

January 31, 2023

CONFIDENTIAL

Mr. Doug Anderson Executive Director Public Employees Retirement Association of Minnesota 60 Empire Drive, Suite 200 St. Paul, MN 55103

Re: Projection of Contributions and Funding Status - Local Correctional Plan

Dear Mr. Anderson:

Attached are 30-year projections of estimated funded status, required contributions, and statutory contributions under three asset return scenarios for the Local Government Correctional Service Retirement Plan. These projections, including the underlying investment return assumptions, are required by the Minnesota Standards for Actuarial Work. Unless noted otherwise, the estimates are based on participant data, assets, and plan provisions as outlined in the Local Government Correctional Service Retirement Plan actuarial funding valuation as of July 1, 2022.

Basis for Projections

For all enclosed projections, liabilities are determined using the statutory investment return assumption of 7.5%. As required by the Minnesota Standards for Actuarial Work, the projections reflect three asset return scenarios (7.5%, 6.0% and 9.0%). Note that we believe the 7.5% and 9.0% rate of return assumptions are outside of the range of reasonable expected returns for this plan.

The estimates are based on the market value of assets with no smoothing of investment gains or losses. Consequently, the required contributions for the fiscal year will not match the figures based on the actuarial value of assets shown in our valuation report. Payroll is assumed to increase approximately 3.00% per year over the long term, consistent with the valuation assumption for total payroll growth.

The projection is an open group projection; meaning, active members projected to retire or otherwise terminate in the future are replaced with new active members so that the total active membership of the fund remains at 3,564 members. The profile of these new members is the same as new members hired between July 1, 2016 and June 30, 2021. Average salary at hire increases at the assumed payroll growth rate.

- Average age at hire is 30.8
- Average salary at hire is \$52,300
- Approximately 38% female, 62% male

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If actuarial accrued liability exceeds assets, the unfunded actuarial accrued liability is amortized through June 30, 2048 per Minnesota Statute 356.215, Subdivision 11. Per Minnesota Statute 356.215, Subdivision 11 (I), a negative unfunded actuarial accrued liability (i.e., when assets exceed liability) is amortized over a rolling 30-year period.

Post-retirement Benefit Increases

A very significant assumption affecting the projected estimates is the expectation of annual increases in the benefits being paid to retirees and beneficiaries. Actual benefit increases equal the Social Security Cost-of-Living Adjustment, not less than 1.00% and not more than 2.50%. If the funded status declines to 85% for two consecutive years or to 80% for one year (on a market value of assets basis), the maximum is lowered to 1.50%. For the 7.5% and 9.0% investment return scenarios, the projections assume a constant post-retirement benefit increase of 2.00%. More information about this assumption can be found in the valuation report as of July 1, 2022.

For the 6.0% investment return scenario, if all assumptions are met, the funding status of the plan deteriorates to the point that the 1.5% maximum post-retirement benefit increase is estimated to be applied beginning January 1, 2043. In this projection, the accrued liability and normal cost are based on a 2.0% post-retirement benefit increase assumption through December 31, 2042 and a 1.5% post-retirement benefit increase assumption beginning January 1, 2043 and later.

If actual benefit increases are greater than assumed, liabilities and required contributions will be greater than the amounts shown in the enclosed projections.

Comments

The reader should keep the following in mind when reviewing these results:

- Statutory contributions are defined in statutes as a fixed percentage of payroll plus any statutory supplemental contributions and represent the amount that is actually contributed to the plan. Required contributions are defined in statutes and the LCPR Standard for Actuarial Work and represent the amount needed to fully fund the plan by June 30, 2048 (normal cost, expenses and a payment to amortize the unfunded liability).
- Investment experience that has occurred since the measurement date is not reflected in this report.
- The enclosed projections are based on assumptions as outlined in the Local Government Correctional Service Retirement Plan actuarial funding valuation as of July 1, 2022. Please see that report for comments regarding the 7.5% statutory investment return assumption, and sensitivity test results based on alternate assumptions.
- Note that plan changes may result in behavior changes that are not anticipated in the current assumptions.



- In the 7.5% and 9.0% investment return scenarios, surplus assets reduce the projected required contributions to amounts less than normal cost. We typically recommend the contribution be at least equal to the normal cost of the plan and suggest that plans with considerable surplus assets investigate the pros and cons of reducing the risk of the plan's investment allocation to preserve surplus assets.
- A 2022 analysis of long-term rate of investment return and inflation assumptions concluded that the probability of exceeding the current 7.5% assumption over 10 years is only 34%. The statutory requirement for projections that are 1.5% above and 1.5% below the assumed rate may give the reader the impression that the 7.5% projection is an accurate (middle of the road) representation of the expected future results. Based on our modeling, the 7.5% scenario is optimistic and not representative of the expected (median) result. We caution against adjusting contribution rates without full consideration of the median results.
- Note that as funding ratios decline, as they are expected to in one of the investment return scenarios shown in this letter, it will be increasingly difficult for the plan to attain the assumed scenario investment return. Each year, a larger proportion of assets is paid out in benefits, and less capital is available to invest.

Disclosures

The purpose of this report is to estimate the fund's funding progress and required contribution rates over a 30-year period according to prescribed assumptions and the Minnesota Standards for Actuarial Work. To the best of our knowledge and belief, the calculations were completed in accordance with the requirements of Minnesota Statutes, Section 356.215, and the requirements of the Standards for Actuarial Work established by the Legislative Commission on Pensions and Retirement.

This report should not be relied upon for any purpose other than the purpose described herein. Determinations of the financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results. GRS is not responsible for the consequences of any unauthorized use.

Actuarial assumptions, including discount rates, mortality tables and others identified in this report, are prescribed by Minnesota Statutes Section 356.215, the Legislative Commission on Pensions and Retirement (LCPR), and the Board of Trustees. These parties are responsible for selecting the plan's funding policy, actuarial valuation methods, asset valuation methods, and assumptions. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in the Actuarial Basis section of the valuation report, except as noted. PERA is solely responsible for communicating to GRS any changes required thereto.

In a 2022 analysis of long-term rate of investment return and inflation assumptions, GRS suggested that an investment return assumption in the range of 5.64% to 6.84% would be reasonable for this valuation. This implies that the 7.5% and 9.0% rate of return assumptions would be outside the range of reasonable returns for this plan. Please see our letter dated July 12, 2022 for additional information. For informational purposes, results based on a 6.5% discount rate are shown on page 6 of the July 1, 2022 valuation report.



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The projections assume the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.

The contribution rates shown in this report have been determined using the actuarial assumptions and methods disclosed in the Actuarial Basis section of the July 1, 2022 valuation report. This valuation report includes risk metrics on pages 7-10, but does not include a robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment.

The valuation was based upon information furnished by the Public Employees Retirement Association (PERA), concerning benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by PERA.

This report was prepared using our proprietary valuation model and related software which, in our professional judgement, has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

This report reflects the impact of COVID-19 through June 30, 2022. It does not reflect the ongoing impact of COVID-19, which is likely to influence demographic and investment experience, at least in the short term. We will continue to monitor these developments and their impact on the plan.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law.

Professional Qualifications

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge and belief, the information contained in this report is accurate and fairly presents the actuarial position of the Local Government Correctional Service Retirement Plan as of the valuation date and was performed in accordance with the requirements of Minnesota Statutes Section 356.215, and the requirements of the Standards for Actuarial Work established by the LCPR. All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.



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Brian B. Murphy, Bonita J. Wurst and Sheryl L. Christensen are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The signing actuaries are independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

Respectfully submitted,
Gabriel, Roeder, Smith & Company

Brian B. Murphy, FSA, EA, FCA, MAAA, PhD

Bonita J. Wurst

Bonita J. Wurst, ASA, EA, FCA, MAAA

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BBM/BJW/SLC:dj Enclosures



Other Observations

General Implications of the Contribution Allocation Procedure or Funding Policy on Future Expected Plan Contributions and Funded Status

Given the plan's contribution allocation procedure, if there are no changes in benefits, Chapter 356 required contributions are made, and all actuarial assumptions are met (including the assumption of the plan earning 7.50% on the market value of assets, as prescribed by statutes), it is expected that:

- (1) The normal cost of the plan is expected to remain approximately level as a percent of pay; and
- (2) The plan is expected to remain fully funded.

Limitations of Funded Status Measurements

Unless otherwise indicated, a funded status measurement presented in this report is based upon the actuarial accrued liability and the market value of assets. Unless otherwise indicated, with regard to any funded status measurements presented in this report:

- (1) The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations; in other words, of transferring the obligations to an unrelated third party in an arm's length market value type transaction.
- (2) The measurement is dependent upon the actuarial cost method which, in combination with the plan's amortization policy, affects the timing and amounts of future contributions. The amounts of future contributions will most certainly differ from those assumed in this report due to future actual experience differing from assumed experience based upon the actuarial assumptions. A funded status measurement in this report of 100% is not synonymous with no required future contributions. If the funded status were 100%, the plan would still require future normal cost contributions (i.e., contributions to cover the cost of the active membership accruing an additional year of service credit).
- (3) The measurement would produce a different result if the actuarial value of assets were used instead of the market value of assets.

Limitations of Project Scope

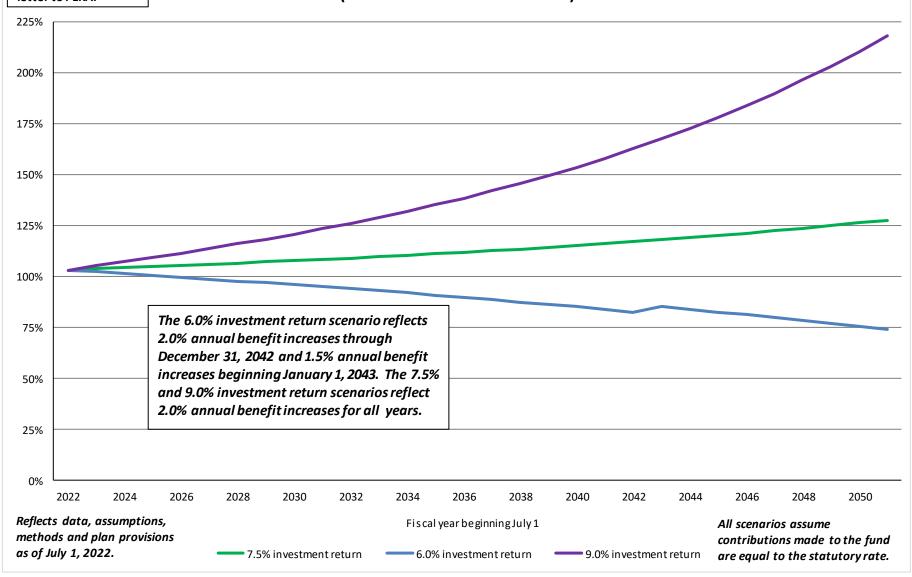
Actuarial standards do not require the actuary to evaluate the ability of the plan sponsor or other contributing entity to make required contributions to the plan when due. Such an evaluation was not within the scope of this project and is not within the actuary's domain of expertise. Consequently, the actuary performed no such evaluation.



PERA Local Government Correctional Service Retirement Plan Estimated Accrued Liability Funded Ratio

(Market Value of Assets Basis)

In all scenarios, the interest rate used to discount liabilities was 7.50%.

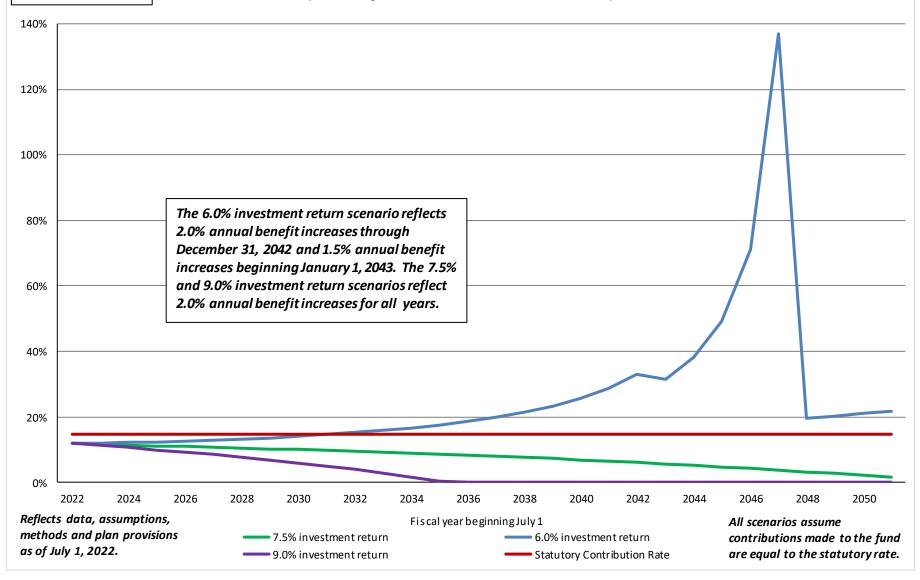




PERA Local Government Correctional Service Retirement Plan Estimated Required Contribution Rates

(% of Pay, Market Value of Assets Basis)

In all scenarios, the interest rate used to discount liabilities was 7.50%.





Local Government Correctional Service Retirement Plan

Scenario: 7.5% Investment Return for All Years

Fiscal Year Beginning July 1

\$ in Thousands	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Contributions (% of Payroll)										
Statutory - Chapter 353E	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Required - Chapter 356 (MVA)	11.85%	11.64%	11.42%	11.20%	10.96%	10.73%	10.49%	10.25%	10.00%	9.73%
Sufficiency / (Deficiency)	2.73%	2.94%	3.16%	3.38%	3.62%	3.85%	4.09%	4.33%	4.58%	4.85%
Contributions										
Statutory - Chapter 353	\$ 33,307	\$ 34,804	\$ 36,190	\$ 37,471	\$ 38,710	\$ 39,990	\$ 41,292	\$ 42,616	\$ 43,958	\$ 45,339
Required - Chapter 356 (MVA)	27,079	27,787	28,348	28,772	29,111	29,434	29,721	29,960	30,140	30,272
Sufficiency / (Deficiency)	6,228	7,017	7,842	8,699	9,599	10,556	11,572	12,656	13,818	15,067
Funding Ratios										
Current Assets (MVA)	\$975,315	\$1,049,780	\$1,127,953	\$1,209,271	\$1,293,567	\$1,380,981	\$1,471,743	\$1,565,693	\$1,662,969	\$1,763,551
Actuarial Accrued Liability (AAL)	944,741	1,011,746	1,081,493	1,153,360	1,227,153	1,302,967	1,380,954	1,460,881	1,542,801	1,626,601
Unfunded AAL	(30,574)	(38,034)	(46,460)	(55,910)	(66,414)	(78,014)	(90,789)	(104,812)	(120,168)	(136,950)
Funding Ratio	103.2%	103.8%	104.3%	104.9%	105.4%	106.0%	106.6%	107.2%	107.8%	108.4%
Benefit Payments	\$ 31,673	\$ 34,963	\$ 38,953	\$ 43,228	\$ 47,542	\$ 51,900	\$ 56,675	\$ 61,572	\$ 66,744	\$ 71,895
Ratio of Assets to Benefit Payments	30.79	30.03	28.96	27.97	27.21	26.61	25.97	25.43	24.92	24.53

Numbers may not add due to rounding.



Local Government Correctional Service Retirement Plan

Scenario: 7.5% Investment Return for All Years

Fiscal Year Beginning July 1

\$ in Thousands	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Contributions (% of Payroll)										
Statutory - Chapter 353E	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Required - Chapter 356 (MVA)	9.46%	9.18%	8.89%	8.59%	8.27%	7.95%	7.61%	7.25%	6.88%	6.49%
Sufficiency / (Deficiency)	5.12%	5.40%	5.69%	5.99%	6.31%	6.63%	6.97%	7.33%	7.70%	8.09%
Contributions										
Statutory - Chapter 353	\$ 46,756	\$ 48,208	\$ 49,702	\$ 51,244	\$ 52,833	\$ 54,482	\$ 56,180	\$ 57,929	\$ 59,729	\$ 61,583
Required - Chapter 356 (MVA)	30,349	30,360	30,303	30,177	29,973	29,691	29,308	28,811	28,187	27,425
Sufficiency / (Deficiency)	16,407	17,849	19,399	21,067	22,861	24,791	26,872	29,118	31,542	34,157
Funding Ratios										
Current Assets (MVA)	\$1,867,749	\$1,975,119	\$2,085,853	\$2,200,215	\$2,318,357	\$2,440,273	\$2,566,326	\$2,696,604	\$2,831,508	\$2,971,331
Actuarial Accrued Liability (AAL)	1,712,479	1,799,872	1,888,855	1,979,552	2,071,966	2,165,936	2,261,649	2,359,013	2,458,220	2,559,347
Unfunded AAL	(155,271)	(175,247)	(196,998)	(220,663)	(246,391)	(274,337)	(304,677)	(337,591)	(373,288)	(411,985)
Funding Ratio	109.1%	109.7%	110.4%	111.2%	111.9%	112.7%	113.5%	114.3%	115.2%	116.1%
Benefit Payments	\$ 77,772	\$ 83,727	\$ 89,712	\$ 95,862	\$ 102,336	\$ 108,793	\$ 115,512	\$ 122,201	\$ 128,991	\$ 135,660
Ratio of Assets to Benefit Payments	24.02	23.59	23.25	22.95	22.65	22.43	22.22	22.07	21.95	21.90

Numbers may not add due to rounding.



Local Government Correctional Service Retirement Plan

Scenario: 7.5% Investment Return for All Years

Fiscal Year Beginning July 1

\$ in Thousands	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
Contributions (% of Payroll)										
Statutory - Chapter 353E	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Required - Chapter 356 (MVA)	6.09%	5.67%	5.23%	4.76%	4.28%	3.78%	3.26%	2.71%	2.14%	1.54%
Sufficiency / (Deficiency)	8.49%	8.91%	9.35%	9.82%	10.30%	10.80%	11.32%	11.87%	12.44%	13.04%
Contributions										
Statutory - Chapter 353	\$ 63,500	\$ 65,460	\$ 67,472	\$ 69,544	\$ 71,669	\$ 73,864	\$ 76,121	\$ 78,448	\$ 80,839	\$ 83,293
Required - Chapter 356 (MVA)	26,521	25,442	24,180	22,724	21,050	19,152	16,998	14,574	11,849	8,798
Sufficiency / (Deficiency)	36,978	40,018	43,292	46,820	50,619	54,713	59,123	63,874	68,989	74,495
Funding Ratios										
Current Assets (MVA)	\$3,116,624	\$3,267,993	\$3,425,652	\$3,589,665	\$3,760,473	\$3,938,299	\$4,123,661	\$4,317,157	\$4,519,333	\$4,730,818
Actuarial Accrued Liability (AAL)	2,662,706	2,768,645	2,877,113	2,987,881	3,101,075	3,216,582	3,334,552	3,455,190	3,578,618	3,705,012
Unfunded AAL	(453,918)	(499,348)	(548,539)	(601,783)	(659,398)	(721,716)	(789,109)	(861,967)	(940,715)	(1,025,806)
Funding Ratio	117.1%	118.0%	119.1%	120.1%	121.3%	122.4%	123.7%	125.0%	126.3%	127.7%
Benefit Payments	\$ 142,204	\$ 149,021	\$ 156,285	\$ 163,640	\$ 171,326	\$ 179,087	\$ 186,880	\$ 194,802	\$ 202,810	\$ 211,070
Ratio of Assets to Benefit Payments	21.92	21.93	21.92	21.94	21.95	21.99	22.07	22.16	22.28	22.41

Numbers may not add due to rounding.



Local Government Correctional Service Retirement Plan

Scenario: 6.0% Investment Return for All Years
Fiscal Year Beginning July 1

\$ in Thousands	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Contributions (% of Payroll)										
Statutory - Chapter 353E	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Required - Chapter 356 (MVA)	11.85%	12.01%	12.18%	12.37%	12.60%	12.89%	13.23%	13.63%	14.07%	14.59%
Sufficiency / (Deficiency)	2.73%	2.57%	2.40%	2.21%	1.98%	1.69%	1.35%	0.95%	0.51%	(0.01)%
Contributions										
Statutory - Chapter 353	\$ 33,307	\$ 34,804	\$ 36,190	\$ 37,471	\$ 38,710	\$ 39,990	\$ 41,292	\$ 42,616	\$ 43,958	\$ 45,339
Required - Chapter 356 (MVA)	27,079	28,668	30,230	31,785	33,446	35,358	37,476	39,825	42,436	45,372
Sufficiency / (Deficiency)	6,228	6,136	5,960	5,686	5,265	4,632	3,816	2,791	1,523	(33)
Funding Ratios										
Current Assets (MVA)	\$975,315	\$1,035,141	\$1,096,693	\$1,159,239	\$1,222,441	\$1,286,253	\$1,350,709	\$1,415,441	\$1,480,361	\$1,545,217
Actuarial Accrued Liability (AAL)	944,741	1,011,746	1,081,493	1,153,360	1,227,153	1,302,967	1,380,954	1,460,881	1,542,801	1,626,601
Unfunded AAL	(30,574)	(23,395)	(15,199)	(5,879)	4,713	16,714	30,245	45,441	62,440	81,385
Funding Ratio	103.2%	102.3%	101.4%	100.5%	99.6%	98.7%	97.8%	96.9%	96.0%	95.0%
Benefit Payments	\$ 31,673	\$ 34,963	\$ 38,953	\$ 43,228	\$ 47,542	\$ 51,900	\$ 56,675	\$ 61,572	\$ 66,744	\$ 71,895
Ratio of Assets to Benefit Payments	30.79	29.61	28.15	26.82	25.71	24.78	23.83	22.99	22.18	21.49

Numbers may not add due to rounding.



Local Government Correctional Service Retirement Plan

Scenario: 6.0% Investment Return for All Years

Fiscal Year Beginning July 1

\$ in Thousands	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Contributions (% of Payroll)										
Statutory - Chapter 353E	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Required - Chapter 356 (MVA)	15.18%	15.87%	16.66%	17.58%	18.66%	19.95%	21.50%	23.39%	25.77%	28.81%
Sufficiency / (Deficiency)	(0.60)%	(1.29)%	(2.08)%	(3.00)%	(4.08)%	(5.37)%	(6.92)%	(8.81)%	(11.19)%	(14.23)%
Contributions										
Statutory - Chapter 353	\$ 46,756	\$ 48,208	\$ 49,702	\$ 51,244	\$ 52,833	\$ 54,482	\$ 56,180	\$ 57,929	\$ 59,729	\$ 61,583
Required - Chapter 356 (MVA)	48,691	52,461	56,783	61,784	67,628	74,546	82,837	92,948	105,551	121,707
Sufficiency / (Deficiency)	(1,935)	(4,253)	(7,081)	(10,540)	(14,795)	(20,064)	(26,657)	(35,019)	(45,822)	(60,124)
Funding Ratios										
Current Assets (MVA)	\$1,610,065	\$1,674,193	\$1,737,515	\$1,799,994	\$1,861,458	\$1,921,561	\$1,980,298	\$2,037,369	\$2,092,757	\$2,146,307
Actuarial Accrued Liability (AAL)	1,712,479	1,799,872	1,888,855	1,979,552	2,071,966	2,165,936	2,261,649	2,359,013	2,458,220	2,559,347
Unfunded AAL	102,414	125,679	151,340	179,558	210,508	244,375	281,351	321,643	365,464	413,040
Funding Ratio	94.0%	93.0%	92.0%	90.9%	89.8%	88.7%	87.6%	86.4%	85.1%	83.9%
Benefit Payments	\$ 77,772	\$ 83,727	\$ 89,712	\$ 95,862	\$ 102,336	\$ 108,793	\$ 115,512	\$ 122,201	\$ 128,991	\$ 135,660
Ratio of Assets to Benefit Payments	20.70	20.00	19.37	18.78	18.19	17.66	17.14	16.67	16.22	15.82

Numbers may not add due to rounding.



Local Government Correctional Service Retirement Plan

Scenario: 6.0% Investment Return for All Years

Fiscal Year Beginning July 1

\$ in Thousands	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
Contributions (% of Payroll)										
Statutory - Chapter 353E	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Required - Chapter 356 (MVA)	32.88%	31.56%	38.15%	49.13%	71.06%	136.82%	19.54%	20.23%	20.97%	21.77%
Sufficiency / (Deficiency)	(18.30)%	(16.98)%	(23.57)%	(34.55)%	(56.48)%	(122.24)%	(4.96)%	(5.65)%	(6.39)%	(7.19)%
Contributions										
Statutory - Chapter 353	\$ 63,500	\$ 65,460	\$ 67,472	\$ 69,544	\$ 71,669	\$ 73,864	\$ 76,121	\$ 78,448	\$ 80,839	\$ 83,293
Required - Chapter 356 (MVA)	143,188	141,699	176,556	234,323	349,313	693,126	102,015	108,853	116,280	124,365
Sufficiency / (Deficiency)	(79,689)	(76,239)	(109,083)	(164,779)	(277,644)	(619,262)	(25,894)	(30,405)	(35,441)	(41,072)
Funding Ratios										
Current Assets (MVA)	\$2,198,089	\$2,248,192	\$2,296,496	\$2,342,745	\$2,387,074	\$2,429,108	\$2,468,732	\$2,505,862	\$2,540,311	\$2,571,920
Actuarial Accrued Liability (AAL)	2,662,706	2,641,088	2,737,522	2,835,739	2,936,120	3,038,558	3,143,211	3,250,294	3,359,935	3,472,314
Unfunded AAL	464,617	392 <i>,</i> 896	441,026	492,994	549,046	609,450	674,479	744,432	819,623	900,394
Funding Ratio	82.6%	85.1%	83.9%	82.6%	81.3%	79.9%	78.5%	77.1%	75.6%	74.1%
Benefit Payments	\$ 142,204	\$ 148,807	\$ 155,606	\$ 162,214	\$ 169,126	\$ 176,085	\$ 183,047	\$ 190,114	\$ 197,243	\$ 204,599
Ratio of Assets to Benefit Payments	15.46	15.11	14.76	14.44	14.11	13.80	13.49	13.18	12.88	12.57

Numbers may not add due to rounding.



Local Government Correctional Service Retirement Plan

Scenario: 9.0% Investment Return for All Years
Fiscal Year Beginning July 1

\$ in Thousands	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Contributions (% of Payroll)										
Statutory - Chapter 353E	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Required - Chapter 356 (MVA)	11.85%	11.27%	10.65%	9.99%	9.28%	8.53%	7.73%	6.88%	5.97%	5.00%
Sufficiency / (Deficiency)	2.73%	3.31%	3.93%	4.59%	5.30%	6.05%	6.85%	7.70%	8.61%	9.58%
Contributions										
Statutory - Chapter 353	\$ 33,307	\$ 34,804	\$ 36,190	\$ 37,471	\$ 38,710	\$ 39,990	\$ 41,292	\$ 42,616	\$ 43,958	\$ 45,339
Required - Chapter 356 (MVA)	27,079	26,905	26,440	25,675	24,645	23,403	21,905	20,119	18,008	15,557
Sufficiency / (Deficiency)	6,228	7,898	9,750	11,796	14,065	16,587	19,387	22,497	25,951	29,782
Funding Ratios										
Current Assets (MVA)	\$975,315	\$1,064,420	\$1,159,652	\$1,260,719	\$1,367,738	\$1,481,162	\$1,601,562	\$1,729,153	\$1,864,480	\$2,007,968
Actuarial Accrued Liability (AAL)	944,741	1,011,746	1,081,493	1,153,360	1,227,153	1,302,967	1,380,954	1,460,881	1,542,801	1,626,601
Unfunded AAL	(30,574)	(52 <i>,</i> 674)	(78,159)	(107,358)	(140,585)	(178,194)	(220,608)	(268,272)	(321,679)	(381,367)
Funding Ratio	103.2%	105.2%	107.2%	109.3%	111.5%	113.7%	116.0%	118.4%	120.9%	123.5%
Benefit Payments	\$ 31,673	\$ 34,963	\$ 38,953	\$ 43,228	\$ 47,542	\$ 51,900	\$ 56,675	\$ 61,572	\$ 66,744	\$ 71,895
Ratio of Assets to Benefit Payments	30.79	30.44	29.77	29.16	28.77	28.54	28.26	28.08	27.93	27.93

Numbers may not add due to rounding.



Local Government Correctional Service Retirement Plan

Scenario: 9.0% Investment Return for All Years
Fiscal Year Beginning July 1

\$ in Thousands	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Contributions (% of Payroll)										
Statutory - Chapter 353E	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Required - Chapter 356 (MVA)	3.97%	2.87%	1.70%	0.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sufficiency / (Deficiency)	10.61%	11.71%	12.88%	14.13%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Contributions										
Statutory - Chapter 353	\$ 46,756	\$ 48,208	\$ 49,702	\$ 51,244	\$ 52,833	\$ 54,482	\$ 56,180	\$ 57,929	\$ 59,729	\$ 61,583
Required - Chapter 356 (MVA)	12,728	9,481	5 <i>,</i> 778	1,580	-	-	-	-	-	-
Sufficiency / (Deficiency)	34,027	38,727	43,924	49,665	52,833	54,482	56,180	57,929	59,729	61,583
Funding Ratios										
Current Assets (MVA)	\$2,160,414	\$2,321,904	\$2,493,204	\$2,675,212	\$2,868,768	\$3,074,621	\$3,293,958	\$3,527,768	\$3,777,438	\$4,044,344
Actuarial Accrued Liability (AAL)	1,712,479	1,799,872	1,888,855	1,979,552	2,071,966	2,165,936	2,261,649	2,359,013	2,458,220	2,559,347
Unfunded AAL	(447,936)	(522,031)	(604,350)	(695,660)	(796,802)	(908,685)	(1,032,308)	(1,168,755)	(1,319,218)	(1,484,997)
Funding Ratio	126.2%	129.0%	132.0%	135.1%	138.5%	142.0%	145.6%	149.5%	153.7%	158.0%
Benefit Payments	\$ 77,772	\$ 83,727	\$ 89,712	\$ 95,862	\$ 102,336	\$ 108,793	\$ 115,512	\$ 122,201	\$ 128,991	\$ 135,660
Ratio of Assets to Benefit Payments	27.78	27.73	27.79	27.91	28.03	28.26	28.52	28.87	29.28	29.81

Numbers may not add due to rounding.



Local Government Correctional Service Retirement Plan

Scenario: 9.0% Investment Return for All Years

Fiscal Year Beginning July 1

\$ in Thousands	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
Contributions (% of Payroll)										
Statutory - Chapter 353E	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Required - Chapter 356 (MVA)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Sufficiency / (Deficiency)	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%	14.58%
Contributions										
Statutory - Chapter 353	\$ 63,500	\$ 65,460	\$ 67,472	\$ 69,544	\$ 71,669	\$ 73,864	\$ 76,121	\$ 78,448	\$ 80,839	\$ 83,293
Required - Chapter 356 (MVA)	-	-	-	-	-	-	-	-	-	-
Sufficiency / (Deficiency)	63,500	65,460	67,472	69,544	71,669	73,864	76,121	78,448	80,839	83,293
Funding Ratios										
Current Assets (MVA)	\$4,330,217	\$4,636,963	\$4,966,218	\$5,319,594	\$5,699,230	\$6,107,197	\$6,546,040	\$7,018,567	\$7,527,749	\$8,076,859
Actuarial Accrued Liability (AAL)	2,662,706	2,768,645	2,877,113	2,987,881	3,101,075	3,216,582	3,334,552	3,455,190	3,578,618	3,705,012
Unfunded AAL	(1,667,511)	(1,868,318)	(2,089,104)	(2,331,713)	(2,598,155)	(2,890,615)	(3,211,487)	(3,563,377)	(3,949,131)	(4,371,847)
Funding Ratio	162.6%	167.5%	172.6%	178.0%	183.8%	189.9%	196.3%	203.1%	210.4%	218.0%
Benefit Payments	\$ 142,204	\$ 149,021	\$ 156,285	\$ 163,640	\$ 171,326	\$ 179,087	\$ 186,880	\$ 194,802	\$ 202,810	\$ 211,070
Ratio of Assets to Benefit Payments	30.45	31.12	31.78	32.51	33.27	34.10	35.03	36.03	37.12	38.27

Numbers may not add due to rounding.

