



Schedule of Employer Allocations and Schedule of Collective
Pension Amounts
June 30, 2019

Oklahoma Public Employees Retirement System

Oklahoma Public Employees Retirement System

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Independent Auditor's Report

Board of Trustees
Oklahoma Public Employees Retirement Plan
Oklahoma City, Oklahoma

Report on Schedule of Allocations and Net Pension Amounts by Employer

We have audited the accompanying schedule of employer allocations of the Oklahoma Public Employees Retirement System (the System) as of and for the year ended June 30, 2019 and related notes. We have also audited the totals for the columns titled net pension liability, total deferred outflows of resources, total deferred inflows of resources and plan pension expense (specified column totals) included in the accompanying schedule of collective pension amounts (collectively the Schedules) of the System as of and for the year ended June 30, 2019, and related notes.

Management's Responsibility 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; this includes design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the Schedules that is free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

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

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the System's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the

appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the Schedules referred to above present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources, total deferred inflows of resources, and plan pension expense for the total of all participating entities for the System as of and for the year ended June 30, 2019, in accordance with accounting principles generally accepted in the United States of America.

Other Matters

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the System as of and for the year ended June 30, 2019, and our report thereon, dated October 11, 2019, expressed an unmodified opinion on those financial statements.

Restriction on Use

Our report is intended solely for the information and use of the System's management, the Board of Trustees, System 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 "Eide Bailly LLP".

Oklahoma City, Oklahoma
January 31, 2020

Oklahoma Public Employees Retirement System

Schedule of Employer Allocations

June 30, 2019

AGENCY NUMBER	AGENCY NAME	Employer Contributions	Employer Allocation Percentage
OFFICE OF MANAGEMENT AND ENTERPRISE SERVICES (OMES)			
20	OKLAHOMA ACCOUNTANCY BOARD	\$ 96,252	0.03657124%
22	ABSTRACTORS BOARD	16,431	0.00624311%
25	OKLAHOMA MILITARY DEPARTMENT	2,071,825	0.78719269%
30	ALCOHOLIC BEVERAGE LAWS ENFORCMT	158,526	0.06023204%
39	BOLL WEEVIL ERADICATION ORG	26,601	0.01010727%
40	DEPARTMENT OF AGRICULTURE	2,015,101	0.76564049%
45	OK BOARD OF ARCHITECTS	47,389	0.01800552%
47	INDIGENT DEFENSE SYSTEM	987,663	0.37526381%
49	ATTORNEY GENERAL	1,939,764	0.73701586%
55	STATE ARTS COUNCIL	80,570	0.03061276%
60	OK AERONAUTICS COMMISSION	95,073	0.03612296%
65	STATE BANKING DEPARTMENT	669,521	0.25438561%
90	MGMT AND ENTERPRISE SERVICES	9,544,793	3.62655733%
92	TOBACCO BOARD OF DIRECTORS	202,186	0.07682100%
125	DEPARTMENT OF MINES	239,089	0.09084232%
127	COMMISSION ON CHILDREN AND YOUTH	136,652	0.05192108%
131	DEPARTMENT OF CORRECTIONS	24,686,294	9.37959188%
145	STATE BOARD OF CHIROPRACTIC EXAM	22,994	0.00873654%
148	BOARD OF CHIROPRACTIC EXAMINERS	26,570	0.01009515%
160	DEPARTMENT OF COMMERCE	838,056	0.31842062%
170	CONSTRUCTION INDUSTRIES BOARD	215,123	0.08173633%
185	CORPORATION COMMISSION	4,156,575	1.57929659%
190	COSMETOLOGY BOARD	87,271	0.03315858%
199	COURT OF CRIMINAL APPEALS	290,942	0.11054400%
204	JM DAVIS ARMS AND HISTORY MUSEUM	16,995	0.00645716%
215	BOARD OF DENTISTRY	64,770	0.02460940%
219	DISTRICT COURTS	2,034,230	0.77290849%
220	DISTRICT ATTORNEYS COUNCIL	7,804,700	2.96540679%
266	OK EDUCATION TELEVISION AUTHORITY	274,258	0.10420487%
270	STATE ELECTION BOARD	177,574	0.06746940%
275	EDUC QUALITY AND ACCOUNTABILITY	22,198	0.00843402%
285	EMBALMERS AND FUNERAL DIRECTORS BOARD	27,806	0.01056510%
290	EMPLOYMENT SECURITY COMMISSION	2,990,449	1.13622543%
292	DEPT OF ENVIRONMENTAL QUALITY	4,413,881	1.67706023%
296	ETHICS COMMISSION	74,455	0.02828921%
298	MERIT PROTECTION COMMISSION	21,412	0.00813536%
300	STATE AUDITOR AND INSPECTOR	922,450	0.35048605%
305	GOVERNOR	148,012	0.05623733%
306	PARDON AND PAROLE BOARD	164,116	0.06235603%
307	INTERSTATE OIL COMPACT COMMISSION	53,221	0.02022125%

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AGENCY NUMBER	AGENCY NAME	Employer Contributions	Employer Allocation Percentage
308	STATE BUREAU OF INVESTIGATION	859,299	0.32649197%
309	DEPT OF EMERGENCY MGMT	262,463	0.09972322%
310	STATE FIRE MARSHAL	155,004	0.05889400%
315	FIREFIGHTERS PENSION AND RET SYSTEM	107,403	0.04080777%
326	OFFICE OF DISABILITY CONCERNS	35,560	0.01351103%
340	STATE DEPARTMENT OF HEALTH	11,755,145	4.46638361%
342	BOARD OF MEDICOLEGAL INVESTIGATIONS	900,680	0.34221469%
345	STATE DEPT OF TRANSPORTATION	17,414,450	6.61664463%
346	OK SPACE INDUSTRY DEVELOP AUTHORITY	36,527	0.01387856%
350	HISTORICAL SOCIETY	770,927	0.29291469%
353	OK HORSE RACING COMMISSION	241,938	0.09192467%
361	NATIVE AMER CULTURAL AND ED AUTH	10,687	0.00406062%
369	WORKERS COMPENSATION COURT	151,422	0.05753315%
370	OK INDUSTRIAL FINANCE AUTHORITY	66,440	0.02524413%
385	INSURANCE DEPARTMENT	984,984	0.37424603%
390	COMPSOURCE OKLAHOMA	2,140,926	0.81344779%
391	MULTIPLE INJURY TRUST FUND	82,542	0.03136195%
400	OFFICE OF JUVENILE AFFAIRS	3,250,821	1.23515390%
405	DEPARTMENT OF LABOR	556,352	0.21138690%
410	COMMISSION OF THE LAND OFFICE	567,737	0.21571265%
415	COUNCIL ON LAW ENFC AND TRAINING	257,700	0.09791344%
416	OK LAW ENFORCEMENT RET SYSTEM	49,293	0.01872879%
421	OK STATE SENATE	1,124,091	0.42709983%
422	OK HOUSE OF REPRESENTATIVES	1,245,421	0.47319958%
423	LEGISLATIVE SERVICE BUREAU	52,848	0.02007983%
430	DEPARTMENT OF LIBRARIES	252,963	0.09611355%
435	OK LOTTERY COMMISSION	265,158	0.10074722%
440	LIEUTENANT GOVERNOR	33,070	0.01256485%
445	LIQUEFIED PETROLEUM GAS BOARD	51,642	0.01962144%
448	LIC ALCOHOL AND DRUG COUNSELORS	10,887	0.00413654%
450	BD OF MED LICENSURE AND SUPV	187,895	0.07139096%
452	MENTAL HEALTH AND SUBSTANCE ABUSE	9,226,412	3.50558806%
475	OK MOTOR VEHICLE COMMISSION	42,072	0.01598515%
477	BUREAU OF NARC AND DANGEROUS DRUGS	355,908	0.13522760%
509	LONG TERM CARE ADMIN BOARD	26,089	0.00991268%
510	OK BOARD OF NURSING	238,009	0.09043195%
515	OK PUBLIC EMPLOYEES RET SYSTEM	3,898	0.00148118%
520	OPTOMETRY BOARD	21,296	0.00809135%
525	STATE BD OF OSTEOPATHIC EXAM	56,844	0.02159788%
557	POLICE PENSION AND RET SYSTEM	145,314	0.05521211%

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560	STATE PHARMACY BOARD	102,036	0.03876857%
566	DEPT OF TOURISM AND RECREATION	1,918,984	0.72912046%
570	PROF ENGINEER AND LAND SURVEYORS	86,799	0.03297943%
575	BD OF PSYCHOLOGISTS EXAMINERS	10,335	0.00392694%
585	DEPT OF PUBLIC SAFETY	3,333,788	1.26667740%
588	OK REAL ESTATE COMMISSION	89,048	0.03383373%
619	PHYSICIAN MANPOWER TRNG COMM	59,236	0.02250681%
620	QUARTZ MOUNTAIN CENTER AND PARK	16,870	0.00640976%
622	OK ST BD OF LICENSED SOCIAL WORKERS	12,415	0.00471704%
625	SECRETARY OF STATE	287,783	0.10934340%
628	CTR FOR ADVANCE OF SCIENCE/TECH	143,218	0.05441586%
630	DEPARTMENT OF SECURITIES	529,073	0.20102215%
632	SPEECH-LANG PATHOLOGY AND AUDIO	9,502	0.00361018%
635	DEPT OF CONSUMER CREDIT	436,335	0.16578624%
645	OK CONSERVATION COMMISSION	941,895	0.35787444%
650	DEPT OF VETERAN AFFAIRS	8,586,126	3.26231058%
670	JD MCCARTY CENTER	1,271,210	0.48299786%
677	SUPREME COURT	1,567,484	0.59556790%
678	COUNCIL ON JUDICIAL COMPLAINTS	22,558	0.00857084%
695	OK TAX COMMISSION	4,700,054	1.78579194%
740	STATE TREASURER	385,437	0.14644751%
753	UNIFORM BUILDING CODE COMMISSION	26,086	0.00991131%
755	USED MOTOR VEHICLE AND PARTS	60,633	0.02303757%
770	UNIVERSITY OF OKLAHOMA HSC	24,031	0.00913068%
772	BD OF CHEM TEST ALCOHOL/DRUG	40,890	0.01553607%
790	BD OF VETERINARY MED EXAM	30,296	0.01151112%
805	DEPT OF REHABILITATION SERVICES	6,283,242	2.38732638%
807	HEALTH CARE AUTHORITY	4,819,480	1.83116804%
826	UNIVERSITY HOSPITALS TRUST	316,108	0.12010553%
830	DEPT OF HUMAN SERVICES	36,526,095	13.87814051%
835	WATER RESOURCES BOARD	865,878	0.32899141%
865	WORKERS COMPENSATION COMMISSION	404,600	0.15372835%
875	OKLAHOMA WHEAT COMMISSION	28,299	0.01075215%
978	OK TURNPIKE AUTHORITY	3,188,099	1.21132249%
TOTAL FOR OMES AGENCIES		198,983,826	75.60418147%

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AGENCY NUMBER	AGENCY NAME	Employer Contributions	Employer Allocation Percentage
901	ADAIR COUNTY	304,971	0.11587418%
902	ALFALFA COUNTY	539,478	0.20497545%
903	ATOKA COUNTY	413,619	0.15715523%
904	BEAVER COUNTY	445,826	0.16939210%
905	BECKHAM COUNTY	666,950	0.25340840%
906	BLAINE COUNTY	476,628	0.18109538%
907	BRYAN COUNTY	687,761	0.26131570%
908	CADDO COUNTY	605,296	0.22998316%
909	CANADIAN COUNTY	1,978,147	0.75159977%
910	CARTER COUNTY	1,103,248	0.41918075%
911	CHEROKEE COUNTY	952,555	0.36192461%
912	CHOCTAW COUNTY	295,091	0.11212039%
913	CIMARRON COUNTY	235,815	0.08959817%
914	CLEVELAND COUNTY	2,505,980	0.95215043%
915	COAL COUNTY	305,248	0.11597947%
916	COMANCHE COUNTY	1,136,294	0.43173653%
917	COTTON COUNTY	231,313	0.08788751%
918	CRAIG COUNTY	465,751	0.17696266%
919	CREEK COUNTY	1,117,361	0.42454295%
920	CUSTER COUNTY	616,955	0.23441277%
921	DELAWARE COUNTY	634,135	0.24094042%
922	DEWEY COUNTY	511,026	0.19416505%
923	ELLIS COUNTY	542,274	0.20603770%
924	GARFIELD COUNTY	843,585	0.32052124%
925	GARVIN COUNTY	632,129	0.24017844%
926	GRADY COUNTY	982,606	0.37334265%
927	GRANT COUNTY	285,366	0.10842528%
928	GREER COUNTY	179,659	0.06826186%
929	HARMON COUNTY	102,954	0.03911767%
930	HARPER COUNTY	227,894	0.08658858%
931	HASKELL COUNTY	350,694	0.13324656%
932	HUGHES COUNTY	390,913	0.14852811%
933	JACKSON COUNTY	480,238	0.18246718%
934	JEFFERSON COUNTY	210,840	0.08010889%
935	JOHNSTON COUNTY	248,891	0.09456662%
936	KAY COUNTY	634,737	0.24116907%
937	KINGFISHER COUNTY	588,599	0.22363892%
938	KIOWA COUNTY	304,401	0.11565743%
939	LATIMER COUNTY	335,637	0.12752558%
940	LEFLORE COUNTY	871,740	0.33121878%

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AGENCY NUMBER	AGENCY NAME	Employer Contributions	Employer Allocation Percentage
941	LINCOLN COUNTY	734,547	0.27909214%
942	LOGAN COUNTY	799,040	0.30359630%
943	LOVE COUNTY	432,379	0.16428314%
944	MCCLAIN COUNTY	589,983	0.22416496%
945	MCCURTAIN COUNTY	889,549	0.33798527%
946	MCINTOSH COUNTY	495,786	0.18837462%
947	MAJOR COUNTY	409,478	0.15558160%
948	MARSHALL COUNTY	332,629	0.12638277%
949	MAYES COUNTY	872,006	0.33131985%
950	MURRAY COUNTY	367,115	0.13948601%
951	MUSKOGEE COUNTY	949,274	0.36067797%
952	NOBLE COUNTY	432,723	0.16441361%
953	NOWATA COUNTY	230,170	0.08745351%
954	OKFUSKEE COUNTY	248,574	0.09444611%
956	OKMULGEE COUNTY	553,411	0.21026916%
957	OSAGE COUNTY	1,102,970	0.41907514%
958	OTTAWA COUNTY	457,088	0.17367125%
959	PAWNEE COUNTY	287,241	0.10913759%
960	PAYNE COUNTY	1,300,348	0.49406897%
961	PITTSBURG COUNTY	1,097,400	0.41695865%
962	PONTOTOC COUNTY	696,538	0.26465044%
963	POTTAWATOMIE COUNTY	755,106	0.28690362%
964	PUSHMATAHA COUNTY	293,273	0.11142963%
965	ROGER MILLS COUNTY	533,495	0.20270220%
966	ROGERS COUNTY	1,318,580	0.50099615%
967	SEMINOLE COUNTY	549,116	0.20863757%
968	SEQUOYAH COUNTY	617,814	0.23473924%
969	STEPHENS COUNTY	939,138	0.35682662%
970	TEXAS COUNTY	804,282	0.30558792%
971	TILLMAN COUNTY	284,101	0.10794463%
973	WAGONER COUNTY	923,379	0.35083923%
974	WASHINGTON COUNTY	778,724	0.29587733%
975	WASHITA COUNTY	525,590	0.19969871%
976	WOODS COUNTY	505,323	0.19199817%
977	WOODWARD COUNTY	589,569	0.22400738%
979	OK ORDNANCE WORKS AUTHORITY	310,585	0.11800712%
980	GRAND RIVER DAM AUTHORITY	6,258,254	2.37783229%
981	MUNICIPAL POWER AUTHORITY	938,136	0.35644599%
982	OKLA HOUSING FINANCY AGENCY	800,230	0.30404844%
1030	ANADARKO HOUSING AUTHORITY	17,703	0.00672637%

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AGENCY NUMBER	AGENCY NAME	Employer Contributions	Employer Allocation Percentage
1043	TOWN OF ARNETT	19,310	0.00733688%
1067	TOWN OF BEAVER	58,279	0.02214335%
1085	CITY OF BIXBY	205,465	0.07806655%
1086	BIXBY PUBLIC WORKS AUTHORITY	206,222	0.07835445%
1179	TOWN OF CHEYENNE	38,205	0.01451593%
1210	CITY OF COMMERCE	32,176	0.01222543%
1311	CITY OF FAIRFAX	24,506	0.00931125%
1353	TOWN OF FORT SUPPLY	14,556	0.00553071%
1381	CITY OF GRANDFIELD	23,281	0.00884583%
1389	CITY OF GROVE	368,922	0.14017237%
1392	GROVE MUN AIRPORT MAN AUTHORITY	9,927	0.00377175%
1413	CITY OF HEAVENER	71,758	0.02726438%
1414	HEAVENER UTILITY AUTHORITY	11,129	0.00422859%
1425	TOWN OF HINTON	58,786	0.02233601%
1430	CITY OF HOLDENVILLE	143,886	0.05466980%
1432	HOUSING AUTHORITY CITY OF HOLDENVILLE	30,040	0.01141373%
1443	CITY OF HUGO	209,026	0.07941989%
1451	IDABEL HOUSING AUTHORITY	38,879	0.01477223%
1480	CITY OF KETCHUM	11,090	0.00421373%
1481	KETCHUM PUBLIC WORKS	70,485	0.02678102%
1486	CITY OF KINGFISHER	218,007	0.08283218%
1549	CITY OF MANGUM	95,548	0.03630357%
1605	TOWN OF MOUNTAIN VIEW	24,266	0.00921984%
1642	TOWN OF OKARCHE	57,147	0.02171310%
1758	TOWN OF RUSH SPRINGS	80,535	0.03059944%
1760	TOWN OF RYAN	10,619	0.00403487%
1778	TOWN OF SENTINEL	23,693	0.00900212%
1784	CITY OF SHATTUCK	64,088	0.02435020%
1808	TOWN OF SPORTSMEN ACRES	13,055	0.00496035%
1818	CITY OF STIGLER	140,899	0.05353477%
1841	CITY OF TAHLEQUAH	495,035	0.18808941%
1893	TOWN OF VICI	248,202	0.09430468%
1915	HOUSING AUTHORITY OF WATONGA	2,156	0.00081934%
1918	THE WATTS PUBLIC WORKS	8,536	0.00324332%
1933	CITY OF WEWOKA	90,857	0.03452120%
1942	CITY OF WILSON	50,584	0.01921954%
2004	BEAVER COUNTY HOSPITAL AUTHORITY	340,360	0.12932037%
3012	CHOCTAW COUNTY AMBULANCE AUTH	56,135	0.02132870%
3026	GRADY EMS DISTRICT	12,625	0.00479677%

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AGENCY NUMBER	AGENCY NAME	Employer Contributions	Employer Allocation Percentage
3028	GREER COUNTY AMBULANCE SERVICE	18,938	0.00719539%
3040	LEFLORE COUNTY EMS	153,206	0.05821078%
3044	MCCLAIN GRADY CO EMRG MED SER DIST	45,406	0.01725220%
3045	MCCURTAIN COUNTY EMS AUTHORITY	79,131	0.03006605%
3047	MAJOR COUNTY EMS SERVICE DISTRICT	4,468	0.00169753%
3049	MAYES CO EMG SER TRUST AUTHORITY	132,058	0.05017548%
3051	EASTERN OK DISTRICT LIBRARY SYSTEM	332,226	0.12622963%
3841	LINCOLN COUNTY E-911 TRUST AUTHORITY	37,303	0.01417326%
3851	MUSKOGEE CITY-CO 911 TRUST AUTHORITY	111,662	0.04242612%
3858	OTTAWA COUNTY E-911 AUTHORITY	6,792	0.00258063%
3866	NORTHEAST OKLA 911 TRUST AUTH	98,613	0.03746813%
3921	DELAWARE 911	13,247	0.00503306%
3929	SW OKLA AMBULANCE SERVICE	9,215	0.00350137%
3951	MUSKOGEE COUNTY EMS	497,204	0.18891346%
3968	SEQUOYAH COUNTY 911 TRUST AUTHORITY	26,260	0.00997769%
3971	TILLMAN COUNTY EMS DISTRICT	15,523	0.00589780%
4001	SW OK DEVELOPMENT AUTHORITY	150,321	0.05711465%
4002	ASSOCIATION OF S. CENTRAL OK GOVTS.	158,427	0.06019445%
4003	MIDWESTERN OK DEVELOP. AUTHORITY	28,202	0.01071537%
4004	KEDDO GOVERNMENT TRUST AUTHORITY	55,027	0.02090767%
4005	GRAND GATEWAY ECON DEVELOP ASSOC	207,335	0.07877717%
4006	NORTHERN OK DEVELOPMENT AUTHORITY	92,515	0.03515133%
4024	GARFIELD COUNTY FAIRGROUNDS	24,313	0.00923767%
4803	ATOKA COUNTY RWD #2	5,112	0.00194215%
4840	LEFLORE COUNTY RWD #3	4,159	0.00158015%
4861	INDIANOLA RWD #18 (PITTSBURG COUNTY)	4,829	0.00183480%
4902	ALFALFA COUNTY RURAL WATER DISTRICT	9,855	0.00374439%
4903	ATOKA COUNTY RWD # 4	16,521	0.00627718%
4909	OK ENVIRONMENTAL MGMT AUTHORITY	209,640	0.07965301%
4919	CREEK COUNTY RWD #5	16,627	0.00631762%
4921	DELAWARE COUNTY SOLID WASTE TRUST	116,133	0.04412476%
4935	JOHNSTON COUNTY RWD #3	51,820	0.01968922%
4940	POTEAU VALLEY IMPROVEMENT AUTHORITY	55,247	0.02099102%
4941	LEFLORE COUNTY RWD #5	14,587	0.00554236%
4949	MAYES COUNTY RWD#3	21,534	0.00818176%
4953	CONSOLIDATED RWD #1	15,907	0.00604397%
4961	PITTSBURG COUNTY RWD #7	12,853	0.00488346%
4963	TRI-COUNTY RURAL WATER DISTRICT	33,514	0.01273381%
4968	SEQUOYAH COUNTY RWD #7	36,295	0.01379018%
4971	TILLMAN COUNTY RWD #1	24,597	0.00934584%

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AGENCY NUMBER	AGENCY NAME	Employer Contributions	Employer Allocation Percentage
4977	NORTHWESTERN OK SOLID WASTE DISP AUTH	43,277	0.01644322%
4989	CREEK COUNTY RWD #3	13,257	0.00503683%
5916	COMANCHE COUNTY DETENTION CENTER	292,568	0.11116179%
5926	GRADY COUNTY CRIMINAL JUSTICE	429,076	0.16302814%
5936	KAY COUNTY JUSTICE FACILITIES AUTHORITY	249,267	0.09470934%
5956	OKMULGEE COUNTY CRIMINAL JUSTICE	581,270	0.22085423%
5963	POTTAWATOMIE COUNTY PUBLIC SAFETY	202,370	0.07689059%
6926	OK CURCIT ENGINEERING DIST #6	17,865	0.00678783%
6951	EASTERN OK CIRCUIT ENGINERRING DIST #2	92,587	0.03517844%
6963	OK CURCIT ENGINEERING DIST #4	91,574	0.03479355%
6964	SOUTHEAST CIRCUIT ENGINEERING DIST #3	106,542	0.04045510%
TOTAL FOR NON OMES AGENCIES		<u>64,207,804</u>	<u>24.39581853%</u>
TOTAL FISCAL YEAR CONTRIBUTIONS		<u>\$ 263,191,629</u>	<u>100.00000000%</u>

Oklahoma Public Employees Retirement System
Schedule of Collective Pension Amounts
June 30, 2019

	Deferred Outflows of Resources		Deferred Inflows of Resources				
		Total Deferred Outflows of Resources Excluding Employer Specific Amounts*	Differences Between Expected and Actual Experience	Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	Total Deferred Inflows of Resources Excluding Employer Specific Amounts*	Plan Pension Expense	
June 30, 2019	Changes of Assumptions						
Net Pension Liability							
TOTALS	<u>\$ 133,188,077</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 31,340,979</u>	<u>\$ 40,187,445</u>	<u>\$ 71,528,424</u>	<u>\$ 214,993,462</u>

* Employer specific amounts that are excluded from this schedule include changes in proportion, differences between employer contributions and proportionate share of contributions, and employer contributions subsequent to the measurement date.

Note 1 - Summary of Significant Accounting Policies

The Schedule of Employer Allocations and the Schedule of Collective Pension Amounts (the Schedules) for the Plan were prepared in accordance with the following significant accounting policies.

Basis of the Allocation

In determining the proportionate share of the net pension liability and corresponding employer pension amounts for a cost-sharing plan, the basis should be consistent with the manner in which contributions are made to the Plan, excluding those to separately finance specific liabilities of an individual employer. The Plan has determined that the actual contributions made to the Plan during fiscal year 2019 are appropriate as the allocation basis because they are representative of future contributions. Contributions are reported using the accrual basis of accounting.

Nature of the Schedules

The purpose of these Schedules is to provide employers information necessary to disclose the appropriate information related to the net pension liability for their financial statements. The Schedules provide employers with the basis to determine their proportionate share of the net pension liability, deferred outflows and inflows of resources, and pension expense as of and for the year ended June 30, 2019.

The Schedule of Collective Pension Amounts represents collective amounts for the Plan. This schedule excludes employer-specific deferral amounts that may need to be recognized to comply with GASB reporting standards. Specifically, this schedule excludes deferral amounts arising from the changes in employer proportion and employer contributions subsequent to the measurement date.

Use of Estimates

The preparation of the Schedules in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts, and changes therein, and disclosures. Actual results could differ from those estimates and differences could be material.

Oklahoma Public Employees Retirement System
Notes to Schedule of Employer Allocations and Collective Pension Amounts
June 30, 2019

The fiscal year 2019 actual employer contribution total used as the denominator for the allocation calculation in the Schedule of Employer Allocations can be reconciled to the Plan's Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2019 as follows:

Contributions from state and local agencies per CAFR	\$ 263,729,659
OPERS contributions from the plan	<u>(538,030)</u>
 Total contributions - schedule of employer allocations	 <u><u>\$ 263,191,629</u></u>

Note 2 - Net Pension Liability

The net pension liability (NPL) is the portion of the actuarial present value of projected benefit payments related to past periods. The NPL for the employers is based on the allocation percentages from the Schedule of Employer Allocations.

The net pension liability for fiscal year 2019 is calculated as set forth below in the following table:

Net pension liability - Beginning July 1, 2018	\$ 195,043,008
Total pension expense	215,531,492
Change in deferred outflow of resources	(83,878,949)
Change in deferred inflow of resources	70,222,185
Defined benefit plan employer contributions - CAFR total	<u>(263,729,659)</u>
 Net pension liability - Ending June 30, 2019	 <u><u>\$ 133,188,077</u></u>

The components of the net pension liability at June 30, 2019 were as follows:

Total pension liability	\$ 9,726,326,176
Plan fiduciary net position	<u>9,593,138,099</u>
 Net pension liability	 <u><u>\$ 133,188,077</u></u>
 Plan fiduciary net position as a percentage of total pension liability	 <u><u>98.63%</u></u>

The total pension liability was determined based on actuarial valuations prepared as of July 1, 2019, using the following actuarial assumptions:

- Investment return – 7.00% compounded annually net of investment expense and including inflation
- Salary increases – 3.5% to 9.5% per year including inflation
- Mortality rates – active participants and nondisabled pensioners – RP-2014 Mortality Table projected to 2025 by Scale MP-2016 (disabled pensioners set forward 12 years)
- No annual post-retirement benefit increases
- Assumed inflation rate – 2.75%
- Payroll growth – 3.5%
- Actuarial cost method – Entry age
- Select period for the termination of employment assumptions – 10 years

The actuarial assumptions used in the July 1, 2019 valuation are based on the results of the most recent actuarial experience study, which covered the three-year period ending June 30, 2016.

The long-term expected rate of return on pension plan investments was determined using a log-normal distribution analysis in which best estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

The target asset allocation and best estimates of geometric real rates of return for each major asset class as of June 30, 2019, are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
U.S. Large Cap Equity	38.0%	3.8%
U.S. Small Cap Equity	6.0%	4.9%
Non-US Equity	24.0%	9.2%
US Fixed	32.0%	1.4%
Total	100.0%	

The discount rate used to measure the total pension liability was 7.00% for 2019. The projection of cash flows used to determine the discount rate assumed that contributions from System members and the employers will be made at the current contribution rate as set out in state statute. Based on those assumptions, the pension plan's fiduciary net position was projected through 2114 to be available to make all projected future benefit payments of current System members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability. The discount rate determined does not use a municipal bond rate.

Sensitivity of the net pension liability (asset) to changes in the discount rate – The following presents the net pension liability of the System’s employers calculated using the discount rate of 7.00% as well as what the employers’ liability would be if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the current rate:

	1% Decrease (6.00%)	Current Discount Rate (7.00%)	1% Increase (8.00%)
Employer's net pension liability (asset)	\$ 1,204,228,260	\$ 133,188,077	\$ (774,849,359)

Note 3 - Average Expected Remaining Service Life

The average expected remaining service life of the Plan is determined by taking the calculated total future service years of the plan divided by the number of people in the plan including retirees. The total future service years of the plan are determined using the mortality, termination, retirement and disability assumptions associated with the plan.

June 30, 2019	Years
	2.59

Note 4 - Types of Deferred Outflows and Inflows of Resources

Deferred outflows of resources are the consumption of net position that is applicable to future reporting periods. Deferred inflows of resources are the acquisition of net position that is applicable to future reporting periods.

Difference Between Expected and Actual Experience

The actuary uses assumptions such as future salary increases and inflation to develop what they expect to be the experience of the Plan. Each year the difference between the expected experience and the actual experience is amortized over the average expected remaining service life of the Plan.

Net Difference Between Projected and Actual Investment Earnings

The actuary uses the Plan’s long-term rate of return to project investment earnings net of investment expenses. The difference between the expected and the actual investment earnings is deferred and amortized over five years.

Changes in Assumptions

The impact of changes in assumptions used by the actuary is amortized over the average expected remaining service life of the Plan in place during the year of the change in assumptions were effective.

Amortization

The amortization of deferred outflows and inflows at June 30, 2019 is as follows:

2020		\$ 3,468,049
2021		(90,931,855)
2022		(4,123,054)
2023		<u>20,058,436</u>
		<u><u>\$ (71,528,424)</u></u>

Note 5 - Pension Expense

Pension expense includes amounts for service cost (the Normal Cost under Entry Age Normal for the year), interest on the total pension liability, changes in the benefit structure, recognition of increases/decreases in liability due to actual versus expected experience, actuarial assumption changes, and investment gains/losses on the market value of assets. The actual experience and assumption change impacts are recognized over the average expected remaining service life of the Plan membership as of the measurement date. The collective pension expense for fiscal year 2019 is calculated as set forth below in the following table:

Service cost	\$ 162,170,522
Interest on total pension liability	647,009,007
Expensed portion of current period difference between expected and actual experience in the total pension liability	(797,318)
Member contributions	(66,566,433)
Projected earnings on plan investments	(644,529,396)
Expensed portion of current period difference between actual and projected earnings on plan investments	20,058,436
Administrative expense	5,563,902
Recognition of beginning deferred outflows of resources as pension expense	282,914,951
Recognition of beginning deferred inflows of resources as pension expense	<u>(190,292,179)</u>
	215,531,492
Reconciling items	
OPERS contributions from the Plan	<u>(538,030)</u>
Allocated pension expense per schedule of pension amounts by employer	<u><u>\$ 214,993,462</u></u>

Note 6 - Access to the CAFR and Actuarial Valuations

The Oklahoma Public Employees Retirement System's June 30, 2019 CAFR and actuarial valuation can be found at the website below.

<https://www.opers.org/financial/reports.shtml>