

Maine Public Employees Retirement System Consolidated Plan for Participating Local Districts

Actuarial Valuation Report as of June 30, 2015

Produced by Cheiron

October 2015

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October 27, 2015

Board of Trustees Maine Public Employees Retirement System PO Box 349 Augusta, Maine 04332-0349

Dear Members of the Board:

We are pleased to submit the June 30, 2015 Actuarial Valuation Report for the Consolidated Plan for Participating Local Districts (Plan) of the Maine Public Employees Retirement System (MainePERS). This report is for the use of the Public Employees Retirement Board and its auditors in preparing financial reports in accordance with applicable law and accounting requirements. This report contains information on assets, liabilities, and contributions of the Plan, as well as the required accounting statement disclosures under the Governmental Accounting Standards Board (GASB) Statement No. 67.

In preparing our report, we relied on information, some oral and some written, supplied by MainePERS staff. This information includes, but is not limited to, the plan provisions, member data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23.

The results of this report rely on future plan experience conforming to the underlying assumptions and methods outlined in this report. To the extent that the actual plan experience deviates from the underlying assumptions and methods, or there are any changes in plan provisions or applicable laws, the results would vary accordingly.

To the best of our knowledge, this report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices that are consistent with the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board. Furthermore, as credentialed actuaries we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this report. This report does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

This valuation was prepared for the Maine Public Employees Retirement System for the purposes described herein and for the use by the plan auditor in completing an audit related to the matters herein. Other users of this report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to any other user.

Sincerely, Cheiron

Gene Kalwarski, FSA, EA Principal Consulting Actuary Fiona E. Liston, FSA, EA Principal Consulting Actuary

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FOREWORD

Cheiron has completed the Actuarial Valuation Report of the Consolidated Plan for Participating Local Districts (Plan) of the Maine Public Employees Retirement System (MainePERS) as of June 30, 2015. The purpose of this report is to:

- 1) Measure and disclose, as of the valuation date, the financial condition of the Plan;
- 2) Indicate trends, both historical and prospective, in the financial condition of the Plan;
- 3) Determine the adequacy of the contribution rates to be paid by the PLDs for Fiscal Year (FY) 2017; and,
- 4) Provide specific information and documentation required for MainePERS's financial disclosures.

An actuarial valuation establishes and analyzes plan assets and liabilities on a consistent basis, and traces the progress of both from one year to the next. It includes measurement of investment performance as well as an analysis of actuarial liability gains and losses.

Section I presents a summary containing our key findings, disclosing important trends experienced by the Plan in recent years, and providing analysis relating to the future status of the Plan.

Section II contains details on various asset measures, together with pertinent performance measurements.

Section III shows similar information on liability measures for various purposes, including analysis of key changes in the measures.

Section IV develops the PLD contribution rates determined using actuarial techniques and compares those to the reduced corridor rates currently in place for each Regular and Special Plan.

Section V includes financial disclosure information.

Finally, at the end of this report we present appendices that contain a summary of the:

- Plan elections that have been made by the participating local districts (Appendix A);
- Plan membership information at the valuation date (Appendix B);
- Major benefit provisions of the Plan and the various Regular and Special Plans included in the Plan (Appendix C);
- Actuarial methods and assumptions used in the current valuation (Appendix D); and,
- Terminology used in the Governmental Accounting Standards Board (GASB) disclosures provided as a glossary (Appendix E).



SECTION I BOARD SUMMARY

General Comments

Most of the participating local districts (PLDs) in the State of Maine participate in this Consolidated Plan for PLDs (Plan). The Plan offers a number of plan choices from which each PLD can choose, with each benefit choice having its own cost associated with it to be paid by both the member and the PLD. The member costs are paid as rates that are set by statute and the Board and are applicable to payroll. The pooled PLD costs are paid as rates applicable to payroll determined using a corridor funding method. PLDs that entered the Plan with liabilities exceeding their assets also pay an additional amount relating to this unfunded liability until it is fully amortized.

Under the Plan's corridor funding approach, as long as the Plan's funded ratio (the ratio of actuarial value of assets to actuarial liability) remains within a corridor of 90% to 130%, the total pooled PLD contribution rate for each plan is fixed at the rate paid in the prior year. If the funded ratio falls outside of the corridor, the total pooled PLD contribution rate will be incrementally adjusted, but will never be less than a given minimum rate (75% of the PLD normal cost, which is the total normal cost rate reduced by the member contribution rate). The factor for incremental adjustments, when the funded ratio falls outside the corridor range, is 10% of the difference between the calculated rate under the Plan's funding method for each plan without the corridor and the rate for that plan then in effect.

The total pooled PLD contribution rate discussed above is defined as the sum of the total normal cost rate, reduced by the member contributions to produce the PLD normal cost, and a 20-year, layered amortization of the Pooled Unfunded Actuarial Liability (PUAL). In addition to this total pooled PLD contribution rate, many PLDs are making additional contributions to reduce their Individual Unpooled Unfunded Actuarial Liability (IUUAL) due to entering the Plan with liabilities exceeding assets.

Experience from July 1, 2014 through June 30, 2015 (Fiscal Year 2015)

As of this June 30, 2015 valuation, the funded ratio for the Plan is 89.4%. Since this funded ratio is less than 90%, the corridor calculation requires an adjustment. Over the last six years, the aggregate corridor rate has been increasing from 3% of payroll to 9% of payroll, and it is expected to increase to 9.5% in Fiscal Year (FY) 2017. This 0.5% increase from the FY 2016 aggregate corridor rate is sufficient to cover the required corridor adjustment under the Plan's corridor funding method based on this June 30, 2015 valuation.

There was a change in the investment rate of return assumption this year from 7.25% to 7.125%. This change was made in the other MainePERS Programs with the 2014 valuation, but is first being recognized in the PLD Consolidated Plan this year. In addition to this change, those PLDs who had an IUUAL Surplus account received a refund of that account during FY 2015. As a result, there will be no more IUUAL surplus payments reflected beginning with this valuation report. Finally, the amortization methodology for the PUAL was changed from a fifteen-year



SECTION I BOARD SUMMARY

open level dollar method to a method where a separate twenty-year closed period is established annually for the gain or loss in that year with these amortizations being developed as a level percentage of payroll and amortizing the existing PUAL at the time of this change, July 1, 2015, over a closed fifteen-year period beginning on this date.

The market value of assets (MVA) for all of the defined benefit plans administered by MainePERS returned a positive 1.80% return this year, which was below the actuarial assumption of 7.125%. On an actuarial value of assets (AVA) basis, the assets returned 6.45% compared to the assumed rate of return of 7.125%. This return thus produced an asset loss on an AVA basis of \$15.8 million on the portion of the total MainePERS defined benefit assets that relate to this Plan.

The measurement of the liability used for funding purposes for this Plan, the actuarial liability, produced a gain this year in the amount of \$54.6 million. The change in the investment rate of return assumption during this year resulted in an increase in the liability used for funding purposes of \$37.6 million.

The combined effect of these components produced a net gain of \$1.2 million for the Plan over the year ending on the current June 30, 2015 valuation date. This gain, combined with the continued ramp up of corridor contribution rates towards the calculated contribution rates was sufficient to result in the Plan's AVA funded ratio, AVA over actuarial liability, decreasing only slightly from 89.5% as of June 30, 2014 to 89.4% as of June 30, 2015.

The remainder of this section summarizes the Plan's trends, provides projections of the Plan's future status, and summarizes the principal results of this year's valuation.

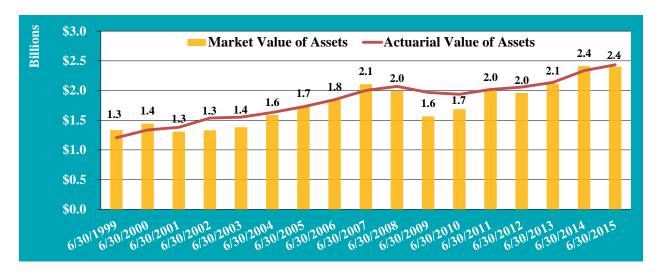
Trends

It is important to take a step back from the latest results and view them in the context of the Plan's history. On the next few pages, we present a series of graphs that display key historical trends in the Plan's condition. Following this historical review, we present projections of the probable condition of the Plan in the future under various market return scenarios.



SECTION I BOARD SUMMARY

Growth in Assets



The graph above illustrates how well the Plan's actuarial smoothing method has insulated it from market volatility, as seen by the relative smoothness of the actuarial values of assets, the red line, relative to the market values of assets, the gold bars. Additionally, it demonstrates how there has generally been an upward trend for both the market value and the actuarial value of assets since 1999. The few exceptions are the years immediately following the severe market declines in the early and late 2000s.

Assets and Liabilities



This next graph illustrates the progress of assets against liabilities for the Plan since June 30, 1999. The blue bars represent the present value of accrued benefits (PVAB) as of the valuation date. Using this liability measure, the Plan is fully funded when applying either the market value of assets or the actuarial value of assets at the current valuation date.

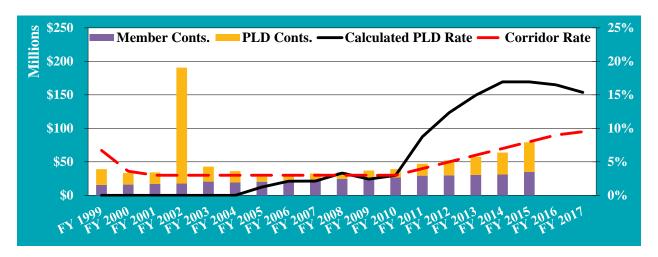


SECTION I BOARD SUMMARY

The actuarial liability (AL), the liability measure used for funding purposes, is represented by the top of the grey bars. The actuarial value of assets (AVA) divided by this measure of liability is the AVA funded ratio used in evaluating the Plan's financial status. These values as of each valuation date shown are the percentages shown in the graph labels.

This graph also illustrates that the Plan had its highest AVA funded ratio (117%) at June 30, 2002, which was just after several PLDs paid off their IUUALs. Since then, the funded ratio has generally declined, but last year increased for the first time in seven years, to 89.5%. This year, the funded ratio declined slightly from this high point to 89.4%.

Contributions



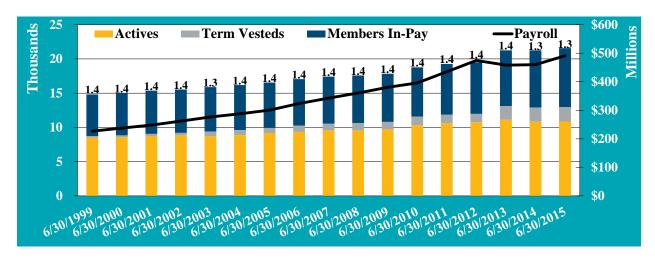
The graph above shows the history of contributions to the Plan, both as dollar amounts and as percentages of payroll. The stacked bars in this graph show the contributions made by both the PLDs and their members in dollar terms for each Fiscal Year (FY) since 1999 and are read using the left-hand axis. The black line shows the aggregate actuarially calculated PLD contribution rate as a percentage of payroll, while the red dotted line shows the aggregate corridor contribution rate that is actually being paid. Both the red and the black line are read using the right-hand axis. The recent significant increase in the calculated rate was due primarily to investment losses sustained in the 2008-09 plan year. The increases in the corridor rate combined with plan changes has been working to close the gap between these two rates and are expected to continue to do so. Since there is a lag between the calculation of a contribution rate and the year in which it applies, we are showing two additional years of the contribution rates than the actual contribution dollar amounts shown above.



SECTION I BOARD SUMMARY

The member contribution rate is set by statute and by the Board, based on the Regular or Special Plan in which the member participates. The calculated total pooled PLD contribution rate is set by the annual actuarial valuations, with this June 30, 2015 valuation determining the FY 2017 employer rates, and varies according to the plan in which the covered members of the PLD participate. The actual paid corridor total pooled PLD contribution rate is determined based on the Plan's AVA funded ratio, the rate for the prior year, and the calculated rate. In addition, some PLDs pay an additional IUUAL contribution. Note that the large dollar amount contributed in FY 2002 by the PLDs in the graph above was due to several PLDs paying off their IUUAL amounts.

Participant Trends



The stacked bars in the graph above show the number of actives, terminated vested, and members in-pay status covered by the Plan as of each valuation date and is read using the left-hand axis of the graph. The black line indicates the total covered payroll of actives in the Plan and is read using the right-hand axis of the graph. The use of a revised data collection process leads to the reduction in the covered payroll as of June 30, 2014 compared to the previous valuation. The payroll for the current valuation increased very slightly over that of that June 30, 2014 valuation.

There has been about 1.3% per year growth in the active and a 2.2% per year growth in the in-pay members counts of the Plan over the time period shown. The terminated vested group has shown the most growth, averaging 14.3% per year over this period.

As with many plans in this country, there has been a steady growth in the number of members in-pay status as the Plan has matured. The labels above each bar in the graph above indicate the ratio of inactive members per active member. While this ratio has been reasonably stable for the Plan since 1999, this ratio may start declining as more and more "baby boomers" retire. While a



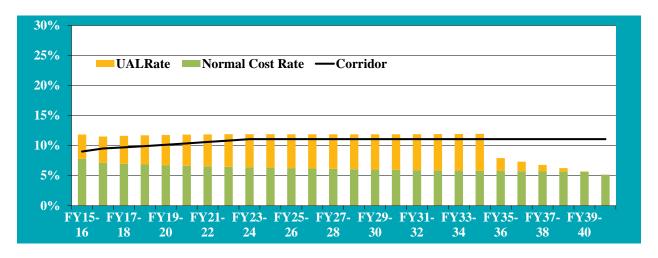
SECTION I BOARD SUMMARY

declining ratio would be a concern in a plan with no prefunding, in the Plan's case, it just indicates that there may be difficulty in recovering from an investment loss since assets are lost on all covered liabilities, but contributions only come in on the basis of payroll. The more negative a plan's cash flows, the more sensitive, in terms of contribution volatility, the plan is to volatile investment markets. The valuation process takes this trend into account, and the projections on the next few pages show that the assets are expected to be sufficient to meet this growing cash flow disparity.

Projections

Our analysis of the projected financial trends for the Plan is an important part of this valuation. In this section, we present sensitivity analysis of future valuation results in terms of benefit security, the previously referenced AVA funded ratio (AVA over AL), and the expected PLD contribution rates. We first present a baseline projection of these future results based on all actuarial assumptions being exactly met during the projection period, including the assumed 7.125% investment rate of return being achieved each year. We then present the same projections based on keeping all assumptions exactly met except for having investment earnings 1% above and 1% below the assumed 7.125% return. The primary purpose of presenting these projections is to demonstrate how sensitive future valuation results are to deviations from our investment return expectations.

Baseline Projections

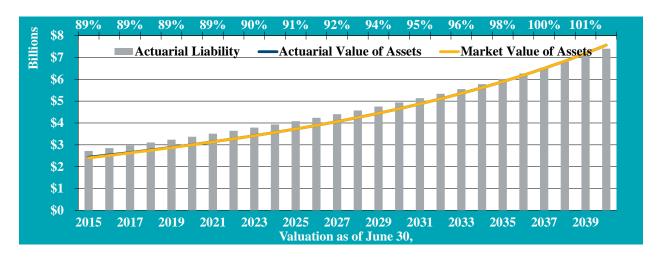


The graph above shows the expected progress of the Plan's contribution rates over the next 25 years assuming that the Plan's assets earn 7.125% on their *market value*, showing that as the UAL is paid down over time, the corridor contribution rate catches up to, and then exceeds, the total calculated rate. Both rates are shown as those being in effect for the fiscal year identified.



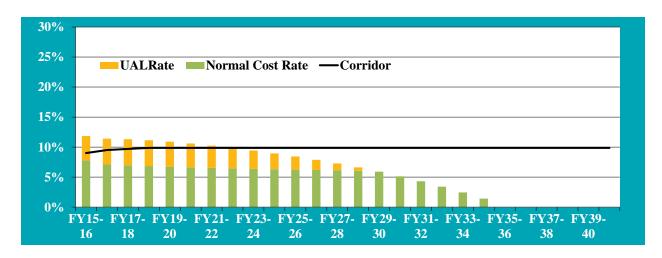
SECTION I BOARD SUMMARY

The graph that follows shows the projected funded ratio (AVA divided by AL) over the next 25 years in this baseline scenario. It shows that the Plan's funded ratio is projected to increase and reach 100% funding by 2038. The amounts shown are as of June 30 of the year identified in the horizontal axis.



Of course this projection assumes all assumptions are exactly met in each and every year. Since that is not likely to occur, we also show projections based on optimistic and pessimistic assumptions for the rate of return.

Projections with Asset Returns of 8.125%



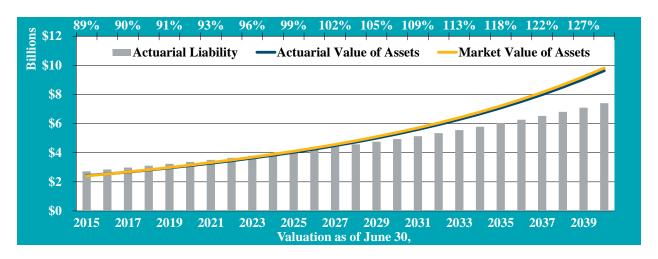
The future funding status of this Plan will be significantly driven by investment earnings as relatively minor changes in the market returns can have significant effects on the Plan's funding status. The graph above shows that with an 8.125% annual return in each year while exactly meeting all other assumptions, the aggregate calculated contribution rate produced by the valuation process would decrease to zero, while the corridor method rate would quickly stabilize



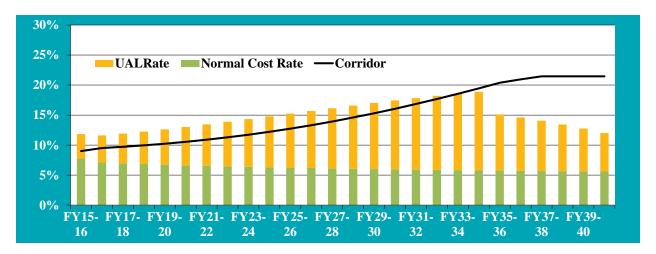
SECTION I BOARD SUMMARY

and remain level through the projection period. Once the Plan reaches 130% funded, the top of the corridor for the corridor funding method, at a date beyond the end of this projection, the corridor rate would also begin to step down, but would not go below the minimum total pooled PLD contribution level of 75% of PLD normal cost.

Assuming the same 8.125% return on investments scenario, this next graph shows that the Plan's funded ratio steadily increases from 89% to 127% by the end of the period shown, compared to 101% at the end of the baseline scenario.



Projections with Asset Returns of 6.125%

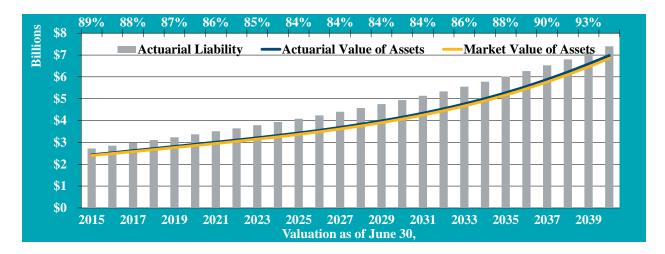




SECTION I BOARD SUMMARY

Just as returns in excess of the rate of return assumption will lead to declining contributions and an improved funded ratio, the opposite will occur if actual investment earnings are below the assumed rate. The graph above shows the contribution projection under a 6.125% annual return scenario, continuing to meet all other assumptions exactly. The calculated total pooled PLD contribution climbs as it reflects the 6.125% returns not meeting assumptions. The corridor rate also climbs and then holds at the level reached when it reenters the corridor (90% funded). That rate as of reentering the corridor will not decline until the Plan's funded ratio reaches the 130% top of the corridor and the corridor funding method again permits it to decline.

The next graph shows that the Plan's funded ratio in this 6.125% rate of return scenario would fall as low as 84% before starting to rebound as contributions subject to the corridor funding method ramp up, with a funded ratio of 93% at the end of the projection period in contrast to the equivalent baseline scenario value of 101%.



Principal Results Summary

The balance of this Board Summary section of the actuarial valuation report presents a summary of the principal results of the valuation, comparing key results between this year's valuation and last year's for member counts, assets and liabilities, and contribution rates. These summary results are shown for the total Consolidated Plan and then for the Regular Plans subgroup and the Special Plans subgroup.



SECTION I BOARD SUMMARY

	Table I-1 mmary of Principal Re Consolidated Retireme		
T ELE	Total		
Valuation as of:	June 30, 2014	June 30, 2015	% Change
Member Counts	,	,	J
Active Members	10,848	10,870	0.2%
Retired Members	5,853	6,061	3.6%
Beneficiaries of Retired Members	1,898	1,947	2.6%
Survivors of Deceased Members	174	167	(4.0%)
Disabled Members	408	406	(0.5%)
Terminated Vested Members	2,071	2,112	2.0%
Inactives Due Refunds	6,061	6,341	4.6%
Total Membership	27,313	27,904	2.2%
Annual Payroll of Active Members*	\$ 460,029,637	\$ 490,974,092	6.7%
Annual Payments to Benefit Recipients	\$ 123,149,154	\$ 130,647,324	6.1%
Assets and Liabilities			
Actuarial Liability (AL)	\$ 2,609,657,845	\$ 2,720,936,009	4.3%
Actuarial Value of Assets (AVA)	2,335,852,543	2,433,186,149	4.2%
Unfunded Actuarial Liability (UAL)	\$ 273,805,301	\$ 287,749,860	5.1%
Individual Portion (IUUAL)	4,704,974	3,618,300	(23.1%)
Pooled Portion (PUAL)	\$ 269,100,327	\$ 284,131,560	5.6%
AVA Funded Ratio (AVA/AL)	89.5%	89.4%	
MVA Funded Ratio (MVA/AL)	92.4%	88.3%	
Accrued Benefit Liability (PVAB)	\$ 2,331,303,883	\$ 2,432,356,813	4.3%
Market Value of Assets (MVA)	2,410,493,388	2,401,889,308	(0.4%)
Unfunded PVAB**	\$ 0	\$ 30,467,505	
Accrued Benefit Funded Ratio	103.4%	98.7%	
PLD Contribution Rate	FY 2016	FY 2017	
PLD Normal Cost Rate	8.9%	7.8%	
Pooled UAL Rate	6.5%	4.1%	
Total Calculated PLD Rate	15.4%	11.9%	
Corridor PLD Rate	9.0%	9.5%	

^{*}For FY 2016



^{**}Limited to be not less than \$0

SECTION I BOARD SUMMARY

	Table I-2 Immary of Principal Re Consolidated Retireme		
	egular Plans: AC, AN &		
Valuation as of:	June 30, 2014	June 30, 2015	% Change
Member Counts			8
Active Members	8,311	8,327	0.2%
Retired Members	4,530	4,764	5.2%
Beneficiaries of Retired Members	1,317	1,359	3.2%
Survivors of Deceased Members	151	145	(4.0%)
Disabled Members	321	316	(1.6%)
Terminated Vested Members	1,826	1,878	2.8%
Inactives Due Refunds	5,729	6,049	5.6%
Total Membership	22,185	22,838	2.9%
Annual Payroll of Active Members*	\$ 317,637,402	\$ 340,922,053	7.3%
Annual Payments to Benefit Recipients	\$ 77,002,863	\$ 83,660,000	8.6%
Assets and Liabilities			
Actuarial Liability (AL)	\$ 1,622,011,628	\$ 1,727,472,447	6.5%
Actuarial Value of Assets (AVA)	1,434,263,826	1,529,554,019	6.6%
Unfunded Actuarial Liability (UAL)	\$ 187,747,802	\$ 197,918,428	5.4%
Individual Portion (IUUAL)	2,376,858	1,670,613	(29.7%)
Pooled Portion (PUAL)	\$ 185,370,944	\$ 196,247,815	5.9%
AVA Funded Ratio (AVA/AL)	88.4%	88.5%	
MVA Funded Ratio (MVA/AL)	91.3%	87.4%	
Accrued Benefit Liability (PVAB)	\$ 1,456,639,153	\$ 1,559,579,407	7.1%
Market Value of Assets (MVA)	1,480,094,914	1,509,880,139	2.0%
Unfunded PVAB**	\$ 0	\$ 49,699,268	
Accrued Benefit Funded Ratio	101.6%	96.8%	
PLD Contribution Rate	FY 2016	FY 2017	
PLD Normal Cost Rate	9.0%	7.9%	
Pooled UAL Rate	6.5%	4.1%	
Total Calculated PLD Rate	15.5%	12.0%	
Corridor PLD Rate	8.7%	9.3%	

^{*} For FY 2016



^{**}Limited to be not less than \$0

SECTION I BOARD SUMMARY

Table I-3						
Summary of Principal Results						
PLD Consolidated Retirement Plan						
	ecial Plans: 1C-4C & 1N-4N					
Valuation as of:	June 30, 2014	June 30, 2015	% Change			
Member Counts						
Active Members	2,537	2,543	0.2%			
Retired Members	1,323	1,297	(2.0%)			
Beneficiaries of Retired Members	581	588	1.2%			
Survivors of Deceased Members	23	22	(4.3%)			
Disabled Members	87	90	3.4%			
Terminated Vested Members	245	234	(4.5%)			
Inactives Due Refunds	332	<u>292</u>	(12.0%)			
Total Membership	5,128	5,066	(1.2%)			
Annual Payroll of Active Members*	\$ 142,392,235	\$ 150,052,039	5.4%			
Annual Payments to Benefit Recipients	\$ 46,146,291	\$ 46,987,324	1.8%			
Assets and Liabilities						
Actuarial Liability (AL)	\$ 987,646,217	\$ 993,463,562	0.6%			
Actuarial Value of Assets (AVA)	901,588,716	903,632,130	0.2%			
Unfunded Actuarial Liability (UAL)	\$ 86,057,501	\$ 89,831,432	4.4%			
Individual Portion (IUUAL)	2,328,117	1,947,687	(16.3%)			
Pooled Portion (PUAL)	\$ 83,729,384	\$ 87,883,745	5.0%			
AVA Funded Ratio (AVA/AL)	91.3%	91.0%				
MVA Funded Ratio (MVA/AL)	94.2%	89.8%				
Accrued Benefit Liability (PVAB)	\$ 874,664,730	\$ 872,777,406	(0.2%)			
Market Value of Assets (MVA)	930,398,473	892,009,169	(4.1%)			
Unfunded PVAB**	\$ 0	\$ 0	(, , , ,			
Accrued Benefit Funded Ratio	106.4%	102.2%				
PLD Contribution Rate	FY 2016	FY 2017				
PLD Normal Cost Rate	8.6%	7.6%				
Pooled UAL Rate	6.6%	4.1%				
Total Calculated PLD Rate	15.2%	11.7%				
Corridor PLD Rate	9.9%	10.1%				

^{*} For FY 2016



^{**}Limited to be not less than \$0

SECTION II ASSETS

Pension plan assets play a key role in the financial operation of plans and in the decisions Trustees make with respect to future deployment of those assets. The level of assets, the allocation of assets among asset classes, and the methodology used to measure assets will likely impact benefit levels, PLD contribution rates, and the ultimate security of members' benefits.

The assets for all defined benefit (DB) programs administered by MainePERS are invested together. These programs are the State Employee and Teacher Retirement Program, the Judicial Retirement Program, the Legislative Retirement Program, and the Participating Local District Retirement Program, including both the Consolidated Plan that is the subject of this valuation and the several Nonconsolidated PLDs. The assets of all of these programs are entirely commingled for investment purposes, so the actuarial value of assets (AVA) for each of these programs is developed by first developing it for the entire asset pool and then subsequently allocating that total AVA to each of the specific programs.

In this section, we present detailed information on Plan assets including:

- Disclosure of total MainePERS DB assets at June 30, 2014 and June 30, 2015
- Statement of the changes in total MainePERS DB market values during the year;
- Development of the total MainePERS DB actuarial value of assets;
- Allocation of total actuarial value to MainePERS DB sub-plans;
- Assessment of the total MainePERS DB investment performance; and,
- Projection of expected cash flows for the Plan for the next ten years.

Disclosure

The market value of assets (MVA) represents a "snap-shot" or "cash-out" value, which provides the principal basis for measuring financial performance from one year to the next. However, market values can fluctuate widely with corresponding swings in the marketplace, resulting in volatility in the resulting contributions if the unadjusted market value is used in the valuation process. Therefore, a smoothed, actuarial value is developed for use in this process and for evaluating the Plan's ongoing ability to meets its obligations.

Current actuarial methods employed in this Plan use an allocated portion of the actuarial value of assets developed for the total MainePERS DB assets. The actuarial methodology used for the total assets sets the actuarial value of assets equal to the expected value of the actuarial value of assets plus one-third of the difference between the actual market value of assets and the expected actuarial value of assets all as of the valuation date. The expected value of the actuarial value of assets takes the prior year's actuarial value of assets and adjusts it for contributions, benefit payments, and expected interest earnings at the investment return assumption that was in effect for the previous year, 7.125% for this valuation.

Table II-1 below develops the change in the market value of assets for the total MainePERS DB assets during FY 2015.



SECTION II ASSETS

Changes in Market Value o	of To	Table II-1	Define	ed Benefit (DB)	Ass	ets
Market Value of Total MainePERS DB				(22)		12,898,321,939
<u>Additions</u>						
Contributions:						
Employer Contributions	\$	365,886,167				
Member Contributions		161,569,243				
Transfers		(5,355)	φ.			
Total Contributions			\$	527,450,055		
Investment Income:						
Net Appreciation (Depreciation) in						
Fair Value of Investments	\$	294,468,581				
Interest on Bank Balances	_	105,896				
Total Investment Income	\$	294,574,477				
Investment Activity Expenses:						
Management Fees	\$	(51,359,116)				
Investment Related Expense		(3,351,547)				
Banking Fees		(34,971)				
Total Investment Activity Expenses	\$	(54,745,634)				
Net Income from Investing Activities			\$	239,828,843		
Total Additions					\$	767,278,898
Deductions						
Retirement Benefits	\$	(782,698,209)				
Disability Benefits		(34,865,317)				
Survivor Benefits		(21,546,043)				
Refunds		(68,482,431)				
Administrative Expenses		(11,125,637)				
Total Deductions					\$	(918,717,637)
<u>Total</u>						
Net Increase (Decrease)					\$	(151,438,739)
Market Value of Total MainePERS DB	Ass	sets – June 30, 20)15		\$	12,746,883,200



SECTION II ASSETS

Table II-2 below develops the actuarial value of assets for the Total MainePERS DB assets as of June 30, 2015 using the adopted actuarial valuation methodology.

	Table II-2 Development of Actuarial Value of Total MainePERS Defi (DB) Assets as of June 30, 2015	ned I	Benefit
1.	Actuarial Value of Total MainePERS DB Assets at June 30, 2014	\$	12,498,925,846
2.	Amount in (1) with Interest to June 30, 2015		13,389,474,313
3.	Employer and Member Contributions for FY 15		527,450,055
4.	Interest on Contributions in (3), Assuming Received Uniformly Throughout FY 15		18,467,122
5.	Total Disbursements without without Administrative Expenses for FY 15		(907,592,000)
6.	Interest on Disbursements in (5), Assuming Payments Made Uniformly throughout FY 15		(31,776,681)
7.	Expected Value of Total MainePERS DB Assets at June 30, 2015 $= (2) + (3) + (4) + (5) + (6)$	\$	12,996,022,809
8.	Actual Market Value of Total MainePERS DB Assets at June 30, 2015		12,746,883,200
9.	Excess of (8) Over (7)		(249,139,609)
	Recognition of Past Deferred Asset Gains	_	0
11.	Actuarial Value of Total MainePERS DB Assets at June 30, 2015 = $(7) + 33\frac{1}{3}\%$ of $[(9) + (10)]$	\$	12,912,976,273

Actuarial Value of Total MainePERS DB Assets

As discussed in the disclosure portion of this section, the actuarial value of assets for the Plan represents a "smoothed" value developed by the actuary to reduce, or eliminate, volatility in contribution rates that could develop from short-term fluctuations in the market value of assets. Current actuarial methods employed in this Plan use an allocated portion of the actuarial valuation process applied to the total MainePERS DB assets. This methodology for the total MainePERS DB assets sets the actuarial value of assets equal to the expected value of the actuarial value of assets plus one-third of the difference between the actual market value of assets and the expected actuarial value of assets. The expected value of the actuarial value of assets takes the prior year's actuarial value of assets and adjusts it for contributions, benefit payments, and expected interest earnings at the investment return assumption that was in effect for the previous year, 7.125% for this valuation. The previous table, Table II-2, illustrates the



SECTION II ASSETS

calculation of the actuarial value of assets for the total MainePERS DB assets as of June 30, 2015.

Allocation of Actuarial Value of Assets to the Plan

The assets for all of the defined benefit plans administered by MainePERS are commingled for investment purposes, with the adopted actuarial smoothing methodology applied to the market value of the total MainePERS DB assets. This produces an asset ratio (total MainePERS actuarial value of assets divided by total MainePERS market value of assets) that is then applied to the market value of assets attributable to each of the programs to determine their actuarial value of assets as of the valuation date. The asset ratio derived in this June 30, 2015 valuation as shown in Table II-2 above is 1.013030 (\$12,912,976,273 ÷ \$12,746,883,200). The allocation of actuarial value of the total MainePERS DB assets to each of the MainePERS DB programs based on this asset ratio is shown in the following chart.

Table II-3 Allocation of Actuarial Value of Total MainePERS DB Assets as of June 30, 2015							
	Market Value	Actuarial Value					
Teachers	\$ 6,858,619,082	\$ 6,947,987,526					
State (Regular & Special)	3,383,477,940	3,427,564,972					
Judges	56,340,825	57,074,951					
Legislators	11,075,564	11,219,880					
Participating Local Districts (Consolidated & Non-Consolidated)	2,437,369,789	2,469,128,944					
Total	\$ 12,746,883,200	\$12,912,976,273					

Investment Performance

The market value of assets for the total MainePERS DB assets returned a positive 1.80% during FY 2015. This is lower than the assumed return of 7.125%. The equivalent returns in FY 2014 and FY 2013 were positive 16.85% and positive 11.20%, respectively.

On an actuarial value of assets basis, the return for FY 2015 for the total MainePERS DB assets was a positive 6.45%. This return is higher than the return on a market value basis, but still lower than the 7.125% assumption. Therefore, this return gave rise to an investment loss on the total MainePERS DB assets this year of which the Plan experienced a portion.



SECTION II ASSETS

Cash Flow Projections

In Table II-4 below, we provide a projection of expected cash flows in and out of the Plan over the next ten years for informational purposes. The Board may share these projections with its investment advisor for consideration of the growing gap shown between the cash coming into the Plan through PLD and member contributions and the cash being paid out of the Plan to provide benefit payments.

Table II-4 Projection of Plan's Benefit Payments and Contributions							
FY Ending	Expected	Expected Pooled PLD Contributions (based on Corridor Method)	Expected	Total			
June	Benefit	Plus IUUAL	Member	Expected			
30,	Payments	Payments	Contributions	Contributions			
2016	\$ 141,068,000	\$ 44,954,000	\$ 38,111,000	\$ 83,065,000			
2017	151,225,000	49,113,000	42,030,000	91,143,000			
2018	160,782,000	51,904,000	43,501,000	95,405,000			
2019	170,127,000	54,890,000	45,024,000	99,914,000			
2020	178,995,000	58,072,000	46,599,000	104,671,000			
2021	187,838,000	61,449,000	48,230,000	109,679,000			
2022	197,155,000	65,026,000	49,918,000	114,944,000			
2023	206,073,000	68,802,000	51,666,000	120,468,000			
2024	215,178,000	72,778,000	53,474,000	126,252,000			
2025	224,290,000	75,326,000	55,346,000	130,672,000			

The expected benefit payments in Table II-4 were developed using the data of those currently included in this valuation and on the assumption that the actuarial assumptions disclosed in Appendix D will be exactly met. Actual benefit payments will vary if members retire sooner or later than assumed, if salary increases and actual future post-retirement COLAs differ from those assumed, or if other assumptions differ from the actual experience seen. These benefit projections exclude any assumption about new plan participants, whose experience will eventually lead to increased benefit payments. However, we do not feel this exclusion will materially impact the projections for the time period shown.



SECTION II ASSETS

Expected PLD contributions in this table are based on the current covered payroll, the anticipated IUUAL payments, and the anticipated aggregate total pooled PLD contribution rates developed using the corridor funding method. Future contribution increases as stored asset losses are picked up by the smoothing method in developing this projection. We have assumed that payroll will increase by 3.50% per year in the projection period.

The expected member contributions are similarly based on a 3.50% per year increase in covered payroll combined with the average aggregate member contribution rate of 7.63% for FY 2016, and the anticipated 0.5% increase for FY 2017.



SECTION III LIABILITIES

In this section, we present detailed information on plan liabilities including:

- Disclosure of plan liabilities at June 30, 2014 and June 30, 2015; and,
- Statement of changes in these liabilities during the year.

Disclosure

Several types of liabilities are calculated and presented in this report. Each type is distinguished by the purpose for which the figures are ultimately used.

- Present Value of Future Benefits (PVB): Used for analyzing the overall financial obligations of the Plan, this represents the amount of money needed today to fully pay off all future benefits of the Plan, assuming active participants continue to earn salary increases and accrue benefits under their current plan provisions and assuming all actuarial assumptions are exactly met, including the 7.125% per year investment return.
- Actuarial Liability (AL): Used for funding calculations and GASB disclosures, this liability is calculated taking PVB above and subtracting the value of accruals that are assigned to future years on a person-by-person basis. This offset is equal to the present value of future member contributions and future PLD normal cost contributions under an acceptable actuarial funding method. For this Plan and the other MainePERS defined benefit plans, this method is referred to as the entry age normal (EAN) funding method.
- Present Value of Accrued Benefits (PVAB): Used for communicating the liabilities for benefits accrued as of the valuation date.

Table III-1 below discloses each of these liabilities for the current and prior years' valuations. With respect to the actuarial liability and the present value of accrued benefits, a subtraction of the appropriate value of plan assets yields, for each respective type, a net surplus or an unfunded liability.

We note that none of the liabilities presented in this report is an appropriate measure of the settlement liability.

The present value of future benefits (PVB) is compared to the current market value of assets, the expected future value of member contributions, and the expected future value of total PLD contributions assuming the corridor rate remains constant. The difference between the PVB and these anticipated resources indicates either an expected shortfall or an expected surplus representing either additional funding or excess funding required on the payroll of new hires to pay for benefits of existing members.



SECTION III LIABILITIES

Table III-1								
Disclosure of Liabilities								
	J	une 30, 2014	J	une 30, 2015				
Present Value of Benefits (PVB)								
Active Member	\$	1,656,867,865	\$	1,689,053,989				
Retired, Disabled, and Beneficiary Members		1,366,128,224		1,445,264,541				
Terminated Vested & Inactive Members		95,903,604		98,268,262				
Total PVB	\$	3,118,899,693	\$	3,232,586,792				
Market Value of Assets (MVA)	\$	2,410,493,388	\$	2,401,889,308				
Future Member Contributions		232,911,489		277,113,276				
Future PLD Contributions at								
Fixed Rate*		304,910,110		343,266,909				
Projected (Surplus)/Shortfall		170,584,706		210,317,299				
Total Resources	\$	3,118,899,693	\$	3,232,586,792				
Actuarial Liability (AL)								
Present Value of Benefits (PVB)	\$	3,118,899,693	\$	3,232,586,792				
Present Value of Future Normal Costs (PVFNC)								
PLD Portion		276,330,358		234,537,507				
Member Portion		232,911,489		277,113,27 <u>6</u>				
Actuarial Liability (AL = PVB – PVFNC)	\$	2,609,657,846	\$	2,720,936,009				
Actuarial Value of Assets (AVA)		2,335,852,543		2,433,186,149				
Net (Surplus)/Unfunded (AL $-$ AVA)	\$	273,805,302	\$	287,749,860				
Present Value of Accrued Benefits								
Present Value of Benefits (PVB)	\$	3,118,899,693	\$	3,232,586,792				
Present Value of Future Benefit Accruals (PVFBA)	_	787,595,810		800,229,979				
Accrued Liability (PVAB = PVB – PVFBA)	\$	2,331,303,883	\$	2,432,356,813				
Market Value of Assets (MVA)		2,410,493,388	_	2,401,889,308				
Net (Surplus)/Unfunded (PVAB – MVA)	(\$	79,189,505)	\$	30,467,505				

^{*} Assumed fixed rates are 9.0% in FY 2016 and 9.5% for FY 2017 and all years after that.



SECTION III LIABILITIES

Changes in Liabilities

Each of the liabilities disclosed in the prior table is expected to change at each subsequent valuation. The components of these changes, depending upon which liability is analyzed, can include:

- New plan participants since the last valuation
- Benefits accrued since the last valuation
- Plan amendments changing benefits since the last valuation
- Passage of time, which adds interest to the prior liability
- Benefits paid to retirees since the last valuation
- Participants retiring, terminating, or dying at rates different than expected since the last valuation
- A change in actuarial assumptions since the last valuation
- A change in the actuarial funding method since the last valuation

Unfunded liability measurements will change as a result of all of the above, as well as due to changes in Plan asset measurements resulting from:

- PLD contributions being different than expected
- Investment earnings being different than expected
- A change in the method used to measure Plan assets in developing the unfunded liability measure since the last valuation

In each valuation, we report on those elements of change in Plan liability measures that are of particular significance, potentially affecting the long-term financial outlook of the Plan. In Table III-2 below, we present key changes in Plan liability measures since the last valuation.

		Table III-2 sent Value of ture Benefits	Actuarial Liability	resent Value of acrued Benefits
Liability Measurement - 06/30/2014	\$.	3,118,899,693	\$ 2,609,657,846	\$ 2,331,303,883
Liability Measurement - 06/30/2015		3,232,586,792	 2,720,936,009	 2,432,356,81 <u>3</u>
Liability Measurement Increase	\$	113,687,099	\$ 111,278,163	\$ 101,052,930
(Decrease) Due to:				
Plan Amendment	\$	0	\$ 0	\$ 0
Assumption Change		56,148,207	37,593,598	32,800,185
Actuarial (Gain)/Loss		N/C	\$ (54,634,906)	N/C
Benefits Accumulated				
and Other Sources	\$	57,538,892	\$ 128,319,471	\$ 68,252,745

N/C = Not calculated



SECTION IV CONTRIBUTIONS

General Comments

Under established procedures, PLD contribution rates based on this June 30, 2015 Actuarial Valuation Report are used to determine Fiscal Year 2017 contributions. In this context, the term "PLD contribution rate" means the percentage that is applied by each PLD to its active member payroll to determine the PLD's actual employer contribution amount.

In addition to the applicable PLD contribution rate, each individual PLD will make a dollar payment based on its Initial Unpooled Unfunded Actuarial Liability (IUUAL), if any, to be added to the amount derived by applying the applicable PLD contribution rate to the active member payroll.

Active members are required to contribute to the Plans. Member contribution rates are detailed in Appendix C.

Description of Rate Components

The entry age normal funding method was used to develop the PLD contribution rates in this section. Under this funding method, as with most other actuarial funding methods, a total contribution rate is determined which consists of two elements: the normal cost rate and the pooled unfunded actuarial liability rate. A separate rate is developed for each of the Regular and Special Plans in the Consolidated Plan. These plans are listed in Appendix C along with the relevant plan provisions for each Regular and Special Plan in the Consolidated Plan.

Normal Cost Rate

For each of the Regular and Special Plans in the Consolidated Plan, an individual entry age normal cost rate is determined for each active member. The normal cost is determined by the following steps. First, an individual normal cost rate is determined by taking the value, as of entry age into a plan, of each active member's projected future benefits. Second, this value is then divided by the value, also at entry age, of the member's expected future salary. Finally, the rate is reduced by the member contribution rate to produce the employer normal contribution rate. These rates are then multiplied by each member's salary as of the valuation date to get the total normal cost dollars as of the valuation date for that plan and then divided by the total payroll at the valuation for the plan to get the normal cost rate for that plan. This process results in specific normal cost rates for each of the Regular and Special Plans in the Consolidated Plan.



SECTION IV CONTRIBUTIONS

Pooled Unfunded Actuarial Liability Rate

The unfunded actuarial liability under the entry age normal funding method equals the present value, at the time of valuation, of the future benefit payments less the present value of future employer normal cost contributions, future member contributions, future IUUAL payments, and current assets. Under the Consolidated Plan, a Pooled Unfunded Actuarial Liability Rate is calculated for the Consolidated Plan in the Aggregate. This rate is then allocated to each plan within the Consolidated Plan on the basis of total normal cost plus member contributions for each such plan. That is, those plans that constitute a larger portion of the overall liability will pay a larger portion of the pooled UAL payment when this rate is positive and receive a larger UAL credit when this rate is negative. The pooled UAL rates are calculated for the Regular and Special Plans in the aggregate in Table IV-1.

IUUAL Payments

In addition to total PLD contributions required under the Consolidated Plan, each individual PLD in the Consolidated Plan that came into the Plan with liabilities in excess of their assets will make payments on its Individual Unpooled Unfunded Actuarial Liability (IUUAL) until it is fully paid off. Where IUUAL payments are due, each PLD makes payment of a specific dollar amount.

PLD Contribution Rate Summary

In Table IV-2, we develop the aggregate contribution rate by Regular and Special Plans, using the cost methods described above. These were developed using the actuarial assumptions and methods described in Appendix D.

In Table IV-3, we present the PLD contribution rates applicable for determining the Fiscal Year 2017 contributions to the Plan. The PLD Advisory Committee and the MainePERS Board of Trustees has voted to increase the aggregate contribution rate to 9.5% of payroll for FY 2017. The increase from the aggregate rate of 9.0% in effect for FY 2016 is sufficient to meet the increase calculated using the corridor funding method.



SECTION IV CONTRIBUTIONS

Table IV-1 Consolidated Plan for Participating Local Districts of the Maine Public Employees Retirement System June 30, 2015 Development of Aggregate Pooled UAL Rate					
	Regular Plans	Special Plans	Total		
1. Present Value of Benefits	\$2,046,034,127	\$1,186,552,665	\$ 3,232,586,792		
2. Present Value of Future Contributionsa. PLD Normal Costb. Member Contributions	143,168,837 	91,368,670 101,720,433	234,537,507 277,113,276		
3. Actuarial Liability (1) – (2)	\$1,727,472,447	\$ 993,463,562	\$ 2,720,936,009		
4. Actuarial Value of Assets	\$1,529,554,019	\$ 903,632,130	\$ 2,433,186,149		
 5. Unfunded Actuarial Liability (UAL) a. Total Unfunded Liability (3) – (4) b. Individual Unpooled UAL (IUUAL) c. Pooled UAL (PUAL) (a) – (b) 	\$ 197,918,428	\$ 89,831,432 <u>1,947,687</u> \$ 87,883,745	\$ 287,749,860 3,618,300 \$ 284,131,560		
6. Amortization over 20 Years	\$ 13,811,226	\$ 6,184,947	\$ 19,996,173		
7. Payroll	\$ 340,922,053	\$ 150,052,039	\$ 490,974,092		
8. PUAL Contribution Rate	4.1%	4.1%	4.1%		



SECTION IV CONTRIBUTIONS

Table IV-2 Development of Aggregate PLD Contribution Rates Fiscal Year 2016							
	Regular Plans	Special Plans	Total				
PLD Normal Cost Rate	7.9%	7.6%	7.8%				
Pooled UAL Rate	4.1%	4.1%	4.1%				
Total PLD Calculated Rate	12.0%	11.7%	11.9%				
Corridor Contribution Rate	9.3%	10.1%	9.5%				

Table IV-3 Consolidated Plan for Participating Local Districts of the Maine Public Employees Retirement System PLD Contribution Rates* Fiscal Year 2017					
	PLD Normal Cost**	Actual Total PLD Rates For FY 2017			
Plans with COLA					
Regular Employees Plan AC	8.1%	9.5%			
Regular Employees Plan BC	5.4%	6.4%			
Special Plan 1C	11.1%	14.2%			
Special Plan 2C	6.9%	9.1%			
Special Plan 3C	8.6%	11.4%			
Special Plan 4C	7.5%	7.7%			
Plans with No COLA					
Regular Employees Plan AN	5.2%	6.5%			
Special Plan 1N	7.5%	9.3%			
Special Plan 2N	3.3%	5.6%			
Special Plan 3N	4.1%	7.4%			
Special Plan 4N	2.4%	4.6%			

^{*} IUUAL payments are made in addition to these.



^{**} Includes costs of ancillary benefits and is net of member contributions.

SECTION V FINANCIAL DISCLOSURE INFORMATION

This section contains financial disclosure information regarding the Plan developed under a number of accounting standards and guidance.

First, for informational purposes, we show the Plan's funded status under the Financial Accounting Standards Board (FASB) ASC Topic 960, which discloses how the market value of assets would compare to accrued liabilities if contributions were to stop and accrued benefit claims had to be satisfied as of the valuation date. However, due to potential legal requirements and the possibility that alternative interest rates would have to be used to determine the liabilities, these values may not be a good indication of the amount of money it would take to buy the benefits for all members if all plans in the Consolidated Plan were to terminate. We have prepared the following exhibit in this section based on FASB ASC Topic 960:

• Table V-1: Accrued Benefits information

The Governmental Accounting Standards Board (GASB) Statements Nos. 67 and 68 establish standards for disclosure of pension information by public employee retirement systems (PERS) and governmental employers in financial statements, notes to financial statements, and supplementary information. We have prepared the following exhibits reflecting provisions of GASB Statement Nos. 67 and 68:

- Table V-2: Schedule of Changes in Net Pension Liability and Related Ratios
- Table V-3: Sensitivity of Net Pension Liability to Changes in Discount Rate
- Table V-4: Schedule of Employer Contributions
- Table V-5: Average Expected Remaining Service Lives

A summary of the terminology used in GASB Statement Nos. 67 and 68 is provided in Appendix E of this report. Note that while much of the information provided in this report under GASB No. 67 is also utilized in GASB No. 68 and Table V-5 included in this section is only applicable to GASB No. 68, additional information necessary for disclosures under Statement No. 68 is developed elsewhere.

Finally, we have also developed disclosure information in this section based on additional guidance relating to Comprehensive Annual Financial Reports (CAFRs) of PERS provided by the Government Finance Officers Association (GFOA) in their publication, *Governmental Accounting, Auditing, and Financial Reporting* (GFAAR). We have prepared the following exhibits reflecting guidance in the GFAAR:

- Table V-6: Analysis of Financial Experience
- Table V-7: Solvency Test

The present value of accrued benefits, the total pension liability (GASB 67/68), and the actuarial liability (GAAFR) disclosures in this section are all determined assuming that the Plan is ongoing and participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions. Liabilities as of June 30, 2015 are discounted at the assumed valuation interest rate of 7.125% per annum in all of these disclosures.



SECTION V FINANCIAL DISCLOSURE INFORMATION

Table V-1 below includes the relevant amounts as of June 30, 2014 and June 30, 2015 as well as a reconciliation between the two dates under FASB ASC Topic 960.

Table V-1 Accrued Benefits Information				
	June 30, 2014	June 30, 2015		
FASB ASC Topic 960 Basis				
 Present Value of Benefits Accrued to Date (PVAB) a. Members Currently Receiving Payments b. Vested Terminated Members c. Active Members d. Total PVAB 	\$ 1,366,128,224 95,903,604 869,272,055 \$ 2,331,303,883	\$ 1,445,264,541 98,268,262 <u>888,824,010</u> \$ 2,432,356,813		
2. Assets at Market Value (MVA)	2,410,493,388	2,401,889,308		
3. Unfunded Present Value of Accrued Benefits, But Not Less Than Zero	\$ 0	\$ 30,467,505		
4. Ratio of MVA to PVAB (2) / (1)(d)	103.4%	98.7%		
Change in Present Value of Benefits Accrued to Date during FY 2015				
Increase/(Decrease) During Year Attributable to: Passage of Time \$ 161,364,258 Benefits Paid (135,414,526) Assumption Changes 32,800,185 Plan Changes 0 Benefits Accrued, Other Gains/Losses 42,303,013 Net Increase/(Decrease) \$ 101,052,930				

Table V-2 below shows the changes in the total pension liability (TPL), the plan fiduciary net position (FNP) (i.e., fair value of Plan assets), and the net pension liability (NPL) during the measurement year ending June 30, 2015 and related ratios as calculated under the provisions of GASB Statement No. 67 for the Plan.

There were no changes in benefits during the measurement year. The rate of return assumption was changed from 7.25% to 7.125%. There were no other assumption or methodology changes during the current measurement year.



SECTION V FINANCIAL DISCLOSURE INFORMATION

Table V-2 Schedule of Changes in Net Pension Liability and Related Ratios FY 2015				
	Total Consolidated PLDs			
Total Pension Liability (TPL) Service Cost Interest (Includes Interest on Service Cost) Changes of Benefit Terms Differences Between Actual and Expected Experience Changes of Assumptions Benefit Payments, Including Refunds of Member Contributions Net Change in TPL	\$ 75,805,492 187,928,506 0 (54,634,906) 37,593,598 (135,414,526) 111,278,164			
Beginning of Year TPL End of Year TPL	2,609,657,845 \$2,720,936,009			
Plan Fiduciary Net Position (FNP) PLD (Employer) Contributions Member Contributions Refund of IUUAL Account Balances Net Investment Income Benefit Payments, Including Refunds of Member Contributions Administrative Expenses Net Change in FNP	\$ 43,366,730 37,202,921 (43,000,526) 46,075,304 (135,414,526) (2,117,266) \$ (53,887,363)			
Beginning of Year FNP End of Year FNP	2,455,776,671 \$2,401,889,308			
End of Year Net Pension Liability (NPL)	\$ 319,046,701			
FNP as a Percentage of TPL Covered-Employee Payroll (Payroll)*	\$8.3% \$ 497,616,846			
NPL as a Percentage of Payroll	64.1641%			

^{*}For FY 2015



SECTION V FINANCIAL DISCLOSURE INFORMATION

Notes to Schedule of Changes in Net Pension Liability and Related Ratios:

Change of assumptions. In 2015, the amounts reported as changes of assumptions were due to the rate of return assumption being changed to 7.125% from 7.25%.

A ten-year schedule of changes in NPL and related ratios is to be included within the CAFR for PERS. However, based on GASB guidance, this ten-year history can be built one year at a time following implementation. We have shown only the second year of this *Schedule of Changes in Net Pension Liability and Related Ratios* above and believe that you can accumulate these individual years in the MainePERS CAFR to build this schedule to show the full ten-year schedule over time. Notes to this schedule should be included for any factors significantly impacting the trends reported within the period shown in this schedule at that time. As of June 30, 2015, we believe the only such note relates to the rate of return for this June 30, 2015 valuation and have as such included information relating to this item in the *Notes to Schedule of Changes in Net Pension Liability and Related Ratios* above.

Table V-3 below illustrates the sensitivity of the net pension liability (NPL) to the discount rate. Changes in the discount rate affect the measurement of the total pension liability (TPL) for the Plan. Lower discount rates produce a higher TPL, and higher discount rates produce a lower TPL. Because the discount rate does not affect the measurement of assets, the percentage change in the Net Pension Liability (NPL) can be very significant for relatively small changes in the discount rate.

Table V-3 Sensitivity of Net Pension Liability to Changes in Discount Rate FY 2015						
		1% Decrease 6.125%		Discount Rate 7.125%		1% Increase 8.125%
Total Pension Liability (TPL) Plan Fiduciary Net Position (FNP) Net Pension Liability (NPL) FNP as a Percentage of TPL	\$	3,037,524,853 2,401,889,308 635,635,545 79.1%	\$ <u>\$</u>	2,720,936,009 2,401,889,308 319,046,701 88.3%	\$ <u>\$</u>	2,420,790,229 2,401,889,308 18,900,921 99.2%

A one percent decrease in the discount rate increases the TPL by approximately 12% and increases the NPL by approximately 99%. A one percent increase in the discount rate decreases the TPL by approximately 11% and decreases the NPL by approximately 94%.



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-4 below provides information relating to the employer contributions for the Plan. Under GASB 67, if an actuarially determined contribution (ADC) or a contractually or statutorily required contribution (CRC) is developed for a single employer or cost-sharing plan, the following schedule is required. For purposes of this schedule, an ADC is a contribution amount determined in accordance with Actuarial Standards of Practice and a CRC is based on statutory or contractual requirements. Both should exclude any amounts to specifically finance specific liabilities of individual employers of the plan. If an ADC is available, the schedule of employer contributions should be developed on that basis. If there is no ADC, but there is a CRC, the schedule should be developed on that basis. Only if neither an ADC nor a CRC is developed can this schedule be omitted from the PERS's CAFR.

The Consolidated Plan's corridor rates meet the definition of an ADC, so for this Plan this schedule should be developed on that basis. Based on GASB guidance, a full ten years of information should be shown in this schedule if it is available, but this ten-year history can be built one year at a time following implementation. We have shown only the second year of this *Schedule of Employer Contributions* below and believe that you can accumulate these in the MainePERS CAFR to build this schedule to show the full ten-year schedule over time.

Only the current year of the *Notes to Schedule of Employer Contributions* below needs to be included in the notes to this schedule. However, any factors that significantly affect trends in the *Schedule of Employer Contributions* at any point in the ten-year period should also be included in the notes to this schedule. We believe that the only applicable item at this time is the rate of return assumption change in 2015, which we have included in the "Other Information" section of the notes to this schedule.

Table V-4 Schedule of Employer Contributions FY 2015		
	Total (Consolidated PLDs
Actuarially Determined Contribution (ADC)	\$	40,302,580
Contributions in Relation to the ADC		40,302,580
Contribution Deficiency/(Excess)	<u>\$</u>	<u>0</u>
Covered-Employee Payroll (Payroll)	\$	497,616,846
Contributions as a Percentage of Payroll		8.10%

*For FY 2015



SECTION V ACCOUNTING STATEMENT INFORMATION

Notes to Schedule of Employer Contributions

Valuation Date 6/30/2013

Timing 6/30/2015 ADC rates calculated based on the 2013 actuarial valuation

Key Methods and Assumptions Used to Determine Contribution Rates:

Actuarial cost method Entry Age Normal

Asset valuation method 3-year smoothed market

Amortization method Corridor method, amortize liability outside of 90% corridor over an open

15-year period with level dollar payments.

Discount rate 7.25%

Amortization growth rate 0.00%

Price inflation 3.50%

Salary increases 3.50% plus merit component based on employee's years of service

Sex distinct RP-2000 Combined Mortality projected to 2015 using Scale

Mortality AA

A complete description of the methods and assumptions used to determine contribution rates for the year ending June 30, 2015 can be found in the June 30, 2013 actuarial valuation report.

Other Information:

Change of assumptions. In 2015, the rate of return assumption used in developing the ADC was changed to 7.125% from 7.25%, first effective for the ADC for FY 2017.



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-5 below was provided in this report at the request of MainePERS staff, showing the development of the average remaining service life for the Plan. GASB 68 requires some items be recognized by employers into pension expense over a period "equal to the average of the expected remaining service lives of all employees that are provided with pensions through the pension plan (active employees and inactive employees) determined as of the beginning of the measurement period." For the current measurement year ending on June 30, 2015, these values are thus developed as of June 30, 2014. The development of this value is shown below, including reflection of the decision by MainePERS to round the resulting value to the nearest whole year.

Table V-5 Average Expected Remaining Service Lives For Measurement Year Ending June 30, 2015			
Status	Total Expected Future Service	Count	Average Remaining Service Lives
Actives	104,527	10,848	10
In-Pay Members	0	8,333	0
Deferred Vested Members	0	2,071	0
Inactives Due Refunds	0	6,061	0
Total Membership	104,527	27,313	4



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-6 below is a gain/loss analysis of the changes in the actuarial liability over the past six years, reflecting variances between actual experience and assumed experience for different kinds of risk as specified in the GFOA GAAFR.

Table V-6 ANALYSIS OF FINANCIAL EXPERIENCE Gain and Loss in Actuarial Liability During Fiscal Years Ended June 30 Resulting from Differences Between Assumed Experience and Actual Experience Gain (or Loss) Gain (or Loss) Gain (or Loss) Gain (or Loss) For Fiscal For Fiscal For Fiscal For Fiscal For Fiscal Year Ended Year Ended Year Ended Year Ended Year Ended June 30, 2010 June 30, 2011 June 30, 2012 June 30, 2013 June 30, 2014 June 30, 2015											
Type of Activity	,	,	,	, , , , , , , , , , , , , , , , , , ,	,	ŕ					
Investment Income	\$ (126,894,734)	\$ (642,960)	\$ (40,860,595)	\$ (26,747,451)	\$ 110,262,333	\$ (15,798,973)					
Combined Liability Experience	21,512,375	(2,603,019)	(45,091,413)	(20,284,597)	(19,939,857)	<u>54,634,906</u>					
Gain (or Loss) during Year from Financial Experience	\$ (105,382,359)	\$ (3,245,979)	\$ (85,952,008)	\$ (47,032,048)	\$ 90,322,476	\$ 38,835,933					
Non-Recurring Items	0	(48,704,140)	4,567,558	52,024,637	0	(37,593,598)					
Composite Gain (or Loss) During Year	\$ (105,382,359)	\$ (51,950,119)	\$ (81,384,450)	\$ 4,992,589	\$ 90,322,476	\$ 1,242,335					



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-7 below compares the Plan's assets as of each valuation date shown to the Plan's actuarial liability divided into three separate groups: liabilities for contributions on deposit for current active members, liabilities for future benefits for inactive members, and employer-financed liabilities for current active members. This solvency test is used to assess funding progress based on what percentage of the liabilities for each of these groups the Plan's assets are sufficient to cover. Per GFOA guidance, this schedule is to include this assessment for the ten most recent years and notes to this schedule should be provided to explain any factors that affect the comparability of the data. We have included a note to this schedule based on the current June 30, 2015 valuation, but any additional factors relating to prior years shown in the table should also be included in the notes to this schedule when included in the MainePERS CAFR.

Table V-7 Solvency Test Aggregate Actuarial Liabilities For												
Valuation Date		(1) Active Member		(2) Retirees Vested Terms,	(3) Active Members (Employer	Reported	Liabil by Re	n of Act lities Co ported A	vered Assets			
June 30,	Ф	Contributions	Ф	Beneficiaries	Financed Portion)	Assets	(1)	(2)	(3)			
2015	\$	438,925,747	\$	1,543,532,803	\$ 738,477,459	\$2,433,186,149	100%	100%	61%			
2014		423,097,001		1,462,031,828	724,529,016	2,379,733,634	100	100	68			
2013		412,347,408		1,378,065,748	675,521,588	2,179,961,872	100	100	58			
2012		398,895,449		1,262,186,227	707,745,483	2,103,481,277	100	100	63			
2011		379,478,840		1,175,482,545	676,024,931	2,084,982,632	100	100	78			
2010		347,801,024		1,083,097,662	654,598,374	2,011,019,138	100	100	89			
2009		319,531,110		1,039,566,071	641,162,528	2,046,361,132	100	100	107			
2008		294,627,592		990,913,007	628,335,716	2,151,832,580	100	100	138			
2007		270,986,236		938,899,387	629,089,299	2,085,117,271	100	100	139			
2006		239,876,523		884,015,065	596,238,152	1,926,451,099	100	100	135			

Notes to Solvency Test:

Change of assumptions. Effective with the June 30, 2015 actuarial valuation, the rate of return assumption was changed to 7.125% from 7.25%.



APPENDIX A PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

PLD Name	PLD#	Regular Plan	Special Plan	Special Plan	COLA	Entry Date	FO COLA Date
Androscoggin County	0067	A^1	1 ¹	2 ¹	Yes	7/1/1994	
Androscoggin Valley Council of Government	0231	A			Yes	7/1/1996	
Aroostook County	0106	A			Yes	7/1/1994	
Auburn Housing Authority	0145	A			Yes	7/1/1994	
Auburn Lewiston Airport	0256	A			Yes	7/1/1996	
Auburn Public Library	0043	A			FO	7/1/1996	7/1/2001
Auburn Water and Sewer District	0052	A			Yes	7/1/1994	
Auburn, City of	0027	A	2	3^2	Yes	7/1/1994	
Augusta Housing Authority	0351	A			Yes	4/1/2014	
Augusta, City of	0023	A	2	3^3	Yes	7/1/1994	
Baileyville, Town of	0069	A	3		Yes	7/1/1996	
Bangor Housing Authority	0288	A			Yes	7/1/1994	
Bangor Public Library	0022	A			Yes	7/1/1996	
Bangor Water District	0059	${f B}^4$			Yes	7/1/1996	
Bangor, City of	0020	A	1	2	Yes	7/1/1996	
Bar Harbor, Town of	0015	A	4		Yes	7/1/1995	
Bath Water District	0019	A			Yes	7/1/1994	
Bath, City of	0073	A	2	3	Yes	7/1/1996	



APPENDIX A PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

PLD Name	PLD#	Regular Plan	Special Plan	Special Plan	COLA	Entry Date	FO COLA Date
Baxter Academy of Technology And Sciences	0348	A			Yes	7/1/2013	2
Belfast Water District	0132	A			Yes	7/1/1995	
Belfast, City of	0035	A	2		Yes	7/1/1996	
Berwick Sewer District	0207	A			Yes	7/1/1994	
Berwick, Town of	0108	A	1 ⁵		FO	7/1/1996	7/1/2008
Bethel, Town of	0246	A			Yes	7/1/1996	
Biddeford Housing Authority	0310	A			Yes	7/1/2007	
Biddeford, City of	0158	A	3^6		FO	7/1/2010	7/1/2010
Boothbay Harbor, Town of	0146	A	2		Yes	7/1/1996	
Boothbay Region Water District	0298	A	2		Yes	1/1/2002	
Bowdoinham Water District	0319	A			Yes	1/1/2009	
Brewer Housing Authority	0248	A			Yes	7/1/1994	
Brewer, City of	0063	A^7	2		Yes	7/1/1996	
Brownville, Town of	0177	A			No	7/1/2010	
Brunswick Fire And Police	0292	A	1^8	3^8	FO	7/1/1997	7/1/1997
Brunswick Public Library Association	0273	A			FO	7/1/1995	7/1/1995
Brunswick Sewer District	0072	A			Yes	7/1/1996	
Brunswick, Town of	0042	A			FO	7/1/1995	7/1/2000



APPENDIX A PARTICIPATING LOCAL DISTRICT PLAN ELECTIONS

PLD Name	PLD#	Regular Plan	Special Plan	Special Plan	COLA	Entry Date	FO COLA Date
Buckfield, Town of	0344	A			No	1/1/2013	
Bucksport, Town of	0130	A	4^9		No	7/1/1995	
Calais, City of	0036	A			FO	7/1/1996	7/1/1996
Camden, Town of	0008	A			Yes	7/1/1994	
Cape Elizabeth Police	0317	A	2		Yes	7/1/2008	
Caribou Fire & Police	0208	A	1	2	No	7/1/1996	
Carrabasett Valley, Town of	0277	A			FO	7/1/1994	7/1/1994
Chesterville, Town of	0295	A^{10}			Yes	7/1/1999	
China, Town of	0235	A			FO	7/1/1996	7/1/2008
Coastal Counties Workforce Incorporated	0301	A^{11}			Yes	7/1/2003	
Community School Dist. #912	0252	A			Yes	7/1/1996	
Corinna, Town of	0217	A			Yes	7/1/1996	
Cornville Regional Charter School	0345	A			Yes	7/1/2013	
Cumberland County	0005	A	2^{12}		Yes	7/1/1996	
Cumberland, Town of	0216	A	2	3 ¹³	Yes	7/1/1995	
Damariscotta, Town of	0191	A			Yes	7/1/2011	
Dexter, Town of	0097	A			Yes	7/1/1996	
Dover-Foxcroft Water District	0137	A			Yes	7/1/1994	



		Regular	_	-		Entry	FO COLA
PLD Name	PLD#		Plan	Plan	COLA		Date
Dover-Foxcroft, Town of	0167	A			No	7/1/1995	
Durham, Town of	0234	A			No	7/1/1996	
Eagle Lake Water & Sewer District	0274	A			Yes	7/1/1996	
East Millinocket, Town of	0054	A	2		Yes	7/1/1996	
Easton, Town of	0240	A			Yes	7/1/1994	
Eliot, Town of	0180	A	1^{14}		Yes	7/1/1994	
Ellsworth, City of	0013	A	4		Yes	7/1/1995	
Erskine Academy	0249	A			No	7/1/1994	
Fairfield, Town of	0260	A	3		Yes	7/1/1995	
Falmouth Memorial Library	0058	A			Yes	7/1/1996	
Falmouth, Town of	0087	A	2^{15}		Yes	7/1/1996	
Farmington Village Corporation	0118	A			No	7/1/1994	
Farmington, Town of	0100	A	1		Yes	7/1/1995	
Fort Fairfield Housing Authority	0275	A			FO	7/1/2002	7/1/1994
Fort Fairfield Utilities District	0131	A			Yes	7/1/1996	
Fort Fairfield, Town of	0017	A			Yes	7/1/2000	
Franklin County	0102	A	3 ¹⁶		Yes	7/1/2006	
Freeport, Town of	0142	A	211		Yes	7/1/2003	



PLD Name	PLD #	Regular Plan	Special Plan	Special Plan		Entry Date	FO COLA Date
Frenchville, Town of	0098	A			No	7/1/1996	
Fryeburg, Town of	0149	A			No	1/1/2011	
Gardiner Water District	0221	A			No	7/1/1994	
Gardiner, City of	0024	A	3		FO	7/1/1996	7/1/2009
Glenburn, Town of	0174	A			Yes	7/1/1994	
Good Will Home Association	0347	A			Yes	7/1/2013	
Gorham Fire & Police	0334	A	3		Yes	7/1/2009	
Gorham, Town of	0133	A			Yes	7/1/1996	
Gould Academy	0205	A			No	7/1/1996	
Grand Isle, Town of	0312	В			Yes	7/1/2008	
Greater Augusta Utility District ¹⁷	0311	A			Yes	1/1/2008	
Greenville, Town of	0112	A			Yes	7/1/1996	
Hallowell, City of	0160	A			Yes	7/1/1996	
Hampden Water District	0183	A			Yes	7/1/1996	
Hampden, Town of	0151	A	3^{18}		FO	7/1/1996	7/1/2009
Hancock County	0056	A			Yes	7/1/1994	
Hancock, Town of	0353	A			Yes	7/1/2014	
Harpswell, Town of	0270	A			Yes	7/1/1994	



		Dogwlau	Cma sial	Ci1		Endres	FO COLA
PLD Name	PLD#	Regular Plan	Plan	_	COLA	Entry Date	Date
Harrison, Town of	0280	B ¹⁹	1 1411	1 1411	Yes	7/1/1994	Duce
Hermon, Town of	0150	A			No	7/1/1996	
Hodgdon, Town of	0215	A			FO	7/1/1996	7/1/2007
Holden, Town of	0338	A	4		Yes	7/1/2011	
Houlton Water District	0026	A			Yes	7/1/1995	
Houlton, Town of	0010	A	4^9		Yes	7/1/1996	
Jackman Utility District	0294	A			Yes	7/1/1996	
Jay, Town of	0045	A	2^{20}		Yes	7/1/1994	
Kennebec County	0047	A	2		Yes	7/1/1995	
Kennebec Sanitary Treatment District	0220	A			FO	7/1/1995	7/1/1995
Kennebec Water District	0031	A			Yes	7/1/1996	
Kennebunk Light & Power District	0062	A			Yes	7/1/1994	
Kennebunk Sewer District	0201	A			FO	7/1/1994	7/1/2000
Kennebunk, Kennebunkport & Wells Water District	0255	A			FO	7/1/1996	7/1/1999
Kennebunk, Town of	0084	A	2^{21}		Yes	7/1/1996	
Kennebunkport, Town of	0188	A	1		FO	7/1/1996	7/1/2006
Kittery Water District	0012	A			Yes	7/1/1994	
Kittery, Town of	0014	A	1^{22}		Yes	7/1/1995	



		Regular	-	_		Entry	FO COLA
PLD Name	PLD#	Plan	Plan	Plan	COLA	Date	Date
Lebanon, Town of	0181	A			Yes	7/1/1996	
Levant, Town of	0339	A			Yes	7/1/2011	
Lewiston-Auburn Water Pollution Control	0163	A			FO	7/1/1996	7/1/1996
Authority Lewiston Housing Authority	0154	A			Yes	7/1/1994	
Lewiston, City of	0048	A	1	2	Yes	7/1/1996	
Lewiston/Auburn 9-1-1	0291	A			Yes	7/1/1994	
Limestone, Town of	0245	A			Yes	7/1/2006	
Lincoln Academy	0134	A			Yes	7/1/1994	
Lincoln County	0095	A			Yes	7/1/2004	
Lincoln Sanitary District	0219	A			Yes	7/1/1994	
Lincoln & Sagadahoc Multicounty Jail	0304	A	2		Yes	7/1/2004	
Authority Lincoln County Sheriffs	0302	A	2^{11}		Yes	7/1/2003	
Lincoln, Town of	0076	A	3		No	7/1/1996	
Linneus, Town of	0214	A			No	7/1/1996	
Lisbon Water Department	0243	A			FO	7/1/1996	7/1/2007
Lisbon, Town of	0103	A	2		Yes	7/1/1996	
Livermore Falls Water District	0032	A			Yes	7/1/1994	
Livermore Falls, Town of	0109	A			No	7/1/1996	



PLD Name	PLD#	Regular Plan	Special Plan	Special Plan	COLA	Entry Date	FO COLA Date
Lovell, Town of	0276	A			Yes	7/1/1996	
Lubec Water and Electric District	0088	A			Yes	7/1/1996	
Lubec, Town of	0228	A			No	7/1/1996	
Madawaska Water District	0236	A			Yes	7/1/1994	
Madawaska, Town of	0082	A			Yes	7/1/1996	
Maine Academy of Natural Sciences	0346	A			Yes	7/1/2013	
Maine County Commissioners Association	0225	A			No	7/1/1996	
Maine Maritime Academy	0038	A	2		Yes	7/1/1996	
Maine Municipal Association	0055	A			Yes	7/1/2009	
Maine Municipal Bond Bank	0093	A			Yes	7/1/1995	
Maine School Management Association	0239	A			Yes	7/1/1994	
Maine Secondary School Principals	0105	A			Yes	7/1/1994	
Association Maine Turnpike Authority	0049	A			Yes	7/1/1994	
Maine Veterans Home	0271	A			Yes	7/1/1994	
Maine Public Employees Retirement System	0290	A			Yes	7/1/1994	
Maine School of Science & Mathematics	0352	A			Yes	7/1/2014	
Maine State Housing Authority	0169	A			Yes	7/1/2005	
Maine Virtual Academy	0357	A			Yes	7/1/2015	



		Regular	Special	Special		Entry	FO COLA
PLD Name	PLD#	Plan	Plan	_	COLA	•	Date
Mapleton, Castle Hill And Chapman, Town	0265	A			Yes	7/1/1996	
of							
Mars Hill Utility District	0283	A			Yes	7/1/1994	
Mars Hill, Town of	0227	A			Yes	7/1/1996	
Mechanic Falls Sanitary District	0282	A			FO	7/1/1994	7/1/2002
Mechanic Falls, Town of	0114	A			Yes	7/1/1994	
Medway, Town of	0194	A			Yes	7/1/1996	
Midcoast Council of Governments	0343	A			Yes	7/1/2012	
Milford, Town of	0186	A			No	7/1/1996	
Millinocket, Town of	0003	A	3	4	Yes	7/1/1996	
Milo Water District	0238	A			No	7/1/1996	
Monmouth, Town of	0316	A	3		Yes	7/1/2008	
Monson, Town of	0184	A			No	7/1/1996	
Mount Desert Island Regional School District	0120	A			Yes	7/1/1996	
Mount Desert, Town of	0016	A			Yes	7/1/1996	
Mount Desert Water District	0300	A^{11}			Yes	7/1/2003	
New Gloucester, Town of	0210	A			FO	7/1/1995	7/1/2007
Newport Water District	0313	A			Yes	7/1/2008	
Newport, Town of	0314	A	2		Yes	7/1/2008	



PLD Name	PLD#	Regular Plan	Special Plan	_	COLA	Entry Date	FO COLA Date
North Berwick, Town of	0254	A	1	1 1411	No	7/1/1996	Dute
North Berwick Water District	0308	A			Yes	7/1/2006	
Norway Water District	0136	A			FO	7/1/1995	7/1/2000
Norway, Town of	0125	A			FO	7/1/1996	7/1/2000
Ogunquit, Town of	0303	A	1		Yes	7/1/2004	
Old Orchard Beach, Town of	0140	A	2	3/1 ²³	Yes	7/1/2003	
Old Town Housing Authority	0262	A			FO	7/1/1994	7/1/1994
Old Town Water District	0079	A			No	7/1/1994	
Old Town, City of	0111	A	2^{24}	3^{24}	No	7/1/1995	
Orland, Town of	0166	A			No	7/1/1996	
Orono, Town of	0061	A	2^{25}		FO	7/1/1996	7/1/2002
Orrington, Town of	0209	A	3		No	7/1/1995	
Otisfield, Town of	0193	A			FO	7/1/1996	7/1/1996
Oxford County	0057	A^{11}	2		Yes	7/1/1994	
Oxford, Town of	0200	A			No	7/1/1996	
Paris Utility District	0159	A			Yes	7/1/1995	
Paris, Town of	0127	A			Yes	7/1/1996	
Penobscot County	0011	A			Yes	7/1/1994	



		Regular	-	_		Entry	FO COLA
PLD Name	PLD#	Plan	Plan	Plan	COLA		Date
Penquis Cap Inc	0237	A			No	7/1/1995	
Phippsburg, Town of	0202	A	3^{26}		Yes	7/1/1996	
Piscataquis County	0121	A			Yes	7/1/1994	
Pittsfield, Town of	0110	A			No	7/1/1996	
Pleasant Point Passamaquoddy Reservation Housing Authority	0165	A			Yes	7/1/1996	
Poland, Town of	0336	A	1		No	7/1/2010	
Portland Housing Authority	0185	A			Yes	7/1/1994	
Portland Public Library	0041	A			Yes	7/1/1995	
Portland, City of	0002	A	1	2	Yes	7/1/1995	
Princeton, Town of	0258	A			No	7/1/1996	
Regional School Unit #01	0315	A	2		Yes	7/1/2008	
Regional School Unit #02	0323	A			FO	7/1/2009	7/1/2009
Regional School Unit #04	0324	A			Yes	7/1/2009	
Regional School Unit #05	0325	A			Yes	7/1/2009	
Regional School Unit #10	0326	A			Yes	7/1/2009	
Regional School Unit #20	0328	A			Yes	7/1/2009	
Regional School Unit #21	0322	A			FO	7/1/2009	7/1/2009
Regional School Unit #23	0329	A			Yes	7/1/2009	



		Regular	Special	Special		Entry	FO COLA
PLD Name	PLD#	Plan	Plan	Plan	COLA	Date	Date
Regional School Unit #25	0321	A			No	7/1/2009	
Regional School Unit #26	0330	A			Yes	7/1/2009	
Regional School Unit #34	0331	A			No	7/1/2009	
Regional School Unit #39	0332	A			Yes	7/1/2009	
Regional School Unit #71	0358	A			Yes	7/1/2015	
Regional School Unit #73	0340	A			Yes	7/1/2011	
Richmond Utilities District	0242	A			No	7/1/1994	
Richmond, Town of	0213	A			Yes	7/1/2007	
Rockland, City of	0018	A	3		Yes	7/1/1995	
Rockport, Town of	0161	A			No	7/1/1996	
Rumford Fire And Police	0060	A	2^{27}	4	Yes	7/1/1995	
Rumford Mexico Sewerage District	0247	A			Yes	7/1/1996	
Rumford Water District	0065	A			Yes	7/1/1995	
Rumford, Town of	0090	A			Yes	7/1/1995	
Sabattus, Town of	0175	A			FO	7/1/1996	7/1/2006
Saco, City of	0192	A	2	3^{28}	No	7/1/1995	
Sagadahoc County	0096	A	2	3^{29}	Yes	7/1/2002	
Sanford Housing Authority	0152	A			Yes	7/1/1996	



							FO
		Regular	Special	Special		Entry	COLA
PLD Name	PLD#	Plan	Plan	Plan	COLA	Date	Date
Sanford Sewerage District	0089	A			FO	7/1/1994	1/1/2009
Sanford Water District	0170	A			Yes	7/1/1996	7/1/2009
Sanford, City of	0083	A	1/3 ³⁰	2^{30}	FO	7/1/1995	7/1/2002
Scarborough, Town of	0147	A	3^{31}	1 ³¹	Yes	7/1/1996	
School Administrative District No. 09	0119	A			Yes	7/1/1995	
Farmington School Administrative District No. 13	0223	A			Yes	7/1/1996	
Bingham School Administrative District No. 29	0168	A			Yes	7/1/1996	
Houlton School Administrative District No. 31	0050	A			FO	7/1/1994	7/1/1994
Howland School Administrative District No. 41 Milo	0143	A			Yes	7/1/1996	
School Administrative District No. 49	0189	A			No	7/1/1995	
Fairfield School Administrative District No. 51	0198	A			No	7/1/1996	
Cumberland Center School Administrative District No. 53	0129	A			No	7/1/1996	
Pittsfield School Administrative District No. 54	0115	A			Yes	7/1/1996	
Skowhegan School Administrative District No. 60	0187	A			No	7/1/1994	
North Berwick School Administrative District No. 67	0126	A			Yes	7/1/1996	
Lincoln Searsport Water District	0124	A			No	7/1/1996	
Searsport, Town of	0117	A			No	7/1/1996	
Skowhegan, Town of	0080	A	3		Yes	7/1/1996	



PLD Name	PLD#	Regular Plan	Special Plan	Special Plan	COLA	Entry Date	FO COLA Date
South Portland Housing Authority	0206	A	1 lan	1 lan	Yes	7/1/1996	Date
Somerset County	0101	A			Yes	7/1/2005	
South Berwick Water District	0171	A	2		Yes	7/1/1996	
South Berwick, Town of	0141	A	1		FO	7/1/1996	7/1/1996
South Berwick Sewer District	0299	A^{11}			Yes	7/1/2003	
South Portland, City of	0009	A	3^{32}		Yes	7/1/1995	
St. Agatha, Town of	0030	A			Yes	7/1/1996	
Thomaston, Town of	0164	A	2		Yes	1/1/2010	1/1/2010
Thompson Free Library	0318	A			Yes	1/1/2009	
Topsham Sewer District	0307	A^{33}			Yes	7/1/2005	
Topsham, Town of	0081	A	2	3	Yes	7/1/1996	
Tri-Community Recycle/Sanitary Landfill	0267	A			Yes	7/1/1996	
Union, Town of	0342	A			No	7/1/2012	
United Technologies Center, Region 4, S	0269	A			FO	7/1/1996	7/1/2009
Penobscot Van Buren, Town of	0182	A			Yes	7/1/1995	
Vassalboro, Town of	0153	A			Yes	7/1/1996	
Veazie Fire & Police	0305	A	3^{34}		Yes	7/1/2004	
Waldo County	0046	A	2		Yes	7/1/1994	



PLD Name	PLD#	Regular Plan	Special Plan	Special Plan	COLA	Entry Date	FO COLA Date
Waldo County Technical Center	0224	A	1 1411	1 1411	No	7/1/1996	Date
Waldoboro, Town of	0195	A	3		Yes	7/1/1995	
Washburn Water & Sewer District	0335	A			No	7/1/2009	
Washburn, Town of	0230	A			No	7/1/1994	
Washington County	0040	A			Yes	7/1/1996	
Waterboro, Town of	0356	A			No	1/1/2015	
Waterville Fire & Police	0066	A	3		No	7/1/1996	
Waterville Sewerage District	0222	A			Yes	7/1/1994	
Wells Ogunquit Community School District #918	0266	A			FO	7/1/1995	7/1/1995
Wells Fire And Police	0349	A	2		Yes	7/1/2013	
Wells, Town of	0107	A	3		Yes	7/1/1995	
West Bath, Town of	0333	A			Yes	7/1/2009	
Westbrook Fire & Police	0070	A	1	3	Yes	7/1/2006	
Westbrook, City of	0122	A			Yes	7/1/2006	
Wilton, Town of	0086	A	2		FO	1/1/2009	1/1/2009
Windham, Town of	0309	A	4	3	Yes	7/1/2006	
Winterport Water & Sewer Districts	0306	A^{33}			Yes	7/1/2005	
Winthrop Utilities District	0337	A			Yes	1/1/2011	



		Regular	Special	Special		Entry	FO COLA
PLD Name	PLD#	Plan	Plan	-	COLA	•	Date
Winthrop, Town of	0179	A			FO	7/1/1994	7/1/2003
Wiscasset, Town of	0417	A			No	1/1/2012	
Yarmouth Water District	0278	A			Yes	7/1/1994	
Yarmouth, Town of	0116	A	1 ³⁵		Yes	7/1/1996	
York County	0037	A	2^{36}	1^{36}	Yes	7/1/1996	
York Sewer District	0139	A			FO	7/1/1994	7/1/2006
York Water District	0039	A			Yes	7/1/1996	
York, Town of	0028	A	2^{33}		Yes	7/1/1994	



APPENDIX B MEMBERSHIP INFORMATION

Notes to Appendix A:

FO = Future Service COLA only, that is, for benefits attributable to service rendered after the Future Service COLA date.

- ¹ Employees hired prior to July 1, 1997 who are members of the Plan are covered under Plan 1. Corrections Officers and Law Enforcement Officers hired on or after July 1, 1997 are covered under Plan 2. All other employees hired on or after July 1, 1997 will be covered under Regular Plan A.
- ² Plan 3 applicable for future service only from January 1, 2014 for Firefighters hired after July 1, 1989 and for Law Enforcement Officers hired after December 31, 1989.
- ³ Plan 3 is applicable for future service only rendered by the City's Firefighters hired after December 31, 1989, effective January 1, 2015.
- ⁴ Plan B applicable to all new hires on or after July 1, 1996. All members in the PLD at July 1, 1996 elected to remain in the 1/50 Plan under Regular Plan A.
- ⁵ Plan 1 applicable for future service only for Police Officers from July 1, 2008 and for future service only for Firefighters from July 1, 2010.
- ⁶ Applicable for future service only rendered by Law Enforcement Officers from July 1, 2003. Applicable for future service only rendered by Firefighters from July 1, 2007.
- Brewer Water District (P0068) ceased to exist as a separate entity on January 15, 2003 and became part of the City of Brewer (P0063). All Brewer Water District Regular Plan AN members became members of the Regular Plan AC for future service only as of that date.
- Plan 1 applicable to Police Officers for future service only after January 1, 2010 and Plan 3 applicable to Firefighters for future service only after January 1, 2010. Some grandparented Police Officers and Firefighters receive all service in Plan 1.
- ⁹ Plan 4 applicable for future service only rendered by the Town's Firefighters and Police Officers from July 1, 2001.



- Applicable for future service only from July 1, 2000.
- Applicable for future service only from July 1, 2003.
- Plan 2 applicable for future service only rendered by the County's Police Officers from July 1, 2008.
- Plan 3 is applicable for future service only rendered by the Town's Law Enforcement Officers, effective January 1, 2015.
- ¹⁴ Plan 1 applicable for future service only of Police Officers, effective July 1, 2006.
- ¹⁵ Plan 2 applicable for future service only of Police Officers, effective July 1, 2006.
- ¹⁶ Plan 3 applicable for future service only for Police Officers from January 1, 2014.
- ¹⁷ Greater Augusta Utility District (P0311) was formed by the merger of the Augusta Water District (former P0034) and the Augusta Sanitary District (former P0064).
- Plan 3 applicable for future service only for the Town's Firefighters and Police Officers, effective July 1, 2009.
- Applicable to all new hires on or after July 1, 1994. All members in the PLD at July 1, 1994 elected to remain in the 1/50 Plan under Regular Plan A.
- ²⁰ Plan 2 applicable for future service only for the Town's Police Officers, effective January 1, 2012.
- Plan 2 applicable to all service for Police Officers and for future service only of Firefighters rendered from July 1, 2008.
- ²² Plan 1 applicable for future service only of Police Officers, effective July 1, 2007.



- Plan 3 for future service only after January 1, 2010 for Police Officers hired on or after October 12, 1992. Plan 1 for future service only after January 1, 2010 for Police Officers hired prior to October 1, 1992.
- ²⁴ Plan 3 applicable for future service only for Firefighters and Police Officers effective January 1, 2014.
- Plan 2 applicable to future service only rendered by the Town's Firefighters and Police Officers from July 1, 2005. Prior service was credited under Plan 4.
- ²⁶ Plan 3 applicable for future service only rendered by the Town's Police Officers from July 1, 2007.
- ²⁷ Plan 2 applicable for future service only for Firefighters from January 1, 2014.
- Plan 3 is applicable for future service only rendered by the City's Police Officers, effective July 1, 2015. Service for the City's Police Officers prior to July 1, 2015 under Plan 2.
- Plan 3 applicable for future service only rendered by Law Enforcement Officers from July 1, 2002.
 Service for Law Enforcement Officers prior to July 1, 2002 under Plan 2.
- Plan 1 is applicable for future service only rendered by Firefighters from July 1, 2002 and Police Officers from July 1, 2004. Plan 2 is applicable for Police Officers hired on or after July 1, 2014 and for Firefighters hired after December 31, 2014. Existing Firefighters as of December 31, 2014 elected either to remain under Plan 1 or move to Plan 3 for service rendered after December 31, 2014. Existing Police as of July 1, 2014 remained under Plan 1 for future service January 1, 2015.
- Plan 3 is applicable for future service only rendered by the Town's Firefighters from July 1, 2014. Firefighters who were covered under Plan 1, for future service rendered after July 1, 2008, could make an irrevocable election to remain in Plan 1. Firefighters hired after June 30, 2014 in Plan 3. Plan 1 is applicable to the Town's Police Officers for future service rendered effective July 1, 2009.



- Plan 3 applicable for future service only of Police Officers, effective July 1, 2009, and for future service only of Firefighters, effective July 1, 2010. Prior service credited under Special Plan 2. Police hired on or after July 1, 2014 covered by Plan 2.
- Applicable for future service only from July 1, 2005.
- ³⁴ Plan 3 applicable for future service only rendered by the Town's Firefighters from July 1, 2005.
- ³⁵ Applicable for future service rendered by Police Officers after January 1, 2010.
- Plan 1 applicable for all future service rendered by the Town's Firefighters/EMS and Police Officers from July 1, 2010. Previous service credited under Plan 2. Police Officers hired on or after July 1, 2014 covered by Plan 2.



Active Member Data as of .	June 30, 2015
Regular Plans Members	
Count	8,327
Average Current Age	47.8
Average Service	9.1
Average Valuation Pay	\$ 40,942
Special Plans Members	
Count	2,543
Average Current Age	41.4
Average Service	11.1
Average Valuation Pay	\$ 59,006
All Plans Members	
Count	10,870
Average Current Age	46.3
Average Service	9.6
Average Valuation Pay	\$ 45,168



Participating Local Districts of Inactive Men		s of June 30, 2015	tirement System
		Total	Average
	Count	Annual Benefit	Annual Benefit
Retired	4,764	\$ 66,209,543	\$ 13,898
Retired - Concurrent Beneficiary	382	1,409,295	3,689
Disability - Section 1122	33	372,994	11,303
Disability – Sections 3 and 3A	283	5,676,433	20,058
Beneficiary of Above	977	9,099,890	9,314
Pre-Retirement Death Beneficiary	145	891,844	6,151
Terminated Vested	1,878	7,932,413	4,224
Inactive Due Refund	6,049		

Participating Local Districts of Inactive Men		of June 30, 2015	rement System
	Count	Total	Average
Retired	Count	Annual Benefit	Annual Benefit
	1,297	\$ 38,449,717	\$ 29,645
Retired - Concurrent Beneficiary	334	1,981,911	5,934
Disability - Section 1122	26	509,784	19,607
Disability – Sections 3 and 3A	64	1,877,561	29,337
Beneficiary of Above	254	4,017,930	15,819
Pre-Retirement Death Beneficiary	22	150,422	6,837
Terminated Vested	234	1,621,939	6,931
Inactive Due Refund	292		



APPENDIX B MEMBERSHIP INFORMATION

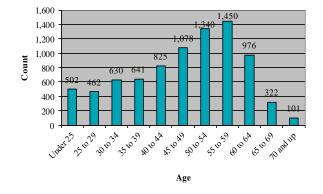
Distribution of Active Members As of June 30, 2015

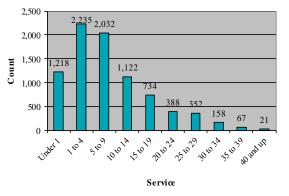
Regular Plan Participants

					Years of	Service					
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 and up	Totals
Under 25	329	165	8	0	0	0	0	0	0	0	502
25 to 29	147	232	83	0	0	0	0	0	0	0	462
30 to 34	133	280	174	40	3	0	0	0	0	0	630
35 to 39	107	235	192	84	21	2	0	0	0	0	641
40 to 44	101	253	247	143	64	15	2	0	0	0	825
45 to 49	121	285	301	170	108	52	40	1	0	0	1,078
50 to 54	121	327	346	210	152	72	83	28	1	0	1,340
55 to 59	85	242	364	245	184	109	122	61	38	0	1,450
60 to 64	40	144	240	157	140	90	83	45	23	14	976
65 to 69	22	49	59	59	47	40	18	20	5	3	322
70 and up	12	23	18	14	15	8	4	3	0	4	101
Total	1,218	2,235	2,032	1,122	734	388	352	158	67	21	8,327

Age Distribution

Service Distribution







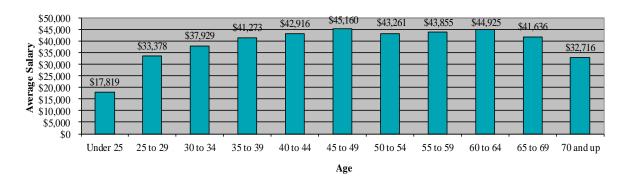
APPENDIX B MEMBERSHIP INFORMATION

Distribution of Active Members As of June 30, 2015

Regular Plan Participants

							. 0			i ticipuiit	-									
								Average Years of												
	Under 1		1 to 4	5 to 9	10) to 14	1	5 to 19	20	0 to 24	2	5 to 29	3	0 to 34	35	5 to 39	40	and up	A	verage
Under 25	\$ 12,264	\$	28,377	\$ 28,505	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	17,819
25 to 29	24,181		36,250	41,638		0		0		0		0		0		0		0		33,378
30 to 34	26,189)	38,506	44,366		44,114		48,743		0		0		0		0		0		37,929
35 to 39	29,549)	38,156	48,375		46,495		46,671		76,998		0		0		0		0		41,273
40 to 44	28,920)	38,832	47,861		47,440		48,481		56,923		48,948		0		0		0		42,916
45 to 49	47,922		38,002	44,857		47,150		51,086		54,016		53,636		64,336		0		0		45,160
50 to 54	26,339)	38,027	46,024		45,320		46,414		51,921		54,853		53,766		55,028		0		43,261
55 to 59	27,471		35,926	45,159		42,786		43,233		52,003		52,220		57,568		56,172		0		43,855
60 to 64	27,643	3	38,273	44,846		43,567		43,867		52,379		50,495		55,609		56,450		55,635		44,925
65 to 69	12,343	;	29,197	41,946		48,349		41,249		47,137		50,823		54,097		68,848		70,639		41,636
70 and up	10,982	2	31,160	25,631		36,367		41,215		42,747		45,656		54,263		0		44,949		32,716
Average	\$ 24,618	\$	36,816	\$ 45,313	\$	45,162	\$	45,578	\$	51,971	\$	52,430	\$	55,877	\$	57,196	\$	55,743	\$	40,942

Average Salary Distribution





APPENDIX B MEMBERSHIP INFORMATION

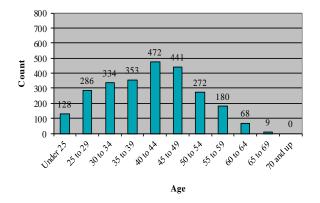
Distribution of Active Members As of June 30, 2015

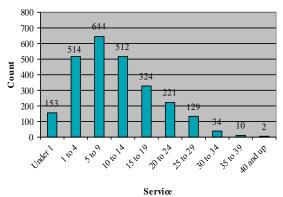
Special Plan Participants

					peerur r ruir									
		Years of Service												
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 and up	Totals			
Under 25	54	73	1	0	0	0	0	0	0	0	128			
25 to 29	38	180	68	0	0	0	0	0	0	0	286			
30 to 34	22	101	159	52	0	0	0	0	0	0	334			
35 to 39	12	68	123	119	31	0	0	0	0	0	353			
40 to 44	13	36	105	141	133	44	0	0	0	0	472			
45 to 49	9	30	78	107	91	91	35	0	0	0	441			
50 to 54	1	11	59	54	33	42	60	12	0	0	272			
55 to 59	4	11	39	30	26	30	22	15	3	0	180			
60 to 64	0	4	12	7	8	13	10	6	6	2	68			
65 to 69	0	0	0	2	2	1	2	1	1	0	9			
70 and up	0	0	0	0	0	0	0	0	0	0	0			
Total	153	514	644	512	324	221	129	34	10	2	2,543			

Age Distribution

Service Distribution







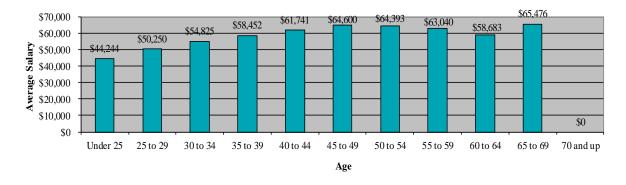
APPENDIX B MEMBERSHIP INFORMATION

Distribution of Active Members As of June 30, 2015

Special Plan Participants

Special Fiant at ucipants																						
										Averag	e S	alary										
										Years o	f S	ervice										
	Į	Jnder 1		1 to 4		5 to 9	1	0 to 14	1	5 to 19		20 to 24	2	5 to 29	3	80 to 34	3	5 to 39	40	and up	A	verage
Under 25	\$	37,116	\$	49,611	\$	37,446	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	44,244
25 to 29		35,667		51,088		56,181		0		0		0		0		0		0		0		50,250
30 to 34		37,951		50,675		58,205		59,692		0		0		0		0		0		0		54,825
35 to 39		39,761		51,027		57,479		64,609		62,198		0		0		0		0		0		58,452
40 to 44		37,810		51,566		60,401		61,568		65,917		68,269		0		0		0		0		61,741
45 to 49		41,826		52,225		59,321		64,075		66,419		69,612		76,668		0		0		0		64,600
50 to 54		40,102		48,353		62,612		63,299		63,994		63,864		68,676		76,326		0		0		64,393
55 to 59		57,978		59,684		59,423		64,522		58,100		63,392		68,360		74,255		58,485		0		63,040
60 to 64		0		26,408		67,407		50,046		40,709		58,351		59,983		66,947		80,822		77,474		58,683
65 to 69		0		0		0		56,436		89,576		100,922		28,009		80,294		60,022		0		65,476
70 and up		0		0		0		0		0		0		0		0		0		0		0
Average	\$	37,984	\$	50,822	\$	58,963	\$	62,786	\$	64,402	\$	66,887	\$	69,486	\$	73,874	\$	72,041	\$	77,474	\$	59,006

Average Salary Distribution



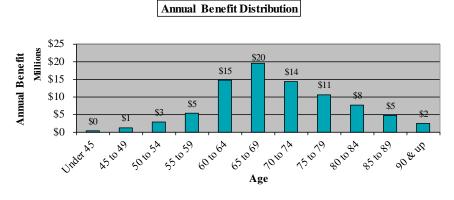


APPENDIX B MEMBERSHIP INFORMATION

Distribution of Retirees, Disabled Members, Beneficiaries, and Survivors As of June 30, 2015

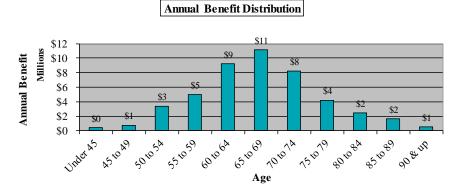
Regular Plan Participants

Age	Count	Annual Benefit
Under 45	56	\$ 351,033
45 to 49	66	1,245,439
50 to 54	148	2,834,240
55 to 59	280	5,281,428
60 to 64	955	14,643,369
65 to 69	1,408	19,533,077
70 to 74	1,152	14,321,642
75 to 79	929	10,598,991
80 to 84	744	7,659,898
85 to 89	528	4,781,170
90 & up	318	2,409,714
Total	6,584	\$ 83,660,000



Special Plan Participants

Age	Count	Annual Benefit
Under 45	23	\$ 407,225
45 to 49	37	778,095
50 to 54	128	3,388,413
55 to 59	181	4,969,089
60 to 64	335	9,201,298
65 to 69	456	11,117,357
70 to 74	355	8,258,747
75 to 79	210	4,215,117
80 to 84	140	2,487,332
85 to 89	93	1,629,232
90 & up	<u>39</u>	535,419
Total	1,997	\$ 46,987,324





APPENDIX C SUMMARY OF PROGRAM AND PLAN PROVISIONS

1. Member Contributions:

Members are required to contribute a percentage of earnable compensation, which varies by Plan as follows:

Regular AC & AN	7.5%
Regular BC	4.0%
Special 1C & 1N	7.5%
Special 2C & 2N	7.5%
Special 3C & 3N	9.0% for first 25 years, 7.5% after
Special 4C & 4N	8.5% for first 25 years, 7.5% after

Member contributions to increase by 0.5% in FY 17 (for 3C/3N & 4C/4N, both pre-25 years and post 25-years rates to increase by this amount).

2. Average Final Compensation:

For purposes of determining benefits payable, average final compensation is the average annual rate of earnable compensation for the three years of creditable service (not necessarily consecutive) that produce the highest such average.

3. Creditable Service:

Creditable service includes service while a member, certain service prior to the establishment of the Plan, purchased service credit of which there are several types, and service while receiving disability benefits under the Plan.

4. Service Retirement Benefits:

Regular Plan AC

Normal Retirement Age:

Plan members prior to July 1, 2014:	60
New members to the Plan on or after July 1, 2014:	65

Eligibility for Members in Active Service and Inactive Members: 25 years of creditable service.

Eligibility Alternative for Members in Active Service: At least one year of creditable service immediately before retirement and at least normal retirement age.

Eligibility for Members not in Active Service at Retirement and not in Active Service on or after October 1, 1999: At least ten years of creditable service and at least normal retirement age.



APPENDIX C SUMMARY OF PROGRAM AND PLAN PROVISIONS

Eligibility for Members not in Active Service at Retirement but in Active Service on or after October 1, 1999: At least five years of creditable service and at least normal retirement age.

Benefit: 1/50 of average final compensation multiplied by years of membership service under Consolidated Plan AC reduced by:

Plan members prior to July 1, 2014: approximately 21/4% for each year

that a member is younger than age

60 at retirement.

New members to the Plan on or after July 1, 2014:

6% for each year that a member is younger than age 65 at retirement.

Form of Payment: Life annuity ("full benefit"), unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 10.

Regular Plan AN

This benefit plan is the same as Regular Benefit Plan AC, except that there is no provision for cost-of-living adjustments.

Regular Plan BC

Normal Retirement Age:

Plan members prior to July 1, 2014:	60
New members to the Plan on or after July 1, 2014:	65

Eligibility for Members in Active Service and Inactive Members: 25 years of creditable service.

Eligibility Alternative for Members in Active Service: At least one year of creditable service immediately before retirement and at least normal retirement age.

Eligibility for Members not in Active Service at Retirement and not in Active Service on or after October 1, 1999: At least 10 years of creditable service and at least normal retirement age.

Eligibility for Members not in Active Service at Retirement but in Active Service on or after October 1, 1999: At least five years of creditable service and at least normal retirement age.



APPENDIX C SUMMARY OF PROGRAM AND PLAN PROVISIONS

Benefit: 1/100 of average final compensation multiplied by years of membership service under Consolidated Plan BC reduced by:

Plan members prior to July 1, 2014: approximately 21/4% for each year

that a member is younger than age

60 at retirement.

New members to the Plan on or after July 1, 2014:

6% for each year that a member is younger than age 65 at retirement.

Form of Payment: Life annuity ("full benefit"), unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 10.

Regular Plan Notes

- 1. Under certain circumstances, Regular Plan service can count, on a pro rata basis specific to the applicable Special Plan, toward meeting Special Plan benefit eligibility requirements.
- 2. The actual benefit for service earned prior to coverage under the Consolidated Plan may be based on a variable percentage of average final compensation multiplied by years of service under any previous plan(s) (the percentage depends on the previous plan(s)).

Special Plan 1C

Eligibility: 20 years of creditable service in named positions.

Benefit: One-half of average final compensation plus 2% for each year of service in excess of 20 years of service.

Form of Payment: Life annuity ("full benefit"), unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 10.

Special Plan 1N

This benefit plan is identical to Special Benefit Plan 1C, except that there is no provision for cost-of-living adjustments.

Special Plan 2C

Eligibility: 25 years of creditable service in named positions.



APPENDIX C SUMMARY OF PROGRAM AND PLAN PROVISIONS

Benefit: One-half average final compensation plus 2% for each year of service in excess of 25 years of service.

Form of Payment: Life annuity ("full benefit"), unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 10.

Special Plan 2N

This benefit plan is identical to Special Benefit Plan 2C, except that there is no provision for cost-of-living adjustments.

Special Plan 3C

Eligibility: 25 years of creditable service in named positions.

Benefit: Two thirds of average final compensation plus 2% for each year of service in excess of 25 years of service.

Form of Payment: Life annuity ("full benefit"), unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 10.

Special Plan 3N

This benefit is identical to Regular Benefit Plan 3C, except that there is no provision for cost-of-living adjustments.

Special Plan 4C

Eligibility: Age 55 with 25 years of creditable service in named positions.

Benefit: 1/50 of average final compensation multiplied by years of membership service under Consolidated Plan 4C reduced by:

Plan members prior to July 1, 2014: approximately 2¹/₄% for each year

that a member is younger than age

55 at retirement.

New members to the Plan on or after July 1, 2014:

6% for each year that a member is younger than age 55 at retirement.



65

APPENDIX C SUMMARY OF PROGRAM AND PLAN PROVISIONS

Form of Payment: Life annuity ("full benefit"), unless an optional method of payment is selected.

Cost-of-Living Adjustment: See item 10.

Special Plan 4N

This benefit plan is identical to Special Benefit Plan 4C, except that there is no provision for cost-of-living adjustments.

Special Plan Notes

- 1. If a Special Plan member fails to meet the Special Plan eligibility criteria, their service retirement benefit is that provided by the applicable underlying Regular Plan; Special Plan service credits are used toward Regular Plan eligibility requirements.
- 2. Service in all Special Plans counts, on a percentage basis, toward meeting the benefit eligibility requirements of any Special Plan.
- 3. The actual benefit for service earned prior to coverage under the Consolidated Plan may be based on a variable percentage of average final compensation multiplied by years of service under any previous plan(s) (the percentage depends on the previous plan(s)).

5. Pre-Retirement Accidental Death Benefits:

Eligibility: Death while active or disabled resulting from injury received in the line of duty.

Benefit:

- If the member leaves no dependent children, two-thirds of the member's average final compensation to the surviving spouse until death.
- If the member is survived by a spouse who has the care of dependent child(ren) of the member, the surviving spouse shall receive an annual sum equal to the member's average final compensation while having the care of dependent child(ren). When there are no longer any dependent children, the surviving spouse shall receive two-thirds of member's average final compensation until death.
- If the member is survived by a spouse who does not have the care of the member's dependent child(ren), the surviving spouse and dependent child(ren) shall share equally an annual sum equal to the member's average final compensation. When there are no longer any dependent children, the surviving spouse shall receive two-thirds of the member's average final compensation until death.



APPENDIX C SUMMARY OF PROGRAM AND PLAN PROVISIONS

• If the member leaves no spouse, the dependent child(ren) shall share an annual amount equal to the member's average final compensation. Benefits will cease when the last dependent child no longer meets the definition of "dependent child."

6. Pre-Retirement Ordinary Death Benefits:

Eligibility: Death while active, inactive eligible to retire, or disabled.

Benefit: Designated beneficiary, spouse, child(ren), or parents entitled to benefit calculated as if deceased member had retired under Option 2 (see item 11); however, beneficiary may elect survivor benefits payable to a surviving spouse, dependent child(ren), parent, or other designated beneficiaries in monthly amounts varying by status of beneficiary and number of eligible survivors. Otherwise accumulated contributions with interest are payable to designated beneficiary, spouse, child(ren), older parents, or estate.

7. Disability Retirement Benefits Other Than No Age Benefits (See Item 8):

Eligibility: Disabled as defined in the MainePERS statutes prior to normal retirement age, employed prior to October 16, 1992 and did not elect No Age Disability Benefits, and either disabled in the line-of-duty or disabled with at least five years of creditable service.

Benefit: 66²/₃% of average final compensation, reduced by employment earnings over the specified statutory limit, and to the extent that the benefit in combination with Workers' Compensation and Social Security, exceeds 80% of average final compensation.

Form of Payment: Payment begins upon termination of service and ceases on cessation of disability or after five years, unless the member is unable to engage in any substantially gainful activity, in which case payments cease on the earlier of ten years following normal retirement age or the date that the service retirement benefit equals or exceeds the disability benefit.

Conversion to Service Retirement: During the period of disability, service is credited and average final compensation is increased at same rate as any cost-of-living adjustments for which the member is eligible (see item 10). On the date when service benefits reach a level of 66% of average final compensation or ten years after the normal retirement date, if earlier, the disability converts to a service retirement benefit based on service and average final compensation at that time.

8. No-Age Disability Benefits:

Eligibility: Disabled as defined in the MainePERS statutes, employed on or after October 16, 1992 or employed prior to October 16, 1992 and elected the provisions of No-Age Disability, and either disabled in the line-of-duty or disabled with at least five years of creditable service.



APPENDIX C SUMMARY OF PROGRAM AND PLAN PROVISIONS

Benefit: 59% of average final compensation, reduced by employment earnings over the specified statutory limit, and to the extent that the benefit, in combination with Workers' Compensation and Social Security, exceeds 80% of average final compensation.

Form of Payment: Payment begins upon termination of service and ceases on cessation of disability or after five years, unless the member is unable to engage in any substantially gainful activity; in which case, payments cease on the date the service retirement benefit equals or exceeds the disability benefit.

Conversion to Service Retirement: During the period of disability, service is credited and average final compensation is increased at the same rate as any cost-of-living adjustments for which the member is eligible (see item 10). On the date when service benefits reach a level of 59% of average final compensation, the disability benefit converts to a service retirement benefit based on service and average final compensation at that date.

9. Refund of Contributions:

Eligibility: Termination of service other than by retirement or death.

Benefit: Member's accumulated contributions with interest.

10. Cost-of-Living Adjustments (COLA):

All service and disability retirement and survivor benefits payable to (or in relation to) benefit recipients who were employed by a PLD that elected a plan that provides for a COLA are adjusted each year that there is a percentage change in the Consumer Price Index, based on the Index. If the percentage change is negative, then no adjustment is made in that year. In subsequent years, the adjustment that would have been made will be adjusted downward to the extent necessary to recoup the full actuarial value of not having made the previous year's negative adjustment. This process of adjustment may occur over a multi-year period if needed to recoup the full value of negative changes in the Index.

Cost-of-living adjustments are effective September 1 and are applied to all benefits which have been in payment for twelve months for retirees who retired on or after September 1, 2015 or for six months for retirees who retire prior to September 1, 2015. The maximum annual increase is 3% (4% prior to the 2014 COLA).

11. Methods of Payment of Service Retirement Benefits:

At retirement, a member who retires with a benefit must choose from the following methods of payment:

Full Benefit: Unadjusted benefit paid for the life of the member only.



APPENDIX C SUMMARY OF PROGRAM AND PLAN PROVISIONS

Option 1: Cash refund equal to the remaining member contribution balance, if any, at the date of death (where the member contribution balance has been reduced each month by the portion of the monthly benefit deemed to be provided by member contributions).

Option 2: 100% joint and survivor annuity.

Option 3: 50% joint and survivor annuity.

Option 4: Joint and survivor annuity at any percentage other than those available under Option 2 and Option 3.

Option 5: Designated percentage of the benefit (not less than 51%) payable to the member, with the remaining percentage (the two to equal 100%) payable to a beneficiary (may only be a sole beneficiary) while both are alive. At the death of either, the higher of the two percentages is paid to the survivor for the survivor's life, and the lower-percentage benefit ceases to be paid.

Option 6:100% joint and survivor annuity (Option 2) with pop-up*.

Option 7: 50% joint and survivor annuity (Option 3) with pop-up.*

Option 8: Option 4 with pop-up*.

* The "pop-up" feature attached to a given Option means that in the case of a beneficiary predeceasing the member, the member's benefit will be revised prospectively to the amount that the benefit would have been had the member selected Full Benefit payment upon retirement.

12. Plan Changes since Prior Valuation:

None.



APPENDIX D ACTUARIAL ASSUMPTIONS AND METHODS

A. Actuarial Assumptions

1. Annual Rate of Investment Return: 7.125% (net of investment and

administrative expenses)

2. Cost-of-Living Increases in Benefits: 3.12% through 2014, then 2.55% thereafter

(where applicable)

3. Rates of Termination at Selected Years of Service*:

Service	Regular	Special
0	20.0%	25.0%
1	17.5	12.5
2	15.0	10.0
3	12.5	7.5
4	10.0	5.0
5	7.5	4.0
10	2.5	2.5
15	2.5	2.5

- * Members with five or more years of service whose present value of their deferred vested benefits is greater than the present value of their accumulated member contributions with interest are assumed to elect deferred vested benefits; other terminations are assumed to receive refunds.
- 4. Rates of Active Healthy Life Mortality at Selected Ages (number of deaths per 10,000 members)*:

Age	Male	Female
50	16	13
55	27	24
60	53	47
65	103	90
70	177	155
75	306	249
80	554	413
85	997	708
90	1,727	1,259
95	2,596	1,888

* For Regulars, 5% of deaths are assumed to arise out of and in the course of employment; for Specials, 20% of deaths are assumed to arise out of and in the course of employment.



APPENDIX D ACTUARIAL ASSUMPTIONS AND METHODS

Rates are based on the RP-2000 Combined Healthy Mortality Table for Males and Females, projected with Scale AA to 2015. This assumption was set in 2011 with a margin for future improvement based on the five-year experience study process and will be examined following this valuation based on the experience from 2010 to 2015 to determine the base and projection tables to use for the 2016 valuation forward as well as ascertain the margin for future improvement.

5. Rates of Mortality for Disabled Lives at Selected Ages (number of deaths per 10,000 members):

Age	Male	Female
25	92	72
30	112	89
35	134	109
40	160	126
45	193	144
50	236	165
55	295	191
60	362	226
65	446	272
70	576	331

Rates are based on the Revenue Ruling 96-7 Disabled Mortality Table for Males and Females.

6. Rates of Retirement at Selected Ages (number retiring per 1,000 members):

Regular Plans

Age	Assumption
45	50
50	50
55	100
60	270
65	300
70	1,000



APPENDIX D ACTUARIAL ASSUMPTIONS AND METHODS

Special Plans

Service	Assumption
20	400
21-24	300
25	400
26-29	300
30	400
31-34	300
35+	1,000

Note that the rates are only applied once the member is eligible to retire, so those in 25 year plans are not assumed to retire at 20 years of service.

7. Rates of Disability at Selected Ages (members becoming disabled per 10,000 members)*:

Age	All Plans
25	3
30	4
35	5
40	7
45	15
50	33
55	61

^{* 10%} assumed to receive Worker's Compensation benefits offsetting disability benefit.

8. Family Composition Assumptions:

80% of active members are married and have two children born when the member is 24 and 28; children are dependent until age 18; spouses are same age; member has no dependent parents; unmarried members have beneficiaries entitled to benefits worth 80% as much as those of married members' beneficiaries.



APPENDIX D ACTUARIAL ASSUMPTIONS AND METHODS

9. Salary Growth Assumption at Selected Years of Service:

Rates of Increases at Selected Years	
Years of Service	Increase
0	9.5%
1	7.5
2	6.0
3	4.7
4	4.3
5	4.0
10	3.5
15	3.5
20	3.5
25	3.5
30	3.5

The above rates include a 3.50% across-the-board increase at each year of service.

10. Rationale for Actuarial Assumptions:

The economic assumptions and mortality tables were adopted by the Trustees as a result of the latest experience study review performed in 2011 and covering the period July 1, 2005 through June 30, 2010. Other demographic assumptions were adopted by the Trustees as a result of the experience study review performed in 2008 and covering the period July 1, 2000 through June 30, 2008.

The Board continually reviews the investment return and inflation assumptions and adopted a reduced rate of 7.125%, effective with the 2015 valuation, at the advice of its investment consultants.

11. Assumption Changes Since Last Valuation:

Rate of investment return assumption was reduced from 7.25% to 7.125%.



APPENDIX D ACTUARIAL ASSUMPTIONS AND METHODS

B. Actuarial Methods

1. Funding Method:

The entry age normal actuarial funding method is used to determine costs. Under this funding method, the total PLD contribution rate consists of two elements: the PLD normal cost rate and the Pooled Unfunded Actuarial Liability (PUAL) rate. The actual contribution for a given PLD will include an Individual Unpooled Unfunded Actuarial Liability (IUUAL) payment as well, unless the PLD came into the Plan without an IUUAL or has paid off its IUUAL.

For each of the Regular and Special Plans in the Consolidated Plan, an individual entry age normal cost rate is determined for each active member. The normal cost is determined by the following steps. First, an individual normal cost rate is determined by taking the value, as of entry age into a plan, of each active member's projected future benefits. Second, this value is then divided by the value, also at entry age, of the member's expected future salary. Finally, the rate is reduced by the member contribution rate to produce the employer normal contribution rate. These rates are then multiplied by each member's salary as of the valuation date to get the total normal cost dollars as of the valuation date for that plan and then divided by the total payroll at the valuation for the plan to get the normal cost rate for that plan. This process results in specific normal cost rates for each of the Regular and Special Plans in the Consolidated Plan.

The unfunded actuarial liability under the entry age normal funding method equals the present value, at the time of valuation, of the future benefit payments less the present value of future normal costs, future member contributions, future IUUAL payments, and current assets. Under the Consolidated Plan, a PUAL Rate is calculated for the Consolidated Plan in the Aggregate based on the PUAL being amortized over a 20-year period commencing with the June 30, 2015 valuation date and any layers of PUAL arising after that date amortized over individual 20-year periods. This amortization uses a level percentage of pay method with payroll assumed to increase at 3.5% per year. The amortization payment thus derived for the valuation year is then divided by the total payroll to develop a rate that is then allocated to each plan within the Consolidated Plan on the basis of total normal cost plus member contributions for each such plan. That is, those plans that constitute a larger portion of the overall liability will pay a larger portion of the pooled UAL payment when this rate is positive and receive a larger UAL credit when this rate is negative.

The Initial Unpooled Unfunded Actuarial Liability (IUUAL) was calculated at entry into the Consolidated Plan for each PLD that entered with liabilities in excess of their assets and is paid off through payment of a specific dollar amount until paid off.



APPENDIX D ACTUARIAL ASSUMPTIONS AND METHODS

2. Asset Valuation Method:

For purposes of determining PLD contribution to the Plan and the Plan's funding status, we use an actuarial value of assets. The asset adjustment method dampens the volatility in asset values that could occur because of fluctuations in market conditions. Use of an asset smoothing method is consistent with the long-term nature of the actuarial valuation process.

In determining the actuarial value of assets, we calculate an expected actuarial value based on cash flow for the year and imputed returns at the actuarial assumption. This expected value is compared to the market value and one-third of the difference is added to the preliminary actuarial value to arrive at the final actuarial value.

3. Changes since Last Valuation:

The amortization of PUAL was changed from a level dollar open 15-year method, to a closed 20-year period as of June 30, 2015 with amortization as a level percentage of payroll. As additional layers of PUAL are produced in the future, each will be amortized over its own 20-year period.



APPENDIX E GLOSSARY OF GASB TERMS

1. Actuarially Determined Contribution

A target or recommended contribution for the reporting period, determined in conformity with Actuarial Standards of Practice based on the most recent measurement available when the contribution for the reporting period was adopted.

2. Actuarial Valuation Date

The date as of which an actuarial valuation is performed. This date may be up to 24 months prior to the measurement date and up to 30 months prior to the employer's reporting date.

3. Deferred Inflow of Resources

An acquisition of net assets by a government employer that is applicable to a future reporting period. In the context of GASB 68, these are experience gains on the Total Pension Liability, assumption changes reducing the Total Pension Liability, or investment gains that are recognized in future reporting periods.

4. Deferred Outflow of Resources

A consumption of net assets by a government employer that is applicable to a future reporting period. In the context of GASB 68, these are experience losses on the Total Pension Liability, assumption changes increasing the Total Pension Liability, or investment losses that are recognized in future reporting periods.

5. Entry Age Actuarial Cost Method

The actuarial cost method required for GASB 67 and 68 calculations. Under this method, the actuarial present value of the projected benefits of each individual, included in an actuarial valuation, is allocated on a level basis over the earnings of the individual between entry age and assumed exit ages. The portion of this actuarial present value allocated to a valuation year is called the Service Cost. The portion of this actuarial present value not provided for at a valuation date by the actuarial present value of future service costs is called the Total Pension Liability.

6. Measurement Date

The date as of which the Total Pension Liability and Plan Fiduciary Net Position are measured. The Total Pension Liability may be projected from the Actuarial Valuation Date to the Measurement Date. The Measurement Date must be the same as the Reporting Date for the plan.



APPENDIX E GLOSSARY OF GASB TERMS

7. Net Pension Liability

The liability of employers and non-employer contributing entities for employees for benefits provided through a defined benefit pension plan. It is calculated as the Total Pension Liability less the Plan Fiduciary Net Position.

8. Plan Fiduciary Net Position

The fair or market value of assets.

9. Reporting Date

The last day of the Plan or employer's fiscal year.

10. Service Cost

The portion of the actuarial present value of projected benefit payments that is attributed to the current period of employee service in conformity with the requirements of GASB 67 and 68. The Service Cost is the normal cost calculated under the entry age actuarial cost method.

11. Total Pension Liability

The portion of the actuarial present value of projected benefit payments that is attributed to past periods of employee service in conformity with the requirements of GASB 67 and 68. The Total Pension Liability is the actuarial liability calculated under the entry age actuarial cost method.





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