,435	462,056	64,060	526,116
04089	New City School Charter School	2,419,074	-	-	-	166,822	166,822	22,138	107,467	-	-	129,605	361,985	33,365	395,350
04090	Prairie Creek Community School	1,320,996	-	-	-	-	-	12,089	58,685	-	40,037	110,811	197,671	(8,008)	189,663
04091	Arcadia Charter School	1,131,103	-	-	-	140,131	140,131	10,351	50,249	-	-	60,600	169,256	28,026	197,282
04092	Watershed High School	421,067	-	-	-	-	-	3,853	18,706	-	20,018	42,577	63,008	(4,004)	59,004

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

			Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred			
			Difference Between		Projected and Actual Investment Earnings	Changes in Assumptions	Changes in Proportion	Total Deferred Outflows of Resources	Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Amounts from Changes in Proportion	Total Pension Expense
ID	Entity	Net Pension Liability	Difference Between Expected and Actual Experience	Actual Investment					Actual Experience	Actual Investment Earnings						
04093	New Century Charter School	784,341	-	-	-	-	-	7,178	34,844	-	-	6,672	48,694	117,367	(1,335)	116,032
04095	Trio Wolf Creek Distance Learning	1,238,434	-	-	-	86,747	86,747	11,334	55,017	-	-	-	66,351	185,317	17,350	202,667
04097	Partnership Academy, Inc.	5,977,506	-	-	-	160,149	160,149	54,703	265,551	-	-	-	320,254	894,461	32,030	926,491
04098	Nova Classical Academy	5,903,200	-	-	-	-	-	54,023	262,250	-	113,439	429,712	883,342	(22,688)	860,654	
04100	Great Expectations School	850,391	-	-	-	100,093	100,093	7,782	37,779	-	-	45,561	127,251	20,019	147,270	
04102	Mn Internship Center	2,394,305	-	-	-	-	-	21,912	106,367	-	233,551	361,830	358,279	(46,710)	311,569	
04103	Hmong Academy	14,720,847	-	-	-	847,457	847,457	134,718	653,974	-	-	788,692	2,202,797	169,492	2,372,289	
04104	Paladin Academy (Liberty High School)	1,221,921	-	-	-	33,364	33,364	11,182	54,284	-	-	65,466	182,846	6,673	189,519	
04105	Great River School	5,011,528	-	-	-	140,131	140,131	45,863	222,637	-	-	268,500	749,915	28,026	777,941	
04106	Trek North High School	2,253,949	-	-	-	106,767	106,767	20,627	100,132	-	-	120,759	337,276	21,353	358,629	
04107	Voyageurs Expeditionary School	932,953	-	-	-	20,018	20,018	8,538	41,446	-	-	49,984	139,605	4,004	143,609	
04110	Performing Institute of Minnesota Arts High School	2,798,860	-	-	-	-	-	25,614	124,339	-	60,056	210,009	418,816	(12,011)	406,805	
04111	Augsburg Academy for Health Careers	388,043	-	-	-	-	-	3,551	17,239	-	100,093	120,883	58,066	(20,019)	38,047	
04112	St Paul Conservatory for Performing Arts	2,716,298	-	-	-	100,093	100,093	24,858	120,672	-	-	145,530	406,461	20,019	426,480	
04113	Spero Academy	4,970,247	-	-	-	1,548,111	1,548,111	45,485	220,803	-	-	266,288	743,737	309,622	1,053,359	
04116	Lakes International Language Academy	8,908,466	-	-	-	220,206	220,206	81,526	395,759	-	-	477,285	1,333,044	44,041	1,377,085	
04118	Kaleidoscope Charter School	3,814,375	-	-	-	-	-	34,907	169,454	-	433,738	638,099	570,775	(86,748)	484,027	
04119	Academic Arts High School	1,056,797	-	-	-	106,767	106,767	9,671	46,948	-	-	56,619	158,137	21,353	179,490	
04120	St Croix Preparatory School	7,793,875	-	-	-	480,448	480,448	71,326	346,243	-	-	417,569	1,166,259	96,090	1,262,349	
04121	UBAH Medical Academy	2,072,312	-	-	-	-	-	18,965	92,063	-	13,346	124,374	310,096	(2,669)	307,427	
04122	Eagle Ridge Academy	9,313,021	-	-	-	240,224	240,224	85,228	413,731	-	-	498,959	1,393,581	48,045	1,441,626	
04124	Beacon Academy	3,905,194	-	-	-	-	-	35,738	173,488	-	387,027	596,253	584,365	(77,406)	506,959	
04126	Prairie Seeds Academy	5,391,314	-	-	-	360,336	360,336	49,339	239,509	-	-	288,848	806,745	72,067	878,812	
04127	TEAM Academy	1,205,409	-	-	-	53,383	53,383	11,031	53,550	-	-	64,581	180,375	10,677	191,052	
04131	Metro School Charter Total	4,392,311	-	-	-	360,336	360,336	40,196	195,129	-	-	235,325	657,256	72,067	729,323	
04132	Twin Cities Academy High School	3,979,500	-	-	-	-	-	36,418	176,789	-	-	213,207	595,484	-	595,484	
04135	Rochester Math and Science Academy	2,452,099	-	-	-	-	-	22,440	108,935	-	133,457	264,832	366,927	(26,692)	340,235	
04137	Swan River Montessori	1,147,615	-	-	-	60,056	60,056	10,502	50,983	-	-	61,485	171,727	12,011	183,738	
04139	LoveWorks Academy	924,697	-	-	-	-	-	8,462	41,080	-	120,112	169,654	138,370	(24,022)	114,348	
04140	Yinghua Academy	4,458,361	-	-	-	-	-	40,801	198,063	-	393,701	632,565	667,140	(78,740)	588,400	
04142	Stride Academy	3,731,813	-	-	-	113,439	113,439	34,152	165,786	-	-	199,938	558,421	22,688	581,109	
04143	New Millennium Academy	5,407,827	-	-	-	153,477	153,477	49,490	240,243	-	-	289,733	809,216	30,695	839,911	
04144	Green Isle Community School	338,505	-	-	-	6,672	6,672	3,098	15,038	-	-	18,136	50,653	1,335	51,988	
04145	Birch Grove Charter School	355,018	-	-	-	6,672	6,672	3,249	15,772	-	-	19,021	53,124	1,335	54,459	
04146	Northern Lights Community School	949,466	-	-	-	-	-	8,689	42,180	-	20,018	70,887	142,076	(4,004)	138,072	
04150	Minnesota Online High School	2,286,974	-	-	-	220,206	220,206	20,929	101,599	-	-	122,528	342,218	44,041	386,259	
04151	EdVisions Off-Campus Charter School	1,015,516	-	-	-	46,710	46,710	9,294	45,114	-	-	54,408	151,960	9,342	161,302	
04152	Twin Cities German Immersion School	3,855,657	-	-	-	280,262	280,262	35,285	171,288	-	-	206,573	576,952	56,052	633,004	
04153	Dugsi Academy	2,575,942	-	-	-	53,383	53,383	23,574	114,436	-	-	138,010	385,459	10,677	396,136	
04155	Naytahwaush Community School	1,312,740	-	-	-	-	-	12,014	58,318	-	106,767	177,099	196,436	(21,353)	175,083	
04159	Seven Hills Classical	7,959,000	-	-	-	293,607	293,607	72,837	353,579	-	-	426,416	1,190,968	58,722	1,249,690	
04160	Spectrum HS	4,681,279	-	-	-	213,532	213,532	42,841	207,966	-	-	250,807	700,497	42,707	743,204	
04161	New Discoveries Montessori Academy	2,303,486	-	-	-	40,037	40,037	21,080	102,332	-	-	123,412	344,689	8,008	352,697	
04162	Southside Family Charter School	800,854	-	-	-	120,112	120,112	7,329	35,578	-	-	42,907	119,838	24,022	143,860	
04164	Laura Jeffrey Academy	1,015,516	-	-	-	-	-	9,294	45,114	-	26,692	81,100	151,960	(5,338)	146,622	
04166	East Range Academy of Tech and Science	866,904	-	-	-	-	-	7,933	38,512	-	113,439	159,884	129,722	(22,688)	107,034	
04167	International Spanish Language Academy	2,493,380	-	-	-	240,224	240,224	22,818	110,768	-	-	133,586	373,104	48,045	421,149	
04168	Glacial Hills Elementary School	833,879	-	-	-	-	-	7,631	37,045	-	6,672	51,348	124,780	(1,335)	123,445	
04169	Stonebridge Community School	1,758,576	-	-	-	-	-	16,094	78,125	-	86,747	180,966	263,150	(17,350)	245,800	
04170	Hiawatha Academies	13,251,240	-	-	-	-	-	121,269	588,687	-	286,934	996,890	1,982,888	(57,387)	1,925,501	
04171	Noble Academy	2,278,718	-	-	-	-	-	20,854	101,232	-	266,916	389,002	340,983	(53,383)	287,600	
04172	Clarkfield Area Charter School	156,868	-	-	-	-	-	1,436	6,969	-	173,495	181,900	23,473	(34,699)	(11,226)	
04178	Lincoln International Charter School	1,197,152	-	-	-	6,672	6,672	10,956	53,184	-	-	64,140	179,139	1,335	180,474	
04181	Community School of Excellence	7,736,082	-	-	-	460,429	460,429	70,797	343,676	-	-	414,473	1,157,611	92,086	1,249,697	
04183	Lionsgate Academy	9,692,807	-	-	-	280,262	280,262	88,704	430,603	-	-	519,307	1,450,411	56,052	1,506,463	
04184	Aspen Academy	3,352,027	-	-	-	-	-	30,676	148,914	-	126,785	306,375	501,590	(25,357)	476,233	
04185	DaVinci Academy of Art and Science	5,614,232	-	-	-	-	-	51,379	249,412	-	226,878	527,669	840,102	(45,376)	794,726	
04186	Global Academy, Inc.	3,740,069	-	-	-	-	-	34,227	166,153	-	166,822	367,202	559,656	(33,365)	526,291	

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

			Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred			
			Difference Between		Projected and Actual Investment Earnings	Changes in Assumptions	Changes in Proportion	Total Deferred Outflows of Resources	Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Amounts from Changes in Proportion	Total Pension Expense
ID	Entity	Net Pension Liability	Difference Between Expected and Actual Experience	Expected and Actual Experience					Actual Investment Earnings	Actual Experience						
04188	Cologne Academy	5,061,065	-	-	-	-	100,093	100,093	46,316	224,838	-	-	271,154	757,327	20,019	777,346
04189	Bright Water Elementary Charter School	701,779	-	-	-	-	40,037	40,037	6,422	31,177	-	-	37,599	105,013	8,008	113,021
04191	KIPP Minnesota	3,211,671	-	-	-	-	-	-	29,392	142,679	-	1,241,158	1,413,229	480,588	(248,232)	232,356
04192	Best Academy	5,729,819	-	-	-	-	-	-	52,437	254,547	-	20,018	327,002	857,398	(4,004)	853,394
04193	College Prep Elementary	1,296,227	-	-	-	-	33,364	33,364	11,862	57,585	-	-	69,447	193,965	6,673	200,638
04194	Cannon River STEM School	2,113,593	-	-	-	-	-	-	19,343	93,896	-	206,860	320,099	316,274	(41,372)	274,902
04195	Oshki Ogimaag Charter School	355,018	-	-	-	-	-	-	3,249	15,772	-	26,692	45,713	53,124	(5,338)	47,786
04198	Discovery Woods Montessori	685,267	-	-	-	-	13,346	13,346	6,271	30,443	-	-	36,714	102,542	2,669	105,211
04199	Parnassus Preparatory School	7,826,900	-	-	-	-	246,897	246,897	71,628	347,710	-	-	419,338	1,171,201	49,379	1,220,580
04200	Step Academy	4,590,461	-	-	-	-	153,477	153,477	42,010	203,931	-	-	245,941	686,907	30,695	717,602
04201	Cornerstone Montessori Elementary School	800,854	-	-	-	-	100,093	100,093	7,329	35,578	-	-	42,907	119,838	20,019	139,857
04204	Rochester STEM Academy	660,498	-	-	-	-	-	-	6,045	29,343	-	6,672	42,060	98,836	(1,335)	97,501
04205	Hennepin Elementary School	3,186,902	-	-	-	-	46,710	46,710	29,165	141,578	-	-	170,743	476,881	9,342	486,223
04207	Vermilion Country School	297,224	-	-	-	-	-	-	2,720	13,204	-	6,672	22,596	44,476	(1,335)	43,141
04208	Nasha Shkola Charter School	726,548	-	-	-	-	-	-	6,649	32,277	-	-	38,926	108,719	-	108,719
04210	Upper Mississippi Academy	2,138,362	-	-	-	-	-	-	19,569	94,997	-	673,962	788,528	319,980	(134,793)	185,187
04213	Prodeo Academy	7,108,609	-	-	-	-	273,588	273,588	65,055	315,800	-	-	380,855	1,063,717	54,718	1,118,435
04215	Sejong Academy	3,368,539	-	-	-	-	533,832	533,832	30,827	149,647	-	-	180,474	504,061	106,766	610,827
04217	Technical Academies of Minnesota	908,185	-	-	-	-	-	-	8,311	40,346	-	66,729	115,386	135,899	(13,346)	122,553
04218	Venture Academy	3,649,251	-	-	-	-	-	-	33,396	162,118	-	200,187	395,701	546,066	(40,037)	506,029
04219	Northeast College Prep Charter School	2,889,678	-	-	-	-	-	-	26,445	128,374	-	166,822	321,641	432,405	(33,365)	399,040
04220	Agamim Hebrew Language School	1,651,245	-	-	-	-	-	-	15,111	73,357	-	160,149	248,617	247,089	(32,030)	215,059
04221	Discovery Charter School	1,213,665	-	-	-	-	-	-	11,107	53,917	-	113,439	178,463	181,610	(22,688)	158,922
04223	Saint Cloud Math and Science Academy	2,220,924	-	-	-	-	153,477	153,477	20,325	98,665	-	-	118,990	332,334	30,695	363,029
04224	Star of the North Academy	677,010	-	-	-	-	-	-	6,196	30,076	-	193,514	229,786	101,306	(38,703)	62,603
04225	Universal Academy Charter School	2,757,579	-	-	-	-	-	-	25,236	122,506	-	226,878	374,620	412,638	(45,376)	367,262
04226	Bdote Learning Center	610,961	-	-	-	-	-	-	5,591	27,142	-	380,355	413,088	91,423	(76,071)	15,352
04227	Art and Science Academy	2,154,874	-	-	-	-	-	-	19,720	95,730	-	233,551	349,001	322,451	(46,710)	275,741
04228	Woodbury Leadership Academy	3,731,813	-	-	-	-	260,242	260,242	34,152	165,786	-	-	199,938	558,421	52,049	610,470
04229	Jane Goodall Environmental Sciences Acad	842,135	-	-	-	-	-	-	7,707	37,412	-	60,056	105,175	126,015	(12,011)	114,004
04230	Minnesota Excellence in Learning Academy	1,535,658	-	-	-	-	46,710	46,710	14,054	68,222	-	-	82,276	229,793	9,342	239,135
04231	Minnesota Math and Science Academy	3,789,607	-	-	-	-	-	-	34,681	168,353	-	-	203,034	567,069	-	567,069
04232	Success Academy School	1,502,633	-	-	-	-	240,224	240,224	13,751	66,755	-	-	80,506	224,851	48,045	272,896
04233	Level Up Academy Charter School	1,535,658	-	-	-	-	273,588	273,588	14,054	68,222	-	-	82,276	229,793	54,718	284,511
04237	Career Pathways	710,035	-	-	-	-	-	-	6,498	31,543	-	100,093	138,134	106,248	(20,019)	86,229
04238	Rochester Beacon Academy	1,122,846	-	-	-	-	-	-	10,276	49,882	-	13,346	73,504	168,020	(2,669)	165,351
04239	TESFA International School	1,642,989	-	-	-	-	-	-	15,036	72,990	-	166,822	254,848	245,853	(33,365)	212,488
04240	New Century Academy	3,517,151	-	-	-	-	413,719	413,719	32,187	156,250	-	-	188,437	526,299	82,744	609,043
04243	North Metro Flex Academy	1,543,914	-	-	-	-	26,692	26,692	14,129	68,588	-	-	82,717	231,028	5,338	236,366
04244	FIT Academy	2,633,735	-	-	-	-	246,897	246,897	24,103	117,004	-	-	141,107	394,107	49,379	443,486
04250	Athlos Academy of St Cloud	3,170,390	-	-	-	-	-	-	29,014	140,845	-	367,009	536,868	474,410	(73,402)	401,008
04253	Phoenix Academy	734,804	-	-	-	-	20,018	20,018	6,725	32,644	-	-	39,369	109,955	4,004	113,959
04254	Marine Area Charter School	1,841,138	-	-	-	-	346,990	346,990	16,849	81,793	-	-	98,642	275,504	69,398	344,902
04255	Skyline Math & Science Academy	1,320,996	-	-	-	-	-	-	12,089	58,685	-	473,775	544,549	197,671	(94,755)	102,916
04258	The Journey School	660,498	-	-	-	-	200,187	200,187	6,045	29,343	-	-	35,388	98,836	40,037	138,873
04261	SciTech Academy	1,436,583	-	-	-	-	-	-	13,147	63,820	-	13,346	90,313	214,967	(2,669)	212,298
04263	Progeny Academy	313,737	-	-	-	-	-	-	2,871	13,938	-	20,018	36,827	46,947	(4,004)	42,943
04264	Gateway STEM Academy Charter School	1,304,483	-	-	-	-	-	-	11,938	57,952	-	6,672	76,562	195,200	(1,335)	193,865
04265	Minnesota Wildflower Montessori School	809,110	-	-	-	-	93,421	93,421	7,405	35,945	-	-	43,350	121,074	18,684	139,758
04266	Three Rivers Montessori School	776,085	-	-	-	-	153,477	153,477	7,102	34,478	-	-	41,580	116,132	30,695	146,827
04267	Horizon Science Academy Twin Cities	693,523	-	-	-	-	66,729	66,729	6,347	30,810	-	-	37,157	103,777	13,346	117,123
04268	Great Oaks Academy	1,312,740	-	-	-	-	467,102	467,102	12,014	58,318	-	-	70,332	196,436	93,421	289,857
04269	Quantum STEAM Academy Charter School	916,441	-	-	-	-	220,206	220,206	8,387	40,713	-	-	49,100	137,134	44,041	181,175
04270	STEAM Academy Charter School	288,968	-	-	-	-	93,421	93,421	2,644	12,837	-	-	15,481	43,241	18,684	61,925
04271	Aurora Waasakone Community of Learners	974,234	-	-	-	-	146,803	146,803	8,916	43,280	-	-	52,196	145,782	29,361	175,143
04273	Modern Montessori Charter School	916,441	-	-	-	-	26,692	26,692	8,387	40,713	-	-	49,100	137,134	5,338	142,472
04275	St. Paul Northern Lights Charter School	1,527,401	-	-	-	-	106,767	106,767	13,978	67,855	-	-	81,833	228,557	21,353	249,910
04276	Notre Ecole Academy Charter School	371,530	-	-	-	-	13,346	13,346	3,400	16,505	-	-	19,905	55,595	2,669	58,264

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

			Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred			
			Difference Between		Projected and Actual Investment Earnings	Changes in Assumptions	Changes in Proportion	Total Deferred Outflows of Resources	Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Amounts from Changes in Proportion	Total Pension Expense
ID	Entity	Net Pension Liability	Difference Between Expected and Actual Experience	Actual Investment					Expected and Actual Experience	Actual Investment Earnings						
04279	Exploration High School Charter School	520,142	-	-	-	186,841	186,841	4,760	23,107	-	-	27,867	77,833	37,368	115,201	
04280	Aspire Academy Charter School	586,192	-	-	-	180,168	180,168	5,365	26,042	-	-	31,407	87,717	36,034	123,751	
04282	Innovation Science & Technology Academy	445,836	-	-	-	-	-	4,080	19,806	-	20,018	43,904	66,714	(4,004)	62,710	
04283	Escuela Exitos Charter School	503,630	-	-	-	-	-	4,609	22,374	-	13,346	40,329	75,362	(2,669)	72,693	
04284	Gentry Academy Charter School	1,659,501	-	-	-	140,131	140,131	15,187	73,723	-	-	88,910	248,324	28,026	276,350	
04285	Aim Academy of Science & Technology	470,605	-	-	-	40,037	40,037	4,307	20,907	-	-	25,214	70,420	8,008	78,428	
04286	Link Public Schools Charter School	148,612	-	-	-	-	-	1,360	6,602	-	13,346	21,308	22,238	(2,669)	19,569	
04287	Cross River Charter School	57,794	-	-	-	-	-	529	2,567	-	166,822	169,918	8,648	(33,365)	(24,717)	
04288	Kandiyohi Academy Charter School	-	-	-	-	-	-	-	-	-	46,710	46,710	-	(9,342)	(9,342)	
04289	Oak Hill Montessori Community School	1,114,590	-	-	-	206,860	206,860	10,200	49,516	-	-	59,716	166,785	41,372	208,157	
04290	Kalon Prep Academy Charter School	1,007,259	-	-	-	313,626	313,626	9,218	44,748	-	-	53,966	150,724	62,725	213,449	
04291	Creekstone Montessori Charter School	445,836	-	-	-	360,336	360,336	4,080	19,806	-	-	23,886	66,714	72,067	138,781	
04292	School Of Leadership for Public Service	82,562	-	-	-	66,729	66,729	756	3,668	-	-	4,424	12,354	13,346	25,700	
04293	Rollingstone Community School Charter	239,430	-	-	-	186,841	186,841	2,191	10,637	-	-	12,828	35,828	37,368	73,196	
04295	Bultum Academy	421,067	-	-	-	340,317	340,317	3,853	18,706	-	-	22,559	63,008	68,064	131,072	
04297	Marine Village School Charter School	247,687	-	-	-	200,187	200,187	2,267	11,003	-	-	13,270	37,063	40,037	77,100	
04298	Endazhi-Nitaawiging Charter	503,630	-	-	-	407,047	407,047	4,609	22,374	-	-	26,983	75,362	81,409	156,771	
05001	MN Family Career & Comm Leaders of America	41,281	-	-	-	-	-	378	1,834	-	60,056	62,268	6,177	(12,011)	(5,834)	
05002	MN Business Professionals of America	49,537	-	-	-	6,672	6,672	453	2,201	-	-	2,654	7,413	1,335	8,748	
05004	MN Delta Epsilon / DECA	49,537	-	-	-	6,672	6,672	453	2,201	-	-	2,654	7,413	1,335	8,748	
06004	Freshwater Education Dist. #6004	7,678,288	-	-	-	20,018	20,018	70,268	341,108	-	-	411,376	1,148,963	4,004	1,152,967	
06009	St. Croix River Education District	4,697,791	-	-	-	6,672	6,672	42,992	208,700	-	-	251,692	702,968	1,335	704,303	
06012	Zumbro Education District #6012	5,110,603	-	-	-	40,037	40,037	46,770	227,039	-	-	273,809	764,740	8,008	772,748	
06013	Hiawatha Valley Ed Dist. #6013	5,903,200	-	-	-	20,018	20,018	54,023	262,250	-	-	316,273	883,342	4,004	887,346	
06014	Runestone Area Education Dist. #6014	1,519,145	-	-	-	-	-	13,902	67,488	-	460,429	541,819	227,322	(92,086)	135,236	
06017	MN Transitions - Connections Academy	11,401,845	-	-	-	-	-	104,344	506,527	-	280,262	891,133	1,706,148	(56,052)	1,650,096	
06026	W Central Education Dist. #6026	3,079,572	-	-	-	226,878	226,878	28,183	136,810	-	-	164,993	460,821	45,376	506,197	
06027	MN Valley Educ Dist. #6027	3,806,119	-	-	-	220,206	220,206	34,832	169,087	-	-	203,919	569,540	44,041	613,581	
06049	Riverbend Educational Dist. #6049	4,664,767	-	-	-	220,206	220,206	42,690	207,232	-	-	249,922	698,026	44,041	742,067	
06051	Goodhue County Ed Dist. #6051	9,998,287	-	-	-	727,345	727,345	91,500	444,174	-	-	535,674	1,496,123	145,469	1,641,592	
06067	East Metro Integration District	16,512	-	-	-	-	-	151	734	-	300,280	301,165	2,471	(60,056)	(57,585)	
06070	Itasca Area Schools Collaborative	2,229,180	-	-	-	106,767	106,767	20,400	99,031	-	-	119,431	333,570	21,353	354,923	
06076	Northland Learning Center - ISD #6076	5,845,407	-	-	-	346,990	346,990	53,494	259,682	-	-	313,176	874,694	69,398	944,092	
06078	Northwest Suburban ISD #6078	156,868	-	-	-	-	-	1,436	6,969	-	-	8,405	23,473	-	23,473	
06079	Rum River Special Education Coop	5,110,603	-	-	-	273,588	273,588	46,770	227,039	-	-	273,809	764,740	54,718	819,458	
06080	Minnesota's Digital Academy	412,811	-	-	-	-	-	3,778	18,339	-	20,018	42,135	61,772	(4,004)	57,768	
06083	Southern Minnesota Education Consortium	3,632,739	-	-	-	400,373	400,373	33,245	161,385	-	-	194,630	543,595	80,075	623,670	
06094	Cannon Valley Special Education Coop	3,442,845	-	-	-	146,803	146,803	31,507	152,949	-	-	184,456	515,180	29,361	544,541	
06383	Benton-Stearns Educ Dist. #6383	6,274,730	-	-	-	326,972	326,972	57,423	278,755	-	-	336,178	938,937	65,394	1,004,331	
06979	Midstate Educational Dist. #6979	2,559,429	-	-	-	-	-	23,423	113,703	-	106,767	243,893	382,988	(21,353)	361,635	
08800037	Dept of Education	17,016,078	-	-	-	1,694,915	1,694,915	155,723	755,940	-	-	911,663	2,546,250	338,983	2,885,233	
08825000	Perpich Center for Arts Education	1,989,750	-	-	-	33,364	33,364	18,209	88,395	-	-	106,604	297,742	6,673	304,415	
08837001	Minnesota State Academies	5,473,877	-	-	-	13,346	13,346	50,094	243,177	-	-	293,271	819,099	2,669	821,768	
09700004	Education Minnesota	280,712	-	-	-	-	-	2,569	12,471	-	13,346	28,386	42,005	(2,669)	39,336	
10100011	System Office 101-11	6,291,243	-	-	-	767,382	767,382	57,574	279,489	-	-	337,063	941,408	153,477	1,094,885	
10100012	Bemidji State Univ 101-12	8,371,811	-	-	-	707,327	707,327	76,615	371,918	-	-	448,533	1,252,740	141,465	1,394,205	
10100013	Minnesota State Univ, Mankato 101-13	17,684,832	-	-	-	1,401,307	1,401,307	161,843	785,649	-	-	947,492	2,646,321	280,262	2,926,583	
10100014	Minnesota St. University Moorhead 101-14	8,776,366	-	-	-	433,738	433,738	80,317	389,890	-	-	470,207	1,313,277	86,748	1,400,025	
10100015	St Cloud State Univ 101-15	14,365,830	-	-	-	814,092	814,092	131,469	638,202	-	-	769,671	2,149,673	162,819	2,312,492	
10100016	Southwest Minnesota State Univ 101-16	5,036,297	-	-	-	453,757	453,757	46,090	223,738	-	-	269,828	753,621	90,751	844,372	
10100017	Winona State Univ 101-17	14,960,278	-	-	-	-	-	136,909	664,611	-	6,672	808,192	2,238,625	(1,335)	2,237,290	
10100018	Metropolitan State Univ 101-18	11,170,671	-	-	-	-	-	102,229	496,257	-	46,710	645,196	1,671,556	(9,342)	1,662,214	
10100020	Alexandria Tech College 101-20	6,316,011	-	-	-	627,252	627,252	57,801	280,589	-	-	338,390	945,115	125,450	1,070,565	
10100021	Anoka Technical College 101-21	3,508,895	-	-	-	133,457	133,457	32,112	155,883	-	-	187,995	525,064	26,692	551,756	
10100022	Central Lakes College 101-22	7,703,057	-	-	-	393,701	393,701	70,495	342,209	-	-	412,704	1,152,669	78,740	1,231,409	
10100023	Dakota County Tech College 101-23	5,069,322	-	-	-	513,812	513,812	46,392	225,205	-	-	271,597	758,563	102,763	861,326	
10100024	Lake Superior College 101-24	4,582,204	-	-	-	-	-	41,934	203,565	-	213,532	459,031	685,671	(42,707)	642,964	
10100025	Hennepin Tech College 101-25	10,881,703	-	-	-	1,000,934	1,000,934	99,584	483,420	-	-	583,004	1,628,315	200,187	1,828,502	

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Schedule of Pension Amounts by Entity
Current Reporting Period Only
As of and For the Year Ended June 30, 2023

			Deferred Outflows of Resources					Deferred Inflows of Resources					Pension Expense Net Amortization of Deferred		
			Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Outflows of Resources	Difference Between		Changes in Assumptions	Changes in Proportion	Total Deferred Inflows of Resources	Proportionate Share of Plan Pension Expense	Amounts from Changes in Proportion	Total Pension Expense
ID	Entity	Net Pension Liability	Difference Between Expected and Actual Experience	Projected and Actual Investment Earnings				Difference Between Expected and Actual Experience	Projected and Actual Investment Earnings						
10100026	Ridgewater College 101-26	7,892,950	-	-	-	387,027	387,027	72,232	350,645	-	-	422,877	1,181,084	77,406	1,258,490
10100027	Minneapolis Comm & Tech College 101-27	8,991,028	-	-	-	340,317	340,317	82,282	399,427	-	-	481,709	1,345,399	68,064	1,413,463
10100028	Century Comm and Tech College 101-28	12,987,040	-	-	-	1,047,644	1,047,644	118,851	576,950	-	-	695,801	1,943,353	209,529	2,152,882
10100029	Northwest Tech College - Bemidji 101-29	1,436,583	-	-	-	20,018	20,018	13,147	63,820	-	-	76,967	214,967	4,004	218,971
10100030	Pine Tech College 101-30	2,708,041	-	-	-	427,065	427,065	24,783	120,305	-	-	145,088	405,226	85,413	490,639
10100031	Mesabi Range Comm & Tech College 101-31	412,811	-	-	-	-	-	3,778	18,339	-	2,542,372	2,564,489	61,772	(508,474)	(446,702)
10100032	Hibbing Comm College 101-32	429,324	-	-	-	-	-	3,929	19,073	-	2,782,596	2,805,598	64,243	(556,519)	(492,276)
10100033	Minnesota State College-SE Tech 101-33	3,781,351	-	-	-	-	-	34,605	167,987	-	6,672	209,264	565,833	(1,335)	564,498
10100034	Riverland Community College 101-34	6,340,780	-	-	-	580,542	580,542	58,028	281,689	-	-	339,717	948,821	116,108	1,064,929
10100035	South Central College 101-35	6,943,484	-	-	-	293,607	293,607	63,543	308,465	-	-	372,008	1,039,008	58,722	1,097,730
10100036	Minnesota West Comm &Tech College 101-36	7,050,815	-	-	-	367,009	367,009	64,526	313,233	-	-	377,759	1,055,069	73,402	1,128,471
10100037	St Cloud Tech College 101-37	8,784,622	-	-	-	747,364	747,364	80,393	390,257	-	-	470,650	1,314,512	149,473	1,463,985
10100038	St Paul College 101-38	9,560,707	-	-	-	860,803	860,803	87,495	424,735	-	-	512,230	1,430,644	172,161	1,602,805
10100039	Northeast Service Unit 101-39	57,794	-	-	-	-	-	529	2,567	-	300,280	303,376	8,648	(60,056)	(51,408)
10100040	Fond du Lac Tribal & Comm College 101-40	2,592,454	-	-	-	66,729	66,729	23,725	115,170	-	-	138,895	387,929	13,346	401,275
10100041	North Hennepin Comm College 101-41	7,818,644	-	-	-	-	-	71,552	347,344	-	180,168	599,064	1,169,965	(36,034)	1,133,931
10100042	Northland Community &Tech College 101-42	5,795,869	-	-	-	-	-	53,041	257,482	-	20,018	330,541	867,282	(4,004)	863,278
10100043	Normandale Community College 101-43	10,089,106	-	-	-	927,532	927,532	92,331	448,209	-	-	540,540	1,509,713	185,506	1,695,219
10100044	Inver Hills Community College 101-44	4,458,361	-	-	-	-	-	40,801	198,063	-	360,336	599,200	667,140	(72,067)	595,073
10100045	Itasca Community College 101-45	346,761	-	-	-	-	-	3,173	15,405	-	2,168,690	2,187,268	51,889	(433,738)	(381,849)
10100046	Rainy River Community College 101-46	49,537	-	-	-	-	-	453	2,201	-	567,196	569,850	7,413	(113,439)	(106,026)
10100048	Rochester Comm & Tech College 101-48	7,744,338	-	-	-	333,645	333,645	70,872	344,042	-	-	414,914	1,158,846	66,729	1,225,575
10100049	Anoka-Ramsey Comm College 101-49	9,403,839	-	-	-	280,262	280,262	86,059	417,766	-	-	503,825	1,407,171	56,052	1,463,223
10100050	Vermilion Comm College 101-50	123,843	-	-	-	-	-	1,133	5,502	-	900,841	907,476	18,532	(180,168)	(161,636)
10100051	MN State Comm and Tech College 101-51	7,298,502	-	-	-	113,439	113,439	66,792	324,236	-	-	391,028	1,092,132	22,688	1,114,820
10100052	Minnesota North College	11,154,159	-	-	-	9,028,423	9,028,423	102,078	495,524	-	-	597,602	1,669,085	1,805,685	3,474,770
	Schools Dropped During the Year	-	-	-	-	-	-	-	-	-	1,047,644	1,047,644	-	(209,529)	(209,529)
S0001	Minneapolis - Special School Dist. #1	493,647,900	-	-	-	-	-	4,517,627	21,930,315	-	23,822,226	50,270,168	73,868,422	(4,764,446)	69,103,976
	CITY of Minneapolis	34,172,511	-	-	-	-	-	312,730	1,518,115	-	1,508,073	3,338,918	5,113,503	(301,615)	4,811,888
MSPSD	MPS	34,172,511	-	-	-	-	-	312,730	1,518,115	-	1,508,073	3,338,918	5,113,503	(301,615)	4,811,888
STATE	State of MN	472,132,169	-	-	-	-	-	4,320,727	20,974,486	-	20,846,116	46,141,329	70,648,865	(4,169,223)	66,479,642
	TOTAL	\$ 8,256,224,000	\$ -	\$ -	\$ -	\$ 133,064,114	\$ 133,064,114	\$ 75,557,000	\$ 366,783,000	\$ -	\$ 133,064,114	\$ 575,404,114	\$ 1,235,444,000	\$ -	\$ 1,235,444,000

The notes to the required schedules are an integral part of this schedule.

Teachers Retirement Association
Notes to the Schedule of Employer and Non-Employer Allocations and
Schedule of Pension Amounts by Entity, Current Reporting Period Only
for the Fiscal Year Ended June 30, 2023

NOTE 1: PLAN DESCRIPTION

A. Organization

The Teachers Retirement Association (TRA) is an administrator of a multiple employer, cost-sharing defined benefit retirement fund. TRA administers a Basic Plan (without Social Security coverage) and a Coordinated Plan (with Social Security coverage) in accordance with Minnesota Statutes, Chapters 354 and 356. TRA is a separate statutory entity and is administered by a Board of Trustees. The Board consists of four active members, one retired member and three statutory officials.

B. Participating employers and direct aid contributions

Teachers employed in Minnesota's public elementary and secondary schools, charter schools, and certain educational institutions maintained by the state (except educators employed by St. Paul public schools and Minnesota State Colleges and Universities) are required to be TRA members. State university, community college, and technical college educators first employed by Minnesota State may elect TRA coverage within one year of eligible employment. Alternatively, these educators may elect coverage through the Defined Contribution Retirement Plan (DCR) administered by Minnesota State.

TRA serves 606 employer units. During the fiscal year TRA received direct aid contributions from the following sources: State of Minnesota \$31,087,000; City of Minneapolis \$2,250,000; and Minneapolis School District \$2,250,000. The direct aid is a result of the Minneapolis Teachers Retirement Fund Association merger into TRA in 2006 and the Duluth Teachers' Retirement Fund Association merger into TRA in 2015. These contributions meet the requirements for a special funding situation under GASB Statement 68, paragraph 15.

NOTE 2: SUMMARY OF SIGNIFICANT ACCOUNTING AND REPORTING POLICIES

A. Basis of presentation and basis of accounting

1. Employers participating in TRA's cost-sharing multiple-employer defined benefit plan are to report pension information in their financial statements for fiscal periods beginning after June 15, 2014, in accordance with Governmental Accounting Standards Board (GASB) Statement No. 68, *Accounting and the Financial Reporting for Pensions*. The *Schedule of Employer and Non-Employer Allocations and Schedule of Pension Amounts by Entity, Current Reporting Period Only*, provide entities with the required information for financial reporting.
2. The underlying financial information used to prepare the pension schedules is based on TRA's financial statements, which are prepared on the accrual basis of accounting. The

financial statements are prepared in accordance with accounting principles generally accepted in the United States of America (GAAP) that apply to governmental accounting for fiduciary funds.

3. The preparation of the pension schedules requires management to make a number of estimates and assumptions relating to the reported amounts. Due to the inherent nature and uncertainty of these estimates, actual results could differ, and the differences may be material.
4. Employer contributions with the employer paid dates that fall within TRA's fiscal year ending June 30, 2023, are used as the basis for determining each entity's employer proportionate share (EPS) of the collective pension amounts reported in the *Schedule of Employer and Non-Employer Allocations*.
5. The *Schedule of Pension Amounts by Entity, Current Reporting Period Only*, presents deferred inflows of resources, deferred outflows of resources, and pension expense for the current reporting period (measurement period) only. In addition to the current period amounts reported on this schedule, entities need to account for deferred inflows of resources and deferred outflows of resources related to pensions from prior reporting periods and continue to amortize those amounts against pension expense (based on previously established amortization periods) in their financial statements in accordance with generally accepted accounting principles.
 - a. TRA calculated the deferred inflows of resources and deferred outflows of resources related to pensions for the change in proportion percentage from the end of the prior measurement period (June 30, 2022) to the end of the current measurement period (June 30, 2023) for the net pension liability only. Entities are responsible for accounting for the impact of the change in proportion from the prior measurement date to the current measurement date on deferred inflows of resources and deferred outflows of resources related to pensions and amortizing those amounts over the average estimated remaining service lives of all plan members, except for investment gains and losses, which should be amortized over five years.
 - b. TRA determined that the difference between employer and non-employer actual contributions and the contributions used in the proportionate share percentage calculation (the miscellaneous contributions not representative of future contribution efforts as further explained in Note 2.B.) were not material in the aggregate or to individual entities. Therefore, TRA did not include these differences as deferred inflows or outflows of resources related to pensions in the *Schedule of Pension Amounts by Entity, Current Reporting Period Only*.
 - c. The following tables reflect the amortization of collective deferred outflows and inflows of resources related to pensions for the current reporting period only.

Deferred outflows of resources

(Dollars in Thousands)

The only deferred outflows arising in fiscal year ending June 30, 2023 relate to changes in proportion.

Deferred inflows of resources

(Dollars in Thousands)

	<u>Differences between expected and actual experience</u>	<u>Difference between projected and actual investment earnings</u>
Amortization period	6 years	5 years
Current period additions	\$90,669	\$458,479
Amortized in period ending June 30,		
2023	15,112	91,696
2024	15,112	91,696
2025	15,112	91,696
2026	15,112	91,696
2027	15,112	91,695
2028	15,109	-

The TRA actuary has determined the average of the expected remaining service lives of all members for fiscal year 2023 to be six years. The *Differences Between Expected and Actual Experience, Changes of Assumptions, and Changes in Proportion* use this amortization period of six years in the schedule presented. The amortization period for *Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments* is five years as required by GASB 68.

6. The components of the calculation of the net pension liability of TRA for participating employers and the special funding contributors (non-employer contributing entities) as of June 30, 2023, calculated in accordance with GASB Statement No. 67, are shown below.

	<i>(Dollars in Thousands)</i>
Total pension liability (A)	\$35,010,727
Plan fiduciary net position (B)	<u>\$26,754,503</u>
Net pension liability (A-B)	\$8,256,224
Plan fiduciary net position as a percentage of the total pension liability (B/A)	76.42%

The total pension liability is calculated by TRA's actuary.

B. Reconciliation of financial statement employer contributions to total contributions reported on the *Schedule of Employer and Non-Employer Allocations*

While GASB 68 allows the employer's proportionate share of the collective pension amounts to be based on historical employer contributions, it encourages the use of the employer's projected long-term contributions effort to the retirement plan. Therefore, the employer's proportionate share reported in the *Schedule of Employer and Non-Employer Allocations* is calculated using historical employer contributions, with two adjustments to employer contributions that are not reflective of future contributions. The following is a reconciliation of employer contributions in TRA's Annual Comprehensive Financial Report (ACFR) "Statement of Changes in Fiduciary Net Position" to the contributions used in the *Schedule of Employer and Non-Employer Allocations*.

(Dollars in Thousands)

Employer contributions reported in TRA's ACFR, Statement of Changes in Fiduciary Net Position	\$508,764
Employer contributions not related to future contribution efforts	(87)
TRA's contributions not included in allocation	<u>(643)</u>
Total employer contributions	\$508,034
Total non-employer contributions	<u>35,587</u>
Total contributions reported in the <i>Schedule of Employer and Non-Employer Allocations</i>	<u>\$543,621</u>

NOTE 3: CHANGES OF BENEFIT AND FUNDING TERMS

2023: Under the Tax Finance and Policy Bill, effective July 1, 2025:

- The employer contribution rate will increase by 0.75% for a total rate of 9.5%.
- The employee contribution rate will increase by 0.25% for a total rate of 8.0%.
- The pension adjustment rate for school districts and the base budgets for Minnesota State, Perpich Center for Arts Education, and Minnesota Academies will increase to reflect the 0.75% employer contribution rate increase.

2024: Under the Omnibus Pensions and Retirement Bill:

- The Normal Retirement Age (NRA) for active and eligible deferred Tier II members will be 65 effective July 1, 2024.
- TRA's amortization date will remain the same at 2048.

NOTE 4: ACTUARIAL METHODS AND ASSUMPTIONS

The actuarial assumptions used in the July 1, 2023 actuarial funding valuation are prescribed in Minnesota Statutes 356.215, and the Standards for Actuarial Work promulgated by the Legislative Commission on Pensions and Retirement (LCPR). Many of the assumptions prescribed are based on the full experience study report, dated June 28, 2019, that covered the four-year period beginning July 1, 2014 and ending June 30, 2018.

Key Methods and Assumptions Used in Valuation of Total Pension Liability

Actuarial Information

Valuation date	July 1, 2023
Measurement date	June 30, 2023
Experience studies	June 28, 2019 (demographic and economic assumptions) *
Actuarial cost method	Entry Age Normal
Actuarial assumptions:	
Investment rate of return	7%
Price inflation	2.5%
Wage growth rate	2.85% before July 1, 2028 and 3.25% after June 30, 2028
Projected salary increase	2.85% to 8.85% before July 1, 2028 and 3.25% to 9.25% after June 30, 2028
Cost of living adjustment	1% for January 2019 through January 2023, then increasing by 0.1% each year, up to 1.5% annually.
Mortality assumptions:	
Pre-retirement:	RP- 2014 white collar employee table, male rates set back five years and female rates set back seven years. Generational projection uses the MP-2015 scale.
Post-retirement:	RP-2014 white collar annuitant table, male rates set back three years and female rates set back three years, with further adjustments of the rates. Generational projection uses the MP-2015 scale.
Post-disability:	RP-2014 disabled retiree mortality table, without adjustment.

**The assumptions prescribed are based on the experience study dated June 28, 2019. For GASB 67 purposes, the long-term rate of return assumptions is selected by TRA management in consultation with actuary*

The discount rate used to measure the TPL as of the Measurement Date was 7%. There was no change in the discount rate since the prior measurement date.

The projection of cash flows used to determine the discount rate assumed that plan contributions from members and employers will be made at the current and future contribution rates as set out in state statute and supplemental aid of \$35.59 million annually will be received, as currently provided in statute.

Based on those assumptions, the Financial Net Position (FNP) was projected to be available to make all projected future benefit payments of current TRA members. Therefore, the long-term expected rate of return on investments of 7% was applied to all periods of projected benefit payments to determine TPL. Projected future benefit payments for all current plan members were projected through the year 2122. The projections are not reflective of cash flows and asset accumulations that would occur on an ongoing basis, reflecting the impact of future members.

Long-Term Rate of Return:

The long-term expected rate of return on pension plan investments is reviewed regularly as part of the experience study. Generally, several factors are considered in evaluating the long-term rate of return assumption including long-term historical data, estimates inherent in current market data, and an analysis in which best-estimate ranges of expected future real rates of return (expected returns, net of investment expense and inflation) were developed using assumptions for each major asset class, as well as estimates of variabilities and correlations, provided by TRA's investment consultant (the Minnesota State Board of Investment). These ranges were combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and then adding expected inflation. The assumption is intended to be a long-term assumption (30 to 50 years) and is not expected to change absent a significant change in the asset allocation, a change in the inflation assumption, or a fundamental change in the market that alters expected returns in future years.

Asset Allocation:

The target allocation and best estimates of geometric real rates of return for each major asset class are summarized in the following table:

Asset Class	Target Allocation	Long-term Expected Real Rate of Return (Geometric Mean)
Domestic Equity	33.5%	5.10%
International Equity	16.5%	5.30%
Fixed Income	25.0%	0.75%
Private Markets	25.0%	5.90%
Total	100%	

Sensitivity Analysis:

The following disclosure presents the sensitivity of the NPL of TRA to potential changes in the discount rate. The following presents the NPL of TRA, calculated using the discount rate of 7% as well as TRA's NPL that is 1-percentage-point lower (6%) or 1-percentage point higher (8%) than the current rate:

Sensitivity of Net Pension Liability (NPL) to Changes in the Discount Rate <i>(Dollars in Thousands)</i>			
	1% Decrease (6%)	Current Discount Rate (7%)	1% Increase (8%)
NPL	\$13,168,070	\$8,256,224	\$4,235,280

NOTE 5: PENSION EXPENSE

The components of pension expense reported in the *Schedule of Pension Amounts by Entity, Current Reporting Period Only*, for the period ending June 30, 2023, are presented below.

	<i>(Dollars in Thousands)</i>
Service cost	\$627,177
Interest on the total pension liability	2,282,503
Current-Period Benefit Changes	615,463
Expensed portion of current-period difference between expected and actual experience in the total pension liability	(15,112)
Expensed portion of current-period changes of assumptions	-
Member contributions	(442,448)
Projected earnings on plan investments	(1,755,418)
Expensed portion of current-period differences between actual and projected earnings on plan investments	(91,696)
Administrative expense	16,534
Other	<u>(1,559)</u>
Pension expense - Schedule of Pension Amounts by Entity, Current Reporting Period Only	<u>\$1,235,444</u>

NOTE 6: LEGISLATIVE CHANGES

2023 Pension Budget Omnibus Bill:

- Reduced investment return assumption, used in the funding valuation, from 7.5 to 7.0% effective June 30, 2023.
- Lowered the interest rate used to calculate certain payments, such as refund repayments, service credit purchases etc., from 7.5% to 7.0%.
- Appropriated \$176,166,838 to TRA as follows
 - \$28,735,816 to pay for a 1.4% one time, lump-sum payment for eligible benefit recipients with Coordinated benefits, in addition to the 1.1% post-retirement adjustment that will be paid on January 1, 2024.
 - \$2,384,222 to pay for a 2.9% one-time, lump-sum payment for eligible benefit recipients with Basic benefits, in addition to the 1.1% post-retirement adjustment that will be paid on January 1, 2024.
 - \$145,046,800 to pay down TRA's unfunded liability payable October 2023.

2024 Omnibus Pensions and Retirement Bill:

- \$28,460,000 appropriated funds to TRA's actuarial present value of advancing NRA by one year to FY2025, payable approximately October 2024.
- The Earnings Limitation suspension currently in place for reemployed annuitants in Pre-K-12 positions will remain in place for 2025, 2026, and 2027.

NOTE 7: ADDITIONAL FINANCIAL AND ACTUARIAL INFORMATION

Additional financial information supporting the preparation of the *Schedule of Employer and Non-Employer Allocations* and the *Schedule of Pension Amounts by Entity, Current Reporting Period Only* is located in TRA's Annual Comprehensive Financial Report for the fiscal year ended June 30, 2023. The supporting actuarial information can be found in the GASB 67-68 report. Both reports can be obtained at <https://minnesotatra.org/financial/>