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Public Employees Retirement Association of New Mexico (PERA)

GASB Statement No. 67 Supplemental Report Prepared as of June 30, 2020





TABLE OF CONTENTS

Section	<u>Item</u>	Page No.
I	Introduction	1
II	Financial Statement Notes	3
III	Required Supplementary Information	6
IV	Notes to the Required Schedules	10
Appendix A	Actuarial Assumptions	11



Section I - Introduction

The Governmental Accounting Standards Board issued Statement No. 67 (GASB 67), "Financial Reporting for Pension Plans," in June 2012. GASB 67's effective date is for plan years beginning after June 15, 2013. This report, prepared as of June 30, 2020 (the Measurement Date), presents information to assist PERA in meeting the requirements of GASB 67. Much of the material provided in this report is based on the data, assumptions and results of the annual actuarial valuations of PERA and the Legislative Division of PERA as of June 30, 2019. The results as of the measurement date reflect the passage of Senate Bill 72 which established a new COLA structure effective July 1, 2020, changed employee and employer required contribution rates for some coverage plans, and allowed certain State General and State Juvenile Corrections members to transfer to the State Adult Corrections plan. The results as of the measurement date for the Legislative Division also reflect reduced retirement rates as the result of an experience study for the four-year period ending June 30, 2019.

Among the assumptions needed for the liability calculation is a Single Equivalent Interest Rate (SEIR). To determine the SEIR, the FNP must be projected into the future for as long as there are anticipated benefits payable under the plan's provision applicable to the membership and beneficiaries of the Plan on the Measurement Date. If the FNP is projected to not be depleted at any point in the future, which is the current result for PERA, the long term expected rate of return on plan investments expected to be used to finance the benefit payments may be used as the SEIR.

If, however, in a future year, the FNP is projected to be depleted, the SEIR is determined as the single rate that will generate a present value of benefit payments equal to the sum of the present value determined by discounting all projected benefit payments through the date of depletion by the long term expected rate of return, and the present value determined by discounting those benefits after the date of depletion by a 20-year tax-exempt municipal bond (rating AA/Aa or higher) rate. The rate used, if necessary, for this purpose is determined using the Municipal Bond Index published by the Bond Buyer.

To the best of our knowledge, this supplemental report is complete and accurate. It relies on much of the information contained in the annual actuarial valuations of PERA and the Legislative Division of PERA. The annual valuation reports should be distributed along with this report to interested parties. The actuarial calculations were performed by qualified actuaries according to generally accepted actuarial procedures and methods. Further, the calculations were prepared in accordance with the principles of practice prescribed by the Actuarial Standards Board and, in our opinion, meet the requirements of GASB 67. The undersigned are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.



Section I - Introduction

The sections that follow provide the results of all the necessary calculations for PERA (including the Legislative Division), presented in the order laid out in GASB 67 for note disclosure and Required Supplementary Information (RSI).

Respectfully Submitted,

Jonathan T. Craven, ASA, EA, MAAA, FCA

Consulting Actuary

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Section II – Financial Statement Notes

The material presented herein will follow the order presented in GASB 67. Paragraph numbers are provided for ease of reference.

The information required by paragraphs 30(a)(1)-(3) are to be supplied by PERA.

The data required by paragraph 30(a)(4) regarding the Plan membership were furnished by PERA. The following table summarizes the membership of the Plan as of June 30, 2019, the Actuarial Valuation Date.

Membership

Category	Number
Inactive Members or Their Beneficiaries Currently Receiving Benefits	40,744
Inactive Members Entitled to But Not Yet Receiving Benefits	19,652
Active Members	48,159
Total	108,555

The information required by paragraphs 30(a)(5)-(6) as well as paragraphs 30(b)-(f) are to be supplied by PERA. The information required by paragraph 31(a) is provided in the following table. As stated above, the Net Pension Liability is equal to the Total Pension Liability minus the Plan's Net Position. That result as of June 30, 2020 is presented in the table below.

Calculation of the Net Pension Liability (NPL) as of Fiscal Year Ending June 30, 2020						
Total pension liability Plan net position Net pension liability	\$22,140,636,773 <u>14,691,984,206</u> \$ 7,448,652,567					
Ratio of plan net position to total pension liability	66.36%					



Section II – Financial Statement Notes

Paragraph 31(b) requires information regarding the actuarial assumptions used to measure the TPL. The actuarial assumptions utilized in developing the TPL are those contained in Appendix A of this report. Please refer to the actuarial reports for the summary of benefits provided.

Long-Term Expected Rate of Return

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

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Global Equity	35.5%	5.9%
Risk Reduction & Mitigation	19.5	1.0
Credit Oriented Fixed Income	15.0	4.2
Real Assets to include Real Estate Equity	20.0	6.0
Multi Risk Allocation	10.0	6.4
Total	100.0%	

Discount rate. The discount rate used to measure the total pension liability is 7.25 percent. The projection of cash flows used to determine the discount rate assumed that future contributions will be made in accordance with statutory rates. On this basis, the pension plan's fiduciary net position together with the expected future contributions are sufficient to provide all projected future benefit payments of current plan members as determined in accordance with GASB Statement No. 67. Therefore, the 7.25% assumed long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Paragraph 31(b)(1)(g) requires disclosure of the sensitivity of the net pension liability to changes in the discount rate. The following presents the net pension liability of PERA, calculated using the discount rate of 7.25 percent, as well as what PERA's net pension liability would be if it were



Section II – Financial Statement Notes

calculated using a discount rate that is 1-percentage-point lower (6.25 percent) or 1-percentage-point higher (8.25 percent) than the current rate:

	1% Decrease	Current Discount Rate	1% Increase
	6.25%	7.25%	8.25%
System's net pension liability	\$10,161,983,289	\$7,448,652,567	\$5,201,418,673

June 30, 2019 is the actuarial valuation date upon which the TPL is based (paragraph 31(c)). The TPL was calculated as of June 30, 2019 using the economic and demographic assumptions adopted by the Board. Standard update procedures were used to roll forward the liabilities to the June 30, 2020 Measurement Date.



There are several tables of Required Supplementary Information (RSI) that are required to be included in PERA's financial statements. The tables for paragraphs 32(a)-(c) are provided on the following pages. The end of year total pension liability (TPL) was determined by "rolling-forward." This method determines the end of year amount by assuming there were no changes in the TPL during the year due to actual experience being different than expected for that plan year. Impact of changes to the assumptions and benefit terms are appropriately measured and provided in the supplementary information. The money-weighted rates of return required for paragraph 32(d) are to be determined by PERA's investment professionals.



SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY GASB 67 Paragraph 32(a)

Gridd of Turugruph 22(u)									
	2014	2015	2016	2017	2018	2019	2020		
Total pension liability									
Service Cost	\$ 418,995,891	\$ 389,052,473	\$ 390,220,766	\$ 405,560,569	\$ 376,310,442	\$ 403,879,064	\$ 401,166,200		
Interest	1,286,996,350	1,335,949,923	1,393,557,454	1,452,723,072	1,462,669,395	1,504,991,169	1,547,096,589		
Benefit changes	-	-	-	-	-	-	(710,227,019)		
Difference between expected and actual experience	_	59,112,343	330,750,820	(584,186,354)	113,712,339	(54,004,890)	213,520,684		
Changes of assumptions	(91,856,820)	_ ·	424,791,570	(62,778,144)	545,509,838	_	(222,293)		
Benefit payments	(905,329,141)	(966,236,566)	(1,024,399,237)	(1,084,818,276)	(1,133,417,826)	(1,193,943,794)	(1,255,018,086)		
Refunds of contributions	(47,376,975)	(46,010,197)	(44,937,505)	(44,396,305)	(50,288,373)	(54,336,705)	(44,903,265)		
Net change in total pension liability	\$ 661,429,305	\$ 771,867,976	\$ 1,469,983,868	\$ 82,104,562	\$ 1,314,495,815	\$ 606,584,844	\$ 151,412,810		
Total pension liability - beginning	\$17,082,757,593	\$17,744,186,898	\$18,516,054,874	\$19,986,038,742	\$20,068,143,304	\$21,382,639,119	\$21,989,223,963		
Total pension liability - ending (a)	\$17,744,186,898	\$18,516,054,874	\$19,986,038,742	\$20,068,143,304	\$21,382,639,119	\$21,989,223,963	\$22,140,636,773		
Plan net position									
Contributions - employer 1	\$ 370,766,329	\$ 317,163,961	\$ 324,751,997	\$ 332,473,332	\$ 319,499,468	\$ 339,676,103	\$ 368,424,721		
Contributions - member ²	174,037,205	258,919,779	265,529,178	272,829,112	282,847,487	281,643,094	297,152,638		
Special fund appropriation	-	-	-	-	-	-	55,000,000		
Net investment income	2,118,284,928	251,488,279	47,444,548	1,500,758,585	1,004,226,605	935,560,890	(223,544,631)		
Benefit payments	(905, 329, 141)	(966,236,566)	(1,024,399,237)	(1,084,818,276)	(1,133,417,826)	(1,193,943,794)	(1,255,018,086)		
Administrative expense	(10,336,324)	(9,885,765)	(10,753,722)	(11,505,774)	(12,667,256)	(13,583,372)	(14,318,349)		
Refunds of contributions	(47,376,975)	(46,010,197)	(44,937,505)	(44,396,305)	(50,288,373)	(54,336,705)	(44,903,265)		
Other	17,005,791	25,296,313	12,317,520	471,465	2,109,772	2,046,688	1,645,633		
Net change in plan net position	\$ 1,717,051,813	\$ (169,264,196)	\$ (430,047,221)	\$ 965,812,139	\$ 412,309,877	\$ 297,062,904	\$ (815,561,339)		
Plan net position - beginning	\$12,707,740,926	\$14,424,792,739	\$14,255,528,543	\$13,826,658,367	\$14,798,917,909	\$15,210,482,641	\$15,507,545,545		
Prior period adjustments	-	-	1,177,045	6,447,403	(745,145)	-	-		
Plan net position - beginning, Restated	\$12,707,740,926	\$14,424,792,739	\$14,256,705,588	\$13,833,105,770	\$14,798,172,764	\$15,210,482,641	\$15,507,545,545		
Plan net position - ending (b)	\$14,424,792,739	\$14,255,528,543	\$13,826,658,367	\$14,798,917,909	\$15,210,482,641	\$15,507,545,545	\$14,691,984,206		
Net pension liability - ending (a) - (b)	\$ 3,319,394,159	\$ 4,260,526,331	\$ 6,159,380,375	\$ 5,269,225,395	\$ 6,172,156,478	\$ 6,481,678,418	\$ 7,448,652,567		

¹ Includes \$74,357,341 of employer paid plan member contributions for 2014 (in accordance with Question 40 in the GASB 67 Implementation Guide). The 2017 amount has been revised to align with GASB 68 reporting.

² Includes service purchases. The 2017 amount has been revised to align with GASB 68 reporting.



SCHEDULE OF THE NET PENSION LIABILITY GASB 67 Paragraph 32(b)

	2014	2015	2016	2017	2018	2019	2020
Total pension liability Plan net position Net pension liability	\$ 17,744,186,898 14,424,792,739 3,319,394,159	\$18,516,054,874 <u>14,255,528,543</u> \$ 4,260,526,331	\$19,986,038,742 <u>13,826,658,367</u> \$ 6,159,380,375	\$20,068,143,304 <u>14,798,917,909</u> \$ 5,269,225,395	\$21,382,639,119 <u>15,210,482,641</u> \$ 6,172,156,478	\$21,989,223,963 <u>15,507,545,545</u> \$ 6,481,678,418	\$22,140,636,773 <u>14,691,984,206</u> \$ 7,448,652,567
Ratio of plan net position to total pension liability	81.29%	76.99%	69.18%	73.74%	71.13%	70.52%	66.36%
Covered-employee payroll	\$ 2,102,265,325	\$ 2,248,254,276	\$ 2,326,943,176	\$ 2,193,888,677	\$ 2,265,036,299	\$ 2,287,711,652	\$ 2,339,923,387
Net pension liability as a percentage of covered-employee payroll	157.90%	189.50%	264.70%	240.18%	272.50%	283.33%	318.33%



SCHEDULE OF EMPLOYER CONTRIBUTIONS GASB 67 Paragraph 32(c)

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Contractually required										
contributions*	\$ 368,424,721	\$ 339,676,103	\$ 319,499,468	\$ 332,473,332	\$ 324,751,997	\$ 317,163,961	\$ 370,766,329	\$ 285,560,291	\$ 274,905,978	\$ 283,376,830
Actual employer										
contributions*	368,424,721	339,676,103	319,499,468	332,473,332	324,751,997	317,163,961	370,766,329	285,560,291	274,905,978	283,376,830
Annual contribution deficiency										
(excess)	0	0	0	0	0	0	0	0	0	0
Covered-employee payroll	\$2,339,923,387	\$2,287,711,652	\$2,265,036,299	\$2,193,888,677	\$2,326,943,176	\$2,248,254,276	\$2,102,265,325	\$2,049,737,510	\$1,994,280,107	\$1,935,013,761
Actual contributions as a										
percentage of covered-										
employee payroll	15.75%	14.85%	14.11%	15.15%	13.96%	14.11%	17.64%	13.93%	13.78%	14.64%

^{*}Includes \$74,357,341 of employer paid plan member contributions for 2014 (in accordance with Question 40 in the GASB 67 Implementation Guide). The 2017 amount has been revised to align with GASB 68 reporting.



Section IV: Notes to Required Schedules

Summary of Actuarial Methods and Assumptions for Valuation

Actuarial valuation date June 30, 2019
Actuarial cost method Entry Age Normal

Amortization method Level Percentage of Pay

Amortization period Solved for based on statutory rates
Asset valuation method 4 Year Smoothed Market Value

Actuarial assumptions:

Investment rate of return* 7.25% annual rate, net of investment

expense

Administrative expenses 0.50% of payroll

Cost-of-living adjustments 1.60% annually starting 7/1/2023

Payroll growth 3.00%

Projected salary increases* 3.25% to 13.50% annual rate

*Includes inflation at 2.50%

In addition, under paragraph 34, the following should be noted regarding the RSI:

There were no changes to the actuarial assumptions for PERA which impact the measurements provided in this supplemental report except for reduced retirement rates for the Legislative Division as the result of an experience study for the four-year period ending June 30, 2019.

There were benefit changes as a result of the passage of Senate Bill 72 which established a new COLA structure effective July 1, 2020 for PERA. The COLA in future years is largely based on the investment performance of the fund and now requires an assumption of the annual rate of future COLAs. Based on our modeling of the plan's future expected investment returns, we have assumed beginning 7/1/2023 the annual rate of future COLAs will equal 1.60%. Also, the legislation changed employee and employer required contribution rates for some coverage plans, and allowed certain State General and State Juvenile Corrections members to transfer to the State Adult Corrections plan.



Actuarial Assumptions Used for Determining the Total Pension Liability (TPL)

Economic Assumptions (effective with June 30, 2018 valuation)

Assumed Rate of Investment Return. 7.25% per annum net of investment expenses.

Discount Rate for Determining the TPL: 7.25%.

20-Year Municipal Bond Rate as of Measurement Date: N/A.

Administrative Expenses. 0.50% of payroll.

Price Inflation. 2.50% per annum, compounded annually.

Annual Cost-of-Living Adjustments. 1.60% annually beginning 7/1/2023.

Salary Increases. Salary increases occur in recognition of (i) individual merit and longevity, (ii) inflation-related depreciation of the purchasing power of salaries, and (iii) other factors such as productivity gains and competition from other employers for personnel. Sample rates follow:

	Annual Rates of Salary Increase for Sample Years Service					
Attributable to:	1	5	10	15	20	
General Increase in Wage Level Due to: Inflation Other Factors	2.50% 0.75	2.50% 0.75	2.50% 0.75	2.50% 0.75	2.50% 0.75	
Increase Due to Merit/Longevity: State General State Police State Corrections Municipal General* Municipal Police	5.00 10.25 9.75 2.50 7.75	1.25 5.75 3.50 1.50 2.75	0.50 1.25 2.00 0.50	0.00 1.25 1.50 0.00 0.75	0.00 1.25 1.50 0.00 0.75	
Municipal Police Municipal Fire	7.75 7.75	2.75	1.50 1.50	0.75 1.25	0.75 1.25	

^{*} Includes Municipal Detention Officers



In the following schedules, State Corrections includes Adult Corrections Officers, Juvenile Corrections Officers and Municipal Detention Officers unless otherwise noted.

Mortality Assumption. The mortality assumptions are based on the RPH-2014 Blue Collar mortality table with female ages set forward one year. Future improvement in mortality rates is assumed using 60% of the MP-2017 projection scale generationally. For non-public safety groups, 25% of in-service deaths are assumed to be duty related and 35% are assumed to be duty-related for public safety groups.

Rates are shown for sample ages in the following schedule. Note that sex distinct mortality rates are used solely for determining the funded status and contribution rate adequacy. All benefit amounts are based on merged gender mortality rates.

	Sample Mortality Rates (Base Rates)										
P :	re-Commen	cement	Po	st-Commen	cement	Pos	t-Commend	ement			
Age	Male	Female	Age	Male	Female	Age	Male	Female			
25	0.000733	0.000244	35	0.001793	0.001169	80	0.053460	0.042932			
30	0.000717	0.000317	40	0.002156	0.001611	85	0.088524	0.072752			
35	0.000797	0.000417	45	0.003275	0.002671	90	0.146859	0.125111			
40	0.000958	0.000598	50	0.005604	0.004235	95	0.223428	0.197901			
45	0.001455	0.001013	55	0.007342	0.005165	100	0.313988	0.291040			
50	0.002490	0.001685	60	0.009893	0.006890	105	D: 11 1	ı·			
55	0.004071	0.002510	65	0.014089	0.010092	110	Disabled retirees use				
60	0.006743	0.003606	70	0.021101	0.016038	115	the same a	-			
65	0.011612	0.005456	75	0.032952	0.026199	120	as healthy	nves.			



Rates of Retirement

First Eligibility Rates: These rates are used to measure the probability of members retiring in the first year eligible for retirement at the indicated ages.

	Sample Percent Retiring at First Eligibility by Age										
	State General State Police State Municipal General Municipal Municipal										
Ages	Male	Female	Tier 1	Tier 2	Corrections	Male	Female	Police	Fire		
40	25%	25%	25%	40%	40%	20%	25%	30%	30%		
45	25	25	25	40	40	20	25	30	25		
50	25	25	25	40	40	20	25	30	20		
55	25	25	25	40	40	20	25	30	25		
60	30	25	50	40	35	15	25	30	20		
65	25	25	100	100	35	15	25	30	20		
70	25	20			100	20	15	100	100		
75	25	20				20	15				
80	100	100				100	100				

Subsequent Eligibility Rates: These rates are used to measure the probability of members retiring after the first year eligible for retirement at the indicated ages.

	Sample Percent Retiring After First Eligibility by Age*										
	State (General	State 1	Police**	State		icipal ieral		icipal :e***	Municipal	
Ages	Male	Female	Tier 1	Tier 2	Corrections	Male	Female	Tier 1	Tier 2	Fire	
40	25%	25%	35%	20%	20%	20%	25%	35%	40%	30%	
45	25	25	35	20	20	20	25	35	40	25	
50	25	25	35	20	20	20	25	35	40	20	
55	25	25	35	20	20	20	25	35	40	25	
60	20	35	50	20	20	15	15	35	30	20	
65	30	35	100	100	20	15	10	30	30	20	
70	25	20			100	20	15	100	100	100	
75	25	20				20	15				
80	100	100				100	100				

- * Rates are 70% at 30 years of service for all ages except State General and Municipal General Tier 2 uses 75% at 36 years of service and Municipal Police Tier 1 uses 75% at 26 years of service.
- ** Rates for State Police Tier 1 are 45% at 27 years of service, 55% at 28 years of service, and 65% at 29 years of service.
- *** Rates for Municipal Police Tier 1 are 35% at 21 years of service, 40% at 22 years of service, and 45% at 23 years of service, 55% at 24 years of service, and 65% at 25 years of service
- *** Rates for Municipal Police Tier 2 are 35% at 25 years of service, 40% at 26 years of service, and 45% at 27 years of service, 55% at 28 years of service, and 65% at 29 years of service.



Rates of Withdrawal from Active Membership. The rates are used to measure probabilities of active members terminating for a reason other than disability or death. The rates do not apply to members who are within the retirement rate range. Assumptions for State General and Municipal General are gender distinct and both based on age and service. Assumptions for all other plans are not gender distinct and are service related only; these rates do not vary by age.

State General Males						
Rates of Active Members Terminating During Year						
	Sample Service (Yr):					
Sample	2	4	6	8	10+	
Ages						
20	18.76%	10.86%	8.21%	7.78%	5.11%	
25	17.72	11.06	8.10	7.07	4.65	
30	16.45	11.27	7.97	6.18	4.13	
35	15.31	10.81	7.59	5.58	3.89	
40	14.30	9.97	7.08	5.40	3.86	
45	13.55	9.06	6.63	5.40	3.86	
50	13.26	8.45	6.49	5.40	3.86	
55	13.26	8.37	6.49	5.40	3.86	
60	13.26	8.37	6.49	5.40	3.86	
65	13.26	8.37				
70	13.26	8.37				

State General Females						
Rates of Active Members Terminating During Year						
	Sample Service (Yr):					
Sample	2	4	4 6	8	10+	
Ages						
20	18.13%	11.95%	8.22%	6.05%	4.83%	
25	17.76	11.95	8.02	5.81	4.25	
30	17.28	11.89	7.81	5.54	3.55	
35	16.34	11.23	7.45	5.28	3.46	
40	15.22	10.24	6.99	5.06	3.46	
45	14.19	9.20	6.58	4.95	3.46	
50	13.52	8.55	6.45	4.80	3.46	
55	13.37	8.50	6.45	4.70	3.46	
60	13.37	8.50	6.45	4.70	3.46	
65	13.37	8.50				
70	13.37	8.50				



Rates of Withdrawal from Active Membership (cont.)

Municipal General Males							
	Rates of Active Members Terminating During Year						
	Sample Service (Yr):						
Sample	2	4	6	8	10+		
Ages							
20	21.70%	14.59%	11.29%	8.93%	8.54%		
25	20.00	13.52	10.26	8.05	7.32		
30	17.73	12.04	8.96	6.94	5.69		
35	15.77	10.65	8.01	6.20	4.61		
40	14.06	9.37	7.29	5.73	3.92		
45	12.80	8.39	6.87	5.58	3.65		
50	12.20	8.01	6.79	5.58	3.65		
55	12.18	8.01	6.79	5.58	3.65		
60	12.18	8.01	6.79	5.58	3.65		
65	12.18	8.01					
70	12.18	8.01					

Municipal General Females						
Rates of Active Members Terminating During Year						
	Sample Service (Yr):					
Sample	2	4	6	8	10+	
Ages						
20	24.40%	17.77%	14.41%	11.94%	7.51%	
25	21.96	16.06	12.80	10.32	6.38	
30	18.85	13.77	10.63	8.16	4.94	
35	16.69	11.96	9.08	6.70	4.09	
40	15.16	10.49	7.84	5.74	3.67	
45	14.28	9.49	6.50	5.31	3.62	
50	14.01	9.14	6.50	5.30	3.62	
55	14.01	9.14	6.50	5.30	3.62	
60	14.01	9.14	6.50	5.30	3.62	
65	14.01	9.14				
70	14.01	9.14				



Rates of Withdrawal from Active Membership (cont.)

Service Based Rates of Active Members Terminating During Year								
	Sample Service (Yr):							
All Ages	1 3 5 7 8+							
State Police	8.00%	7.00%	4.00%	4.00%	4.00%			
State Corrections	20.00	16.00	9.00	8.00	5.75			
Municipal Detention	22.00	16.00	10.00	10.00	6.00			
Municipal Police	14.00	9.50	6.80	5.15	3.50			
Municipal Fire	10.00	7.50	5.00	3.30	2.75			

Rates of Disability. The rates are used to measure the probabilities of active members becoming disabled. Rates for sample ages follow. For non-public safety groups, 25% disabilities are assumed to be duty related and 35% are assumed to be duty-related for public safety groups.

Rates Becoming Disabled at Indicated Ages (State Division)						
	State General		State	State		
Sample Ages	Male	Male Female		Corrections		
25	0.02%	0.02%	0.03%	0.14%		
30	0.04	0.03	0.06	0.16		
35	0.08	0.06	0.08	0.21		
40	0.13	0.12	0.21	0.27		
45	0.24	0.20	0.25	0.46		
50	0.41	0.39	0.41	0.90		
55	0.57	0.61	0.95	1.40		
60	0.74	0.73	1.39	1.88		
65	0.75	0.73	1.39	1.88		

Rates Becoming Disabled at Indicated Ages (Municipal Division)						
	Municipal General		Municipal	Municipal	Municipal	
Sample Ages	Male	Female	Detention	Police	Fire	
25	0.03%	0.04%	0.06%	0.01%	0.02%	
30	0.06	0.04	0.10	0.01	0.02	
35	0.09	0.04	0.15	0.05	0.02	
40	0.13	0.06	0.22	0.11	0.08	
45	0.18	0.14	0.32	0.18	0.08	
50	0.30	0.25	0.51	0.28	0.33	
55	0.49	0.39	0.85	0.46	0.33	
60	0.60	0.51	1.04	0.74	1.17	
65	0.62	0.59	1.07	1.08	1.17	



Miscellaneous and Technical Assumptions

Marriage Assumption: 100% of males and 100% of females are assumed to be married

for purposes of death-in-service benefits. Male spouses are assumed to be three years older than female spouses. It is assumed that spouses have no eligible children for purposes of death-in-

service benefits.

Pay Increase Timing: Beginning of plan year. This is equivalent to assuming that

reported pays represent amounts paid to members during the year

ended on the valuation date.

Decrement Timing: All decrements are assumed to occur at the beginning of the plan

year.

Eligibility Testing: Eligibility for benefits is determined based upon the age nearest

birthday and service nearest whole year on the date the decrement

is assumed to occur.

Decrement Relativity: Decrement rates are used directly from the experience study,

without adjustment for multiple decrement table effects.

Decrement Operation: Neither disability nor withdrawal decrements operate during

retirement eligibility.

Loads: Retiree liabilities were increased by 1% to account for the pop-up

provision.

Incidence of Contributions: Contributions are assumed to be received continuously throughout

the year based upon the computed percent of payroll shown in this report and the actual payroll payable at the time contributions are

made.

Benefit Service: Exact fractional service is used to determine the amount of benefit

payable.

Data Changes: For missing dates of birth for active members, we assumed to enter

the system at the average entry age. For retiree records with a joint and survivor option and a missing beneficiary date of birth, the beneficiary was assumed to be 3 years younger if the member was

male and 3 years older if the member was female.