

Member Profile Report

Prepared for the Board of Trustees
and Employer Representatives

As of June 30, 2018



Director's Note



MoDOT & Patrol Employees' Retirement System

Scott Simon
Executive Director

This *Member Profile Report* is designed to give the MPERS Board of Trustees and the MoDOT and Patrol human resource representatives an annual snapshot of the membership and information that they may find useful in understanding the retirement system.

The information in the report is based on fiscal year data unless otherwise noted on the page.

The report is designed to provide information on the entire membership and then provide information in greater detail by type of member and often by employer. For example, page 3 provides data on actives, retirees, survivors, and former vested members while page 4 provides information on simply the benefit recipients.

Pages 5 to 14 provide information on our actively employed members.

Pages 15 to 17 provide information on our former vested members by age and years of service by employer.

Pages 18 and 19 provide information on current age, years of service at retirement, and selected retirement plan for our retirees.

Page 20 provides a history of retirements, retirees that take BackDROP, and the member's status at the time of their retirement. We caution readers of this report to not use the information on page 20 to counsel members on retirement elections (i.e., whether or not to take a BackDROP).

Page 21 provides a history of the benefit payment elections our members make at retirement. Again, we caution readers of this report to not use that information to counsel members on retirement elections (i.e., whether to take a 50 percent or 100 percent survivor option).

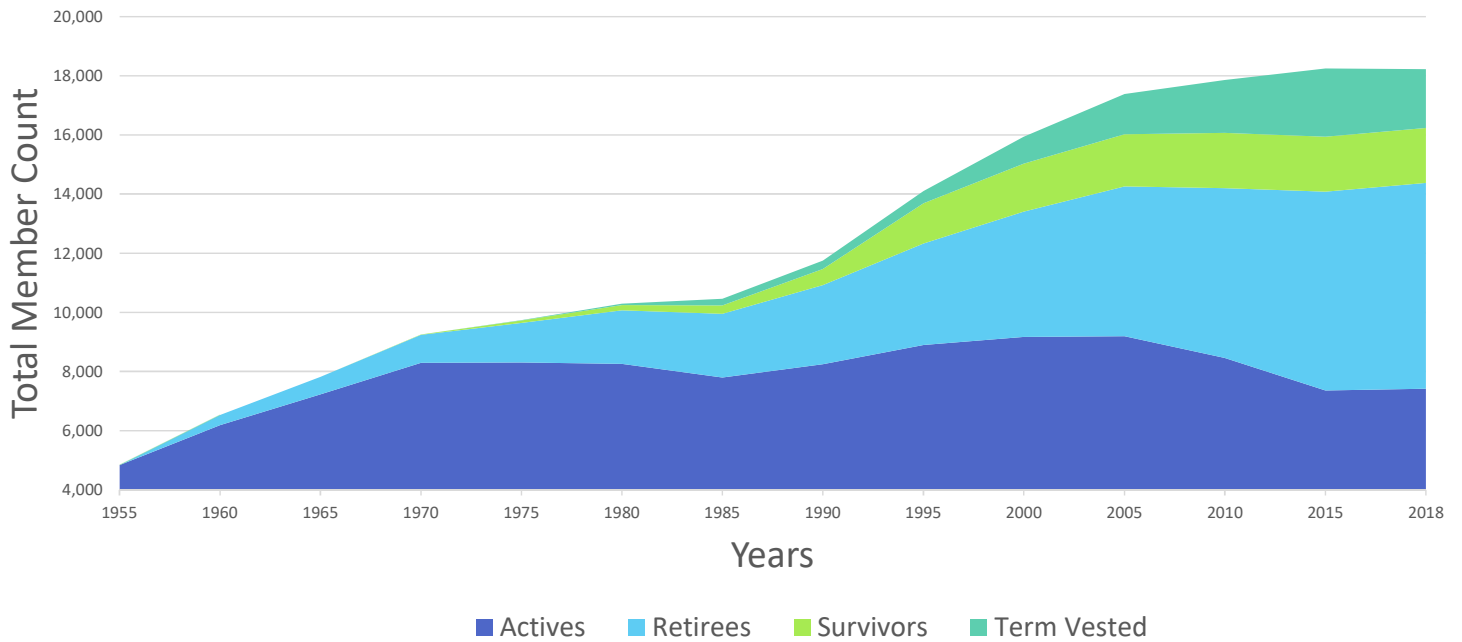
Page 22 provides a running history of average years of service and final average pay for our retirees.

And lastly, pages 23 and 24 provide the locations of our retired members. It is interesting to note that over 93 percent of our retirees continue to live in Missouri supporting their local economies, civic, and social endeavors.

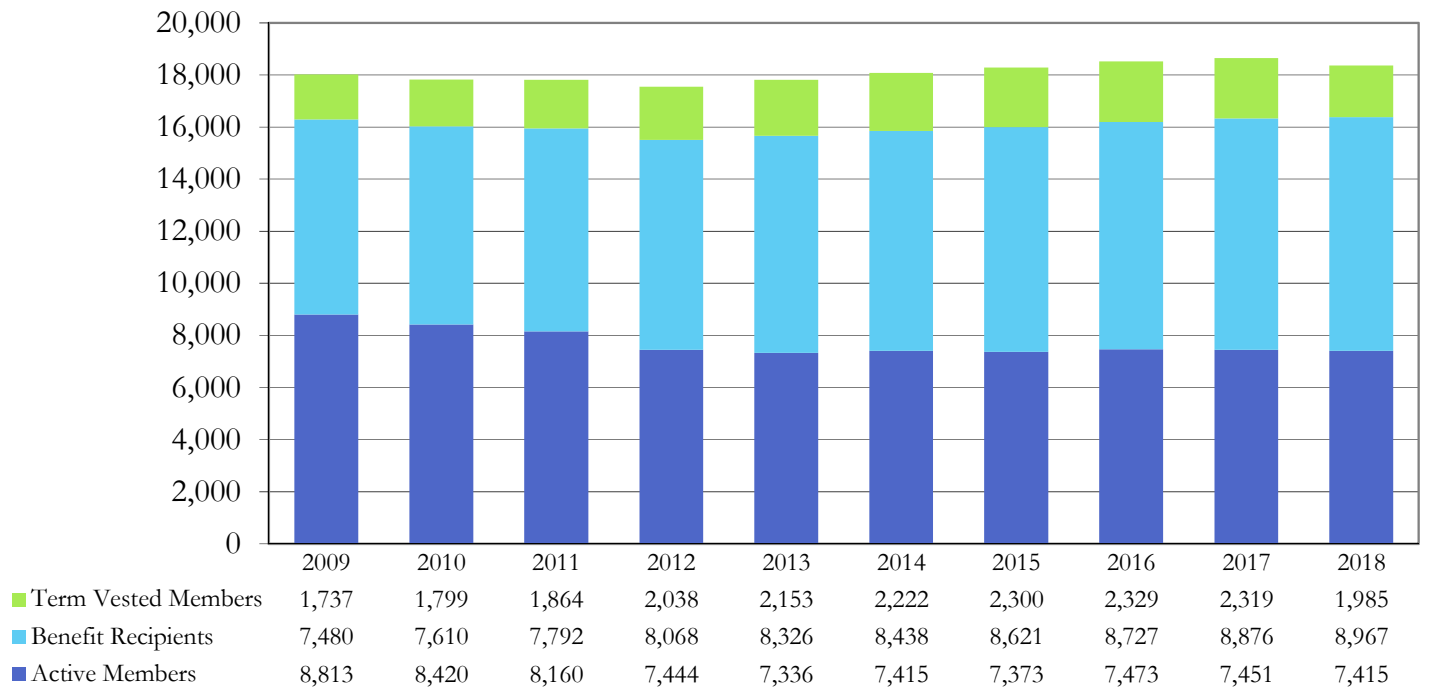
We hope you find the information useful. Should you wish to see different information in future reports, please let us know.

Membership Categories

MPERS Membership Since Inception



Membership Distribution (Last 10 Fiscal Years)

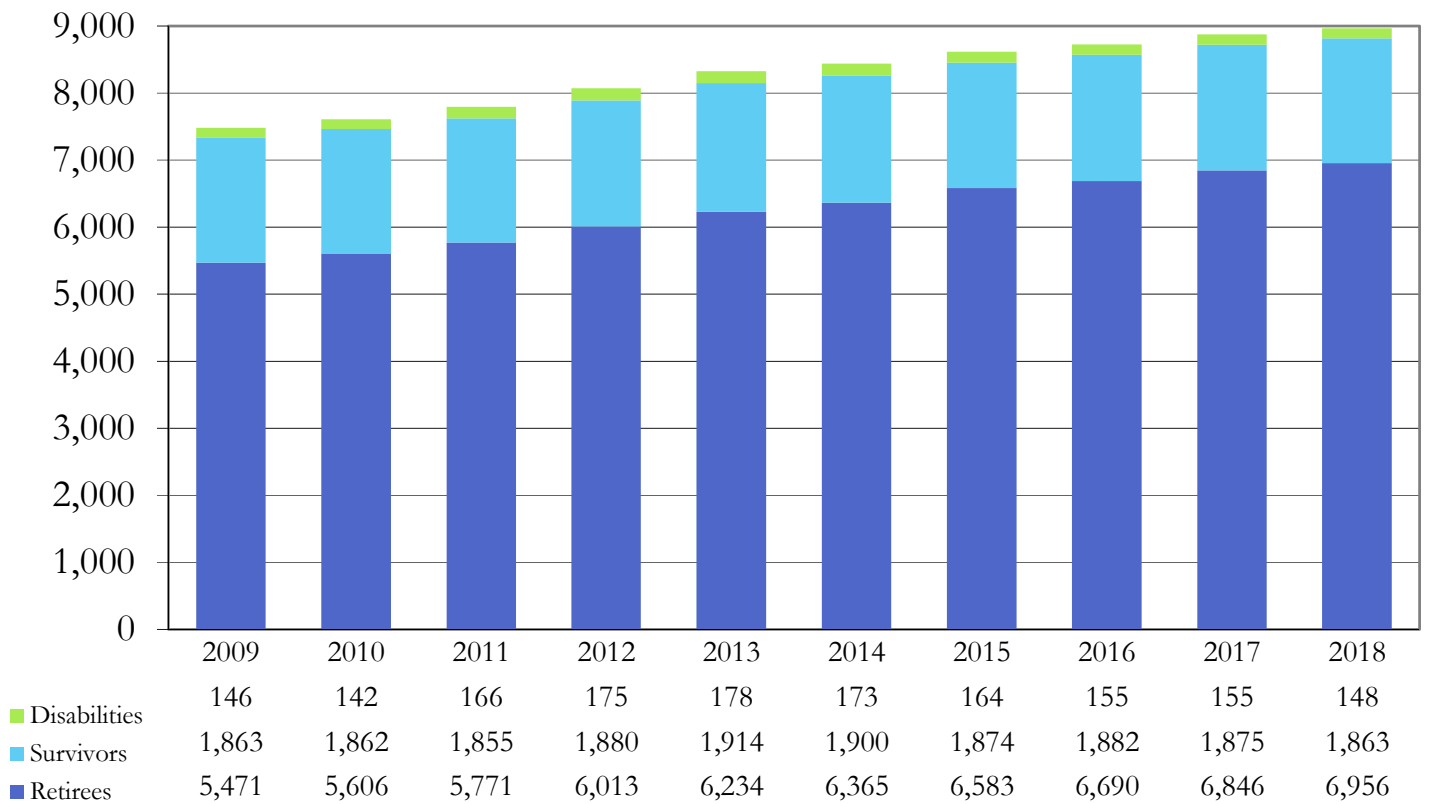


Note: Benefit recipients (8,967) are further detailed on the next page.



Benefit Recipients

Benefit Recipients (Last 10 Fiscal Years)



Note: For 2018 the total benefit recipient count is 8,967



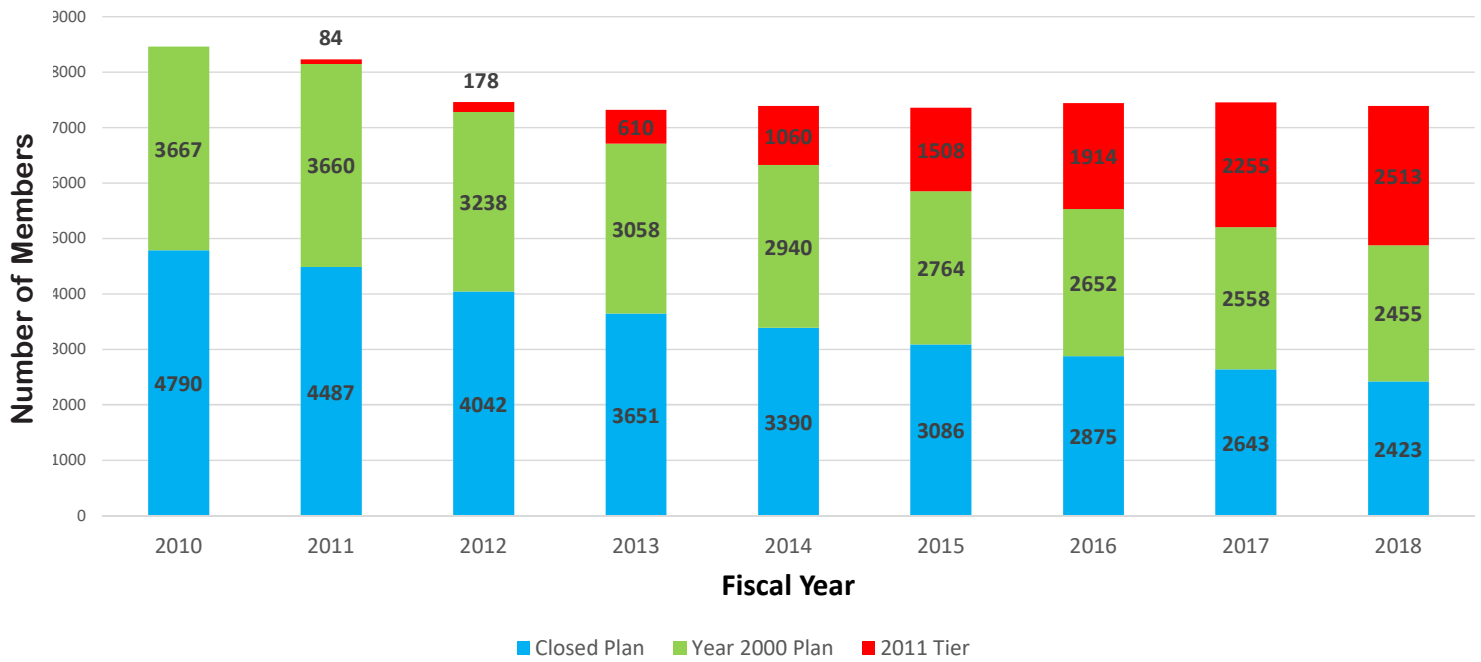
Active Membership by Plan

Plan	Count	FY 18 Percent of Total	FY 17 Percent of Total	FY 16 Percent of Total
Closed Plan - Civilian Patrol	283			
Closed Plan - Uniform Patrol	531			
Closed Plan - MoDOT	1,585			
Closed Plan - MPERS	6			
Sub-total	<u>2,405</u>	32%	35%	38%
Year 2000 Plan - Civilian Patrol	422			
Year 2000 Plan - Uniform Patrol	380			
Year 2000 Plan - MoDOT	1,633			
Year 2000 Plan - MPERS	6			
Sub-total	<u>2,441</u>	33%	34%	36%
2011 Tier - Civilian Patrol	407			
2011 Tier - Uniform Patrol	311			
2011 Tier - MoDOT	1,847			
2011 Tier - MPERS	4			
Sub-total	<u>2,569</u>	35%	31%	26%
Grand Total	<u>7,415</u>	100%	100%	100%



Active Membership by Plan

MPERS Membership by Plan by Fiscal Year



Active Members Eligible to Retire

As of August 1, 2018

	MoDOT	Patrol	MPERS	Total
Already eligible to retire	526	227	2	755
Eligible within a year	176	69	0	245
Eligible within 5 years	793	359	3	1,155
Totals	1,495	655	5	2,155



Active Member Data

By Age

Age of Member	MoDOT	Civilian Patrol	Uniformed Patrol	MPERS	Total
< 21	27	2	0	0	29
21 - 25	324	67	73	0	464
26 - 30	426	106	183	1	716
31 - 35	515	114	164	1	794
36 - 40	598	148	164	3	913
41 - 45	681	126	198	2	1,007
46 - 50	885	167	257	6	1,315
51 - 55	788	180	153	2	1,123
56 - 60	574	130	30	1	735
61 - 65	222	57	0	0	279
66+	25	15	0	0	40
Totals	<u>5,065</u>	<u>1,112</u>	<u>1,222</u>	<u>16</u>	<u>7,415</u>

Active Member Data

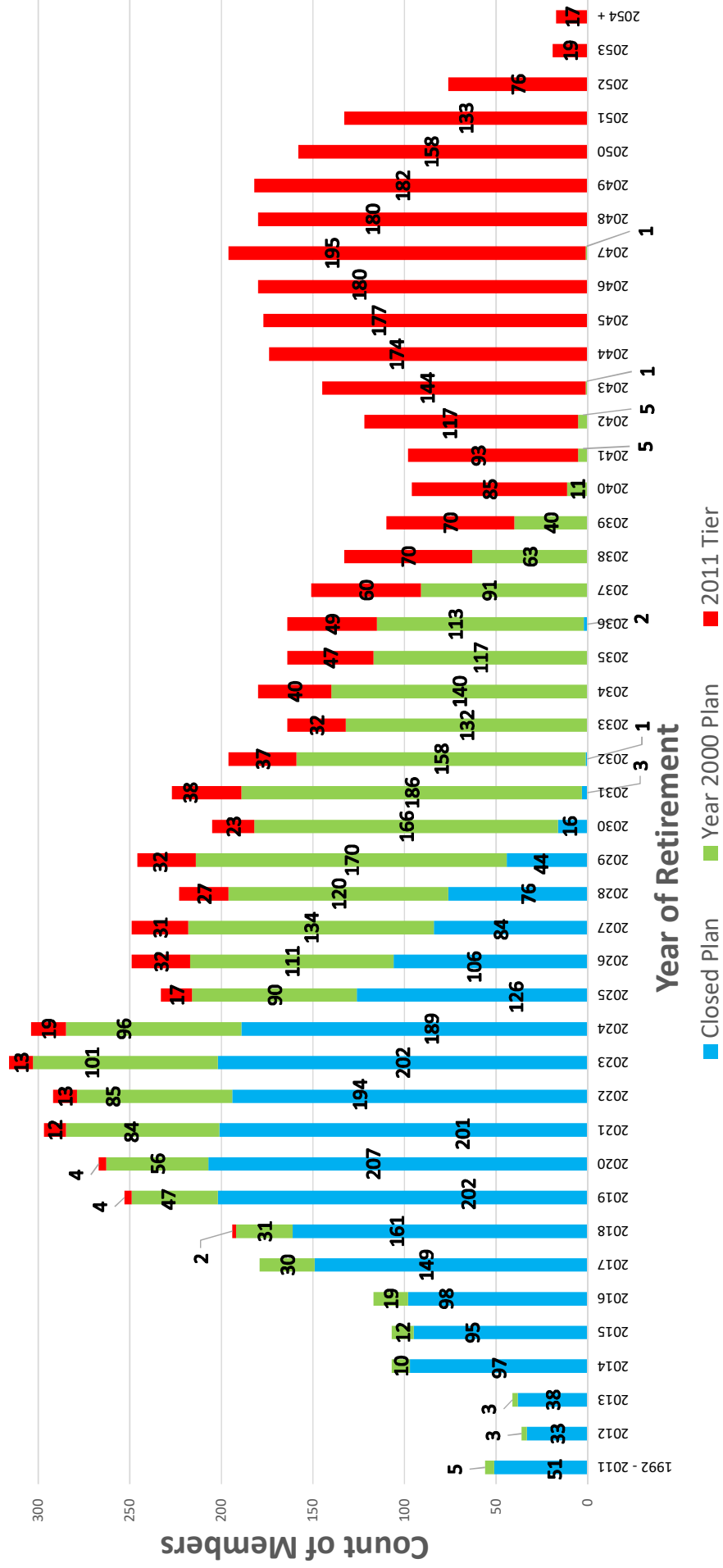
By Years of Service

Years of Service	MoDOT	Civilian Patrol	Uniformed Patrol	MPERS	Total
< 01	495	84	24	0	603
01 - 05	1,400	297	223	4	1,924
06 - 10	473	200	202	2	877
11 - 15	779	180	188	3	1,150
16 - 20	813	152	143	2	1,110
21 - 25	640	119	297	3	1,059
26 - 30	333	50	115	1	499
31 - 35	107	22	29	1	159
36 - 40	17	6	1	0	24
41 - 45	8	0	0	0	8
46+	0	2	0	0	2
Totals	5,065	1,112	1,222	16	7,415

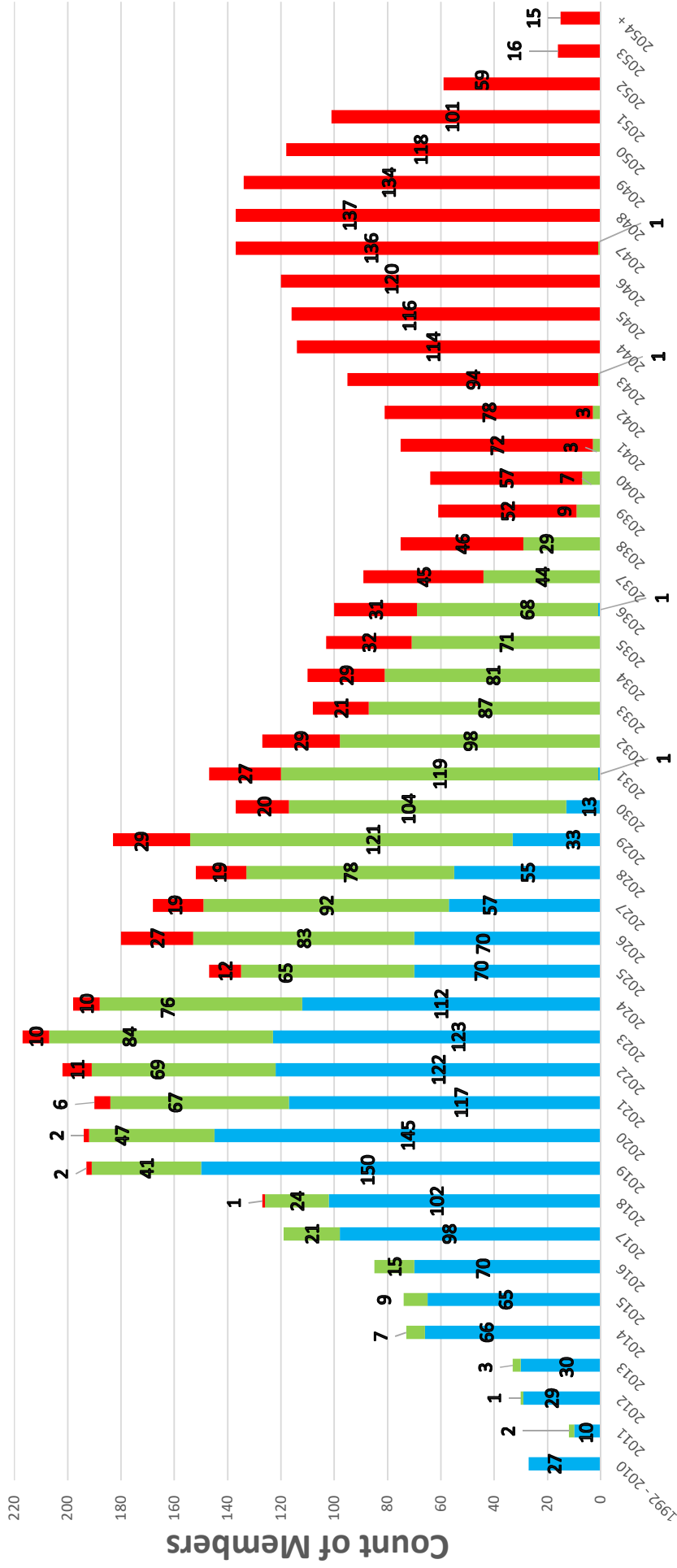


Active Member Data

COUNT OF ALL MEMBERS BY YEAR OF NORMAL RETIREMENT DATE



COUNT OF MODOT MEMBERS BY YEAR OF NORMAL RETIREMENT DATE

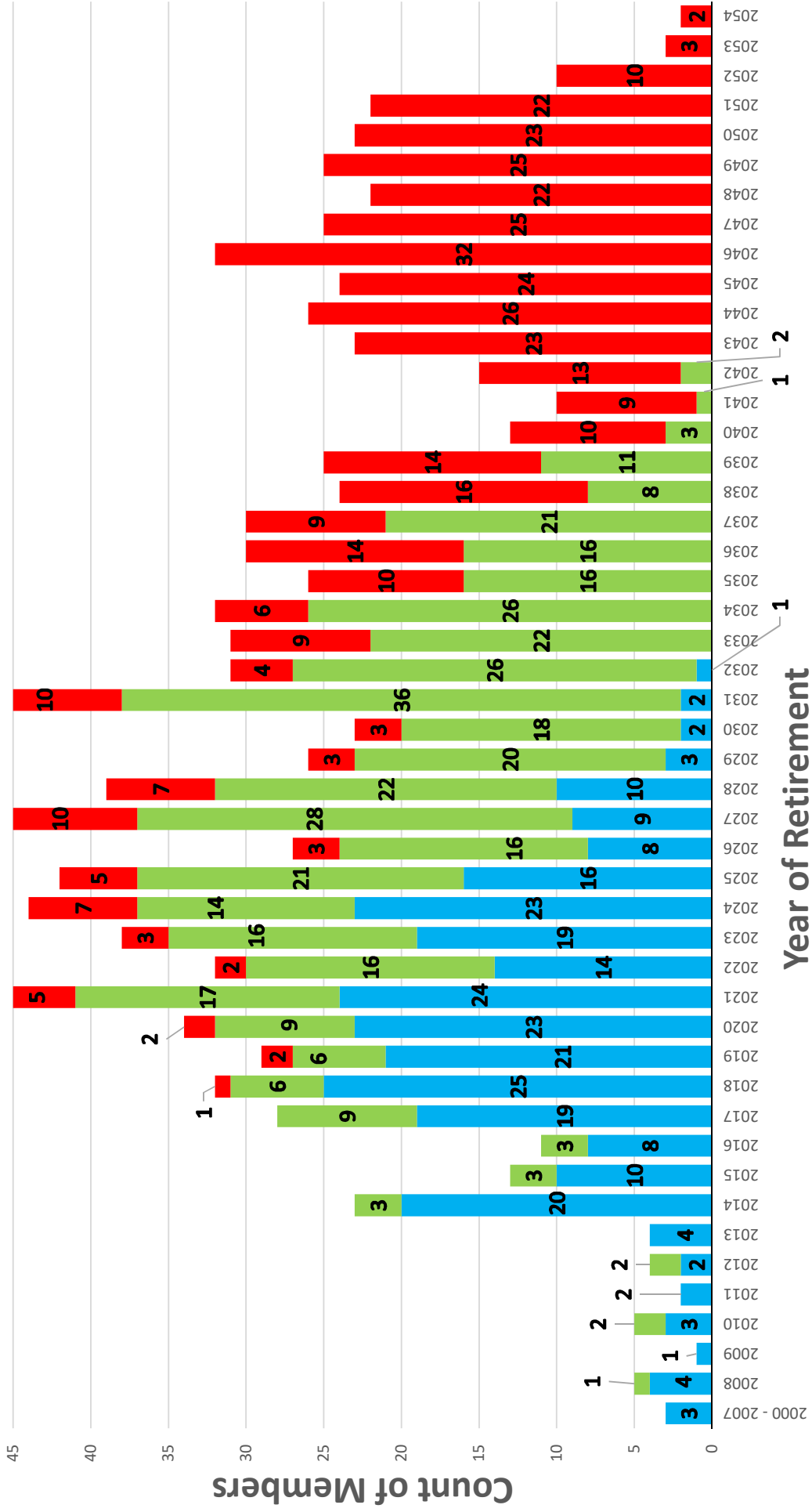


Year of Retirement

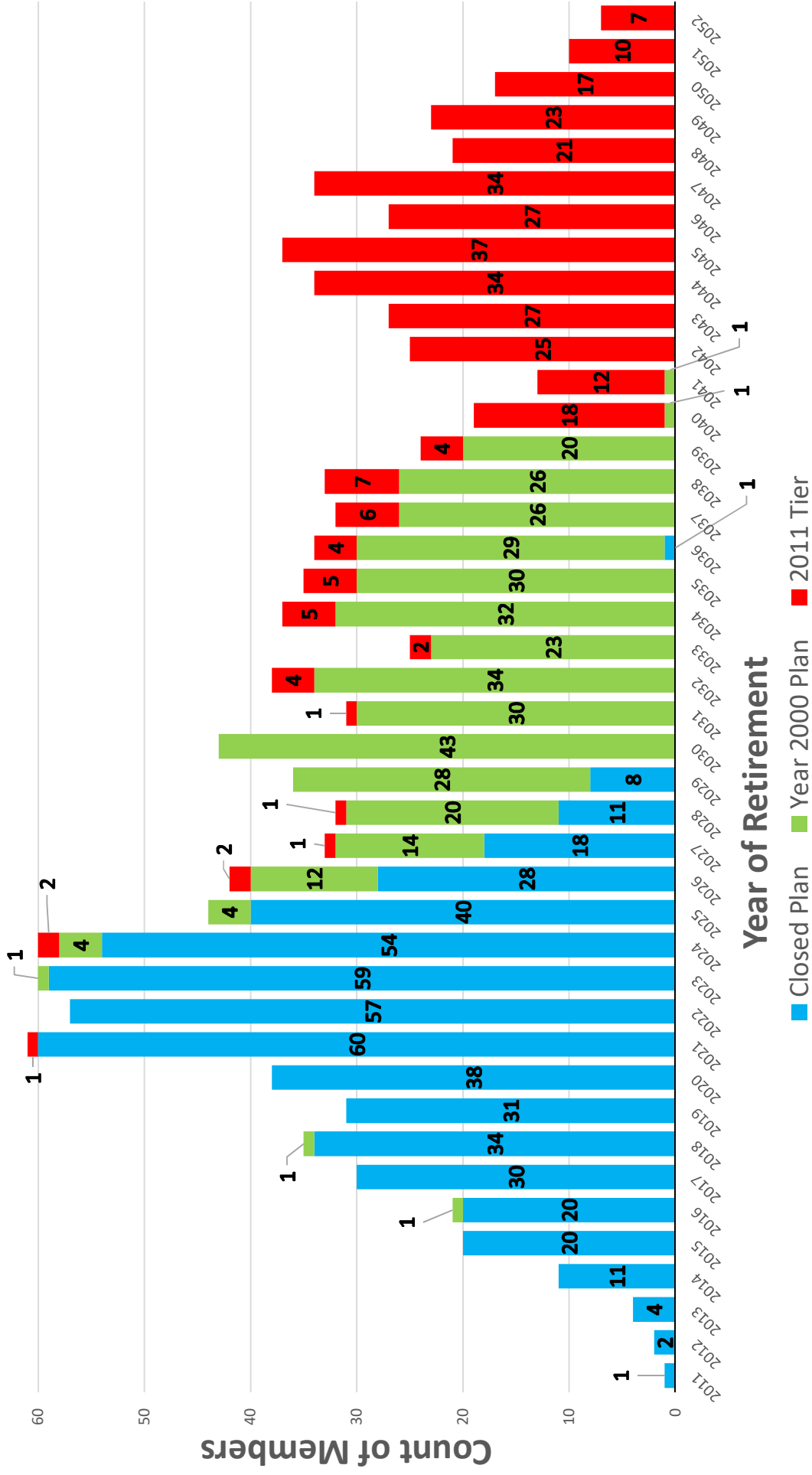
■ Closed Plan
 ■ Year 2000 Plan
 ■ 2011 Tier



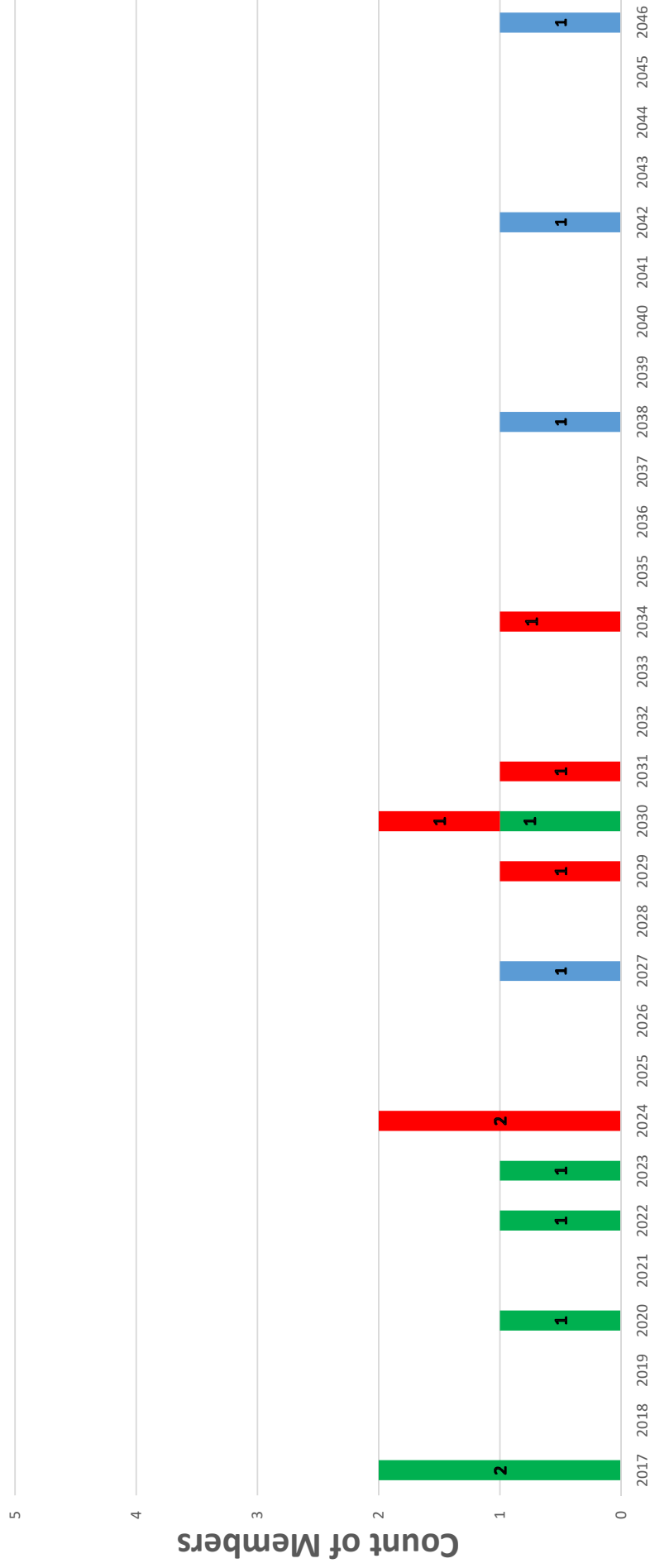
COUNT OF CIVILIAN PATROL MEMBERS BY YEAR OF NORMAL RETIREMENT DATE



COUNT OF UNIFORMED PATROL MEMBERS BY YEAR OF NORMAL RETIREMENT DATE



COUNT OF MPERS MEMBERS BY YEAR OF NORMAL RETIREMENT DATE



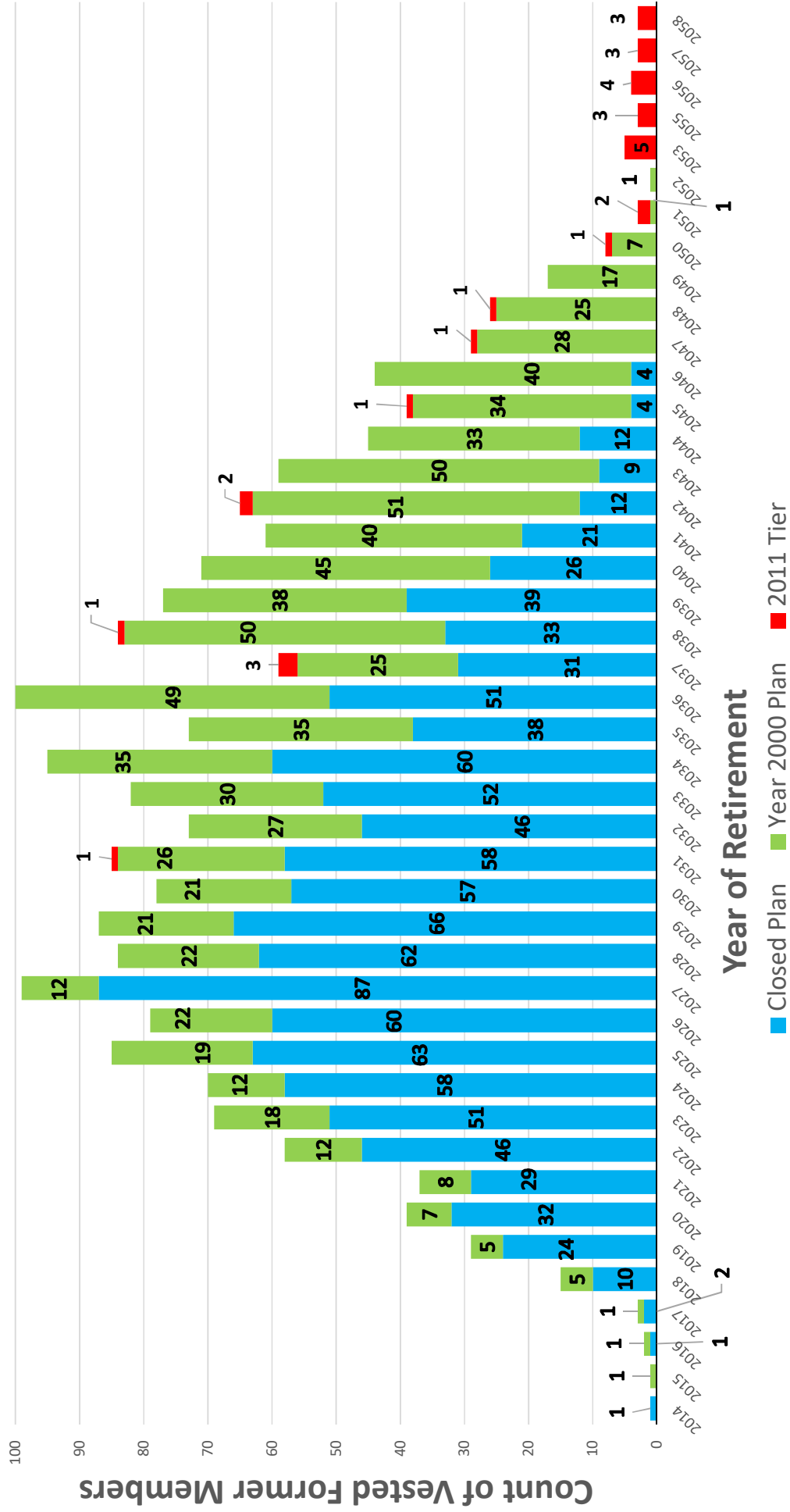
Year of Retirement

■ Closed Plan ■ Year 2000 Plan ■ 2011 Tier



Vested Member Data

COUNT OF VESTED FORMER MEMBERS BY YEAR OF NORMAL RETIREMENT DATE (AS OF 8-21-2018)



Vested Former Member Data

By Age

Age of Member	MoDOT	Civilian Patrol	Uniformed Patrol	MPERS	Total
< 21	0	0	0	0	0
21 - 25	0	0	0	0	0
26 - 30	12	4	4	0	20
31 - 35	114	22	13	0	149
36 - 40	206	37	18	0	261
41 - 45	314	37	24	1	376
46 - 50	341	44	67	0	452
51 - 55	352	46	36	0	434
56 - 60	234	27	0	0	261
61 - 65	28	2	0	0	30
66+	2	0	0	0	2
Totals	1,603	219	162	1	1,985



Vested Former Member Data

By Years of Service

Years of Service	MoDOT	Civilian Patrol	Uniformed Patrol	MPERS	Total
< 01	0	0	0	0	0
01 - 05	207	36	26	0	269
06 - 10	803	112	96	1	1,012
11 - 15	383	49	25	0	457
16 - 20	162	18	12	0	192
21 - 25	44	4	2	0	50
26 - 30	4	0	1	0	5
Totals	1,603	219	162	1	1,985



Retiree Member Data as of August 9, 2018

Current Ages of All Retirees

Age of Member	Total	MoDOT	Civilian Patrol	Uniformed Patrol	MPERS
48-50	1	1	0	0	0
51-54	115	93	10	12	0
55-60	1,020	771	117	132	0
61-64	1,046	786	141	114	5
65-70	1,752	1,296	287	167	2
71-74	967	713	139	113	2
75-80	1,007	764	115	128	0
81-84	501	398	46	57	0
85-90	388	309	52	26	1
91-94	95	76	8	11	0
95-99	25	20	1	4	0
100 +	3	3	0	0	0
Total	6,920	5,230	916	764	10



Retiree Member Data as of August 9, 2018

Total Years of Service for All Retirees

Years of Service	Total	MoDOT	Civilian Patrol	Uniformed Patrol	MPERS
04 - 05	107	80	23	3	1
06 - 10	431	333	82	16	0
11 - 15	598	462	110	26	0
16 - 20	546	445	87	13	1
21 - 25	926	760	139	26	1
26 - 30	1,853	1,388	213	250	2
31 - 35	1,479	976	181	318	4
36 - 40	729	554	68	107	0
41 - 45	229	210	13	5	1
46 - 50	22	22	0	0	0
Total	6,920	5,230	916	764	10

Retirement Plan Selected by Retirees

Retirement Plan	Total	MoDOT	Civilian Patrol	Uniformed Patrol	MPERS
Closed Plan	3,271	2,129	376	762	4
Year 2000 Plan	3,648	3,101	539	2	6
2011 Tier	1	0	1	0	0
Total	6,920	5,230	916	764	10



Retiree and BackDROP Data

Retirees Actually Retiring Data

Total members retiring (from active status, disabled, term-vested, etc)
Monthly average of members eligible to retire that year

FY 18		FY 17		FY 16		FY 15		FY 14	
Total	Percent	Total	Percent	Total	Percent	Total	Percent	Total	Percent
312	37%	352	43%	299	37%	405	50%	306	39%
836		823		809		817		782	

BackDROP Data

Retirees that took a BackDROP
Retirees eligible to take a BackDROP

Retirees that took all cash in BackDROP (includes installments)
Retirees that took a combination of cash and rollover of BackDROP
Retirees that took all rollover of BackDROP
Total BackDROPS

FY 18		FY 17		FY 16		FY 15		FY 14	
Total	Percent	Total	Percent	Total	Percent	Total	Percent	Total	Percent
120	94%	140	92%	102	96%	143	89%	122	85%
128		153		106		160		143	
11	9%	12	8%	6	6%	15	10%	9	8%
23	19%	25	18%	16	16%	25	18%	15	12%
86	72%	103	74%	80	78%	103	72%	98	80%
120		140		102		143		122	
		140		102		143		122	

Retiree Status When Retiring Data

Fiscal Year	MoDOT			Patrol			MPERS			Totals			Percents		
	Active	Vested	Disabled	Active	Vested	Disabled	Active	Vested	Disabled	Active	Vested	Disabled	Active	Vested	Disabled
FY 18	165	63	9	61	13	1	0	0	0	226	76	10	72%	24%	4%
FY 17	165	79	13	83	10	2	0	0	0	248	89	15	71%	25%	4%
FY 16	150	67	13	51	12	5	1	0	0	202	79	18	68%	26%	6%
FY 15	228	63	14	88	10	1	1	0	0	317	73	15	78%	18%	4%
FY 14	165	38	10	73	19	1	0	0	0	238	57	11	78%	18%	4%



Retiree Benefit Payment Options Selected

Retiree Benefit Payment Options Selected

Benefit Payment Option Data(a) Retirees Taking:	FY 18		FY 17		FY 16		FY 15		FY 14	
	MoDOT Patrol	%	MoDOT Patrol	%	MoDOT Patrol	%	MoDOT Patrol	%	MoDOT Patrol	%
Life Income Annuity	97	22	94	23	102	27	109	36	78	29
50% Joint and Survivor	70	28	73	34	48	15	77	23	56	29
100% Survivor	57	25	85	38	71	26	108	39	76	34
60 Guaranteed Payments(b)	1	0	0	0	1	0	6	0	0	0
120 Guaranteed Payments	10	1	4	0	8	0	6	0	3	1
180 Guaranteed Payments(c)	1	0	1	0	1	0	0	1	0	0
Sub-totals	236	76	257	95	231	68	306	99	213	93
Total Retired	312		352		299		405		306	

(a) normal and early retirements combined

(b) option in Closed Plan only

(c) option in Year 2000 Plan only

Detailed Retiree Benefit Payment Options Selected for FY 18

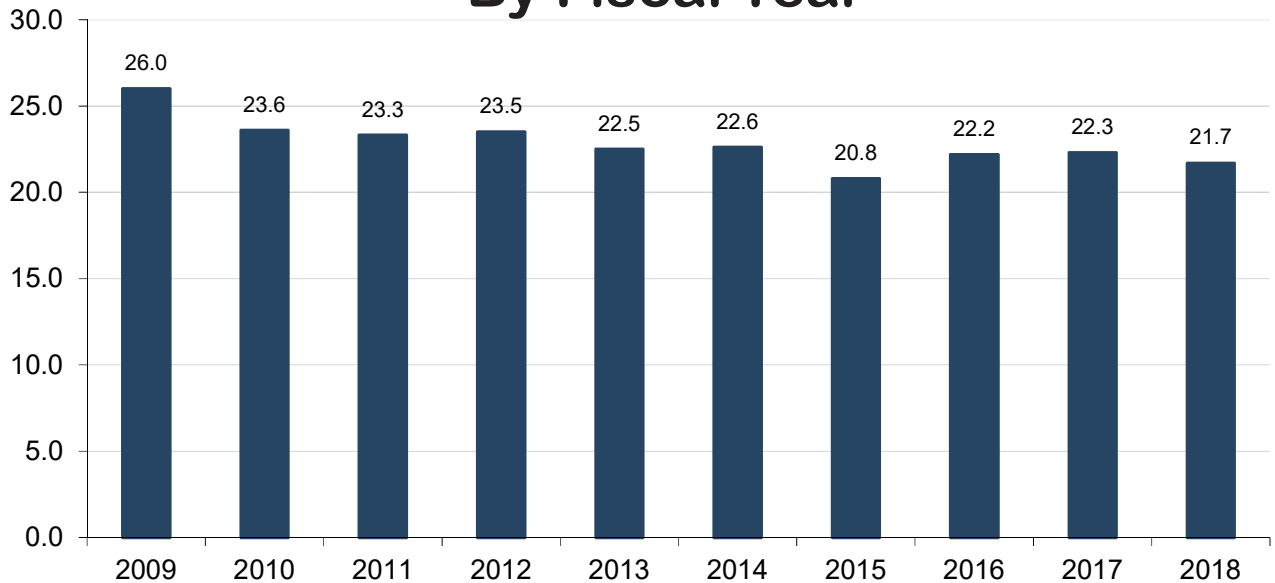
Benefit Payment Option Data Retirees Taking:	MoDOT		Uniformed Patrol		Civilian Patrol	
	Closed (a)	Year 2000 (b)	Closed (c)	Year 2000 (d)	Closed (e)	Year 2000 (f)
Life Income Annuity	14	83	8	0	5	9
50% Joint and Survivor	35	35	15	2	7	3
100% Survivor	24	33	8	2	9	6
60 Guaranteed Payments	1	n/a	0	n/a	0	n/a
120 Guaranteed Payments	4	6	0	0	0	1
180 Guaranteed Payments	n/a	1	n/a	0	n/a	0
Sub-totals	78	158	31	4	21	19
Total Retired (h)	236		35		41	

(a) 13 early retirements (b) 28 early retirements (c) No early retirements (d) No early retirements (e) 4 early retirements (f) 4 early retirements

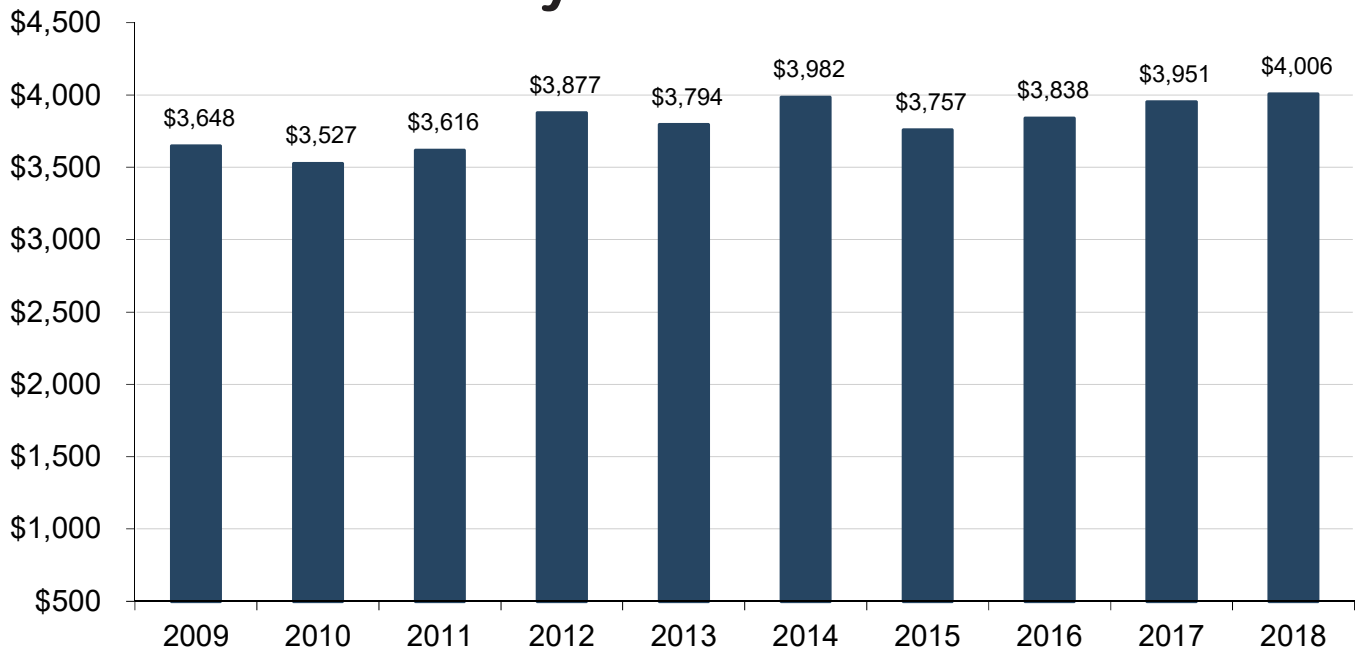
(g) 1 early retirement (h) No MPERS employees retired in FY 18



Average Years of Service for New Retirees By Fiscal Year

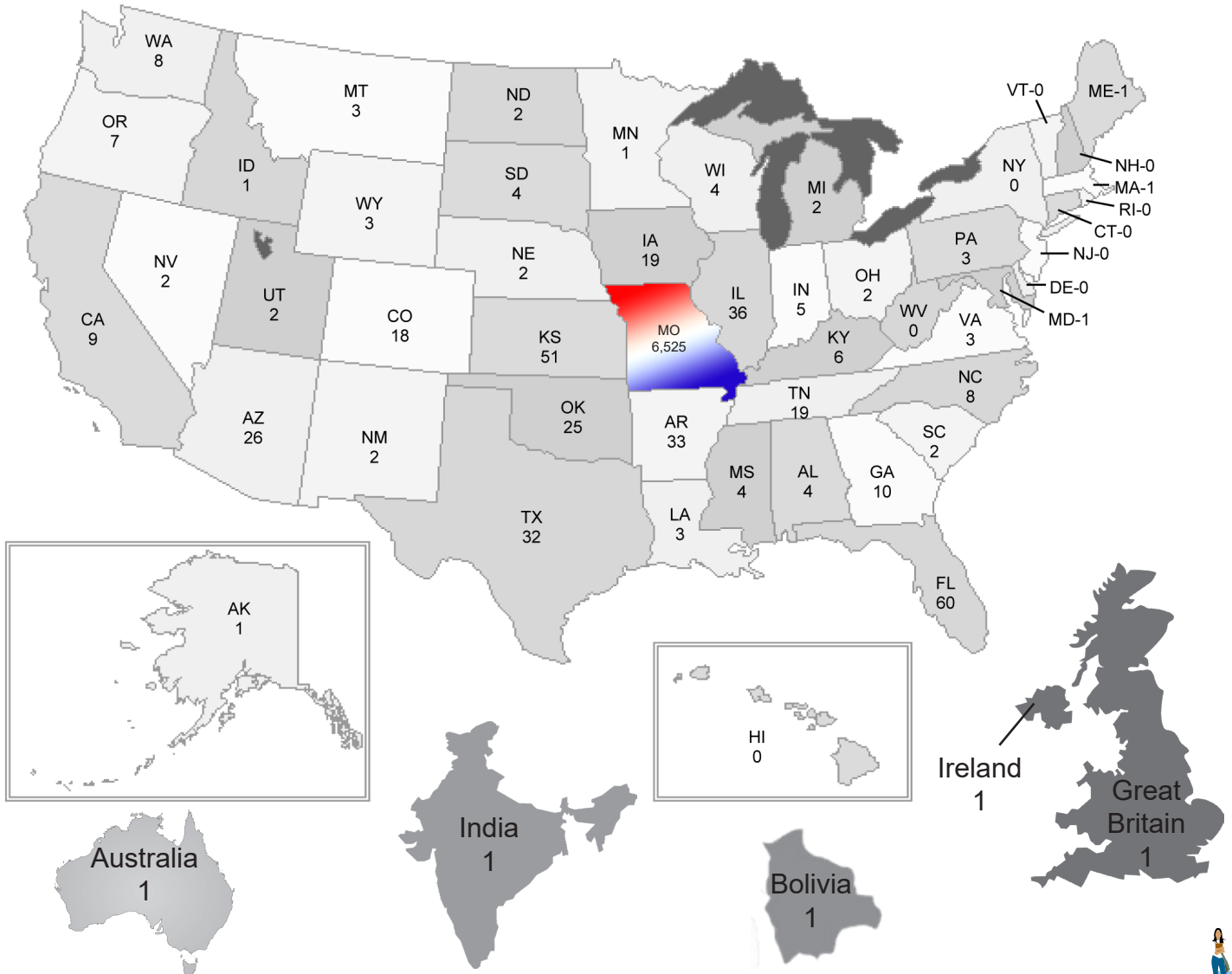


Final Average Pay for New Retirees By Fiscal Year



Location of Retirees - by State & Country

State	Retirees	State	Retirees	State	Retirees	Country	Retirees
MO	6,525	WA	8	ND	2	Australia	1
FL	60	OR	7	NE	2	Bolivia	1
KS	51	KY	6	NM	2	Canada	1
IL	36	IN	5	NV	2	Great Britain	1
AR	33	AL	4	OH	2	India	1
TX	32	MS	4	SC	2	Ireland	1
AZ	26	SD	4	UT	2		
OK	25	WI	4	AK	1	TOTAL	6,956
IA	19	LA	3	ID	1		
TN	19	MT	3	MA	1		
CO	18	PA	3	MD	1		
GA	10	VA	3	ME	1		
CA	9	WY	3	MN	1		
NC	8	MI	2				



Economic Impact of MPERS Benefits to Missouri

\$221,231,926 Annual Benefits Paid to Missouri Residents

