# **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

		2020		2019		2018		2017
MSEP								
Additions								
Employer contributions	\$	436,895,653	\$	394,150,042	\$	379,557,962	\$	335,217,422
Employee contributions		35,141,960		31,286,632		28,303,993		25,439,343
Member service purchases		1,388,992		1,293,774		2,020,720		1,691,046
Service transfers in		2,664,796		2,592,737		3,297,251		3,977,803
Investment income (net of expenses)		400,354,303		313,159,178		578,883,501		272,073,643
Other		133,952		496,898		538,600		522,025
Total additions to plan net assets		876,579,656		742,979,261		992,602,027		638,921,282
Deductions								
Benefit payments		864,807,554		842,813,907		879,148,738		787,300,328
Contribution refunds		5,224,489		6,006,484		5,502,698		4,820,737
Service transfers out		3,784,195		3,001,189		2,060,037		1,843,792
Administrative expenses		8,398,164		9,200,826		10,024,178		8,759,341
Total deductions from plan net position		882,214,402		861,022,406		896,735,651		802,724,198
Change in net position	\$	(5,634,746)	\$	(118,043,145)	\$	95,866,376	\$	(163,802,916)
Judicial Plan								
Additions								
Employer contributions	\$	39,174,515	\$	38,604,668	\$	36,892,203	\$	34,246,826
Employee contributions	¥	1,314,570	Y	1,138,101	Ψ	902,320	Ψ	786,745
Investment income (net of expenses)		8,162,709		6,051,941		10,727,603		4,671,168
Other		0,102,709		3,895		9,981		8,963
Total additions to plan net position		48,651,794		45,798,605		48,532,107		39,713,702
Deductions		,		,,,,,,,,,		,		27,1 20,1 02
Benefit payments		39,622,268		37,585,484		35,651,489		33,979,837
Contribution refunds		0		7,565		5,760		4,888
Administrative expenses		74,450		72,141		185,763		150,387
Total deductions from plan net position		39,696,718		37,665,190		35,843,012		34,135,112
Change in net position	\$	8,955,076	\$	8,133,415	\$	12,689,095	\$	5,578,590
Internal Comits Found								
Internal Service Fund  Operating revenues								
Premium receipts	<b>@</b>	22 592 559	4	21 242 770	Φ	21 110 222	Φ	29 770 209
=	\$	32,582,558	Þ	31,342,778	Ф	31,119,232 800,000	Ð	28,779,398
Deferred compensation receipts Miscellaneous income		1,315,076 484,075		1,215,000 494,722		480,120		700,000
Total operating revenues		34,381,709		33,052,500		32,399,352		480,120 29,959,518
Operating expenses		34,361,709		33,032,300		32,399,332		29,939,316
Premium disbursements		22 540 567		21 225 200		21 100 (12		20 760 500
		32,549,567		31,325,399		31,100,612		28,769,588
Deferred compensation disbursements		0 32.001		17 270		14 211		0.810
÷								
		34,208,100		34,994,445		32,702,107		29,729,519
		53.828		127.342		85.806		36.497
	\$		\$		\$		\$	266,496
Premium refunds Administrative expenses Total operating expenses Non-operating revenues Investment income Change in net position	\$	32,991 1,625,602 34,208,160 53,828 227,377	\$	17,379 1,649,467 32,992,245 127,342 187,597	\$	14,211 1,587,344 32,702,167 85,806 (217,009)	\$	9,810 950,121 29,729,519 36,497 266,490

Changes in Net position continued on page 135

# **Changes in Fiduciary Net Position (continued)**

Last Ten Fiscal Years

	2016		2015	2014		2013		2012		2011
\$	329,957,369	\$	329,752,832	\$ 326,370,336	\$	274,655,284	\$	263,373,924	\$	263,418,048
"	21,684,920	"	18,099,455	14,025,328	"	9,698,883	"	4,955,399	"	599,761
	2,815,749		1,859,005	2,909,423		3,475,123		2,869,085		2,814,551
	2,107,873		3,575,815	2,252,206		2,446,627		2,675,339		142,248
	1,194,422		(237,603,530)	1,484,709,539		778,008,348		158,102,123		1,395,677,299
	545,847		533,001	450,453		489,193		448,463		659,474
	358,306,180		116,216,578	1,830,717,285		1,068,773,458		432,424,333		1,663,311,381
	750,440,412		723,994,041	677,097,411		646,708,308		611,522,451		597,424,954
	3,798,199		2,479,264	1,421,856		622,341		123,709		0
	3,071,892		1,792,495	1,916,840		1,911,665		588,180		17,745,828
	8,489,375		8,077,692	7,336,922		7,575,883		7,017,057		7,054,581
<u>a</u>	765,799,878 (407,493,698)	dt-	736,343,492 (620,126,914)	687,773,029	ď٢	656,818,197 411,955,261	dt .	619,251,397	dh	622,225,363
<del>P</del>	(407,493,098)	ð	(020,120,914)	\$ 1,142,944,256	Þ	411,955,201	ð	(186,827,064)	Þ	1,041,086,018
\$	33,642,497	\$	32,696,686	\$ 29,264,877	\$	28,330,649	\$	26,324,526	\$	27,702,682
	661,206	"	488,193	294,810		211,936		149,859	"	59,958
	19,273		(3,618,469)			10,724,252		2,061,916		17,460,050
	8,808		8,117	6,489		6,743		5,849		8,250
	34,331,784		29,574,527	50,954,437		39,273,580		28,542,150		45,230,940
	32,979,706		31,245,906	29,406,625		27,802,871		26,821,412		25,488,531
	10,008		0	0		0		0		0
	136,983		123,015	105,693		104,428		91,514		88,253
	33,126,697	<i>a</i> h	31,368,921	29,512,318	<i>a</i> h	27,907,299	<i>(</i> *)	26,912,926	<i>(</i> *)	25,576,784
<u> </u>	1,205,087	<b>&gt;</b>	(1,794,394)	\$ 21,442,119	<b>&gt;</b>	11,366,281	>	1,629,224	<b>&gt;</b>	19,654,156
\$	30,360,162	\$	30,177,918	\$ 29,563,054	\$	28,961,637	\$	28,578,326	\$	28,829,638
Ħ	0	¥	0	1,000,000	T	0	٣	17,500,476	¥	54,221,226
	480,120		480,120	480,120		480,120		608,187		981,404
	30,840,282		30,658,038	31,043,174		29,441,757		46,686,989		84,032,268
				, ,		· · · · · · · · · · · · · · · · · · ·				
	30,328,802		30,157,271	29,544,110		28,930,950		28,556,036		28,804,638
	0		0	0		0		17,500,476		54,221,226
	31,360		20,646	18,942		30,687		22,291		24,999
	1,015,578		960,827	755,945		805,457		778,529		826,809
	31,375,740		31,138,744	30,318,997		29,767,094		46,857,332		83,877,672
•	(516,691)	Ф.	12,549	11,886	Φ.	12,075	4	(150.275)	Ф.	11,071
Þ	(516,681)	Þ	(468,157)	\$ 736,063	Þ	(313,262)	Þ	(159,275)	ð	165,667

# **Deductions from Net Position for Benefits and Refunds by Type**

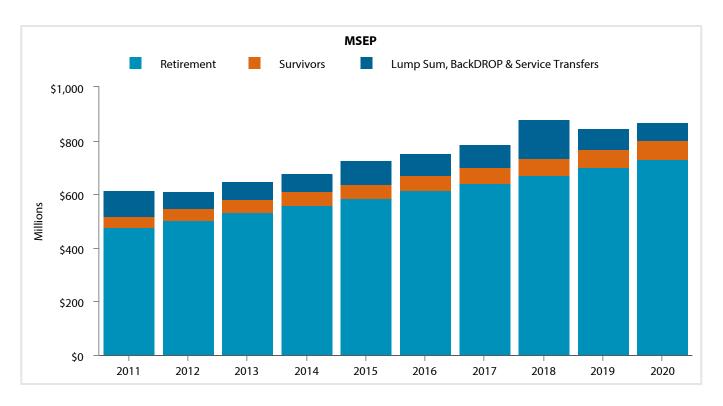
Last Ten Fiscal Years

### **MSEP**

Type of benefit	2011	2012	2013	2014
Retirement	\$ 476,841,741	\$ 504,555,055	\$ 533,962,630	\$ 560,553,490
Survivors	39,968,601	42,963,959	46,659,381	49,922,170
Disability	29,191	29,503	27,255	22,468
Lump-sum	293,147	229,650	191,320	286,184
BackDROP & service transfers	 98,038,103	64,332,464	67,779,388	68,229,937
Total benefits	\$ 615,170,783	\$ 612,110,631	\$ 648,619,974	\$ 679,014,249
Refunds	\$ 0	\$ 123,709	\$ 622,341	\$ 1,421,856

#### **Judicial Plan**

Type of benefit	2011	2012	2013	2014
Retirement	\$ 21,025,904	\$ 22,284,844	\$ 23,123,707	\$ 24,609,421
Survivors	 4,462,627	4,536,569	4,679,169	4,797,204
Total benefits	\$ 25,488,531	\$ 26,821,413	\$ 27,802,876	\$ 29,406,625
Refunds	\$ 0	\$ 0	\$ 0	\$ 0



<sup>\*</sup> Disability benefits are included, but amounts are too minimal to visually display in graph.

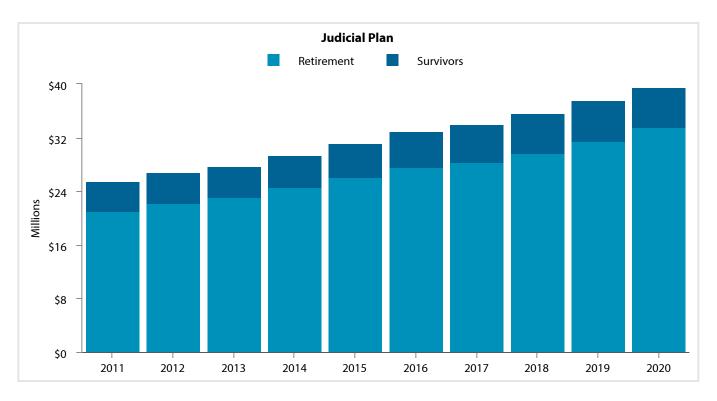
Source: MOSERS' financial records

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

Last Ten Fiscal Years

2015	2016	2017	2018	2019	2020
\$ 586,597,187	\$ 615,708,229	\$ 640,637,749	\$ 670,663,932	\$ 703,117,097	\$ 730,310,371
52,940,062	56,495,787	59,628,687	63,081,129	66,493,496	70,583,387
16,857	15,470	14,821	5,223	2,260	2,300
57,525	267,198	123,005	61,041,258	318,656	245,297
86,174,905	81,025,620	88,739,858	86,417,233	75,883,587	67,450,394
\$ 725,786,536	\$ 753,512,304	\$ 789,144,120	\$ 881,208,775	\$ 845,815,096	\$ 868,591,749
\$ 2,479,264	\$ 3,798,199	\$ 4,820,737	\$ 5,502,698	\$ 6,006,484	\$ 5,224,489

2015	2016	2017	2018		2019	2020
\$ 26,181,505	\$ 27,641,108	\$ 28,304,733	\$ 29,655,995	\$	31,463,475	\$ 33,577,616
5,064,400	5,338,598	5,675,104	5,995,494		6,122,009	6,044,652
\$ 31,245,905	\$ 32,979,706	\$ 33,979,837	\$ 35,651,489	\$	37,585,484	\$ 39,622,268
				П		
\$ 0	\$ 10,008	\$ 4,888	\$ 5,760	\$	7,565	\$ 0



<sup>\*</sup> Disability benefits are included, but amounts are too minimal to visually display in graph.

Source: MOSERS' financial records

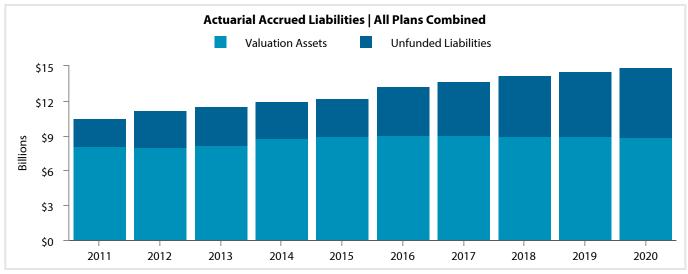
## Valuation Assets (Smoothed Market) vs. Pension Liabilities

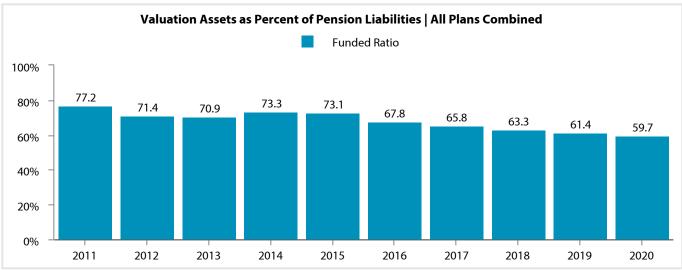
Last Ten Fiscal Years

### **MSEP & Judicial Plans Combined**

**Dollars** in Billions

Fiscal Year	Valuation Assets	ι	Infunded Liabilities	Accrued Liabilities	<b>Funded Ratios</b>
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
2020	8.8919		5.9913	14.8833	59.7





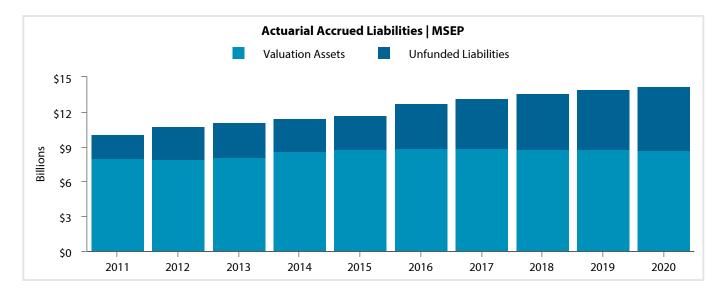
Source: MOSERS' MSEP and Judicial Plan Actuarial Valuation Reports, most recent 10 years.

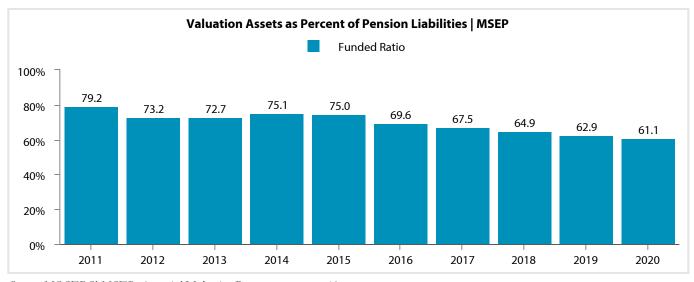
## Valuation Assets (Smoothed Market) vs. Pension Liabilities (continued)

Last Ten Fiscal Years

MSEP
Dollars in Billions

Fiscal Year	Valuation Assets	U	nfunded Liabilities	<b>Accrued Liabilities</b>	<b>Funded Ratios</b>
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
2020	8.7112		5.5472	14.2584	61.1





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

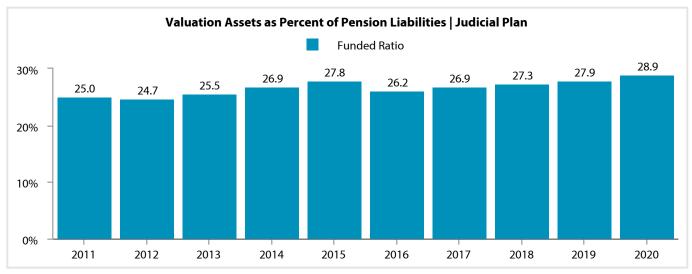
## Valuation Assets (Smoothed Market) vs. Pension Liabilities (continued)

Last Ten Fiscal Years

Judicial Plan
Dollars in Billions

Fiscal Year	Valuation Assets	Uı	nfunded Liabilities	<b>Accrued Liabilities</b>	<b>Funded Ratios</b>
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
2020	0.1807		0.4441	0.6248	28.9





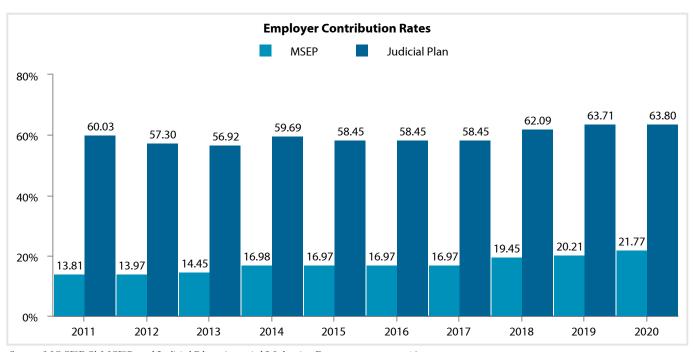
Source: MOSERS' Judicial Plan Actuarial Valuation Reports, most recent 10 years

# **Employer Contribution Rates as a Percent of Payroll**

Last Ten Fiscal Years

Fiscal Year	MSEP	Judicial
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
2020	21.77	63.80

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



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

## **Membership in Retirement Plans**

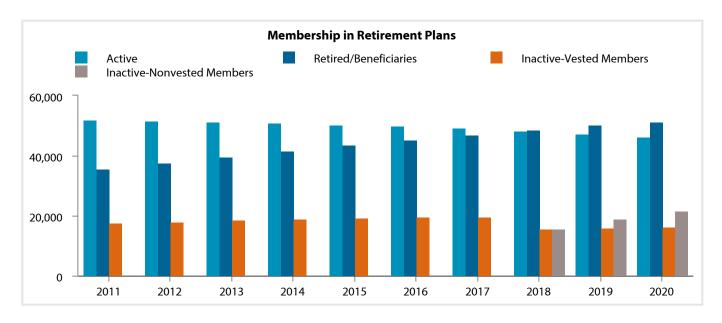
Last Ten Fiscal Years

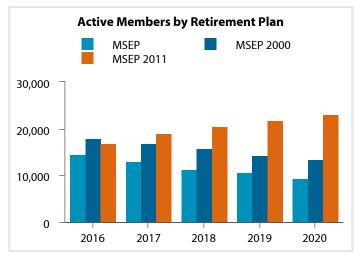
**MSEP & Judicial Plans Combined** 

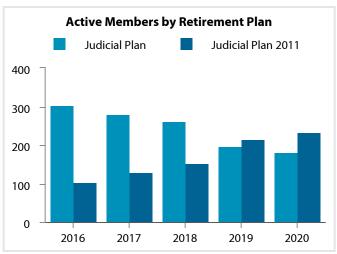
Fiscal Year	Active Members	Retirees and Beneficiaries	Inactive-Vested Members*	Inactive-Nonvested Members**	Totals
2011	52,059	35,801	17,757		105,617
2012	51,730	37,796	18,075		107,601
2013	51,233	39,636	18,581		109,450
2014	51,026	41,511	18,957		111,494
2015	50,385	43,503	19,319		113,207
2016	49,872	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
2020	46,417	51,447	16,335	21,735	135,934

<sup>\*</sup> Excludes members on leave of absence and long-term disability.

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



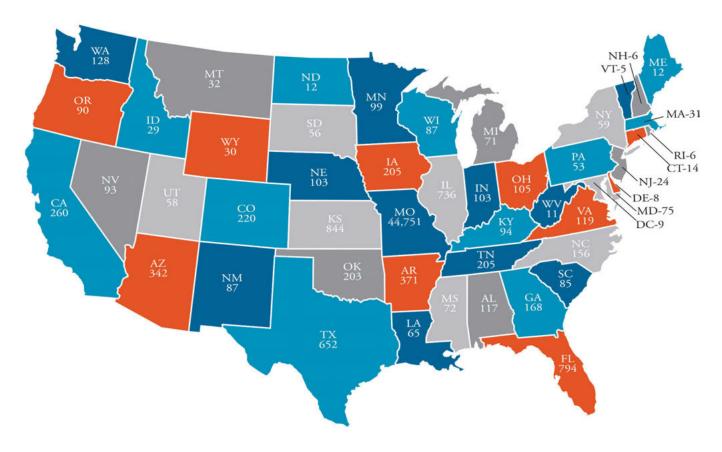




Source: MOSERS' MSEP and Judicial Plan Actuarial Valuation Reports, most recent 10 years

## **Distribution of Benefit Recipients by Location**

June 30, 2020



### **Benefit Recipients Outside the Continental United States**

- 23 Alaska
- 13 Hawaii
- 1 APO
- 1 Argentina
- 2 Australia
- 1 Brazil
- 12 Canada
- 1 Costa Rica
- 1 Croatia
- 1 Czech Republic

- 1 Ecuador
- 2 Guam
- 1 Germany
- 1 Hong Kong
- 1 India
- 2 Ireland
- 1 Israel
- 2 Italy
- 1 Latvia
- 1 Marshall Islands

- 3 Puerto Rico
- 1 Philippines
- 1 Spain
- 2 Sweden
- 2 Thailand
- 2 The Netherlands
- 5 United Kingdom
- 4 Virgin Islands

# Benefit Recipients by Type of Retirement and Option Elected

June 30, 2020

### **MSEP**

		Type of Retirement						
Amount of Monthly Benefit	Number of Benefit Recipients	Α	В	c	D	E	F	G
1-250	5,565	2,053	2,618	241	544	1	0	108
251-500	8,484	4,167	2,977	446	787	0	0	107
501-750	5,936	3,477	1,463	307	640	0	0	49
751-1000	5,259	3,771	754	209	487	0	0	38
1001-1250	5,008	4,110	360	139	381	0	0	18
1251-1500	4,271	3,727	161	113	261	0	0	9
1501-1750	3,485	3,121	100	67	195	0	0	2
1751-2000	2,864	2,635	41	52	131	0	0	5
Over 2000	10,569	9,754	100	166	543	0	0	6
Total	51,441	36,815	8,574	1,740	3,969	1	0	342

#### **Judicial Plan**

		Type of Retirement						
Amount of Monthly Benefit	Number of Benefit Recipients	Α	В	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	5	0	3	0	1	0	0	1
1251-1500	5	0	3	1	1	0	0	0
1501-1750	7	1	3	0	0	0	0	3
1751-2000	8	0	3	2	2	0	0	1
Over 2000	554	350	59	29	111	0	0	5
Total	603	351	85	33	121	0	0	13

#### **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

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

June 30, 2020

_		_		
Op	tioi	n F	lec.	tea

1	2	3	4	5	6	7	8	9	10
0	15	274	233	334	0	1,252	328	41	3,088
6	34	291	280	559	1	1,841	699	37	4,736
10	21	168	108	410	0	1,275	900	12	3,032
10	32	109	75	384	1	1,215	922	7	2,504
6	16	76	44	515	0	1,143	841	1	2,366
6	11	51	44	489	0	989	608	3	2,070
7	11	57	34	434	0	783	456	0	1,703
3	3	33	14	413	0	652	350	1	1,395
79	24	99	54	1,456	0	2,830	1,447	0	4,580
127	167	1,158	886	4,994	2	11,980	6,551	102	25,474

O	ptic	n El	lect	ed
$\sim$		,,,	CCL	Cu

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	2
5	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	3
6	0	0	0	0	0	0	0	0	2
521	0	0	0	19	0	0	0	1	13
557	0	0	0	20	0	1	0	1	24

### **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, 2020

### **MSEP Combined**

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	24,954	\$ 365,220,252	\$ 14,636
Unreduced joint & 50% survivor	9,701	197,567,172	20,366
Joint & 100% survivor	8,573	156,554,736	18,261
Life income with 60 guaranteed payments	165	2,313,612	14,022
Life income with 120 guaranteed payments	1048	10,753,704	10,261
Life income with 180 guaranteed payments	735	6,338,448	8,624
Survivor beneficiary	3,952	52,328,304	13,241
Total	49,128	791,076,228	16,102
Disability retirement	1	2,316	2,316
Death-in-service	1,728	19,459,464	11,261
Grand totals	50,857	\$ 810,538,008	15,938

### **Judicial Plan Combined**

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	6	\$ 419,796	\$ 69,966
Unreduced joint & 50% survivor	429	33,639,060	78,413
Joint & 100% survivor	1	11,220	11,220
Survivor beneficiary	121	4,865,652	40,212
Total	557	38,935,728	69,903
Death-in-service	33	1,177,380	35,678
Grand totals	590	\$ 40,113,108	67,988

Source: MOSERS' MSEP and Judicial Plan Actuarial Valuation Reports as of June 30, 2020

# Benefits Tabulated by Type of Benefit and by Option (continued)

June 30, 2020

## MSEP (Closed Plan)

Number	Annual Benefits	Average Annual Benefits
	, gar benents	au Denema
5,870	\$ 94,249,572	\$ 16,056
5,195	107,707,236	20,733
3,147	72,551,196	23,054
145	2,000,988	13,800
177	2,209,968	12,486
2,669	39,535,764	14,813
17,203	318,254,724	18,500
1	2,316	2,316
1,422	17,915,784	12,599
18,626	\$ 336,172,824	18,049
	5,195 3,147 145 177 2,669 17,203 1 1,422	5,870       \$ 94,249,572         5,195       107,707,236         3,147       72,551,196         145       2,000,988         177       2,209,968         2,669       39,535,764         17,203       318,254,724         1       2,316         1,422       17,915,784

### **MSEP 2000**

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	18,983	\$ 270,573,936	\$ 14,253
Unreduced joint & 50% survivor	4,491	89,783,028	19,992
Joint & 100% survivor	5,379	83,827,140	15,584
Life income with 60 guaranteed payments	20	312,624	15,631
Life income with 120 guaranteed payments	866	8,521,860	9,840
Life income with 180 guaranteed payments	725	6,285,276	8,669
Survivor beneficiary	1,283	12,792,540	9,971
Total	31,747	472,096,404	14,871
Death-in-service	301	1,515,792	5,036
Grand totals	32,048	\$ 473,612,196	14,778

### **MSEP 2011**

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	101	\$ 396,744	\$ 3,928
Unreduced joint & 50% survivor	15	76,908	5,127
Joint & 100% survivor	47	176,400	3,753
Life income with 60 guaranteed payments	0	0	0
Life income with 120 guaranteed payments	5	21,876	4,375
Life income with 180 guaranteed payments	10	53,172	5,317
Survivor beneficiary	0	0	0
Total	178	725,100	4,074
Death-in-service	5	27,888	5,578
Grand totals	183	\$ 752,988	4,115

# Benefits Tabulated by Type of Benefit and by Option (continued)

June 30, 2020

### **Judicial Plan**

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	4	\$ 335,808	\$ 83,952
Unreduced joint & 50% survivor	428	33,605,916	78,518
Joint & 100% survivor	0	0	0
Survivor beneficiary	121	4,865,652	40,212
Total	553	38,807,376	70,176
Death-in-service	33	1,177,380	35,678
Grand totals	586	\$ 39,984,756	68,233

### **Judicial Plan 2011**

Type of Benefit	Number	Annual Benefits	Average Annual Benefits
Service retirement			
Life income annuity	2	\$ 83,988	\$ 41,994
Unreduced joint & 50% survivor	1	33,144	33,144
Joint & 100% survivor	1	11,220	11,220
Survivor beneficiary	0	0	0
Total	4	128,352	32,088
Death-in-service	0	0	0
Grand totals	4	\$ 128,352	32,088

Source: MOSERS' MSEP and Judicial Plan Actuarial Valuation Reports as of June 30, 2020

## **Average Monthly Benefit Amounts**

Last Ten Fiscal Years

### **MSEP**

MISEF		Years Credited Service by Category													
Membe	ers Retiring During Fiscal Year		<5		5-10		11-15		16-20		21-25	26-30	31+	- N	All Iembers
2011	Average monthly benefit	\$	367	\$	336	\$		\$	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
2020	Average monthly benefit	\$	270	\$	321	\$	602	\$	901	\$	1,375	\$ 1,822	\$ 2,391	\$	1,110
	Average final average salary	\$	5,379	\$	2,677	\$	3,012	\$	3,149	\$	3,707	\$ 3,967	\$ 4,329	\$	3,390
	Number of retirees		8		475		378		378		447	441	172		2,299
Ten Ye	ears Ended June 30, 2020														
	Average monthly benefit	\$	264	\$	325	\$	540	\$	850	\$	1,299	\$ 1,768	\$ 2,278	\$	1,032
	Average final average salary	\$	4,793	\$	2,682	\$	2,710	\$	3,099	\$	3,474	\$ 3,817	\$ 4,118	\$	3,213
	Number of retirees		58		5,684		4,870		4,206		4,660	4,419	2,188		26,085

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

Last Ten Fiscal Years

## General Employees in the MSEP\*

**Years Credited Service by Category** 

			T	eai	s Credit	ea	Service	DУ	Catego	гy				
Membe	ers Retiring During Fiscal Year	<5	5-10		11-15		16-20	:	21-25		26-30	31+	М	All lembers
2011	Average monthly benefit	\$ 39	\$ 302		472		802		1,217	\$	1,622	\$ 2,124		992
	Average final 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 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 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 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 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 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 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 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 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
2020	Average monthly benefit	\$ 237	\$ 307	\$	597	\$	901	\$	1,360	\$	1,814	\$ 2,391	\$	1,105
	Average final salary	\$ 5,720	\$ 2,658	\$	3,012	\$	3,149	\$	3,682	\$	3,952	\$ 4,329	\$	3,381
	Number of retirees	7	468		376		378		445		440	172		2,286
Ten Ye	ears Ended June 30, 2020													
	Average monthly benefit	\$ 192	\$ 307	\$	529	\$	841	\$	1,290	\$	1,762	\$ 2,270	\$	1,026
	Average final average salary	\$ 4,252	\$ 2,677	\$	2,704	\$	3,059	\$	3,382	\$	3,691	\$ 4,156	\$	3,172
	Number of retirees	48	5,542		4,834		4,181		4,646		4,413	2,181		25,845

<sup>\*</sup> 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.

Last Ten Fiscal Years

## Legislators in the MSEP

**Years Credited Service by Category** 

					Y	eai	rs Credit	ed	Service	by	Catego	ry					
Membe	ers Retiring During Fiscal Year		<5		5-10		11-15		16-20		21-25		26-30		31+		All Members
2011	Average monthly benefit	\$		\$	992	\$	1,512		2,021	\$	2,744		3,242	\$		\$	1,247
	Average final salary	\$	0		2,993	\$			2,993	\$		\$	2,993			\$	2,993
	Number of retirees	"	0	"	30	"	4	"	4	"	1	"	1	"	0	"	40
2012	Average monthly benefit	\$	-	\$	1,069	\$	1,659	\$	2,225	\$		\$		\$		\$	1,335
	Average final salary	\$	0		2,993	\$			2,993			\$		\$		\$	2,993
	Number of retirees	π	0	"	7	П	3	"	1	"	0	П	0		0	Π	11
2013	Average monthly benefit	\$	374	\$	907	\$	1,513	\$	2,120	\$		\$		\$		\$	1,036
	Average final salary	\$	2,993		2,993	\$	2,993	\$	2,993			\$				\$	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	\$		\$		\$	1,296
	Average final salary	\$	2,993	\$	2,993	\$	2,993		2,993	\$	2,993		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 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 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 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 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 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
2020	Average monthly benefit	\$	499	\$	956	\$	1,621	\$	0	\$	0	\$	0	\$	0	\$	1,053
	Average final salary	\$	2,993	\$	2,993	\$	2,993	\$	0	\$	0	\$	0	\$	0	\$	2,993
	Number of retirees		1		6		2		0		0		0		0		9
Геп Үе	ears Ended June 30, 2020																
	Average monthly benefit	\$	408	\$	988	\$	1,563	\$	2,091	\$	2,744	\$	3,242	\$	0	\$	1,190
	Average final average salary	\$	2,993	\$	2,993	\$	2,993	\$	2,993	\$	2,993	\$	2,993	\$	0	\$	2,993
	Number of retirees		7		135		24		19		3		1		0		189

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

Last Ten Fiscal Years

#### **Elected Officials in the MSEP**

**Years Credited Service by Category** 

			1	eai	s Credit	eu	Sel vice	Dy	Catego	чy			
Membe	ers Retiring During Fiscal Year	<5	5-10		11-15		16-20		21-25		26-30	31+	All Members
2011	Average monthly benefit	\$ 0	\$ 0	\$	0	\$	0	\$	0	\$	0	\$ 0	
	Average final salary	\$	\$ 0	\$		\$		\$		\$	0	\$	\$ (
	Number of retirees	0	0		0		0		0		0	0	. (
2012	Average monthly benefit	\$ 0	\$ 0	\$	3,781	\$	0	\$	0	\$	0	\$ 0	\$ 3,781
	Average final salary	\$ 0	\$ 0	\$	8,093		0	\$	0	\$	0	\$ 0	
	Number of retirees	0	0		2		0		0		0	0	
2013	Average monthly benefit	\$ 0	\$ 0	\$	4,489	\$	0	\$	0	\$	0	\$ 0	\$ 4,489
	Average final salary	\$ 0	\$ 0	\$	8,979	\$	0	\$	0	\$	0	\$ 0	\$ 8,979
	Number of retirees	0	0		1		0		0		0	0	
2014	Average monthly benefit	\$ 0	\$ 0	\$	0	\$	0	\$	0	\$	0	\$ 0	\$ (
	Average final salary	\$ 0	\$ 0	\$	0	\$	0	\$	0	\$	0	\$ 0	\$
	Number of retirees	0	0		0		0		0		0	0	(
2015	Average monthly benefit	\$ 0	\$ 0	\$	0	\$	0	\$	0	\$	0	\$ 0	\$ (
	Average final salary	\$ 0	\$ 0	\$	0	\$	0	\$	0	\$	0	\$ 0	\$ (
	Number of retirees	0	0		0		0		0		0	0	(
2016	Average monthly benefit	\$ 0	\$ 0	\$	0	\$	0	\$	0	\$	0	\$ 0	\$ (
	Average final salary	\$ 0	\$ 0	\$	0	\$	0	\$	0	\$	0	\$ 0	\$
	Number of retirees	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 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	\$ 1,490
	Average final salary	\$ 8,979	\$ 0	\$	0	\$	0	\$	0	\$	0	\$ 0	\$ 8,979
	Number of retirees	1	0		0		0		0		0	0	
2019	Average monthly benefit	\$ 0	\$ 0	\$	0	\$	0	\$	0	\$	0	\$ 0	\$ (
	Average final salary	\$ 0	\$ 0	\$	0	\$	0	\$	0	\$	0	\$ 0	\$
	Number of retirees	0	0		0		0		0		0	0	(
2020	Average monthly benefit	\$ 0	\$ 3,234	\$	0	\$	0	\$	0	\$	0	\$ 0	\$ 3,234
	Average final salary	\$ 0	\$ 9,703	\$	0	\$	0	\$	0	\$	0	\$ 0	\$ 9,703
	Number of retirees	0	1		0		0		0		0	0	1
Ten Ye	ears Ended June 30, 2020												
	Average monthly benefit	\$ 1,496	\$ 3,114	\$	3,788	\$	0	\$	5,576	\$	0	\$ 0	\$ 3,550
	Average final average salary	\$ 8,979	\$ 9,341	\$	8,093	\$	0	\$	11,152	\$	0	\$ 0	\$ 8,898
	Number of retirees	1	2		4		0		1		0	0	8

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

Last Ten Fiscal Years

#### **Uniformed Water Patrol in the MSEP**

Number of retirees

Number of retirees

Average monthly benefit

Average final average salary

Ten Years Ended June 30, 2020

**Years Credited Service by Category** ΑII **Members Retiring During Fiscal Year** <5 5-10 11-15 16-20 21-25 26-30 31+ Members 0 \$ 0 \$ 721 \$ \$ 0 \$ 0 \$ 3,086 \$ 4,553 \$ 3,200 Average monthly benefit 0 \$ 5,077 \$ \$ 0 \$ 2,964 \$ 0 \$ \$ 6,912 \$ 5,388 Average final salary Number of retirees 2 5 Average monthly benefit \$ 0 \$ 0 \$ 0 \$ 959 \$ 0 \$ 0 \$ 0 \$ 959 2012 \$ 0 \$ 0 \$ 0 \$ 2,794 \$ 0 \$ 0 \$ 2,794 Average final salary 0 \$ Number of retirees 0 0 0 0 0 0 \$ 0 \$ 69 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 69 2013 Average monthly benefit Average final salary \$ 0 \$ 1,291 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 1,291 Number of retirees 0 0 1 0 0 0 1 \$ 0 \$ 780 \$ 0 \$ 0 \$ 780 Average monthly benefit 0 \$ 0 \$ 0 \$ 2014 \$ 0 \$ 0 \$ 2,507 \$ 0 \$ 0 \$ 0 \$ 0 \$ Average final salary 2,507 Number of retirees 0 0 0 0 0 0 \$ 0 \$ 0 \$ 2015 Average monthly benefit 0 \$ 0 \$ 0 \$ 0 \$ 4,539 \$ 4,539 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 6,321 \$ 6,321 Average final salary 0 Number of retirees 0 0 0 1 \$ 0 \$ 0 \$ 4,221 \$ Average monthly benefit 0 \$ 0 \$ 0 \$ 0 \$ 4,221 2016 \$ 0 \$ 0 \$ 6,375 \$ Average final salary 0 \$ 0 \$ 0 \$ 0 \$ 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 \$ 0 \$ 0 \$ 2,846 \$ 0 \$ Average final salary 0 \$ 0 \$ 0 \$ 2,846 Number of retirees 1 0 1 \$ 0 \$ 0 \$ 0 \$ 1,492 \$ 0 \$ 0 \$ 1,492 2018 Average monthly benefit 0 \$ 0 \$ 0 \$ Average final salary \$ 0 \$ 0 \$ 4,347 \$ 0 \$ 0 \$ 4,347 Number of retirees 0 0 0 1 0 0 1 \$ 0 \$ 671 \$ 0 \$ 0 \$ 671 2019 Average monthly benefit 0 \$ 0 \$ 0 \$ 2,659 \$ Average final salary \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 2,659 Number of retirees 1 \$ 0 \$ 2020 Average monthly benefit 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ Average final salary 0

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

0

69 \$

1,291 \$

0

724 \$

8,130 \$

3

0

1,177 \$

9,987 \$

3

0

0

0

3,086 \$

2

\$ 10,154 \$ 32,895 \$

0

4,417 \$

5

0

0 \$

0

\$

\$

\$

0

2,431

62,455

14

Last Ten Fiscal Years

## Administrative Law Judges and Legal Advisors in the MSEP

Years Credited Service by Category

		Years Credited Service by Category															
Membe	ers Retiring During Fiscal Year		<5		5-10		11-15		16-20		21-25		26-30		31+	٨	All Nembers
2011	Average monthly benefit	\$	0	\$	0	\$	3,216	\$	4,101	\$	0	\$	0	\$	0	\$	3,511
	Average final 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 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 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 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 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 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 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 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 salary	\$	0	\$	0	\$	8,707	\$	0	\$	10,230	\$	0	\$	0	\$	9,469
	Number of retirees		0		0		1		0		1		0		0		2
2020	Average monthly benefit	\$	0	\$	0	\$	0	\$	0	\$	4,630	\$	5,323	\$	0	\$	4,861
	Average final salary	\$	0	\$	0	\$	0	\$	0	\$	9,260	\$	10,647	\$	0	\$	9,722
	Number of retirees		0		0		0		0		2		1		0		3
Геп Үе	ears Ended June 30, 2020																
	Average monthly benefit	\$	401	\$	2,010	\$	3,460	\$	4,139	\$	4,588	\$	4,942	\$	4,862	\$	3,887
	Average final average salary	\$	5,777	\$	7,087	\$	6,921	\$	8,278	\$	9,176	Φ	9,884	\$	9,723	\$	8,369
	Tiverage mia average salary	Ψ	-,	π	7,007	₩	0,721	Ψ	0,270	Ψ	9,170	Ψ	9,004	₩	7,723	Ψ	0,505

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

Last Ten Fiscal Years

#### **Judicial Plan**

Years Credited Service by Category
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		_					 	_			•	
Membe	ers Retiring During Fiscal Year		<5	5-10	11-15	16-20	21-25		26-30	31+	ı	All Nembers
2011	Average monthly benefit	\$	0	\$ 2,188	\$ 4,615	\$ 4,566	\$ 4,807	\$	4,866	\$ <b>4,</b> 650	\$	4,384
	Average final 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 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 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 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 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 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 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 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 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
2020	Average monthly benefit	\$	0	\$ 3,163	\$ 5,389	\$ 6,415	\$ 6,237	\$	6,256	\$ 6,415	\$	5,875
	Average final salary	\$	0	\$ 12,653	\$ 10,927	\$ 12,830	\$ 12,501	\$	12,511	\$ 12,830	\$	12,132
	Number of retirees		0	1	5	1	7		4	1		19
Ten Ye	ars Ended June 30, 2020											
	Average monthly benefit	\$	877	\$ 2,932	\$ 5,089	\$ 5,422	\$ 5,796	\$	5,762	\$ 5,669	\$	5,122
	Average final average salary	\$	9,262	\$ 9,284	\$ 10,407	\$ 10,844	\$ 11,596	\$	11,524	\$ 11,338	\$	10,825
	Number of retirees		6	25	56	58	48		29	25		247

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

# Retirees and Beneficiaries Tabulated by Fiscal Year of Retirement

As of June 30, 2020

**MSEP** 

cal Year of Retirement	Number	Total Annual Benefit	Average Monthly Benefit
1980 and prior	23	\$ 105,506	\$ 382
1981	13	89,801	576
1982	12	100,031	695
1983	4	47,027	980
1984	23	200,462	726
1985	35	299,371	713
1986	53	501,911	789
1987	71	864,176	1,014
1988	86	1,378,009	1,335
1989	117	1,999,098	1,424
1990	128	1,948,882	1,269
1991	182	3,568,331	1,634
1992	226	3,929,419	1,449
1993	318	5,847,121	1,532
1994	313	5,689,716	1,515
1995	457	8,618,338	1,572
1996	498	9,989,987	1,672
1997	533	10,206,220	1,596
1998	651	13,295,929	1,702
1999	798	16,174,985	1,689
2000	874	17,364,419	1,656
2001	1,869	36,624,842	1,633
2002	1,287	21,761,675	1,409
2003	1,450	25,932,884	1,490
2004	1,969	33,561,810	1,420
2005	1,433	22,349,636	1,300
2006	1,603	23,536,503	1,224
2007	1,916	28,894,289	1,257
2008	1,953	28,723,536	1,226
2009	2,049	30,550,356	1,242
2010	2,134	30,968,385	1,209
2011	2,748	41,926,107	1,271
2012	2,574	36,738,657	1,189
2013	2,683	36,639,882	1,138
2014	2,712	37,994,040	1,167
2015	2,996	44,166,624	1,228
2016	2,996	44,491,796	1,238
2017	2,947	47,809,808	1,352
2018	3,120	50,362,614	1,345
2019	2,829	45,517,591	1,341
2020	2,758	42,547,879	1,286
_	51,441	\$ 813,317,653	\$ 1,318

# Retirees and Beneficiaries Tabulated by Fiscal Year of Retirement (continued)

As of June 30, 2020

**Judicial Plan** 

cal Year of Retirement	Number	•	Total Annual Benefit	erage Monthly Benefit
1980 and prior	3	\$	51,115	\$ 1,420
1981	0		0	0
1982	0		0	0
1983	1		22,369	1,864
1984	0		0	0
1985	0		0	0
1986	0		0	0
1987	5		228,470	3,808
1988	1		79,384	6,615
1989	2		65,428	2,726
1990	4		225,155	4,691
1991	7		349,336	4,159
1992	3		154,365	4,288
1993	5		255,164	4,253
1994	3		127,796	3,550
1995	10		754,877	6,291
1996	6		302,820	4,206
1997	4		253,745	5,286
1998	10		606,162	5,051
1999	12		794,468	5,517
2000	11		802,856	6,082
2001	14		1,260,837	7,505
2002	13		1,025,708	6,575
2003	15		1,053,086	5,850
2004	15		1,055,561	5,864
2005	13		1,155,653	7,408
2006	12		474,636	3,296
2007	44		3,070,816	5,816
2008	27		1,733,276	5,350
2009	31		1,822,842	4,900
2010	13		812,183	5,206
2011	35		2,166,725	5,159
2012	19		988,451	4,335
2013	28		1,977,891	5,887
2014	23		1,457,959	5,282
2015	53		3,961,971	6,230
2016	26		1,714,337	5,495
2017	32		2,168,843	5,648
2018	31		2,360,814	6,346
2019	48		3,319,863	5,764
2020	24		1,518,155	5,271
	603	\$	40,173,117	\$ 5,552

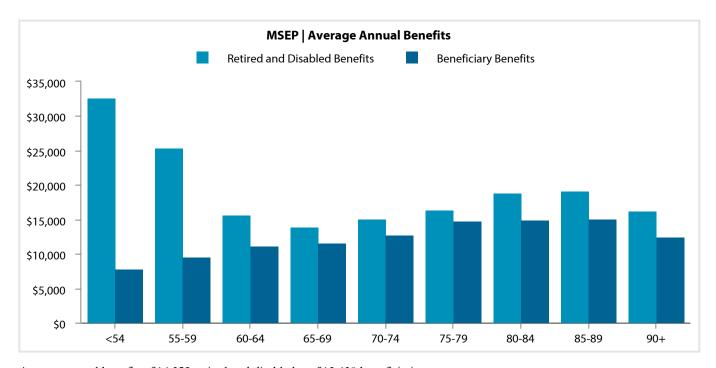
## **Benefits Tabulated by Attained Ages of Benefit Recipients**

As of June 30, 2020

### **MSEP**

	Reti	red and Disabled		Beneficiaries		Totals
Attained Ages	No.	Annual Benefits	No.	Annual Benefits	No.	Annual Benefits
<54	442	\$ 14,468,340	543	\$ 4,240,320	985	\$ 18,708,660
55-59	2,910	73,890,672	327	3,140,052	3,237	77,030,724
60-64	8,091	126,757,680	534	5,943,396	8,625	132,701,076
65-69	11,613	161,734,884	726	8,463,648	12,339	170,198,532
70-74	10,385	157,074,048	943	12,075,168	11,328	169,149,216
75-79	5,875	96,338,688	823	12,137,268	6,698	108,475,956
80-84	3,289	61,907,076	756	11,295,024	4,045	73,202,100
85-89	1,646	31,475,904	623	9,415,572	2,269	40,891,476
90+	926	15,102,924	405	5,077,344	1,331	20,180,268
Totals	45,177	\$ 738,750,216	5,680	\$ 71,787,792	50,857	\$ 810,538,008

Average age at retirement: 61.4 years • Average age now: 70.8 years



Average annual benefit: \$16,352 retired and disabled • \$12,639 beneficiaries

Source: MOSERS' MSEP Actuarial Valuation Report as of June 30, 2020

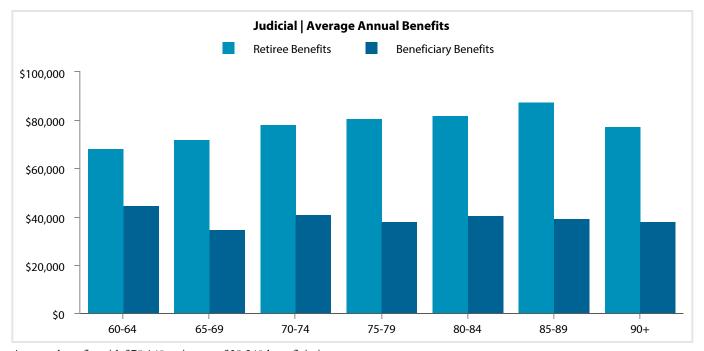
# Benefits Tabulated by Attained Ages of Benefit Recipients (continued)

As of June 30, 2020

**Judicial Plan** 

		Retirees	Ber	neficiaries		Totals
Attained Ages	No.	Annual Benefits	No.	<b>Annual Benefits</b>	No.	Annual Benefits
60-64	23	\$ 1,571,940	9	\$ 404,916	32	\$ 1,976,856
65-69	84	6,052,320	13	450,600	97	6,502,920
70-74	151	11,834,880	21	859,488	172	12,694,368
75-79	83	6,709,704	27	1,029,480	110	7,739,184
80-84	46	3,783,228	25	1,013,472	71	4,796,700
85-89	31	2,718,324	22	866,232	53	3,584,556
90+	18	1,398,600	37	1,418,844	55	2,817,444
Totals	436	\$ 34,068,996	154	\$ 6,043,032	590	\$ 40,112,028

Average age at retirement: 65.5 years • Average age now: 76.6 years



Average benefit paid: \$78,140 retirees • \$39,240 beneficiaries

Source: MOSERS' Judicial Plan Actuarial Valuation Report as of June 30, 2020

# **Principal Participating Employers**

Current Year and Nine Years Ago

Participating Employer	2020			2011		
	Covered Employees	Rank	Percent of Membership	Covered Employees	Rank	Percent of Membership
State of Missouri	40,101	1	86.9%	45,034	1	86.5%
Missouri State University	1,791	2	3.9	1,857	2	3.6
University of Central Missouri	879	3	1.9	1,125	3	2.2
Southeast Missouri State University	808	4	1.8	952	4	1.8
Northwest Missouri State University	545	5	1.2	624	6	1.2
Truman State University	507	6	1.1	650	5	1.2
Missouri Southern State University	383	7	0.8	443	7	0.9
Missouri Western State University	323	8	0.7	413	9	0.8
Lincoln University	293	9	0.6	437	8	0.7
Harris-Stowe State University	191	10	0.4	186	10	0.4
All others	309		0.7	341		0.7
Total	46,130		100.0%	52,062		100.0%



