



*We rely on each other to
make your retirement a success.*

Statistical Section

Overview

The *Statistical Section* presents detailed information as a context for understanding what the information in the *Financial Statements*, note disclosures, and *Required Supplementary Information* says about MOSERS' overall financial health.

Financial Trends Information

- *Changes in Fiduciary Net Position* – This schedule presents financial trend information for the most recent 10 fiscal years.
- *Deductions from Net Position for Benefits and Refunds by Type* – This information is intended to help the reader assess how benefit payments have changed over time.
- *Valuation Assets (Smoothed Market) vs. Pension Liabilities* – This information is intended to help the reader assess how MOSERS' funded status has changed over time.

Revenues Information

- *Employer Contribution Rates as a Percent of Payroll* – This information is intended to help the reader assess how MOSERS' contribution requirements have changed over time.

Operating & Economic Information

- *Membership in Retirement Plans* – This information is intended to help the reader assess how MOSERS' membership has changed over time.
- *Distribution of Benefit Recipients by Location* – This information is intended to help the reader evaluate where MOSERS distributes annuity payments.
- *Benefit Recipients by Type of Retirement and Option Elected* – This information is intended to help the reader understand the stratification of benefit payments by amount and elected option.
- *Benefits by Type of Benefit and by Option* – This information is intended to help the reader understand the actuarially determined annual and average monthly benefit amounts by benefit type and option.
- *Average Monthly Benefit Amounts* – This information is intended to help the reader evaluate how benefit payments have changed over time. Figures have been stratified based on years of credited service.
- *Retirees and Beneficiaries – Retirees and Beneficiaries Tabulated by Fiscal Year of Retirement* – This information is intended to help the reader understand how long current retirees have been in retirement.
- *Benefits Tabulated by Attained Ages of Benefit Recipients* – This information is intended to help the reader understand the actuarially determined annual and average monthly benefit amounts by type of recipient, and age of recipient.
- *Principal Participating Employers* – This information is intended to help the reader understand MOSERS' most significant sources of contribution revenue, and how it has changed over time.

Changes in Fiduciary Net Position

Last Ten Fiscal Years

	2010	2011	2012	2013
MSEP				
<i>Additions</i>				
Employer contributions	\$ 251,226,187	\$ 263,418,048	\$ 263,373,924	\$ 274,655,284
Employee contributions	0	599,761	4,955,399	9,698,883
Member service purchases	3,576,954	2,814,551	2,869,085	3,475,123
Service transfers in	10,009	142,248	2,675,339	2,446,627
Investment income (net of expenses)	859,898,512	1,395,677,299	158,102,123	778,008,348
Other	639,901	659,474	448,463	489,193
Total additions to plan net assets	1,115,351,563	1,663,311,381	432,424,333	1,068,773,458
<i>Deductions</i>				
Benefit payments	543,284,289	597,424,954	611,522,451	646,708,308
Contribution refunds	3,106	0	123,709	622,341
Service transfers out	462,970	17,745,828	588,180	1,911,665
Administrative expenses	7,064,544	7,054,581	7,017,057	7,575,883
Total deductions from plan net position	550,814,909	622,225,363	619,251,397	656,818,197
Change in net position	\$ 564,536,654	\$ 1,041,086,018	\$ (186,827,064)	\$ 411,955,261
Judicial Plan				
<i>Additions</i>				
Employer contributions	\$ 27,029,198	\$ 27,702,682	\$ 26,324,526	\$ 28,330,649
Employee contributions	0	59,958	149,859	211,936
Investment income (net of expenses)	9,909,718	17,460,050	2,061,916	10,724,252
Other	7,374	8,250	5,849	6,743
Total additions to plan net position	36,946,290	45,230,940	28,542,150	39,273,580
<i>Deductions</i>				
Benefit payments	24,230,545	25,488,531	26,821,412	27,802,871
Contribution refunds	0	0	0	0
Administrative expenses	81,414	88,253	91,514	104,428
Total deductions from plan net position	24,311,959	25,576,784	26,912,926	27,907,299
Change in net position	\$ 12,634,331	\$ 19,654,156	\$ 1,629,224	\$ 11,366,281
Internal Service Fund				
<i>Operating revenues</i>				
Premium receipts	\$ 29,098,799	\$ 28,829,638	\$ 28,578,326	\$ 28,961,637
Deferred compensation receipts	69,143,267	54,221,226	17,500,476	0
Miscellaneous income	1,039,369	981,404	608,187	480,120
Total operating revenues	99,281,435	84,032,268	46,686,989	29,441,757
<i>Operating expenses</i>				
Premium disbursements	29,077,825	28,804,638	28,556,036	28,930,950
Deferred compensation disbursements	69,143,267	54,221,226	17,500,476	0
Premium refunds	20,974	24,999	22,291	30,687
Administrative expenses	797,020	826,809	778,529	805,457
Total operating expenses	99,039,086	83,877,672	46,857,332	29,767,094
<i>Non-operating revenues</i>				
Investment income	9,816	11,071	11,068	12,075
Change in net position	\$ 252,165	\$ 165,667	\$ (159,275)	\$ (313,262)

Changes in Net Position continued from page 148.

2014	2015	2016	2017	2018	2019
\$ 326,370,336	\$ 329,752,832	\$ 329,957,369	\$ 335,217,422	\$ 379,557,962	\$ 394,150,042
14,025,328	18,099,455	21,684,920	25,439,343	28,303,993	31,286,632
2,909,423	1,859,005	2,815,749	1,691,046	2,020,720	1,293,774
2,252,206	3,575,815	2,107,873	3,977,803	3,297,251	2,592,737
1,484,709,539	(237,603,530)	1,194,422	272,073,643	578,883,501	313,159,178
450,453	533,001	545,847	522,025	538,600	496,898
1,830,717,285	116,216,578	358,306,180	638,921,282	992,602,027	742,979,261.19
677,097,411	723,994,041	750,440,412	787,300,328	879,148,738	842,813,907
1,421,856	2,479,264	3,798,199	4,820,737	5,502,698	6,006,484
1,916,840	1,792,495	3,071,892	1,843,792	2,060,037	3,001,189
7,336,922	8,077,692	8,489,375	8,759,341	10,024,178	9,200,826
687,773,029	736,343,492	765,799,878	802,724,198	896,735,651	861,022,406
\$ 1,142,944,256	\$ (620,126,914)	\$ (407,493,698)	\$ (163,802,916)	\$ 95,866,376	\$ (118,043,144.81)
\$ 29,264,877	\$ 32,696,686	\$ 33,642,497	\$ 34,246,826	\$ 36,892,203	\$ 38,604,668
294,810	488,193	661,206	786,745	902,320	1,138,101
21,388,261	(3,618,469)	19,273	4,671,168	10,727,603	6,051,941
6,489	8,117	8,808	8,963	9,981	3,895
50,954,437	29,574,527	34,331,784	39,713,702	48,532,107	45,798,605
29,406,625	31,245,906	32,979,706	33,979,837	35,651,489	37,585,484
0	0	10,008	4,888	5,760	7,565
105,693	123,015	136,983	150,387	185,763	72,141
29,512,318	31,368,921	33,126,697	34,135,112	35,843,012	37,665,190
\$ 21,442,119	\$ (1,794,394)	\$ 1,205,087	\$ 5,578,590	\$ 12,689,095	\$ 8,133,415
\$ 29,563,054	\$ 30,177,918	\$ 30,360,162	\$ 28,779,398	\$ 31,119,232	\$ 31,342,778
1,000,000	0	0	700,000	800,000	1,215,000
480,120	480,120	480,120	480,120	480,120	494,722
31,043,174	30,658,038	30,840,282	29,959,518	32,399,352	33,052,500
29,544,110	30,157,271	30,328,802	28,769,588	31,100,612	31,325,399
0	0	0	0	0	0
18,942	20,646	31,360	9,810	14,211	17,379
755,945	960,827	1,015,578	950,121	1,587,344	1,649,467
30,318,997	31,138,744	31,375,740	29,729,519	32,702,167	32,992,245
11,886	12,549	18,777	36,497	85,806	127,342
\$ 736,063	\$ (468,157)	\$ (516,681)	\$ 266,496	\$ (217,009)	\$ 187,597

Deductions from Net Position for Benefits and Refunds by Type

Last Ten Fiscal Years

MSEP

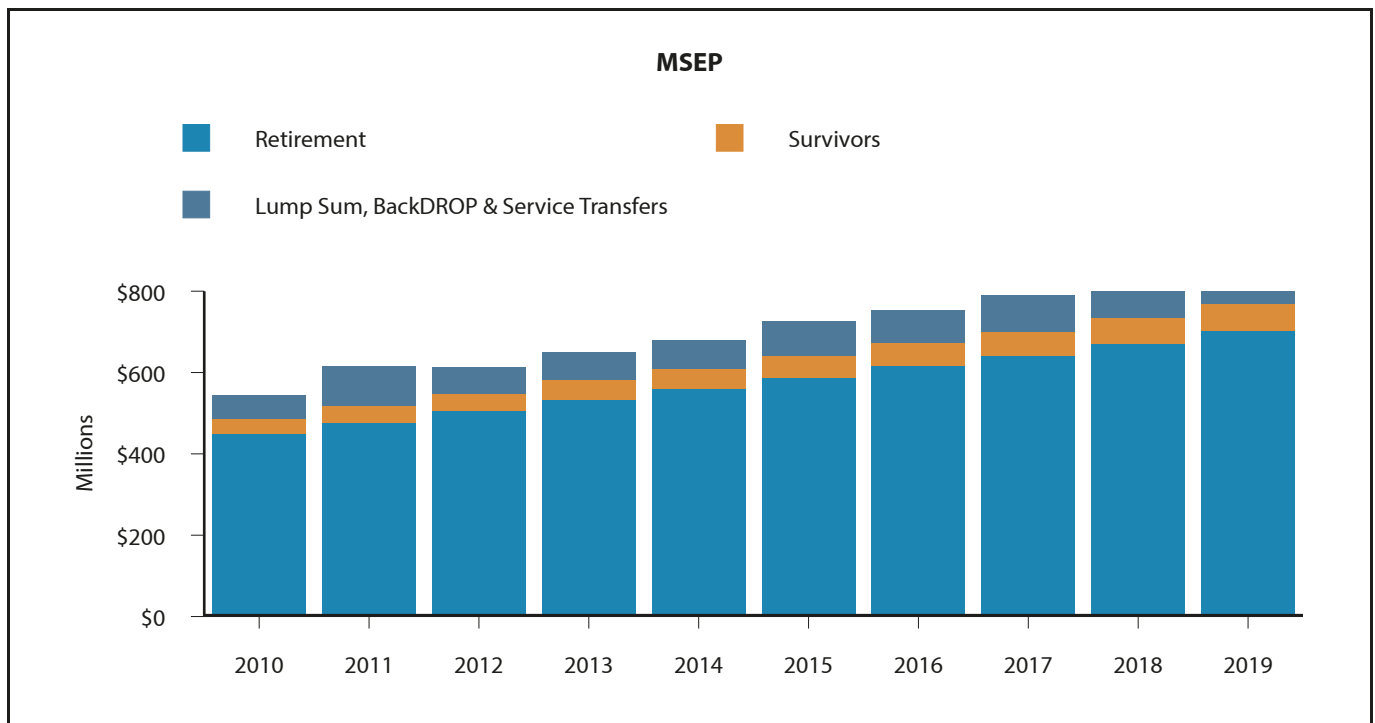
Type of benefit	2010	2011	2012	2013
Retirement	\$ 448,880,110	\$ 476,841,741	\$ 504,555,055	\$ 533,962,630
Survivors	37,718,898	39,968,601	42,963,959	46,659,381
Disability	33,403	29,191	29,503	27,255
Lump sum	409,787	293,147	229,650	191,320
BackDROP & service transfers	56,705,060	98,038,103	64,332,464	67,779,388
Total benefits	\$ 543,747,258	\$ 615,170,783	\$ 612,110,631	\$ 648,619,974

Refunds	\$ 3,106	\$ 0	\$ 123,709	\$ 622,341
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Judicial Plan

Type of benefit	2010	2011	2012	2013
Retirement	\$ 19,784,720	\$ 21,025,904	\$ 22,284,844	\$ 23,123,707
Survivors	4,445,825	4,462,627	4,536,569	4,679,169
Total benefits	\$ 24,230,545	\$ 25,488,531	\$ 26,821,413	\$ 27,802,876

Refunds	\$ 0	\$ 0	\$ 0	\$ 0
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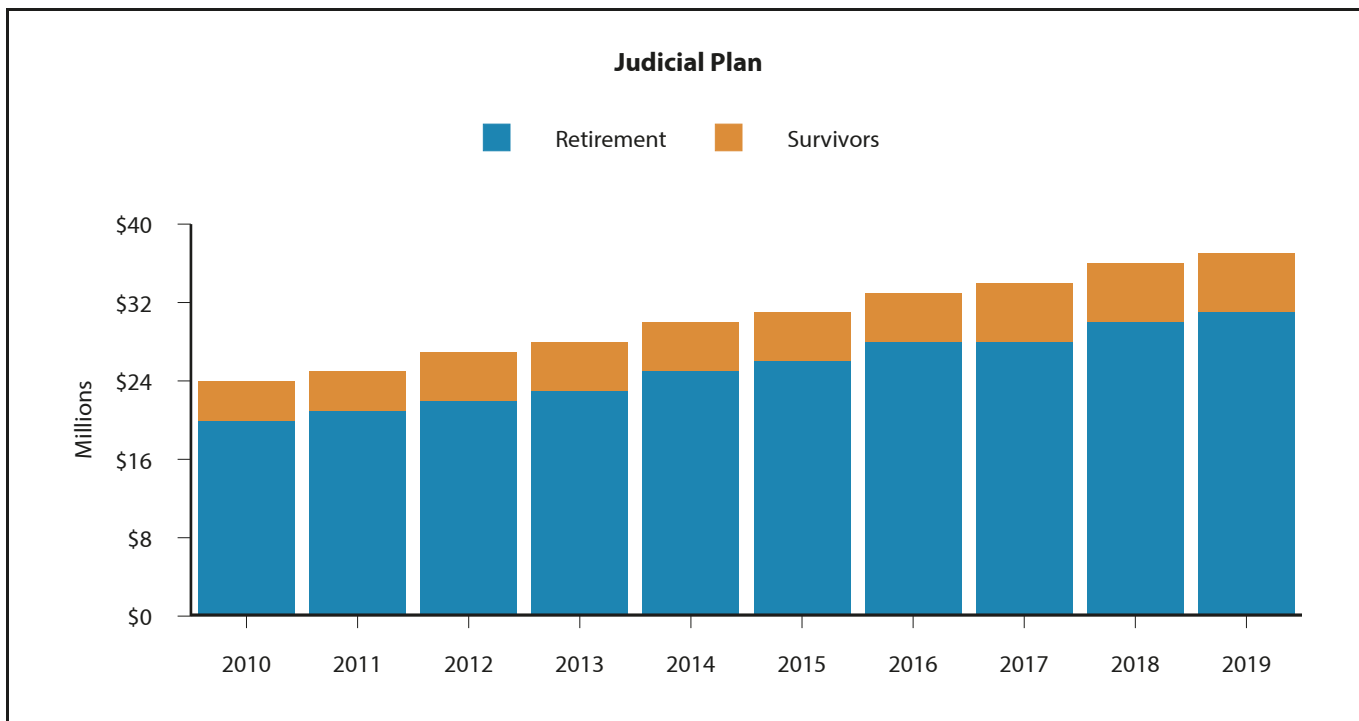


* Disability benefits are included, but amounts are too minimal to visually display in graph.

Source: MOSERS financial records

Deductions from Net Position for Benefits and Refunds by Type (continued)

2014	2015	2016	2017	2018	2019
\$ 560,553,490	\$ 586,597,187	\$ 615,708,229	\$ 640,637,749	\$ 670,663,932	\$ 703,117,097
49,922,170	52,940,062	56,495,787	59,628,687	63,081,129	66,493,496
22,468	16,857	15,470	14,821	5,223	2,260
286,184	57,525	267,198	123,005	61,041,258	318,656
68,229,937	86,174,905	81,025,620	88,739,858	86,417,233	75,883,587
\$ 679,014,249	\$ 725,786,536	\$ 753,512,304	\$ 789,144,120	\$ 881,208,775	\$ 845,815,096
\$ 1,421,856	\$ 2,479,264	\$ 3,798,199	\$ 4,820,737	\$ 5,502,698	\$ 6,006,484
24,609,421	26,181,505	27,641,108	28,304,733	29,655,995	31,463,475
4,797,204	5,064,400	5,338,598	5,675,104	5,995,494	6,122,009
\$ 29,406,625	\$ 31,245,905	\$ 32,979,706	\$ 33,979,837	\$ 35,651,489	\$ 37,585,484
\$ 0	\$ 0	\$ 10,008	\$ 4,888	\$ 5,760	\$ 7,565



* Disability benefits are included, but amounts are too minimal to visually display in graph.

Source: MOSERS' financial records

Pension Trust Funds

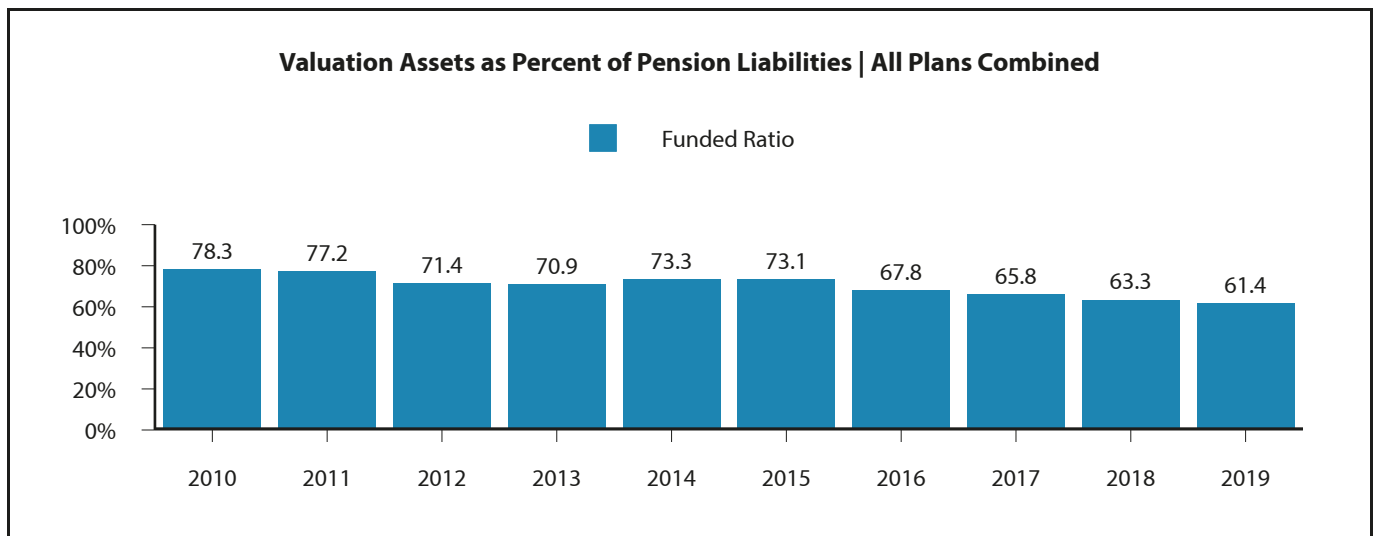
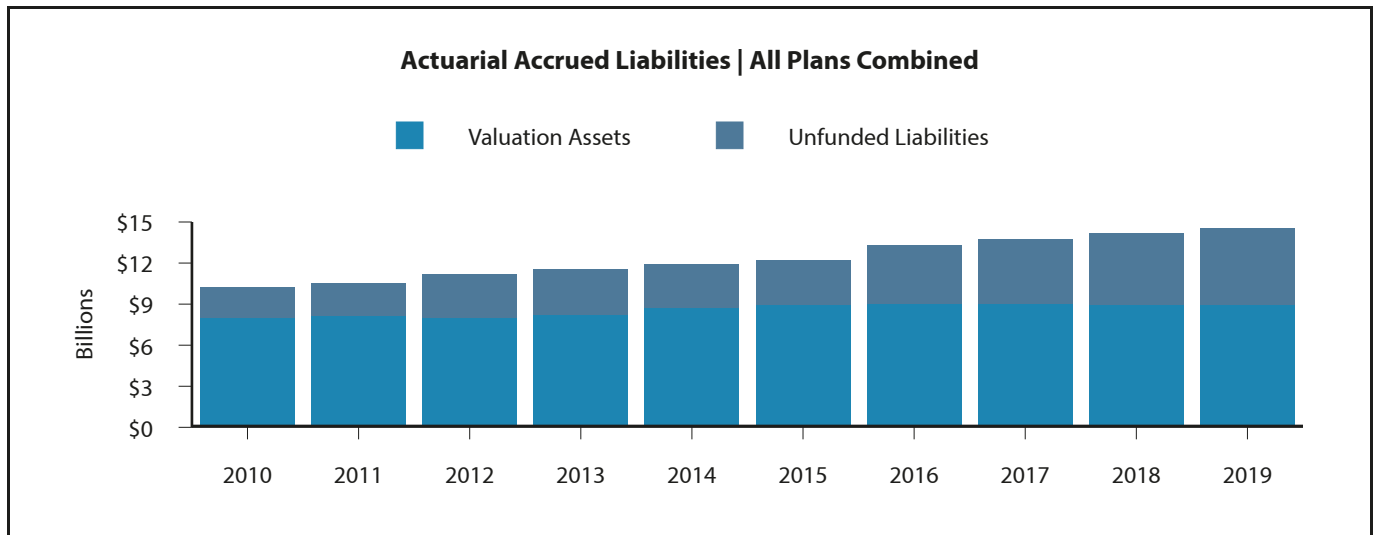
Valuation Assets (Smoothed Market) vs. Pension Liabilities

Last Ten Fiscal Years

MSEP & Judicial Plans Combined

Dollars in Billions

Fiscal Year	Valuation Assets	Unfunded Liabilities	Accrued Liabilities	Funded Ratios
2010	\$ 8.0124	\$ 2.2228	\$ 10.2352	78.3%
2011	8.1209	2.3961	10.5170	77.2
2012	7.9994	3.2076	11.2070	71.4
2013	8.2076	3.3624	11.5700	70.9
2014	8.7620	3.1949	11.9569	73.3
2015	8.9268	3.2838	12.2106	73.1
2016	9.0215	4.2773	13.2988	67.8
2017	9.0242	4.6925	13.7167	65.8
2018	8.9925	5.2140	14.2066	63.3
2019	8.9546	5.6205	14.5751	61.4



Source: MOSERS MSEP and Judicial Plan Actuarial Valuation Reports, most recent 10 years.

Pension Trust Funds

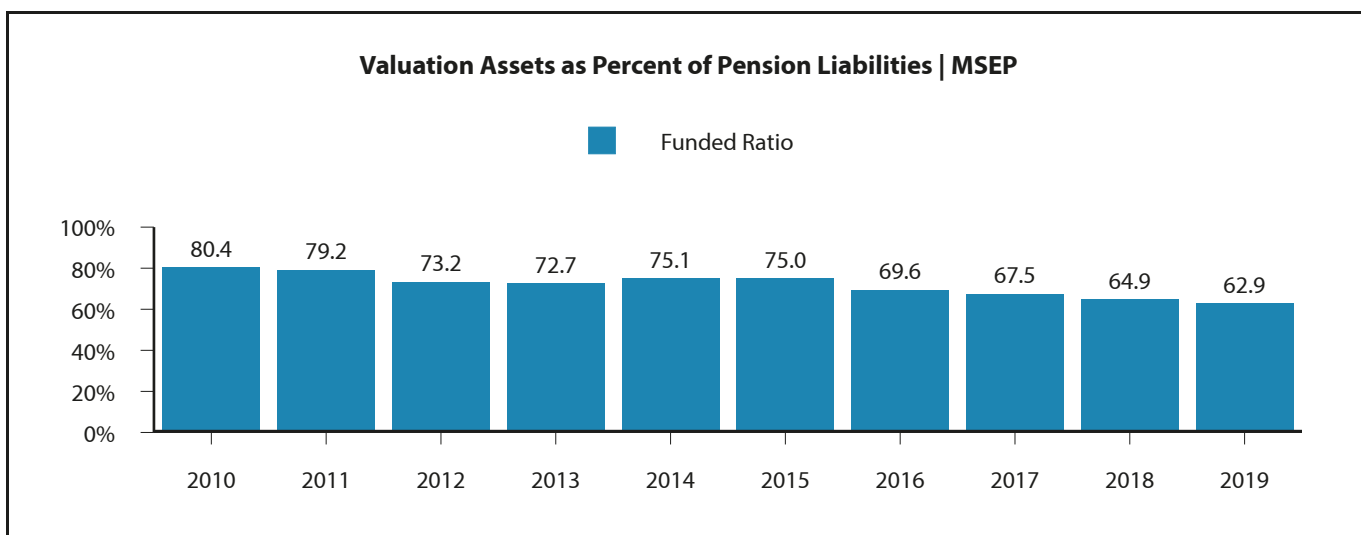
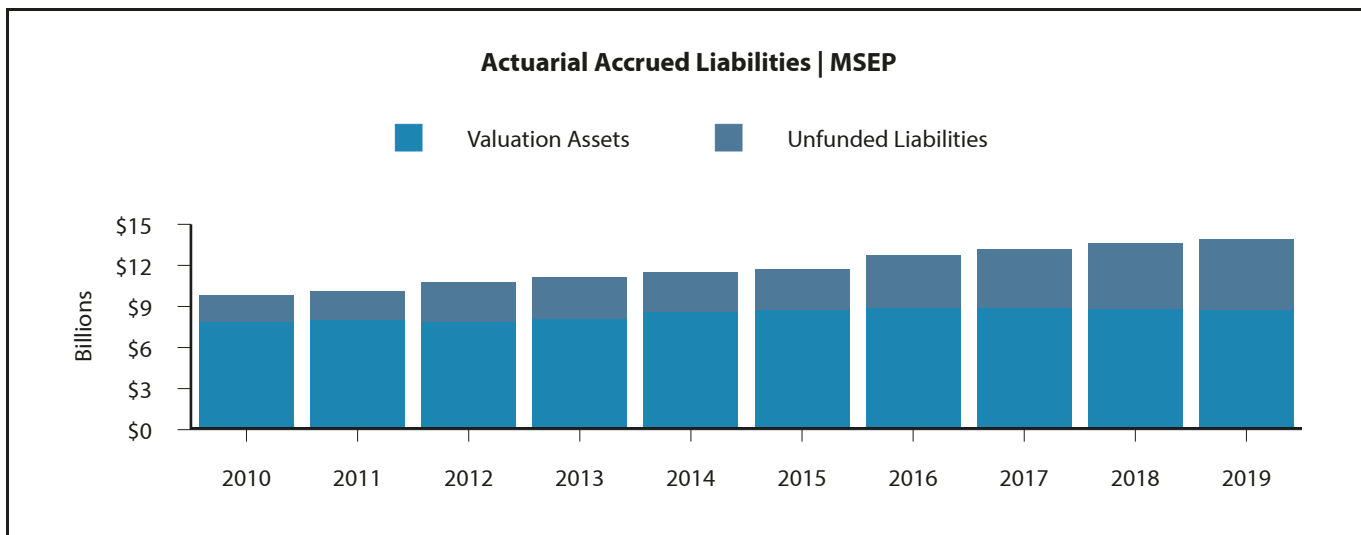
Valuation Assets (Smoothed Market) vs. Pension Liabilities

Last Ten Fiscal Years

MSEP

Dollars in Billions

Fiscal Year	Valuation Assets	Unfunded Liabilities	Accrued Liabilities	Funded Ratios
2010	\$ 7.9234	\$ 1.9298	\$ 9.8532	80.4%
2011	8.0225	2.1011	10.1235	79.2
2012	7.8972	2.8965	10.7937	73.2
2013	8.0964	3.0382	11.1346	72.7
2014	8.6378	2.8568	11.4946	75.1
2015	8.7925	2.9351	11.7276	75.0
2016	8.8781	3.8731	12.7512	69.6
2017	8.8724	4.2799	13.1523	67.5
2018	8.8304	4.7824	13.6128	64.9
2019	8.7824	5.1752	13.9576	62.9



Source: MOSERS' MSEP Actuarial Valuation Reports, most recent 10 years

Pension Trust Funds

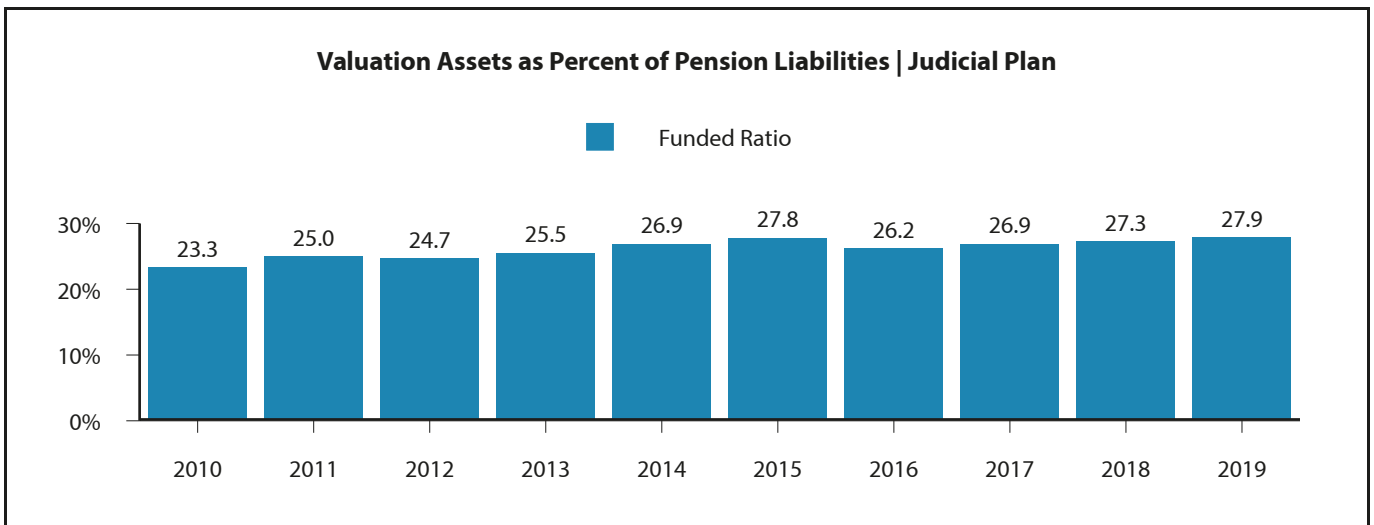
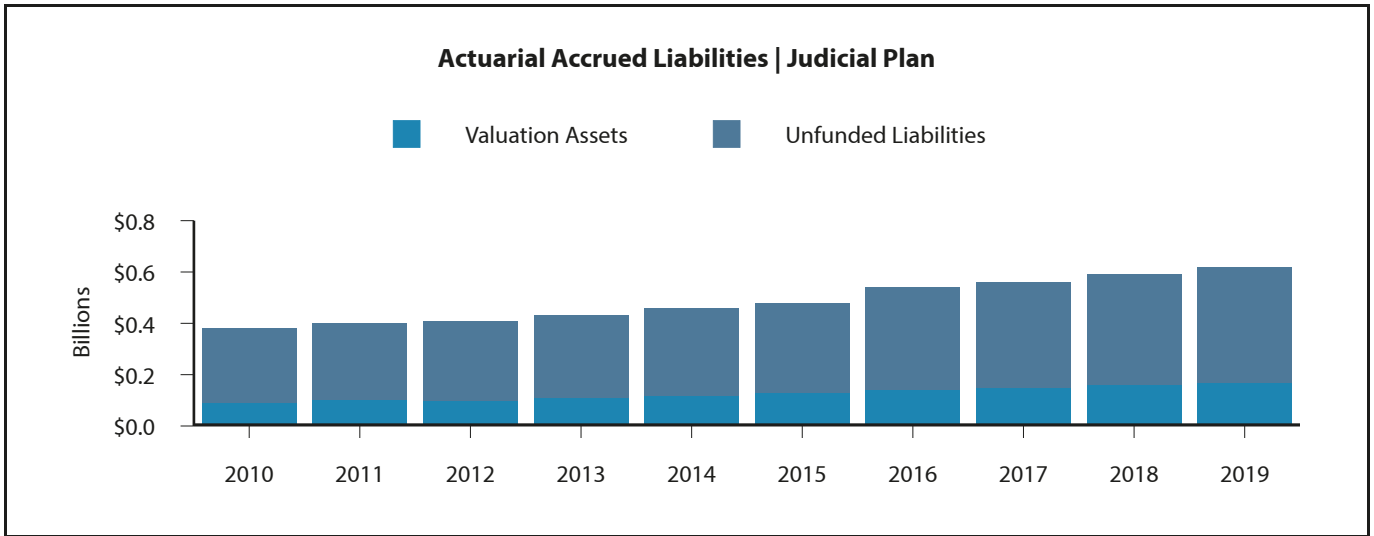
Valuation Assets (Smoothed Market) vs. Pension Liabilities

Last Ten Fiscal Years

Judicial Plan

Dollars in Billions

Fiscal Year	Valuation Assets	Unfunded Liabilities	Accrued Liabilities	Funded Ratios
2010	\$ 0.0890	\$ 0.2930	\$ 0.3820	23.3%
2011	0.0984	0.2951	0.3935	25.0
2012	0.1023	0.3111	0.4133	24.7
2013	0.1111	0.3242	0.4354	25.5
2014	0.1243	0.3381	0.4623	26.9
2015	0.1343	0.3486	0.4830	27.8
2016	0.1435	0.4042	0.5476	26.2
2017	0.1518	0.4126	0.5644	26.9
2018	0.1621	0.4317	0.5938	27.3
2019	0.1722	0.4453	0.6175	27.9



Source: MOSERS' Judicial Plan Actuarial Valuation Reports, most recent 10 years

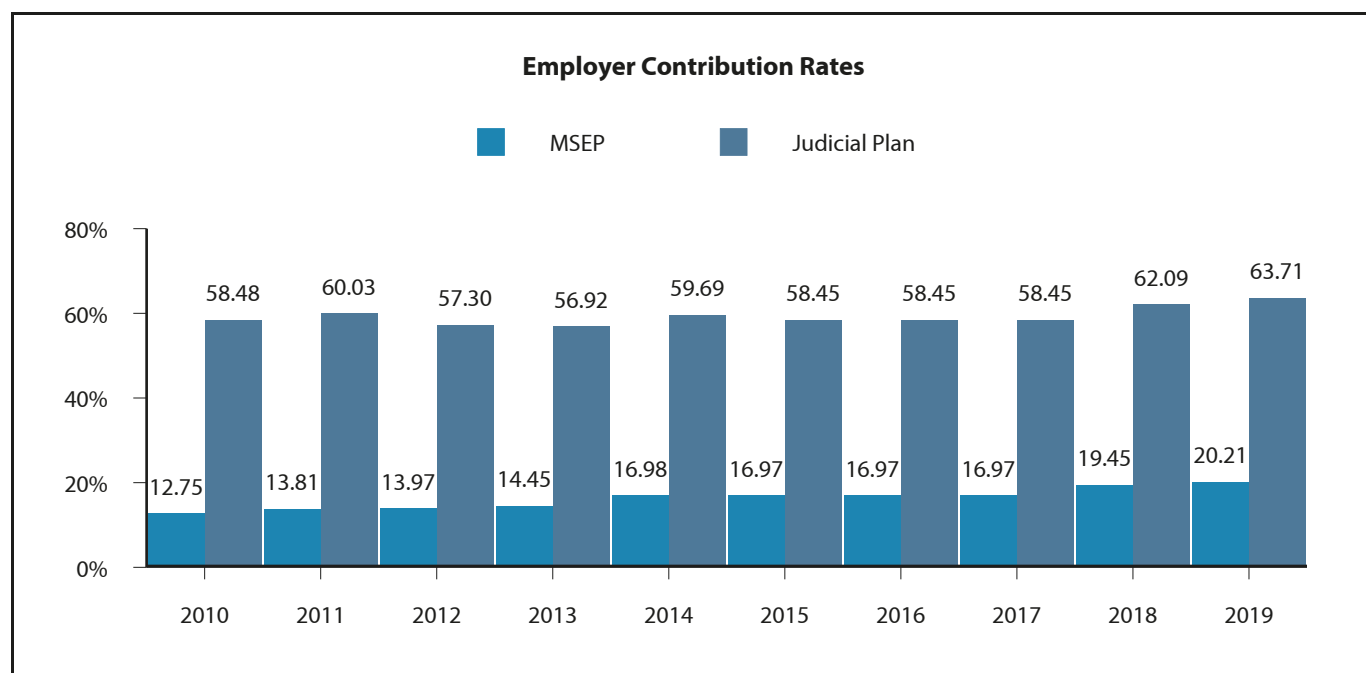
Pension Trust Funds

Employer Contribution Rates as a Percent of Payroll

Last Ten Fiscal Years

Fiscal Year	MSEP	Judicial
2010	12.75%	58.48%
2011	13.81	60.03
2012	13.97	57.30
2013	14.45	56.92
2014	16.98	59.69
2015	16.97	58.45
2016	16.97	58.45
2017	16.97	58.45
2018	19.45	62.09
2019	20.21	63.71

Note: In addition to the employer contribution rates, MOSERS also receives a fixed 4% employee contribution from MSEP 2011 and Judicial 2011 Plan members.



Source: MOSERS' MSEP and Judicial Plan Actuarial Valuation Reports, most recent 10 years

Membership in Retirement Plans

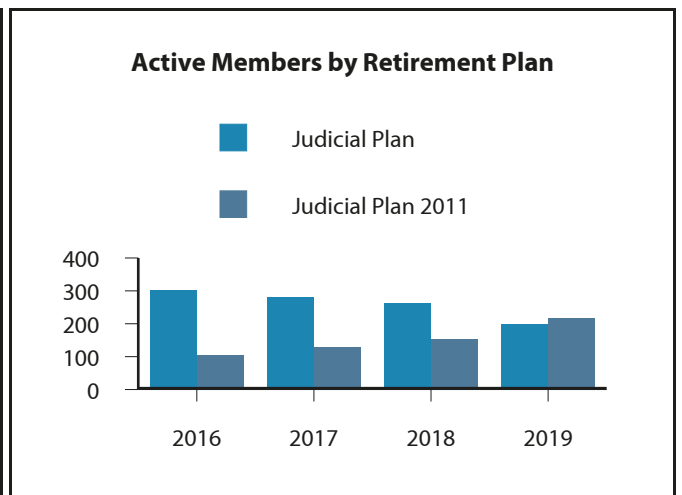
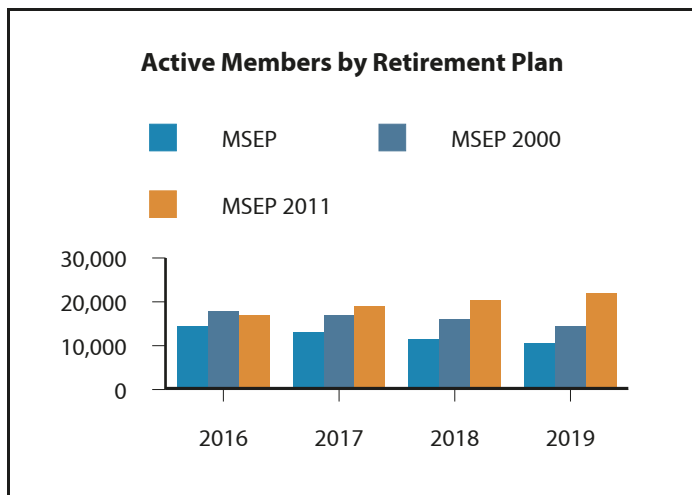
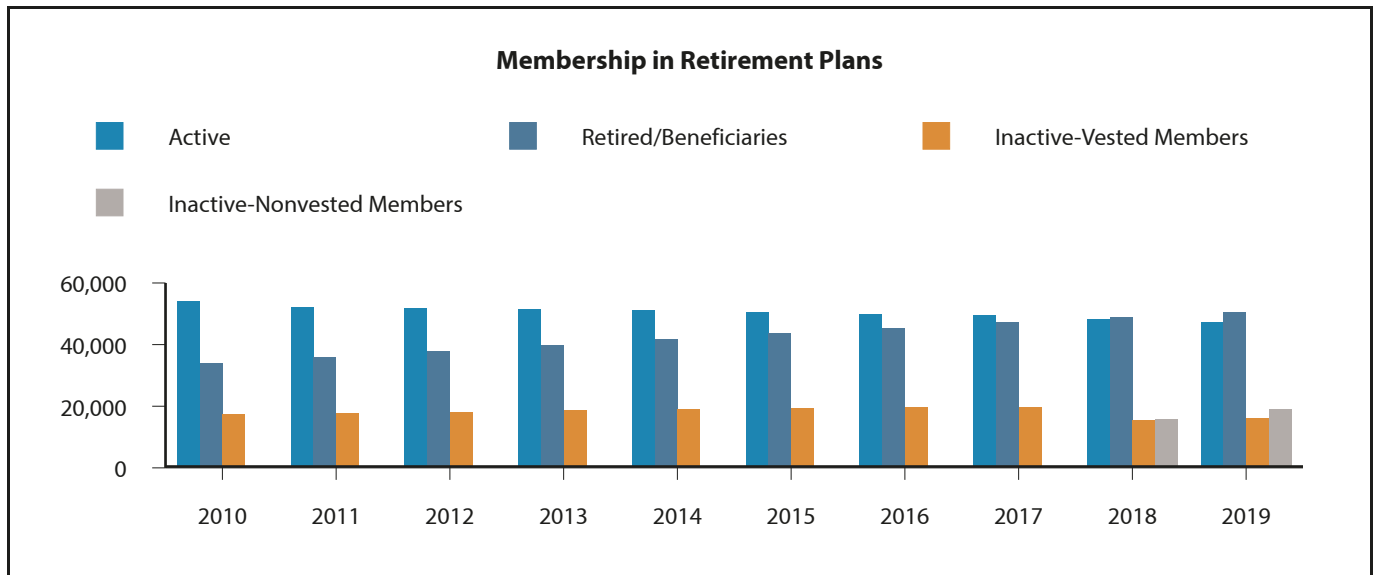
Last Ten Fiscal Years

MSEP & Judicial Plans Combined

Fiscal Year	Active Members	Retirees and Beneficiaries	Inactive-Vested Members*	Inactive-Nonvested Members**	Totals
2010	53,880	33,716	17,441		105,037
2011	52,059	35,801	17,757		105,617
2012	51,730	37,796	18,075		107,601
2013	51,233	39,636	18,581		109,450
2014	51,026	41,511	18,957		111,494
2015	50,385	43,503	19,319		113,207
2016	49,872	45,368	19,538		114,778
2017	49,320	47,119	19,603		116,042
2018	48,221	48,776	15,502	15,619	128,118
2019	47,278	50,281	16,052	18,852	132,463

* Excludes members on leave of absence and long-term disability.

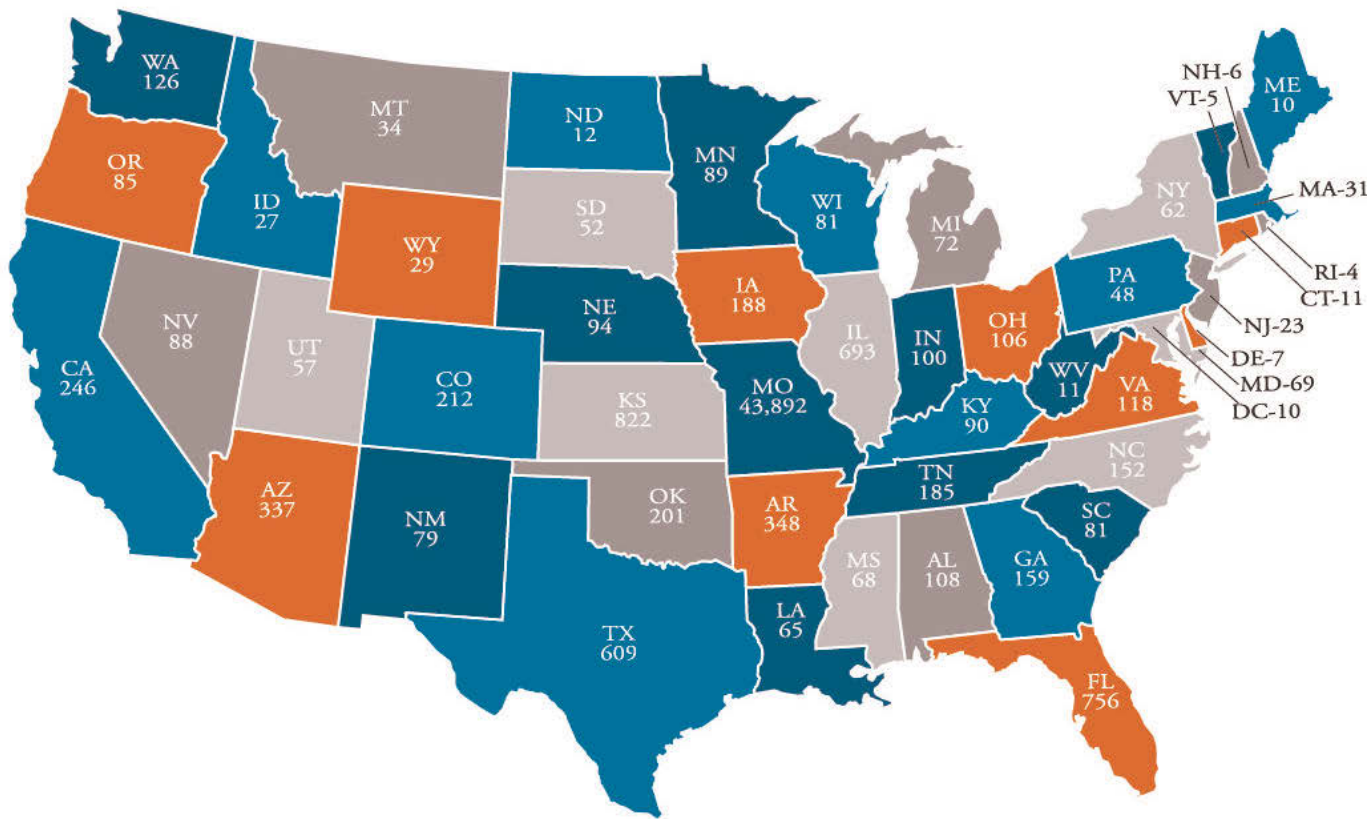
** Inactive-nonvested members of the MSEP 2011 who have not requested a refund of their contributions are now being included in the membership data.



Source: MOSERS' MSEP and Judicial Plan Actuarial Valuation Reports, most recent 10 years

Distribution of Benefit Recipients by Location

June 30, 2019



Benefit Recipients Outside the Continental United States

18 Alaska	1 Ecuador	2 Puerto Rico
14 Hawaii	1 Germany	1 Philippines
1 Army Post Office	1 Guam	1 Sweden
1 Argentina	1 Hong Kong	1 Thailand
2 Australia	1 India	2 The Netherlands
1 Brazil	2 Ireland	5 United Kingdom
12 Canada	1 Israel	2 Virgin Islands
1 Costa Rica	2 Italy	
1 Croatia	1 Latvia	
1 Czech Republic	1 Marshall Islands	

Source: MOSERS' Pension Administration System

Benefit Recipients by Type of Retirement and Option Elected

June 30, 2019

MSEP

Amount of Monthly Benefit	Number of Benefit Recipients	Type of Retirement						
		A	B	C	D	E	F	G
1-250	5,570	2,043	2,625	250	546	1	0	105
251-500	8,374	4,119	2,924	444	777	0	0	110
501-750	5,842	3,429	1,433	316	619	0	0	45
751-1000	5,253	3,821	716	210	466	0	0	40
1001-1250	4,860	4,010	356	129	347	0	0	18
1251-1500	4,130	3,606	150	115	250	0	0	9
1501-1750	3,382	3,042	87	67	183	0	0	3
1751-2000	2,798	2,570	47	47	129	0	0	5
Over 2000	10,032	9,277	92	164	495	0	0	4
Total	50,241	35,917	8,430	1,742	3,812	1	0	339

Judicial Plan

Amount of Monthly Benefit	Number of Benefit Recipients	Type of Retirement						
		A	B	C	D	E	F	G
1-250	2	0	1	0	1	0	0	0
251-500	10	0	7	0	2	0	0	1
501-750	6	0	3	0	2	0	0	1
751-1000	6	0	3	1	1	0	0	1
1001-1250	4	0	3	0	1	0	0	0
1251-1500	6	0	5	1	0	0	0	0
1501-1750	5	1	1	0	1	0	0	2
1751-2000	8	0	3	3	1	0	0	1
Over 2000	548	339	60	29	116	0	0	4
Total	595	340	86	34	125	0	0	10

Type of Retirement

- A - Normal retirement
- B - Early retirement
- C - Survivor of active
- D - Survivor of retired
- E - Disability
- F - Occupational disability (Water Patrol)
- G - Ex-spouse

Source: MOSERS' Pension Administration System

Benefit Recipients by Type of Retirement and Option Elected (continued)

Option Elected									
1	2	3	4	5	6	7	8	9	10
0	15	266	228	330	0	1,220	364	51	3,096
6	36	288	267	538	1	1,812	730	33	4,663
9	24	159	108	385	1	1,241	930	10	2,975
9	30	98	65	364	1	1,229	983	6	2,468
8	20	77	41	508	0	1,106	812	1	2,287
7	9	53	41	485	0	949	605	4	1,977
7	8	51	35	419	0	749	443	0	1,670
7	4	37	16	395	0	636	347	1	1,355
77	20	93	47	1,395	0	2,721	1,351	0	4,328
130	166	1,122	848	4,819	3	11,663	6,565	106	24,819

Option Elected									
1	2	3	4	5	6	7	8	9	10
2	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	1
4	0	0	0	1	0	0	0	0	1
3	0	0	0	0	0	1	0	0	2
3	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	3
515	0	0	0	20	0	0	0	1	12
550	0	0	0	21	0	1	0	1	22

Option Elected

- 1 - Automatic Joint & 50% Survivor
- 2 - Life Income with 60 Guaranteed Payments
- 3 - Life Income with 120 Guaranteed Payments
- 4 - Life Income with 180 Guaranteed Payments
- 5 - Joint & 50% Survivor
- 6 - Joint & 75% Survivor
- 7 - Joint & 100% Survivor
- 8 - Unreduced Joint & 50% Survivor
- 9 - Automatic Minor Survivor
- 10 - No Survivor Option (includes pop-ups)

Benefits Tabulated by Type of Benefit and by Option

June 30, 2019

MSEP Combined

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	24,329	\$ 350,438,388	\$ 14,404
Unreduced joint & 50% survivor	9,579	190,633,788	19,901
Joint & 100% survivor	8,373	152,323,224	18,192
Life income with 60 guaranteed payments	164	2,158,356	13,161
Life income with 120 guaranteed payments	1017	10,461,552	10,287
Life income with 180 guaranteed payments	696	5,943,096	8,539
Survivor beneficiary	3,809	48,900,528	12,838
Total	47,967	760,858,932	15,862
Disability retirement	1	2,280	2,280
Death-in-service	1,728	19,085,508	11,045
Grand totals	49,696	\$ 779,946,720	15,694

Judicial Plan Combined

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	6	\$ 411,048	\$ 68,508
Unreduced joint & 50% survivor	419	32,058,960	76,513
Joint & 100% survivor	1	11,064	11,064
Survivor beneficiary	125	4,941,228	39,530
Total	551	37,422,300	67,917
Death-in-service	34	1,178,124	34,651
Grand totals	585	\$ 38,600,424	65,984

Source: MOSERS' MSEP and Judicial Plan Actuarial Valuation Reports as of June 30, 2019

Benefits Tabulated by Type of Benefit and by Option

MSEP (Closed Plan)

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	5,903	\$ 91,381,176	\$ 15,480
Unreduced joint & 50% survivor	5,209	104,093,628	19,983
Joint & 100% survivor	3,157	71,186,940	22,549
Life income with 60 guaranteed payments	144	1,851,432	12,857
Life income with 120 guaranteed payments	170	2,118,912	12,464
Survivor beneficiary	2,638	37,521,372	14,223
Total	17,221	308,153,460	17,894
Disability retirement	1	2,280	2,280
Death-in-service	1,437	17,685,096	12,307
Grand totals	18,659	\$ 325,840,836	17,463

MSEP 2000

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	18,376	\$ 258,850,428	\$ 14,086
Unreduced joint & 50% survivor	4,359	86,478,072	19,839
Joint & 100% survivor	5,190	81,024,588	15,612
Life income with 60 guaranteed payments	20	306,924	15,346
Life income with 120 guaranteed payments	842	8,320,932	9,882
Life income with 180 guaranteed payments	689	5,897,028	8,559
Survivor beneficiary	1,171	11,379,156	9,717
Total	30,647	452,257,128	14,757
Death-in-service	289	1,381,956	4,782
Grand totals	30,936	\$ 453,639,084	14,664

MSEP 2011

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	50	\$ 206,784	\$ 4,136
Unreduced joint & 50% survivor	11	62,088	5,644
Joint & 100% survivor	26	111,696	4,296
Life income with 60 guaranteed payments	0	0	0
Life income with 120 guaranteed payments	5	21,708	4,342
Life income with 180 guaranteed payments	7	46,068	6,581
Survivor beneficiary	0	0	0
Total	99	448,344	4,529
Death-in-service	2	18,456	9,228
Grand totals	101	\$ 466,800	4,622

Benefits by Type of Benefit and by Option

Judicial Plan

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	4	\$ 328,320	\$ 82,080
Unreduced joint & 50% survivor	419	32,058,960	76,513
Joint & 100% survivor	0	0	0
Survivor beneficiary	125	4,941,228	39,530
Total	548	37,328,508	68,118
Death-in-service	34	1,178,124	34,651
Grand totals	582	\$ 38,506,632	66,163

Judicial Plan 2011

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	2	\$ 82,728	\$ 41,364
Unreduced joint & 50% survivor	0	0	0
Joint & 100% survivor	1	11,064	11,064
Survivor beneficiary	0	0	0
Total	3	93,792	31,264
Death-in-service	0	0	0
Grand totals	3	\$ 93,792	31,264

Source: MOSERS' MSEP and Judicial Plan Actuarial Valuation Reports as of June 30, 2019

Average Monthly Benefit Amounts

Last Ten Fiscal Years

MSEP

Members Retiring During Fiscal Year		Years Credited Service by Category							All Members
		<5	5-10	11-15	16-20	21-25	26-30	31+	
2010	Average monthly benefit	\$ 442	\$ 287	\$ 488	\$ 777	\$ 1,186	\$ 1,606	\$ 2,138	\$ 940
	Average final average salary	\$ 6,215	\$ 2,523	\$ 2,535	\$ 2,890	\$ 3,167	\$ 3,455	\$ 3,845	\$ 2,968
	Number of retirees	2	500	449	351	394	338	222	2,256
2011	Average monthly benefit	\$ 367	\$ 336	\$ 492	\$ 819	\$ 1,220	\$ 1,652	\$ 2,142	\$ 1,006
	Average final average salary	\$ 1,442	\$ 2,631	\$ 2,507	\$ 3,063	\$ 3,234	\$ 3,523	\$ 3,884	\$ 3,063
	Number of retirees	4	601	498	444	495	495	280	2,817
2012	Average monthly benefit	\$ 126	\$ 303	\$ 521	\$ 818	\$ 1,232	\$ 1,624	\$ 2,271	\$ 939
	Average final average salary	\$ 7,854	\$ 2,572	\$ 2,648	\$ 3,050	\$ 3,295	\$ 3,488	\$ 4,109	\$ 3,055
	Number of retirees	5	592	537	407	473	373	196	2,583
2013	Average monthly benefit	\$ 251	\$ 326	\$ 523	\$ 753	\$ 1,243	\$ 1,697	\$ 2,017	\$ 928
	Average final average salary	\$ 3,744	\$ 2,665	\$ 2,593	\$ 2,814	\$ 3,314	\$ 3,637	\$ 3,689	\$ 3,011
	Number of retirees	5	600	558	386	438	388	204	2,579
2014	Average monthly benefit	\$ 280	\$ 308	\$ 520	\$ 809	\$ 1,199	\$ 1,691	\$ 2,207	\$ 937
	Average final average salary	\$ 4,426	\$ 2,675	\$ 2,614	\$ 3,029	\$ 3,229	\$ 3,650	\$ 3,999	\$ 3,066
	Number of retirees	5	636	507	370	436	392	199	2,545
2015	Average monthly benefit	\$ 219	\$ 315	\$ 522	\$ 801	\$ 1,268	\$ 1,723	\$ 2,217	\$ 999
	Average final average salary	\$ 5,058	\$ 2,596	\$ 2,624	\$ 2,954	\$ 3,416	\$ 3,729	\$ 4,016	\$ 3,119
	Number of retirees	6	644	519	437	450	487	250	2,793
2016	Average monthly benefit	\$ 151	\$ 307	\$ 506	\$ 819	\$ 1,300	\$ 1,838	\$ 2,360	\$ 1,016
	Average final average salary	\$ 3,284	\$ 2,623	\$ 2,600	\$ 3,020	\$ 3,445	\$ 3,968	\$ 4,204	\$ 3,175
	Number of retirees	6	611	502	430	505	423	215	2,692
2017	Average monthly benefit	\$ 309	\$ 339	\$ 562	\$ 946	\$ 1,365	\$ 1,860	\$ 2,391	\$ 1,116
	Average final average salary	\$ 4,658	\$ 2,731	\$ 2,849	\$ 3,426	\$ 3,641	\$ 4,030	\$ 4,291	\$ 3,406
	Number of retirees	9	518	508	459	440	477	239	2,650
2018	Average monthly benefit	\$ 402	\$ 338	\$ 584	\$ 922	\$ 1,420	\$ 1,887	\$ 2,511	\$ 1,148
	Average final average salary	\$ 5,977	\$ 2,815	\$ 2,899	\$ 3,323	\$ 3,802	\$ 4,096	\$ 4,538	\$ 3,488
	Number of retirees	7	523	475	486	520	515	208	2,734
2019	Average monthly benefit	\$ 198	\$ 369	\$ 609	\$ 886	\$ 1,356	\$ 1,840	\$ 2,321	\$ 1,131
	Average final average salary	\$ 5,081	\$ 2,907	\$ 2,900	\$ 3,076	\$ 3,637	\$ 3,978	\$ 4,206	\$ 3,390
	Number of retirees	3	484	388	409	456	428	225	2,393
Ten Years Ended June 30, 2019									
	Average monthly benefit	\$ 270	\$ 322	\$ 531	\$ 839	\$ 1,282	\$ 1,749	\$ 2,255	\$ 1,017
	Average final average salary	\$ 4,757	\$ 2,668	\$ 2,671	\$ 3,077	\$ 3,425	\$ 3,773	\$ 4,074	\$ 3,176
	Number of retirees	52	5,709	4,941	4,179	4,607	4,316	2,238	26,042

Note: COLA increases and temporary benefits payable under MSEP 2000 until age 62 are excluded from the above for comparison purposes.

Source: MOSERS' Pension Administration System

Average Monthly Benefit Amounts

Last Ten Fiscal Years

General Employees in the MSEP*

Members Retiring During Fiscal Year		Years Credited Service by Category							All Members
		<5	5-10	11-15	16-20	21-25	26-30	31+	
2010	Average monthly benefit	\$ 60	\$ 281	\$ 475	\$ 773	\$ 1,179	\$ 1,601	\$ 2,113	\$ 932
	Average final average salary	\$ 4,258	\$ 2,519	\$ 2,519	\$ 2,890	\$ 3,154	\$ 3,456	\$ 3,815	\$ 2,957
	Number of retirees	1	496	446	350	393	337	220	2,243
2011	Average monthly benefit	\$ 39	\$ 302	\$ 472	\$ 802	\$ 1,217	\$ 1,622	\$ 2,124	\$ 992
	Average final average salary	\$ 925	\$ 2,612	\$ 2,486	\$ 3,052	\$ 3,234	\$ 3,518	\$ 3,862	\$ 3,055
	Number of retirees	3	571	491	440	494	492	278	2,769
2012	Average monthly benefit	\$ 126	\$ 290	\$ 502	\$ 805	\$ 1,232	\$ 1,617	\$ 2,271	\$ 932
	Average final average salary	\$ 7,854	\$ 2,557	\$ 2,626	\$ 3,036	\$ 3,295	\$ 3,475	\$ 4,109	\$ 3,045
	Number of retirees	5	584	532	404	473	372	196	2,566
2013	Average monthly benefit	\$ 169	\$ 301	\$ 502	\$ 746	\$ 1,234	\$ 1,697	\$ 1,995	\$ 921
	Average final average salary	\$ 4,244	\$ 2,653	\$ 2,568	\$ 2,813	\$ 3,295	\$ 3,637	\$ 3,645	\$ 3,001
	Number of retirees	3	574	551	384	437	388	203	2,540
2014	Average monthly benefit	\$ 262	\$ 298	\$ 514	\$ 803	\$ 1,195	\$ 1,691	\$ 2,207	\$ 935
	Average final average salary	\$ 5,382	\$ 2,663	\$ 2,612	\$ 3,029	\$ 3,230	\$ 3,650	\$ 3,999	\$ 3,065
	Number of retirees	3	629	503	368	435	392	199	2,529
2015	Average monthly benefit	\$ 219	\$ 301	\$ 517	\$ 786	\$ 1,268	\$ 1,723	\$ 2,208	\$ 994
	Average final average salary	\$ 5,058	\$ 2,581	\$ 2,623	\$ 2,947	\$ 3,416	\$ 3,729	\$ 4,007	\$ 3,116
	Number of retirees	6	633	517	433	450	487	249	2,775
2016	Average monthly benefit	\$ 151	\$ 297	\$ 506	\$ 819	\$ 1,285	\$ 1,838	\$ 2,343	\$ 1,011
	Average final average salary	\$ 3,284	\$ 2,617	\$ 2,600	\$ 3,020	\$ 3,420	\$ 3,968	\$ 4,184	\$ 3,168
	Number of retirees	6	603	502	430	502	423	213	2,679
2017	Average monthly benefit	\$ 230	\$ 313	\$ 551	\$ 934	\$ 1,355	\$ 1,853	\$ 2,379	\$ 1,109
	Average final average salary	\$ 5,026	\$ 2,710	\$ 2,839	\$ 3,414	\$ 3,624	\$ 4,016	\$ 4,265	\$ 3,395
	Number of retirees	6	500	504	456	439	476	238	2,619
2018	Average monthly benefit	\$ 220	\$ 329	\$ 577	\$ 921	\$ 1,397	\$ 1,887	\$ 2,511	\$ 1,142
	Average final average salary	\$ 5,477	\$ 2,813	\$ 2,889	\$ 3,321	\$ 3,762	\$ 4,096	\$ 4,538	\$ 3,477
	Number of retirees	6	517	474	485	517	515	208	2,722
2019	Average monthly benefit	\$ 198	\$ 340	\$ 594	\$ 868	\$ 1,345	\$ 1,840	\$ 2,321	\$ 1,126
	Average final average salary	\$ 5,081	\$ 2,903	\$ 2,885	\$ 3,077	\$ 3,624	\$ 3,978	\$ 4,206	\$ 3,390
	Number of retirees	3	463	384	403	454	428	225	2,360
Ten Years Ended June 30, 2019									
	Average monthly benefit	\$ 181	\$ 304	\$ 519	\$ 830	\$ 1,273	\$ 1,744	\$ 2,245	\$ 1,010
	Average final average salary	\$ 4,845	\$ 2,657	\$ 2,659	\$ 3,072	\$ 3,412	\$ 3,770	\$ 4,059	\$ 3,169
	Number of retirees	42	5,570	4,904	4,153	4,594	4,310	2,229	25,802

* Excludes legislators, elected officials, water patrol, and administrative law judges.

Note: COLA increases and temporary benefits payable under MSEP 2000 until age 62 are excluded from the above for comparison purposes.

Source: MOSERS' Pension Administration System

Average Monthly Benefit Amounts

Last Ten Fiscal Years

Legislators in the MSEP

Members Retiring During Fiscal Year		Years Credited Service by Category							All Members
		<5	5-10	11-15	16-20	21-25	26-30	31+	
2010	Average monthly benefit	\$ 0	\$ 982	\$ 1,496	\$ 2,245	\$ 0	\$ 3,242	\$ 0	\$ 1,559
	Average final average salary	\$ 0	\$ 2,993	\$ 2,993	\$ 2,993	\$ 0	\$ 2,993	\$ 0	\$ 2,993
	Number of retirees	0	4	1	1	0	1	0	7
2011	Average monthly benefit	\$ 0	\$ 992	\$ 1,512	\$ 2,021	\$ 2,744	\$ 3,242	\$ 0	\$ 1,247
	Average final average salary	\$ 0	\$ 2,993	\$ 2,993	\$ 2,993	\$ 2,993	\$ 2,993	\$ 0	\$ 2,993
	Number of retirees	0	30	4	4	1	1	0	40
2012	Average monthly benefit	\$ 0	\$ 1,069	\$ 1,659	\$ 2,225	\$ 0	\$ 0	\$ 0	\$ 1,335
	Average final average salary	\$ 0	\$ 2,993	\$ 2,993	\$ 2,993	\$ 0	\$ 0	\$ 0	\$ 2,993
	Number of retirees	0	7	3	1	0	0	0	11
2013	Average monthly benefit	\$ 374	\$ 907	\$ 1,513	\$ 2,120	\$ 0	\$ 0	\$ 0	\$ 1,036
	Average final average salary	\$ 2,993	\$ 2,993	\$ 2,993	\$ 2,993	\$ 0	\$ 0	\$ 0	\$ 2,993
	Number of retirees	2	25	5	2	0	0	0	34
2014	Average monthly benefit	\$ 307	\$ 1,051	\$ 1,496	\$ 1,995	\$ 2,744	\$ 0	\$ 0	\$ 1,296
	Average final average salary	\$ 2,993	\$ 2,993	\$ 2,993	\$ 2,993	\$ 2,993	\$ 0	\$ 0	\$ 2,993
	Number of retirees	2	6	3	2	1	0	0	14
2015	Average monthly benefit	\$ 0	\$ 977	\$ 1,735	\$ 2,162	\$ 0	\$ 0	\$ 0	\$ 1,315
	Average final average salary	\$ 0	\$ 2,993	\$ 2,993	\$ 2,993	\$ 0	\$ 0	\$ 0	\$ 2,993
	Number of retirees	0	10	2	3	0	0	0	15
2016	Average monthly benefit	\$ 0	\$ 1,048	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 1,048
	Average final average salary	\$ 0	\$ 2,993	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 2,993
	Number of retirees	0	7	0	0	0	0	0	7
2017	Average monthly benefit	\$ 499	\$ 954	\$ 1,580	\$ 1,995	\$ 0	\$ 0	\$ 0	\$ 1,041
	Average final average salary	\$ 2,993	\$ 2,993	\$ 2,993	\$ 2,993	\$ 0	\$ 0	\$ 0	\$ 2,993
	Number of retirees	2	17	3	1	0	0	0	23
2018	Average monthly benefit	\$ 0	\$ 1,122	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 1,122
	Average final average salary	\$ 0	\$ 2,993	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 2,993
	Number of retirees	0	6	0	0	0	0	0	6
2019	Average monthly benefit	\$ 0	\$ 1,017	\$ 1,496	\$ 2,117	\$ 2,744	\$ 0	\$ 0	\$ 1,327
	Average final average salary	\$ 0	\$ 2,993	\$ 2,993	\$ 2,993	\$ 2,993	\$ 0	\$ 0	\$ 2,993
	Number of retirees	0	21	2	6	1	0	0	30
Ten Years Ended June 30, 2019									
	Average monthly benefit	\$ 393	\$ 989	\$ 1,555	\$ 2,098	\$ 2,744	\$ 3,242	\$ 0	\$ 1,211
	Average final average salary	\$ 2,993	\$ 2,993	\$ 2,993	\$ 2,993	\$ 2,993	\$ 2,993	\$ 0	\$ 2,993
	Number of retirees	6	133	23	20	3	2	0	187

Note: COLA increases are excluded from the above for comparison purposes.

Source: MOSERS' Pension Administration System

Average Monthly Benefit Amounts

Last Ten Fiscal Years

Elected Officials in the MSEP

Members Retiring During Fiscal Year		Years Credited Service by Category							All Members
		<5	5-10	11-15	16-20	21-25	26-30	31+	
2010	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Number of retirees	0	0	0	0	0	0	0	0
2011	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Number of retirees	0	0	0	0	0	0	0	0
2012	Average monthly benefit	\$ 0	\$ 0	\$ 3,781	\$ 0	\$ 0	\$ 0	\$ 0	\$ 3,781
	Average final average salary	\$ 0	\$ 0	\$ 8,093	\$ 0	\$ 0	\$ 0	\$ 0	\$ 8,093
	Number of retirees	0	0	2	0	0	0	0	2
2013	Average monthly benefit	\$ 0	\$ 0	\$ 4,489	\$ 0	\$ 0	\$ 0	\$ 0	\$ 4,489
	Average final average salary	\$ 0	\$ 0	\$ 8,979	\$ 0	\$ 0	\$ 0	\$ 0	\$ 8,979
	Number of retirees	0	0	1	0	0	0	0	1
2014	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Number of retirees	0	0	0	0	0	0	0	0
2015	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Number of retirees	0	0	0	0	0	0	0	0
2016	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Number of retirees	0	0	0	0	0	0	0	0
2017	Average monthly benefit	\$ 0	\$ 2,993	\$ 3,099	\$ 0	\$ 5,576	\$ 0	\$ 0	\$ 3,889
	Average final average salary	\$ 0	\$ 8,979	\$ 7,207	\$ 0	\$ 11,152	\$ 0	\$ 0	\$ 9,113
	Number of retirees	0	1	1	0	1	0	0	3
2018	Average monthly benefit	\$ 1,496	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 1,496
	Average final average salary	\$ 8,979	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 8,979
	Number of retirees	1	0	0	0	0	0	0	1
2019	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Number of retirees	0	0	0	0	0	0	0	0
Ten Years Ended June 30, 2019									
Average monthly benefit		\$ 0	\$ 2,993	\$ 3,788	\$ 0	\$ 5,576	\$ 0	\$ 0	\$ 3,602
Average final average salary		\$ 0	\$ 8,979	\$ 8,093	\$ 0	\$ 11,152	\$ 0	\$ 0	\$ 8,783
Number of retirees		1	1	4	0	1	0	0	7

Note: COLA increases are excluded from the above for comparison purposes.

Source: MOSERS' Pension Administration System

Average Monthly Benefit Amounts

Last Ten Fiscal Years

Uniformed Water Patrol in the MSEP

Members Retiring During Fiscal Year		Years Credited Service by Category							All Members
		<5	5-10	11-15	16-20	21-25	26-30	31+	
2010	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 4,886	\$ 4,886
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 7,184	\$ 7,184
	Number of retirees	0	0	0	0	0	0	2	2
2011	Average monthly benefit	\$ 0	\$ 0	\$ 721	\$ 0	\$ 0	\$ 3,086	\$ 4,553	\$ 3,200
	Average final average salary	\$ 0	\$ 0	\$ 2,964	\$ 0	\$ 0	\$ 5,077	\$ 6,912	\$ 5,388
	Number of retirees	0	0	1	0	0	2	2	5
2012	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 959	\$ 0	\$ 0	\$ 0	\$ 959
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 2,794	\$ 0	\$ 0	\$ 0	\$ 2,794
	Number of retirees	0	0	0	1	0	0	0	1
2013	Average monthly benefit	\$ 0	\$ 69	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 69
	Average final average salary	\$ 0	\$ 1,291	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 1,291
	Number of retirees	0	1	0	0	0	0	0	1
2014	Average monthly benefit	\$ 0	\$ 0	\$ 780	\$ 0	\$ 0	\$ 0	\$ 0	\$ 780
	Average final average salary	\$ 0	\$ 0	\$ 2,507	\$ 0	\$ 0	\$ 0	\$ 0	\$ 2,507
	Number of retirees	0	0	1	0	0	0	0	1
2015	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 4,539	\$ 4,539
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 6,321	\$ 6,321
	Number of retirees	0	0	0	0	0	0	1	1
2016	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 4,221	\$ 4,221
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 6,375	\$ 6,375
	Number of retirees	0	0	0	0	0	0	2	2
2017	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 1,079	\$ 0	\$ 0	\$ 0	\$ 1,079
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 2,846	\$ 0	\$ 0	\$ 0	\$ 2,846
	Number of retirees	0	0	0	1	0	0	0	1
2018	Average monthly benefit	\$ 0	\$ 0	\$ 0	\$ 1,492	\$ 0	\$ 0	\$ 0	\$ 1,492
	Average final average salary	\$ 0	\$ 0	\$ 0	\$ 4,347	\$ 0	\$ 0	\$ 0	\$ 4,347
	Number of retirees	0	0	0	1	0	0	0	1
2019	Average monthly benefit	\$ 0	\$ 0	\$ 671	\$ 0	\$ 0	\$ 0	\$ 0	\$ 671
	Average final average salary	\$ 0	\$ 0	\$ 2,659	\$ 0	\$ 0	\$ 0	\$ 0	\$ 2,659
	Number of retirees	0	0	1	0	0	0	0	1
Ten Years Ended June 30, 2019									
	Average monthly benefit	\$ 0	\$ 69	\$ 724	\$ 1,177	\$ 0	\$ 3,086	\$ 4,551	\$ 2,738
	Average final average salary	\$ 0	\$ 1,291	\$ 2,710	\$ 3,329	\$ 0	\$ 5,077	\$ 6,752	\$ 4,801
	Number of retirees	0	1	3	3	0	2	7	16

Note: COLA increases and temporary benefits payable under MSEP 2000 until age 62 are excluded from the above for comparison purposes.

Source: MOSERS' Pension Administration System

Average Monthly Benefit Amounts

Last Ten Fiscal Years

Administrative Law Judges and Legal Advisors in the MSEP

Members Retiring During Fiscal Year		Years Credited Service by Category							All Members
		<5	5-10	11-15	16-20	21-25	26-30	31+	
2010	Average monthly benefit	\$ 823	\$ 0	\$ 2,827	\$ 0	\$ 4,101	\$ 0	\$ 0	\$ 2,645
	Average final average salary	\$ 8,172	\$ 0	\$ 5,851	\$ 0	\$ 8,202	\$ 0	\$ 0	\$ 7,019
	Number of retirees	1	0	2	0	1	0	0	4
2011	Average monthly benefit	\$ 0	\$ 0	\$ 3,216	\$ 4,101	\$ 0	\$ 0	\$ 0	\$ 3,511
	Average final average salary	\$ 0	\$ 0	\$ 6,433	\$ 8,202	\$ 0	\$ 0	\$ 0	\$ 7,023
	Number of retirees	0	0	2	1	0	0	0	3
2012	Average monthly benefit	\$ 0	\$ 2,493	\$ 0	\$ 4,378	\$ 0	\$ 4,204	\$ 0	\$ 3,692
	Average final average salary	\$ 0	\$ 8,756	\$ 0	\$ 8,756	\$ 0	\$ 8,408	\$ 0	\$ 8,640
	Number of retirees	0	1	0	1	0	1	0	3
2013	Average monthly benefit	\$ 0	\$ 0	\$ 2,657	\$ 0	\$ 4,134	\$ 0	\$ 4,450	\$ 3,747
	Average final average salary	\$ 0	\$ 0	\$ 5,314	\$ 0	\$ 8,267	\$ 0	\$ 8,900	\$ 7,494
	Number of retirees	0	0	1	0	1	0	1	3
2014	Average monthly benefit	\$ 0	\$ 2,433	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 2,433
	Average final average salary	\$ 0	\$ 8,146	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 8,146
	Number of retirees	0	1	0	0	0	0	0	1
2015	Average monthly benefit	\$ 0	\$ 2,259	\$ 0	\$ 3,012	\$ 0	\$ 0	\$ 0	\$ 2,636
	Average final average salary	\$ 0	\$ 7,936	\$ 0	\$ 6,023	\$ 0	\$ 0	\$ 0	\$ 6,980
	Number of retirees	0	1	0	1	0	0	0	2
2016	Average monthly benefit	\$ 0	\$ 853	\$ 0	\$ 0	\$ 3,811	\$ 0	\$ 0	\$ 3,072
	Average final average salary	\$ 0	\$ 3,508	\$ 0	\$ 0	\$ 7,623	\$ 0	\$ 0	\$ 6,594
	Number of retirees	0	1	0	0	3	0	0	4
2017	Average monthly benefit	\$ 401	\$ 0	\$ 0	\$ 5,065	\$ 0	\$ 5,298	\$ 5,273	\$ 4,009
	Average final average salary	\$ 5,777	\$ 0	\$ 0	\$ 10,129	\$ 0	\$ 10,596	\$ 10,546	\$ 9,262
	Number of retirees	1	0	0	1	0	1	1	4
2018	Average monthly benefit	\$ 0	\$ 0	\$ 3,860	\$ 0	\$ 5,313	\$ 0	\$ 0	\$ 4,950
	Average final average salary	\$ 0	\$ 0	\$ 7,720	\$ 0	\$ 10,625	\$ 0	\$ 0	\$ 9,899
	Number of retirees	0	0	1	0	3	0	0	4
2019	Average monthly benefit	\$ 0	\$ 0	\$ 4,353	\$ 0	\$ 5,115	\$ 0	\$ 0	\$ 4,734
	Average final average salary	\$ 0	\$ 0	\$ 8,707	\$ 0	\$ 10,230	\$ 0	\$ 0	\$ 9,469
	Number of retirees	0	0	1	0	1	0	0	2
Ten Years Ended June 30, 2019									
	Average monthly benefit	\$ 612	\$ 2,010	\$ 3,279	\$ 4,139	\$ 4,525	\$ 4,751	\$ 4,862	\$ 3,624
	Average final average salary	\$ 6,975	\$ 7,087	\$ 6,616	\$ 8,278	\$ 9,049	\$ 9,502	\$ 9,723	\$ 8,054
	Number of retirees	2	4	7	4	9	2	2	30

Note: COLA increases are excluded from the above for comparison purposes.

Source: MOSERS' Pension Administration System

Average Monthly Benefit Amounts

Last Ten Fiscal Years

Judicial Plan

Members Retiring During Fiscal Year		Years Credited Service by Category							All Members
		<5	5-10	11-15	16-20	21-25	26-30	31+	
2010	Average monthly benefit	\$ 458	\$ 1,333	\$ 4,507	\$ 3,802	\$ 0	\$ 5,181	\$ 4,973	\$ 3,972
	Average final average salary	\$ 6,597	\$ 8,000	\$ 9,577	\$ 7,604	\$ 0	\$ 10,362	\$ 9,946	\$ 9,047
	Number of retirees	1	1	2	2	0	2	3	11
2011	Average monthly benefit	\$ 0	\$ 2,188	\$ 4,615	\$ 4,566	\$ 4,807	\$ 4,866	\$ 4,650	\$ 4,384
	Average final average salary	\$ 0	\$ 7,994	\$ 9,299	\$ 9,132	\$ 9,613	\$ 9,732	\$ 9,299	\$ 9,187
	Number of retirees	0	4	9	10	5	3	5	36
2012	Average monthly benefit	\$ 1,740	\$ 2,353	\$ 4,561	\$ 4,621	\$ 0	\$ 5,020	\$ 0	\$ 3,684
	Average final average salary	\$ 9,114	\$ 7,797	\$ 10,179	\$ 9,241	\$ 0	\$ 10,040	\$ 0	\$ 9,055
	Number of retirees	1	5	4	4	0	1	0	15
2013	Average monthly benefit	\$ 0	\$ 2,277	\$ 4,234	\$ 4,625	\$ 5,444	\$ 5,452	\$ 5,293	\$ 4,699
	Average final average salary	\$ 0	\$ 8,123	\$ 8,696	\$ 9,251	\$ 10,888	\$ 10,904	\$ 10,585	\$ 9,767
	Number of retirees	0	2	6	4	5	4	2	23
2014	Average monthly benefit	\$ 0	\$ 2,310	\$ 4,571	\$ 5,151	\$ 5,117	\$ 4,869	\$ 5,293	\$ 4,313
	Average final average salary	\$ 0	\$ 8,259	\$ 9,143	\$ 10,303	\$ 10,233	\$ 9,738	\$ 10,585	\$ 9,435
	Number of retirees	0	4	6	3	3	1	1	18
2015	Average monthly benefit	\$ 1,114	\$ 3,140	\$ 5,572	\$ 5,572	\$ 5,970	\$ 5,572	\$ 5,848	\$ 5,392
	Average final average salary	\$ 11,143	\$ 9,419	\$ 11,143	\$ 11,143	\$ 11,940	\$ 11,143	\$ 11,697	\$ 11,253
	Number of retirees	1	3	7	10	7	4	7	39
2016	Average monthly benefit	\$ 0	\$ 4,193	\$ 5,575	\$ 5,452	\$ 6,166	\$ 5,844	\$ 0	\$ 5,545
	Average final average salary	\$ 0	\$ 11,688	\$ 11,503	\$ 10,903	\$ 12,332	\$ 11,688	\$ 0	\$ 11,569
	Number of retirees	0	2	3	5	4	2	0	16
2017	Average monthly benefit	\$ 602	\$ 4,487	\$ 5,506	\$ 6,054	\$ 5,878	\$ 6,178	\$ 5,931	\$ 5,293
	Average final average salary	\$ 8,136	\$ 11,696	\$ 11,367	\$ 12,108	\$ 11,756	\$ 12,355	\$ 11,861	\$ 11,574
	Number of retirees	2	3	2	4	6	4	2	23
2018	Average monthly benefit	\$ 0	\$ 4,549	\$ 5,525	\$ 6,114	\$ 5,989	\$ 6,238	\$ 6,365	\$ 5,955
	Average final average salary	\$ 0	\$ 12,477	\$ 11,947	\$ 12,227	\$ 11,978	\$ 12,477	\$ 12,730	\$ 12,259
	Number of retirees	0	1	4	4	4	4	3	20
2019	Average monthly benefit	\$ 603	\$ 0	\$ 5,658	\$ 6,025	\$ 6,037	\$ 6,074	\$ 6,074	\$ 5,653
	Average final average salary	\$ 9,520	\$ 0	\$ 11,371	\$ 12,051	\$ 12,075	\$ 12,147	\$ 12,147	\$ 11,758
	Number of retirees	2	0	10	13	7	2	4	38
Ten Years Ended June 30, 2019									
	Average monthly benefit	\$ 817	\$ 2,858	\$ 5,039	\$ 5,350	\$ 5,721	\$ 5,646	\$ 5,564	\$ 5,009
	Average final average salary	\$ 8,881	\$ 9,098	\$ 10,327	\$ 10,701	\$ 11,441	\$ 11,292	\$ 11,128	\$ 10,639
	Number of retirees	7	25	53	59	41	27	27	239

Note: COLA increases are excluded from the above for comparison purposes.

Source: MOSERS' Pension Administration System

Retirees and Beneficiaries Tabulated by Fiscal Year of Retirement

As of June 30, 2019

MSEP

Fiscal Year of Retirement	Number	Total Annual Benefit	Average Monthly Benefit
1979 and prior	17	\$ 69,190	\$ 339
1980	9	59,801	554
1981	15	111,918	622
1982	17	148,828	730
1983	5	50,742	846
1984	30	269,429	748
1985	43	362,854	703
1986	67	645,564	803
1987	82	963,350	979
1988	105	1,588,124	1,260
1989	140	2,390,537	1,423
1990	150	2,294,198	1,275
1991	218	4,109,307	1,571
1992	259	4,412,512	1,420
1993	371	6,515,990	1,464
1994	354	6,316,265	1,487
1995	500	9,288,783	1,548
1996	556	10,759,701	1,613
1997	571	10,558,870	1,541
1998	701	13,879,095	1,650
1999	840	16,618,923	1,649
2000	914	17,738,234	1,617
2001	1,942	37,207,365	1,597
2002	1,347	22,386,096	1,385
2003	1,502	26,282,287	1,458
2004	2,039	33,935,928	1,387
2005	1,482	22,465,122	1,263
2006	1,660	23,823,731	1,196
2007	1,978	29,312,755	1,235
2008	1,996	28,956,615	1,209
2009	2,100	31,001,237	1,230
2010	2,192	31,254,144	1,188
2011	2,809	42,196,264	1,252
2012	2,624	36,989,761	1,175
2013	2,732	37,242,528	1,136
2014	2,771	38,583,331	1,160
2015	3,049	44,649,883	1,220
2016	3,043	44,569,667	1,221
2017	2,999	47,928,464	1,332
2018	3,166	50,192,111	1,321
2019	2,846	45,034,723	1,319
	50,241	\$ 783,164,227	\$ 1,299

Source: MOSERS' Pension Administration System

Retirees and Beneficiaries Tabulated by Fiscal Year of Retirement

As of June 30, 2019

Judicial Plan

Fiscal Year of Retirement	Number	Total Annual Benefit	Average Monthly Benefit
1979 and prior	2	\$ 27,797	\$ 1,158
1980	1	22,337	1,861
1981	0	0	0
1982	0	0	0
1983	1	21,941	1,828
1984	1	23,320	1,943
1985	0	0	0
1986	0	0	0
1987	5	224,706	3,745
1988	1	78,249	6,521
1989	2	64,174	2,674
1990	4	221,214	4,609
1991	8	383,568	3,995
1992	3	152,158	4,227
1993	6	275,755	3,830
1994	3	125,818	3,495
1995	10	740,950	6,175
1996	6	296,740	4,121
1997	4	249,262	5,193
1998	12	732,754	5,089
1999	12	781,776	5,429
2000	12	884,770	6,144
2001	14	1,241,242	7,388
2002	13	1,010,457	6,477
2003	17	1,164,484	5,708
2004	16	1,072,153	5,584
2005	13	1,137,742	7,293
2006	12	466,939	3,243
2007	47	3,126,113	5,543
2008	27	1,686,160	5,204
2009	32	1,812,701	4,721
2010	14	838,746	4,993
2011	35	2,112,648	5,030
2012	19	964,274	4,229
2013	29	2,028,687	5,830
2014	24	1,465,026	5,087
2015	53	3,856,671	6,064
2016	26	1,677,271	5,376
2017	35	2,263,381	5,389
2018	31	2,292,942	6,164
2019	45	3,118,071	5,774
	595	\$ 38,642,997	\$ 5,412

Source: MOSERS' Pension Administration System

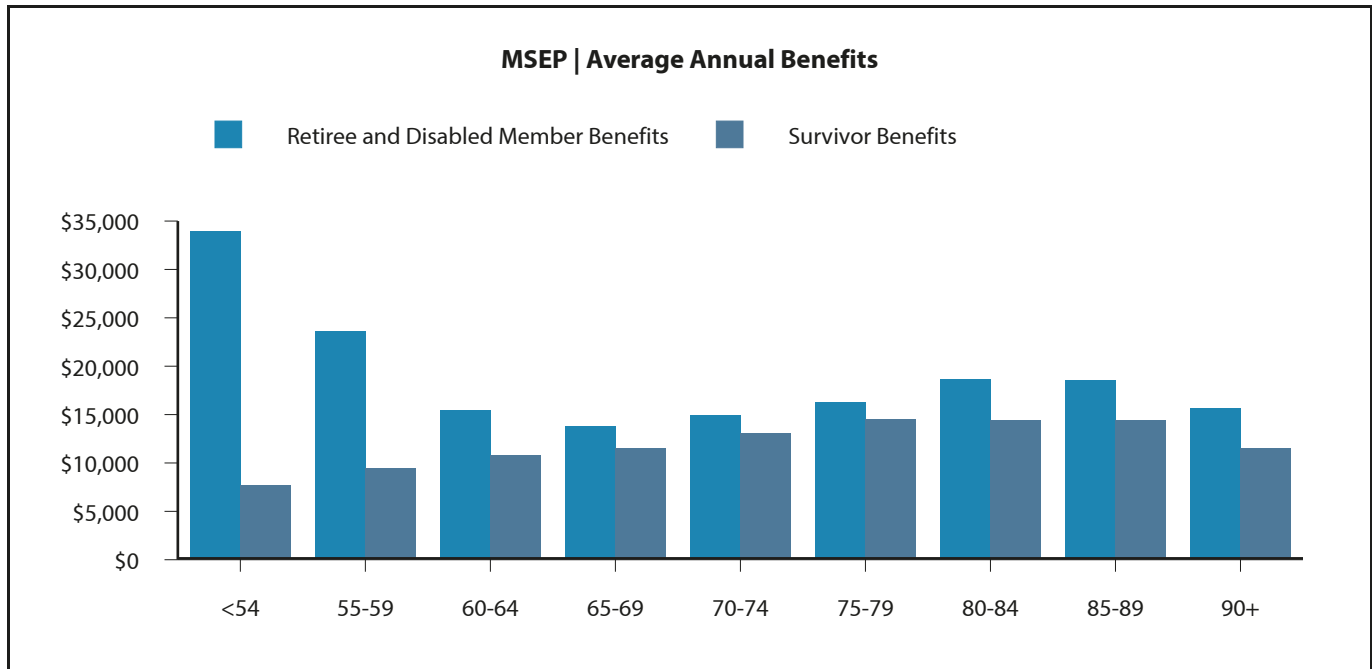
Benefits Tabulated by Attained Ages of Benefit Recipients

As of June 30, 2019

MSEP

Attained Ages	Retirees & Disabled		Beneficiaries		Totals	
	No.	Annual Benefits	No.	Annual Benefits	No.	Annual Benefits
<54	460	\$ 15,606,156	574	\$ 4,389,084	1,034	\$ 19,995,240
55-59	3,120	73,789,704	334	3,169,260	3,454	76,958,964
60-64	8,221	126,831,432	533	5,738,820	8,754	132,570,252
65-69	11,662	161,138,616	744	8,529,840	12,406	169,668,456
70-74	9,614	143,706,540	835	10,924,392	10,449	154,630,932
75-79	5,500	89,726,388	802	11,623,416	6,302	101,349,804
80-84	3,071	57,163,428	758	10,939,560	3,829	68,102,988
85-89	1,631	30,261,384	584	8,395,236	2,215	38,656,620
90+	880	13,737,036	373	4,276,428	1,253	18,013,464
Totals	44,159	\$ 711,960,684	5,537	\$ 67,986,036	49,696	\$ 779,946,720

Average age at retirement: 61.5 years • Average age now: 70.5 years



Average annual benefit : \$16,123 retiree and disabled members • \$12,278 beneficiaries

Source: MOSERS' MSEP Plan Actuarial Valuation Report as of June 30, 2019

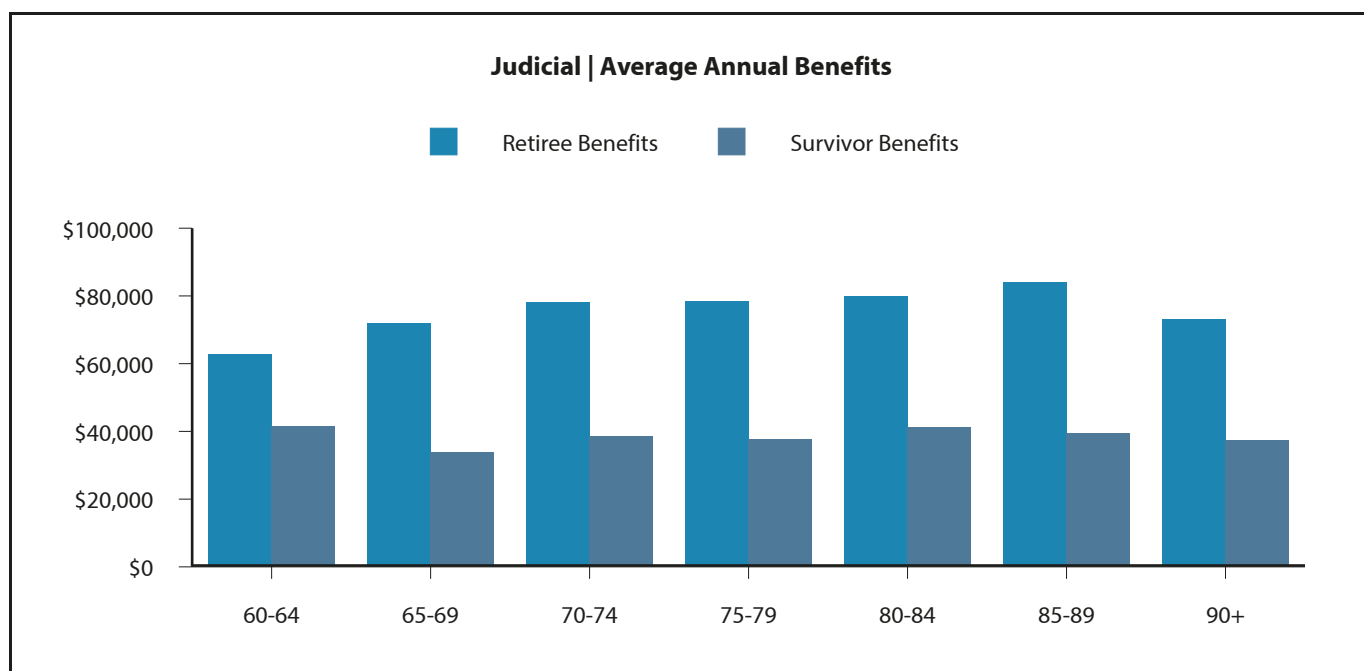
Benefits Tabulated by Attained Ages of Benefit Recipients

As of June 30, 2019

Judicial Plan

Attained Ages	Retirees		Beneficiaries		Totals	
	No.	Annual Benefits	No.	Annual Benefits	No.	Annual Benefits
60-64	26	\$ 1,629,936	11	\$ 456,564	37	\$ 2,086,500
65-69	92	6,621,024	12	404,772	104	7,025,796
70-74	149	11,626,080	25	962,664	174	12,588,744
75-79	73	5,726,352	20	752,868	93	6,479,220
80-84	43	3,431,316	23	946,860	66	4,378,176
85-89	28	2,350,872	29	1,140,396	57	3,491,268
90+	15	1,095,492	39	1,455,228	54	2,550,720
Totals	426	\$ 32,481,072	159	\$ 6,119,352	585	\$ 38,600,424

Average age at retirement: 65.7 years • Average age now: 76.3 years



Average benefit paid: \$76,247 retiree and disabled members • \$38,486 beneficiaries

Source: MOSERS' Judicial Plan Actuarial Valuation Report as of June 30, 2019

Principal Participating Employers

Current Year and Nine Years Ago

Participating Employer	2019			2010		
	Covered Employees	Rank	Percent of Membership	Covered Employees	Rank	Percent of Membership
State of Missouri	41,101	1	86.9%	46,148	1	86.5%
Missouri State University	1,816	2	3.8%	1,903	2	3.6
University of Central Missouri	878	3	1.9%	1,178	3	2.2
Southeast Missouri State University	807	4	1.7%	978	4	1.8
Truman State University	567	5	1.2%	678	5	1.3
Northwest Missouri State University	540	6	1.1%	631	6	1.2
Missouri Southern State University	398	7	0.8%	441	7	0.8
Missouri Western State University	396	8	0.8%	416	9	0.8
Lincoln University	298	9	0.6%	430	8	0.8
Harris-Stowe State University	167	10	0.4%	204	10	0.4
All others	310		0.7%	339		0.6
Total	47,278		100.0%	53,346		100.0%

Source: MOSERS' Pension Administration System

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