

**GASB 45 Actuarial Valuation of
Postemployment Benefits Other than Pensions
for TriMet**

As of January 1, 2014

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April 18, 2014



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April 18, 2014

Mr. Dave Auxier
Executive Director, Finance & Administration
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**Re: GASB 45 Actuarial Valuation of Postemployment Benefits
as of January 1, 2014**

At the request of TriMet, we have completed an actuarial valuation of TriMet's postemployment benefits as of January 1, 2014.

The purpose of this report is to determine the Annual Required Contribution and provide required financial disclosures under the Governmental Accounting Standards Board Statement No. 45 – *Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions* (GASB 45). Our determinations reflect the procedures and methods prescribed in GASB 45.

In preparing our report, we relied on accounting and benefits information and employee data furnished to us by TriMet. While Milliman has not audited the benefits information and census data, we reviewed them for reasonableness and they are, in our opinion, sufficient and reliable for the purposes of our calculations. If any of the information summarized in this report is inaccurate or incomplete, the results could be materially affected and this report may need to be revised.

The results contained in this report do not reflect all potential changes in future health costs due to the passage of the Patient Protection and Affordable Care Act. The impact on future health care costs due to this legislation will depend on a number of factors, including future regulations that are not yet known. An analysis of the impact of health care reform on future plan costs was beyond the scope of this report.

Actuarial computations under GASB 45 are for purposes of fulfilling financial accounting requirements. The calculations reported herein have been made on a basis consistent with our understanding of GASB 45. Determinations for purposes other than meeting financial accounting requirements may be significantly different from the results reported herein. Accordingly, additional determinations are needed for other purposes.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization

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period); and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements.

Milliman's work is prepared solely for the use and benefit of TriMet.

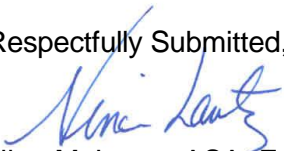
Milliman does not intend to benefit or create a legal duty to any third party recipient of this report. No third party recipient of Milliman's work product should rely upon this report. Such recipients should engage qualified professionals for advice appropriate to their own specific needs.

The consultants who worked on this assignment are pension actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices. We further certify that all costs, liabilities, rates of interest, and other factors in this valuation have been determined on the basis of actuarial assumptions and methods which, taking into account the experience of TriMet and reasonable expectations, are reasonable both individually and in combination. TriMet has reviewed and approved these assumptions and methods.

We are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully Submitted,



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Principal and Consulting Actuary



William H. Clark-Shim, FSA, EA, MAAA
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NML:WHC:wp

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SECTION I. EXECUTIVE SUMMARY

Introduction

Milliman, Inc. (“Milliman”) has been retained by TriMet to provide a GASB 45 actuarial valuation of its postemployment benefits (OPEB). In our valuation we:

- Project expected payouts for the next 10 years
- Calculate the present value of benefits
- Calculate the actuarial accrued liability (present value of benefits attributable to past service)
- Reconcile January 1, 2013 actuarial results to January 1, 2014 actuarial results
- Determine the Annual Required Contribution (ARC) and Annual OPEB Cost under GASB 45, for the fiscal year ending June 30, 2014 and project the ARC and Annual OPEB Cost for the fiscal year ending June 30, 2015
- Prepare draft financial statement disclosures relating to the funded status of the plan

Unless otherwise specified, all amounts shown prior to January 1, 2014 were amounts shown in the December 31, 2012 actuarial valuation report prepared by The Segal Company.

Results of Study

The valuation results are summarized in the following exhibit and compared with the results of the prior valuation.

	<u>January 1, 2014</u>	<u>January 1, 2013</u>
Active Employees	2,533	2,456
Retirees	1,297	1,224
Surviving Spouses	<u>143</u>	<u>147</u>
Total Participants	3,973	3,827
Spouses of Retirees	776	695
Present Value of Benefits	\$ 1,492,482,631	\$ 1,219,552,319
Actuarial Accrued Liability	\$ 949,993,362	\$ 852,755,665
Assets	<u>400,928</u>	<u>400,680</u>
Unfunded Actuarial Accrued Liability	\$ 949,592,434	\$ 852,354,985
Normal Cost	\$ 49,472,552	\$ 39,752,252

The results of the January 1, 2014 valuation will be used to prepare GASB 45 accounting results for the fiscal year ending June 30, 2014 and a projection of the GASB 45 accounting results for the fiscal year ending June 30, 2015. Accounting results are developed in Exhibits 2, 4 and 5.

SECTION I. EXECUTIVE SUMMARY

The summary exhibit above uses the following terms:

The **Present Value of Benefits** is the present value of projected benefits (projected costs less retiree contributions) discounted at the valuation discount rate.

The Present Value of Benefits is allocated over the service for each active employee from their date of hire to their expected retirement age, as a level percent of the employee's pay. This level percent times pay is referred to as the **Normal Cost**, and is that portion of the Present Value of Benefits attributable to an employee's service in the current year. The Normal Cost equals \$0 for retired members.

The **Actuarial Accrued Liability (AAL)** is the Present Value of Benefits less the actuarial present value of future Normal Costs and represents the liabilities allocated to service up to the valuation date. For retirees, the Actuarial Accrued Liability is equal to the Present Value of Benefits.

The **Unfunded Actuarial Accrued Liability (UAAL)** is the Actuarial Accrued Liability offset by any assets set aside to provide retiree health benefits.

Background

GASB 45 is a governmental accounting standard released in June 2004 which requires public-sector employers to apply accrual accounting to OPEB offerings to its retirees and their dependents.

The accounting applies to two broad classifications of benefits, which are discussed in greater detail in Appendix A for Union members and Appendix F for Non-Union members. First, GASB 45 requires that future employer-paid OPEB, such as an employer contribution towards retiree medical insurance, be recognized over the working lifetime of an employee – that is, the cost is recognized prior to the employee's retirement. GASB also requires that, under certain circumstances, an employer must recognize an implicit subsidy arising from allowing retirees to continue medical coverage, even if the retirees pay the "full" premium charged by the insurance carrier. This implicit subsidy arises from the fact that health care premiums do not increase with age, whereas health care costs do increase with age.

The actuarial valuation process involves projecting the costs of retiree benefits in years following the valuation date, based upon the active and retired membership as of the valuation date. Exhibit 1 shows the projection of these costs over the next ten years. These costs are then assigned to past service and future service, as shown in Exhibit 2. The ARC – which is the accrual cost for accounting purposes – is developed in Exhibit 5 as the sum of the Normal Cost and an amortized portion of the Unfunded Actuarial Accrued Liability. The Annual OPEB Cost is the ARC, plus accounting adjustments required under GASB 45. Finally, the Net OPEB Obligation is calculated by netting the Annual OPEB Cost against the cost of benefits actually paid in the current fiscal year. In other words, the accrual cost is netted against the current cost, and the difference is the remaining accrual to be paid in future years. The Net OPEB obligation accumulates over time as the sum of annual accrual costs, less current year costs, with interest.

SECTION I. EXECUTIVE SUMMARY

Assuming TriMet does not increase funding of its OPEB benefits through its trust fund, GASB 45 essentially recognizes the Unfunded Actuarial Accrued Liability over time on the District's balance sheet.

Assumptions

With any valuation of future benefits, assumptions of anticipated future events are required. TriMet approved the assumptions used herein which were developed in consultation with Milliman.

Discount Rate. GASB 45 requires that the interest rate used to discount future benefit payments back to the present day be based on the expected rate of return on any investments set aside to pay for these benefits. If no funds are set aside for this purpose, the discount rate would be based on the expected return on TriMet's operating funds. Although the District established a separate, irrevocable trust dedicated to OPEB costs valued at about \$400,000, the plan is funded on a pay-as-you-go basis. We have, therefore, used a discount rate of 3.75% based on long-term expectations of investment return for the Oregon Local Government Investment Pool or similar investments, which are representative of TriMet's general financial assets.

Health Cost Trend. In future years, the medical cost trend varies from 6.00% to 7.00% depending upon the timing of the excise tax scheduled to affect health care benefits beginning in 2019. The trend then settles to an ultimate rate of 5.00%. Appendices D and I display the complete trends for the Union and Non-Union Plans respectively. In addition, dental and Medicare Part B costs are assumed to increase 5.00% per year. These trends were developed based upon a model circulated by the Society of Actuaries.

Demographic Assumptions. With limited exceptions, we followed the demographic assumptions used for the actuarial valuation of the TriMet Retirement Plan for Management & Staff Employees (Non-Union) and the actuarial valuation of the Pension Plan for Bargaining Unit Employees of TriMet (Union), including recommended assumptions based on the Union Plan's 2013 Experience Study report.

Complete summaries of the actuarial assumptions are presented in Appendix D for the Union Plan and Appendix I for the Non-Union Plan.

Variability of Results

The results contained in this report represent reasonable estimates. However, variation from these or any other estimates of future retiree medical costs is not only possible but probable. Actual future costs may vary significantly from estimates in this report.

Valuation results are particularly sensitive to the assumptions used to project future health care cost increases (health care cost trend). Exhibit 7 shows a comparison of valuation results based on valuation assumptions and based on a one percent change in the health care cost trend.

SECTION I. EXECUTIVE SUMMARY

Exhibit 3 reconciles the Actuarial Accrued Liability measured in the prior valuation to the amount calculated for this valuation and estimates the amount and source of unexpected changes. Significant differences between actual and expected liability can come from health cost trend or demographic experience which differ from expectations. Changes to benefits offered or to valuation assumptions can also affect liabilities.

The District should note that liabilities for implicit subsidies are calculated as the difference between expected claims and premiums. A relatively small percentage change to expected claims or premiums can affect the net liability by a larger percentage. This is one of several reasons why GASB 45 implicit subsidy liabilities tend to be more volatile than pension liabilities.

SECTION II. EXHIBITS

Exhibit 1. Projected Benefit Payments – Union Members

The table below illustrates the projected pay-as-you-go costs of providing retiree OPEB for Union members. The projections only consider the current group of employees and retirees and their current benefit structure.

<i>Year Ending Dec 31,</i>	<i>Projected Costs</i>	<i>Retiree Premiums</i>	<i>Retiree Life Insurance</i>	<i>Total Benefits</i>
2014	\$ 21,811,981	\$ 0	\$ 343,818	\$ 22,155,799
2015	24,524,315	0	371,505	24,895,820
2016	27,344,063	0	399,095	27,743,158
2017	30,104,399	0	426,607	30,531,006
2018	32,739,233	0	454,923	33,194,156
2019	35,660,082	0	484,720	36,144,802
2020	38,716,109	0	513,247	39,229,356
2021	41,512,124	0	540,849	42,052,973
2022	44,246,520	0	568,296	44,814,816
2023	47,253,292	0	596,534	47,849,826

SECTION II. EXHIBITS

Exhibit 1. Projected Benefit Payments – Non-Union Members

The table below illustrates the projected pay-as-you-go costs of providing retiree OPEB for the Non-Union members. The projections only consider the current group of employees and retirees and their current benefit structure.

<i>Year Ending Dec 31,</i>	<i>Projected Costs</i>	<i>Retiree Premiums</i>	<i>Retiree Life Insurance</i>	<i>Total Benefits</i>
2014	\$ 1,794,925	\$ (87,553)	\$ 34,171	\$ 1,741,543
2015	2,083,067	(102,634)	36,135	2,016,568
2016	2,378,076	(117,379)	38,505	2,299,202
2017	2,673,443	(133,045)	41,132	2,581,530
2018	2,974,667	(149,328)	44,109	2,869,448
2019	3,242,239	(165,192)	47,817	3,124,864
2020	3,486,001	(179,742)	51,339	3,357,598
2021	3,615,437	(195,003)	55,192	3,475,626
2012	3,911,248	(223,264)	58,970	3,746,954
2023	4,277,197	(257,128)	63,038	4,083,107

SECTION II. EXHIBITS

Exhibit 2. Liabilities and Normal Cost

The **Present Value of Benefits** is the actuarial present value of projected benefits (projected costs less retiree contributions) expected to be paid for all current retirees and current covered employees who are expected to retire and become eligible for OPEB in the future.

The Present Value of Benefits is allocated over the service for each active employee from their date of hire to their expected retirement age, as a level percent of the employee's pay. This level percent times pay is referred to as the **Normal Cost**, and is that portion of the Present Value of Benefits attributable to an employee's service in the current year. The Normal Cost equals \$0 for retired members. Normal costs are increased from the valuation dates to the fiscal year end dates using a combination of the discount rate and health care cost trend assumptions.

The **Actuarial Accrued Liability (AAL)** is the Present Value of Benefits less the actuarial present value of future Normal Costs and represents the liabilities allocated to service up to the valuation date. For retirees, the Actuarial Accrued Liability is equal to the Present Value of Benefits.

	<i>Valuation Date</i>			<i>January 1, 2013</i>
	<i>January 1, 2014</i>		Total	
	Union	Non-Union		Total
<i>Present Value of Benefits</i>				
Actives	\$1,033,382,926	\$ 74,193,332	\$1,107,576,258	\$ 855,930,523
Retirees	<u>359,265,224</u>	<u>25,641,149</u>	<u>384,906,373</u>	<u>363,591,796</u>
Total	\$1,392,648,150	\$ 99,834,481	\$1,492,482,631	\$1,219,522,319
<i>Actuarial Accrued Liability</i>				
Actives	\$ 510,271,524	\$ 54,815,465	\$ 565,086,989	\$ 489,163,869
Retirees	<u>359,265,224</u>	<u>25,641,149</u>	<u>384,906,373</u>	<u>363,591,796</u>
Total	\$ 869,536,748	\$ 80,456,614	\$ 949,993,362	\$ 852,755,665
<i>Normal Cost</i>				
As of Valuation Date	\$ 46,863,872	\$ 2,608,680	\$ 49,472,552	\$ 39,752,252
FYE June 30, 2013				\$ 40,636,836
FYE June 30, 2014	\$ 47,734,483	\$ 2,657,143	\$ 50,391,626	
FYE June 30, 2015	\$ 50,694,021	\$ 2,821,885	\$ 53,515,906	

SECTION II. EXHIBITS

Exhibit 3. Reconciliation of Valuation Results

This exhibit reconciles the results of the prior January 1, 2013 valuation with the results of the current January 1, 2014 valuation. The January 1, 2013 Actuarial Accrued Liability (AAL) and Normal Cost are brought forward in time with interest and reduced by benefits expected to have been received.

Expected January 1, 2014 AAL	
(1) January 1, 2013 AAL	\$852,755,665
(2) January 1, 2013 Normal Cost	39,752,252
(3) Expected Benefits Received, January 1, 2013 – December 31, 2013	23,172,795
(4) Interest on Items (1) through (3)	<u>39,641,468</u>
(5) Expected January 1, 2014 AAL = (1) + (2) - (3) + (4)	\$908,976,590

Reconciliation to Actual January 1, 2014 AAL		As a Percent of Expected AAL
(6) Changes from Prior Valuation	\$ 11,391,045	1%
(7) Health Cost (Gain) / Loss	(40,157,873)	-4%
(8) Changes in Other Assumptions	(28,164,516)	-3%
(9) Change in Discount Rate	97,948,116	11%
(10) Changes in Benefit Conditions	<u>0</u>	0%
(11) Actual January 1, 2014 AAL = (5) + (6) + (7) + (8) + (9) + (10)	\$949,993,362	

Actuarial gains and losses result from differences between the expectations of the prior valuation and the remeasurement of the current valuation.

Changes from the prior valuation include demographic gains and losses and changes in trend. Demographic gains and losses come from many sources, such as actual rates of termination, retirement, and election of health care benefits that differ from the actuarial assumptions. New entrants into the population generate demographic losses.

Health cost gains and losses result from differences in projected health care costs as of January 1, 2014 compared with projections based on the January 1, 2013 valuation. In many cases, these gains and losses may be the largest source of gain or loss from one valuation to the next. It captures changes in health care coverages offered by TriMet or elected by retirees as well as changes to assumptions about future health care costs. Beginning January 1, 2014, health care for Medicare eligible retirees in the Non-Union Plan will only be offered through Kaiser or United Healthcare and will cease under the Regence PPOs.

The changes in other assumptions reflect changes in demographic assumptions and other health care related assumptions, such as assumed future coverage elections for retirees and spouses. Appendix D and Appendix I describe the changes in assumptions since the prior valuation for the Union and Non-Union Plans respectively.

SECTION II. EXHIBITS

There have been no changes since the prior valuation in benefit conditions such as eligibility for or duration of coverage, as described in Appendix A (Union Plan) and Appendix F (Non-Union Plan).

SECTION II. EXHIBITS

Exhibit 4. Unfunded Actuarial Accrued Liability

The Unfunded Actuarial Accrued Liability (UAAL) is the Actuarial Accrued Liability offset by any assets set aside to provide retiree health benefits. This is equal to the value of the retiree health benefits accrued to date that has not been funded. The UAAL is amortized over a fixed number of years and included in the ARC amount (shown in Exhibit 5).

The amortization of UAAL was calculated as a level percent of pay over a closed period of 30 years beginning January 1, 2008. The amortization period as of January 1, 2014 is 24 years. Amortization amounts are expected to increase at the same rate as total pay increases each year. TriMet's total payroll is assumed to increase 3.00% per year.

UAAL amortization payments are increased from the valuation dates to the fiscal year end dates using the discount rate assumption. The UAAL amortization payment for the fiscal year end June 30, 2015 is based upon the amortization of projected UAAL as of January 1, 2015.

	<u>January 1, 2014</u>			<u>January 1, 2013</u>
	Union	Non-Union	Total	Total
Unfunded Actuarial Liability (UAAL)				
Actuarial Accrued Liability	\$ 869,536,748	\$ 80,456,614	\$ 949,993,362	\$ 852,755,665
Actuarial Value of Assets	<u>400,928</u>	<u>0</u>	<u>400,928</u>	<u>400,680</u>
Unfunded Actuarial Accrued Liability	\$ 869,135,820	\$ 80,456,614	\$ 949,592,434	\$ 852,354,985
Amortization of UAAL for ARC				
Amortization Factor	22.1067	22.1067	22.1067	21.1324
Amortization Amount as of				
Valuation Date	\$ 39,315,493	\$ 3,639,467	\$ 42,954,960	\$ 40,334,018
June 30, 2013				\$ 41,231,547
June 30, 2014	\$ 40,045,874	\$ 3,707,079	\$ 43,752,953	
June 30, 2015	\$ 44,449,502	\$ 4,043,860	\$ 48,493,362	
Discount Rate	3.75%	3.75%	3.75%	4.50%
Amortization Period	24 years	24 years	24 years	25 years

SECTION II. EXHIBITS

Exhibit 5. Projected Financial Statement Disclosures

The following table shows the estimated Annual Required Contribution and Net OPEB Obligation for the fiscal years ending June 30, 2014 and June 30, 2015.

	<i>For the Fiscal Year Ending</i>	
	<i>June 30, 2014</i>	<i>June 30, 2015</i>
<i>Determination of Annual Required Contribution</i>		
(1) Normal Cost at year end	\$ 50,391,626	\$ 53,515,906
(2) Amortization of UAAL	<u>43,752,953</u>	<u>48,493,362</u>
(3) Annual Required Contribution (ARC) (1) + (2)	\$ 94,144,579	\$102,009,268
<i>Determination of Net OPEB Obligation</i>		
(4) Annual Required Contribution	\$ 94,144,579	\$102,009,268
(5) Interest on prior year Net OPEB Obligation	13,342,243	15,927,906
(6) Adjustment to ARC *	<u>(16,393,350)</u>	<u>(20,349,325)</u>
(7) Annual OPEB Cost (4) + (5) + (6)	\$ 91,093,472	\$ 97,587,849
(8) Expected Benefit Payments	<u>(22,142,465)</u>	<u>(25,404,865)</u>
(9) Increase in Net OPEB Obligation (7) + (8)	\$ 68,951,007	\$ 72,182,984
(10) Net OPEB Obligation – beginning of year	\$355,793,140	\$424,744,147
(11) Net OPEB Obligation – end of year (9) + (10)	424,744,147	496,927,131

* Based upon beginning of year Net OPEB Obligation divided by ARC amortization factor shown in Exhibit 4, and given interest to end of year.

SECTION II. EXHIBITS

Exhibit 5. Projected Financial Statement Disclosures (continued)

The following table shows historical Annual OPEB Cost and Net OPEB Obligation. For a given fiscal year end disclosure, results for the current year and the preceding two years are required to be shown.

<i>Fiscal Year Ended</i>	<i>Annual OPEB Cost</i>	<i>Percentage of OPEB Cost Contributed</i>	<i>Net OPEB Obligation</i>
6/30/2011	\$86,201,496	18%	\$222,846,785
6/30/2012	\$84,724,527	20%	\$290,554,292
6/30/2013	\$80,888,139	19%	\$355,793,140
6/30/2014	\$91,093,472	24%*	\$424,744,147
6/30/2015	\$97,587,849	26%*	\$496,927,131

* Based upon Expected Benefit Payments.

Funded Status and Funding Progress. As of January 1, 2014, the most recent actuarial valuation date, the plan was 0.04% percent funded. The Actuarial Accrued Liability was \$949,993,362, and the value of assets was \$400,928, resulting in an Unfunded Actuarial Accrued Liability of \$949,592,434.

SECTION II. EXHIBITS

Exhibit 6. Required Supplementary Information

The following table shows a schedule of Funding Progress required under GASB 45.

<i>Actuarial Valuation Date</i>	<i>Actuarial Value of Assets</i>	<i>Actuarial Accrued Liability (AAL)</i>	<i>Unfunded AAL (UAAL)</i>	<i>Funded Ratio</i>	<i>Covered Payroll</i>	<i>UAAL as a Percentage of Covered Payroll</i>
01/01/2012	\$ 0	\$ 900,541,291	\$ 900,541,291	0%	\$ 151,448,186	595%
01/01/2013	400,680	852,755,665	852,354,985	0%	151,180,107	564%
01/01/2014	400,928	949,993,362	949,592,434	0%	145,468,672	653%

SECTION II. EXHIBITS

Exhibit 7. Valuation Results – Sensitivity of Economic Assumptions

The following exhibit shows the results of the valuation based on alternate health care cost trend assumptions to illustrate the sensitivity of changes of the valuation results to changes in the health care cost trend. The alternate health care cost trend assumptions are 1% higher or 1% lower than the valuation assumptions in all future years.

<i>Discount Rate</i>	3.75%	3.75%	3.75%
<i>Ultimate Trend Rate</i>	5.00%	4.00%	6.00%
Actuarial Accrued Liability (AAL)	\$ 949,993,362	\$ 810,462,451	\$ 1,125,679,960
Change in AAL		\$ (139,530,911)	\$ 175,686,598
Normal Cost	\$ 49,472,552	\$ 39,568,465	\$ 62,753,189
Change in Normal Cost		\$ (9,904,087)	\$ 13,280,637

SUMMARY OF BENEFITS VALUED

The following summary is intended only to describe our understanding of the essential features of the postemployment benefits other than pensions (OPEB) provided to current and future Union retirees of TriMet as of December 31, 2013. All eligibility requirements and benefit amounts shall be determined in strict accordance with the relevant documents, including collective bargaining agreements. To the extent that this summary does not accurately reflect any OPEB provisions, the results of this valuation may need to be revised.

There are two categories of OPEB valued under GASB 45: explicit employer benefits and implicit employer subsidies. Explicit employer benefits are paid from the employer to the retiree or from the employer to a benefits provider on behalf of the retiree. Implicit employer subsidies arise from offering benefits to retirees.

Explicit employer benefits under GASB 45 include retiree medical, dental and life insurance coverage, where the employer pays for all or a portion of such coverage. Termination benefits, such as payout of unused sick leave or conversion of such payout to an individual account, are not accounted for under GASB 45.

Implicit employer subsidies under GASB 45 represent the difference between the premiums charged for coverage and the expected claims resulting from that coverage. One common implicit subsidy in Oregon comes from offering pre-Medicare health care insurance coverage to retirees based on the same gross premium rates as are charged to active employees. Health care premiums, priced only for retirees who on average incur higher health care claims costs than younger active employees, would be more expensive than health care premiums that are priced to cover the average costs of both actives and retirees combined. GASB 45 states that this implicit subsidy must be included in the liabilities and costs reported on the entity's financial statements. The liability from the explicit employer benefits plus the implicit employer subsidies equals the total Actuarial Accrued Liability (AAL) under GASB 45.

Beginning in 2018, an excise tax of 40% is scheduled to apply to the portion of group health care plan costs that exceeds thresholds set under law. While many details of this excise tax are still unknown, its overall structure is clear enough that actuaries are generally making an estimate of its potential impact when performing OPEB valuations. We have modeled the impact of the excise tax in this valuation. The effect of the excise tax can be observed by the increase in trend rates beginning in 2019 for pre-65 medical benefits, and in 2029 for post-65 medical benefits.

To our knowledge, the summary below covers all OPEB for Union retirees of TriMet which result in material AAL under GASB 45. If additional retiree benefits may result in AAL under GASB 45, the results of this valuation may need to be revised.

Eligibility

Retirees who were employees immediately prior to retirement after attaining age 55 and 10 years of continuous service or who became disabled after 10 years of continuous service are eligible for OPEB benefits.

Health Care Benefits

Medical, prescription drug, and dental benefits are provided to all covered retirees, spouses and domestic partners. Dependents receive all benefits except dental. Retirees also get reimbursed for Medicare Part B premiums.

Benefits are payable over the life of the retiree and spouse or domestic partner while both are alive. Following the retiree's death, benefits continue to the surviving spouse or domestic partner until the earlier of the survivor's death or 16 years after the retiree's death.

Retirees and their dependents under age 65 may continue to receive the same health care coverage received prior to retirement. Health insurance premiums for retirees who are not eligible for one of TriMet's Medicare companion plans are underwritten together with active employees. Retirees living within the service coverage area must enroll in a Medicare companion plan upon reaching Medicare eligibility.

Retirees do not contribute to the cost of health care insurance coverage.

The implicit employer subsidy is measured as the expected health care cost per retiree and dependent, less the gross premiums charged by the insurance carrier for that coverage. The subsidy is not measured for retirees and spouses who are Medicare-eligible and elect coverage under Kaiser Senior Advantage because the provider's premiums are community rated and not adjusted for TriMet Union member demographics.

We are not aware of any additional implicit employer OPEB subsidies which result in GASB 45 AAL.

Life Insurance Benefits

Eligible retirees are provided a \$10,000 whole life insurance benefit fully paid by TriMet.

Changes since the Prior Valuation

None.

OPEB COSTS AND PREMIUMS

The following methods were used to establish costs and premiums for purposes of measuring the OPEB liability.

Health Care Premiums per Month

Current health insurance premiums charged by providers are shown below. Premiums are the same for full-time and mini-run operators.

Provider / Covered Group	January – December 2014	
	Retired after 1991	Retired prior to 1992
Regence PPO		
Retiree Only	\$ 834.65	\$ 744.40
Retiree & Spouse/Domestic Partner	1,752.80	1,493.55
Retiree & Child(ren)	1,460.70	1,334.00
Family	2,337.05	2,022.15
United Healthcare / Secure Horizons		
Oregon, per person	\$ 568.53	N/A
Washington, per person	498.04	N/A
Kaiser Permanente		
Retiree Only	\$ 660.75	\$ 984.51
Retiree & Spouse/Domestic Partner	1,321.50	1,969.02
Retiree & Child(ren)	1,189.35	1,772.12
Family	1,982.24	2,953.53
Medicare, Single*	485.50	514.12
Moda Dental		
Retiree Only	\$ 45.59	\$ 45.59
Retiree & Spouse/Domestic Partner	86.17	86.17
Willamette Dental		
Retiree Only	\$ 39.45	\$ 39.45
Retiree & Spouse/Domestic Partner	71.95	71.95

* Over age 65 members with Medicare Part A and B coverage

Medicare Part B

The standard Part B premium for individuals earning \$85,000 or less (or \$170,000 or less if married filing jointly) was \$104.90 per month for 2013 and 2014.

Expected Health Care Costs Per Person per Month

Expected health care costs were developed using a composite of the premiums due for active and retired members electing coverage as of December 31, 2013 except as noted below. The effective date of the premiums provided as of the valuation date was January 1, 2014.

- Expected health care costs for Medicare-eligible members electing Kaiser are equal to the community rated premiums charged by the provider and are not age adjusted.
- Expected health care costs for Medicare-eligible members electing United Healthcare were developed based on the Oregon coverage and pro-rated for Washington coverage by the relative level of premiums.
- Expected health care costs for pre-65 retirees who retired before 1992 and are covered under Regence or Kaiser were developed based on the coverage of pre-65 retirees who retired after 1991 and pro-rated by the relative level of premiums.
- Expected dental costs for Moda Dental and Willamette Dental were blended based on the current covered population. The blended premium rates were \$44.00 per employee per month and \$83.97 per month for employee and spouse coverage.

Milliman's Health Cost Guidelines were used to allocate costs by age and gender. Retirees' costs include a load for expected health status of retirees relative to active employees and spouses.

Robert Schmidt, FSA and health consultant with Milliman, assisted in the development of the per capita claims costs.

For the period January 1, 2014 – December 31, 2014:

Regence – Retired after 1991				
<u>Age</u>	Retiree		Spouse	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
55	\$1,057.24	\$1,113.40	\$975.87	\$1,069.19
60	1,297.47	1,266.90	1,170.66	1,216.94
64	1,629.06	1,470.29	1,432.82	1,385.91
65	582.38	585.10	582.38	585.10
70	667.89	643.28	667.89	643.28
75	742.44	700.06	742.44	700.06
80	791.88	741.80	791.88	741.80
85	805.83	748.12	805.83	748.12

Kaiser – 65 and Older				
	Retired After 1991		Retired Prior to 1992	
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
65+	\$ 485.50	\$ 485.50	\$ 514.12	\$ 514.12

Kaiser – Under 65 – Retired after 1991				
	Retiree		Spouse	
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
55	\$ 914.21	\$ 962.76	\$ 848.79	\$ 929.48
60	1,121.94	1,095.50	1,017.24	1,057.25
64	1,408.67	1,271.38	1,243.97	1,203.37

United Healthcare - Oregon				
	Retiree		Spouse	
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
65	565.20	559.49	565.20	559.49
70	593.74	573.36	593.74	573.36
75	608.70	584.16	608.70	584.16
80	605.56	583.22	605.56	583.22
85	575.86	557.67	575.86	557.67

United Healthcare - Washington				
	Retiree		Spouse	
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
65	\$ 495.12	\$ 490.12	\$ 495.12	\$ 490.12
70	520.12	502.27	520.12	502.27
75	533.23	511.73	533.23	511.73
80	530.48	510.91	530.48	510.91
85	504.46	488.53	504.46	488.53

Dental				
Age	Retiree		Spouse	
	Male	Female	Male	Female
55	\$40.37	\$42.85	\$41.95	\$44.42
60	44.63	45.40	46.21	46.98
65	47.37	46.41	48.95	47.98
70	48.59	46.17	50.16	47.75
75	48.59	46.17	50.16	47.75
80	48.59	46.17	50.16	47.75
85	48.59	46.17	50.16	47.75

Expected Carrier Elections

Medical and prescription drug costs for current retirees are valued based on the retiree's elected plan. For active members and retirees under age 65, post-65 coverage is valued assuming the member elects a carrier according to the percentages as shown in the following table.

Medical and prescription drug costs for future retirees are valued assuming the member elects a carrier according to the percentages as shown in the following table.

Carrier	Pre-65	Carrier	Post-65
Regence PPO	55%	Regence PPO	20%
Kaiser HMO	45%	Kaiser Senior Advantage	40%
		UHC Secure Horizons	40%
		Oregon	100%
		Washington	0%

Life Insurance

Life insurance for current and future retirees was valued at its face amount under the valuation assumptions.

Administrative Expenses

No administrative expenses were valued.

ACTUARIAL COST METHOD

The method used for this valuation is the **Entry Age Normal Actuarial Cost Method** with Normal Cost expressed as a level percent of pay.

The **Present Value of Benefits** is the present value of projected benefits (projected costs less retiree contributions) discounted at the valuation discount rate.

The Present Value of Benefits is allocated over the service for each active employee from their date of hire to their expected retirement age, as a level percent of the employee's pay. This level percent times pay is referred to as the **Normal Cost**, and is that portion of the Present Value of Benefits attributable to an employee's service in the current year. The Normal Cost equals \$0 for retired members.

The **Actuarial Accrued Liability (AAL)** is the Present Value of Benefits less the actuarial present value of future Normal Costs and represents the liabilities allocated to service up to the valuation date. For retirees, the Actuarial Accrued Liability is equal to the Present Value of Benefits.

The **Annual Required Contribution (ARC)** is the amount TriMet would be required to report as an expense for a given fiscal year under GASB 45. The ARC is equal to the Normal Cost plus an amount to amortize the unfunded AAL as a level percentage of payroll over 24 years as of December 31, 2013 on a closed basis. Note, the ARC represents an accounting expense, but TriMet is not required to contribute the ARC to a separate trust. If TriMet does not set aside funds equal to the ARC each year, then the ARC (less actual benefit payments) will accumulate as a liability (Net OPEB Obligation) on its balance sheet.

ACTUARIAL ASSUMPTIONS

ECONOMIC ASSUMPTIONS

1. Discount Rate

3.75%, based on the expected long-term annual investment returns for the Oregon Short Term Fund or equivalent vehicles.

2. Health Care Cost Trend

Health care cost trend affects both the projected health care costs as well as the projected health care premiums. Robert Schmidt, FSA and health consultant with Milliman, assisted in the development of the trend rates.

Dental and Medicare Part B: 5.0% per year.

Medical and prescription drugs:

Pre-65		Post-65	
Year	Trend Rate	Year	Trend Rate
2014	6.50%	2014	6.75%
2015-2018	6.00%	2015-2016	6.25%
2019-2023	6.25%	2017-2028	6.00%
2024-2030	7.00%	2029	6.25%
2031-2035	6.75%	2030-2033	6.50%
2036-2037	6.50%	2034	6.25%
2038-2041	6.25%	2035	6.50%
2042-2049	6.00%	2036-2037	6.75%
2050-2064	5.75%	2038-2041	6.50%
2065-2075	5.50%	2042-2046	6.25%
2076-2079	5.25%	2047-2057	6.00%
2080+	5.00%	2058-2070	5.75%
		2071-2076	5.50%
		2077-2080	5.25%
		2081+	5.00%

3. Annual Salary Increases

3.00%, compounded annually for purposes of attributing individual costs under the Entry Age Normal Actuarial Cost Method.

4. Annual Payroll Increases

3.00%, compounded annually for purposes of amortizing the unfunded AAL.

DEMOGRAPHIC ASSUMPTIONS**5. Healthy Mortality**

RP-2000 Combined Healthy Mortality Table with Blue Collar Adjustment for males and females, projected from 2000 to 2010 using Scale AA. This assumption includes a margin for future mortality improvement based on recent demographic experience.

6. Disabled Mortality

Males Annual rates of mortality are based on 75% of the Post-1994 Disability Mortality developed by the IRS (in IRS Revenue Ruling 96-7) for participants who become eligible for Social Security disability benefits, plus 25% of the RP 2000 Combined Healthy Mortality Table with Blue Collar Adjustment for males.

Females Annual rates of mortality are based on 75% of the Post-1994 Disability Mortality developed by the IRS (in IRS Revenue Ruling 96-7) for participants who become eligible for Social Security disability benefits, plus 25% of the RP 2000 Combined Healthy Mortality Table with Blue Collar Adjustment for females.

This assumption includes a margin for future mortality improvement based on recent demographic experience.

7. Withdrawal

The rates of assumed future withdrawal from active service for reasons other than death, disability or retirement at select ages are shown below.

Years of Service	Annual Rates	
	Male	Female
Less than 1	5.0%	14.0%
1-6	2.5%	3.0%
7-9	1.5%	3.0%
10+	0.5%	1.0%

8. Retirement

All active employees are assumed to retire by age 70. A certain percentage of active employees are assumed to elect retirement beginning at age 55. The rates of retirement are as follows:

Age	Annual Rates	Age	Annual Rates
55-56	4.0%	63	20.0%
57	7.5%	64	25.0%
58-60	11.0%	65	30.0%
61	20.0%	66-69	40.0%
62	35.0%	70+	100.0%

9. Disablement

The rates of disablement used in this valuation are 70% of the 1985 Pension Disability Table, Class 3, Unisex (for nonhazardous light manual workers). Rates at select ages are shown below.

Age	Annual Rates
30	0.2%
35	0.3%
40	0.4%
45	0.6%
50	0.9%
55	1.5%
60	2.2%

10. Future Retiree and Spouse Coverage

All active members eligible for health care coverage are assumed to elect coverage upon retirement or disability. 75% of male members and 50% of female members who elect coverage upon retirement are assumed to elect spouse coverage.

11. Spouse Age

Females are assumed to be two years younger than males.

DATA PROCESSING

The census data provided by TriMet was essentially complete. Data deficiencies, if any, which we deemed could be material to the overall valuation results were reported to TriMet with a request to fix the deficiencies.

CHANGES TO ASSUMPTIONS SINCE THE PRIOR VALUATION

The following items have changed since our prior valuation:

- The discount rate was decreased from 4.50% as of December 31, 2012 to 3.75% compounded annually.
- Health care claims costs and trend rates were updated.
- The following demographic assumptions were updated according to the recommendations proposed in the 2013 Experience Study report performed for the Pension Plan for Bargaining Unit Employees of TriMet.
 - Disability incidence and mortality
 - Retirement rates
 - Withdrawal rates
 - Spouse age difference

SUMMARY OF PARTICIPANT DATA

The following is a summary of participant data used in our analysis as of January 1, 2014, and is based on information provided by TriMet. All data for valuation purposes was accepted without audit.

	Count	Average Age
Active	2,120	49.8
Healthy Retiree – Under 65	269	62.0
Healthy Retiree – Over 65	694	72.1
Disabled Retiree – Under 65	137	57.4
Disabled Retiree – Over 65	62	67.8
Surviving Spouse – Under 65	31	57.5
Surviving Spouse – Over 65	<u>108</u>	<u>77.7</u>
Total	3,421	56.9
Spouses of Retirees	696	64.9
Average Service – Actives		
Service to Valuation Date	12.0	
Expected Future Service	11.5	

DISTRIBUTION OF ACTIVE MEMBERS BY AGE AND SERVICE

AGE	Years of Service							Total
	0 TO 4	5 TO 9	10 TO 14	15 TO 19	20 TO 24	25 TO 29	30 & Up	
Under 25	13	0	0	0	0	0	0	13
25 to 29	68	14	0	0	0	0	0	82
30 to 34	74	30	5	0	0	0	0	109
35 to 39	68	65	25	10	0	0	0	168
40 to 44	75	75	38	50	2	0	0	240
45 to 49	75	86	59	65	25	4	1	315
50 to 54	62	84	74	63	56	29	8	376
55 to 59	54	72	77	87	54	37	37	418
60 to 64	13	50	64	63	50	20	48	308
65 & Up	<u>3</u>	<u>26</u>	<u>11</u>	<u>19</u>	<u>17</u>	<u>2</u>	<u>13</u>	<u>91</u>
Total	505	502	353	357	204	92	107	2,120

SUMMARY OF BENEFITS VALUED

The following summary is intended only to describe our understanding of the essential features of the postemployment benefits other than pensions (OPEB) provided to current and future Non-Union retirees of TriMet as of December 31, 2013. All eligibility requirements and benefit amounts shall be determined in strict accordance with the relevant plan documents. To the extent that this summary does not accurately reflect any OPEB provisions, the results of this valuation may need to be revised.

There are two categories of OPEB valued under GASB 45: explicit employer benefits and implicit employer subsidies. Explicit employer benefits are paid from the employer to the retiree or from the employer to a benefits provider on behalf of the retiree. Implicit employer subsidies arise from offering benefits to retirees.

Explicit employer benefits under GASB 45 include retiree medical, dental, vision and life insurance coverage, where the employer pays for all or a portion of such coverage. Termination benefits, such as payout of unused sick leave or conversion of such payout to an individual account, are not accounted for under GASB 45.

Implicit employer subsidies under GASB 45 represent the difference between the premiums charged for coverage and the expected claims resulting from that coverage. One common implicit subsidy in Oregon comes from offering pre-Medicare health care insurance coverage to retirees based on the same gross premium rates as are charged to active employees. Health care premiums, priced only for retirees who on average incur higher health care claims costs than younger active employees, would be more expensive than health care premiums that are priced to cover the average costs of both actives and retirees combined. GASB 45 states that this implicit subsidy must be included in the liabilities and costs reported on the entity's financial statements. The liability from the explicit employer benefits plus the implicit employer subsidies equals the total Actuarial Accrued Liability (AAL) under GASB 45.

Beginning in 2018, an excise tax of 40% is scheduled to apply to the portion of group health care plan costs that exceeds thresholds set under law. While many details of this excise tax are still unknown, its overall structure is clear enough that actuaries are generally making an estimate of its potential impact when performing OPEB valuations. We have modeled the impact of the excise tax in this valuation. The effect of the excise tax can be observed by the increase in trend rates beginning in 2034 for pre-65 medical benefits, and in 2039 for post-65 medical benefits.

To our knowledge, the summary below covers all OPEB for Non-Union retirees of TriMet which result in material AAL under GASB 45. If additional retiree benefits may result in AAL under GASB 45, the results of this valuation may need to be revised.

Eligibility

Retirees who were employees immediately prior to retirement at or after attaining age 55 are eligible for OPEB benefits after they meet the following requirements:

- Tier 1 – Hired prior to April 27, 2003
 - 5 years of credited service as a Non-Union employee
- Tier 2 – Hired from April 27, 2003 through April 30, 2009
 - 10 years of credited service as a Non-Union employee
- Tier 3 – hired on or after May 1, 2009
 - 10 years of credited service as a Non-Union employee

Health Care Benefits

Medical, prescription drug, dental and vision benefits are provided to all covered retirees, spouses and domestic partners. Dependents receive all benefits except dental.

Benefits are payable over the life of the retiree and spouse or domestic partner while both are alive. Following the retiree's death, benefits continue to the surviving spouse or domestic partner until the earlier of the survivor's death or 10 years after the retiree's death.

Retirees and their dependents under age 65 may continue to receive the same health care coverage received prior to retirement. Health insurance premiums for retirees who are not eligible for one of TriMet's Medicare companion plans are underwritten together with active employees. Retirees must enroll in a Medicare companion plan upon reaching Medicare eligibility.

Retiree health benefits cease for Tier 3 retirees when the employee becomes eligible for coverage under Medicare.

Retirees pay a portion of the health care premium according to the following table.

Employee Class	Percent of Premium
Grandfathered Retiree (retired prior to January 1, 1988)	0%
Hired before May 1, 2009	
Full-time active or retiree	6%
Part-time active or retiree (worked 30-37.4 hours/week)	10%
Part-time active or retiree (worked 20-29 hours/week)	25%
Hired on or after May 1, 2009	100%

The implicit employer subsidy is measured as the expected health care cost per retiree and dependent, less the gross premiums charged by the insurance carrier for that coverage.

We are not aware of any additional implicit employer OPEB subsidies which result in GASB 45 AAL.

Life Insurance Benefits

Eligible retirees are provided a \$10,000 whole life insurance benefit fully paid by TriMet.

Changes since the Prior Valuation

Beginning January 1, 2014, health care coverage for Medicare-eligible retirees will only be offered through Kaiser or United Healthcare.

OPEB COSTS AND PREMIUMS

The following methods were used to establish costs and premiums for purposes of measuring the OPEB liability.

Health Care Premiums per Month

Current total health insurance premiums charged by providers are shown below. Premiums are the same for full-time and part-time employees.

Provider / Covered Group	January – December 2014	
	Retired after 1987	Retired prior to 1988
Regence PPO		
Retiree Only	\$ 595.40	\$ 744.40
Retiree & Spouse/Domestic Partner	1,250.25	1,493.55
Retiree & Child(ren)	1,041.85	1,334.00
Family	1,666.95	2,022.15
Regence HSA PPO		
Retiree Only	\$ 463.25	N/A
Retiree & Spouse/Domestic Partner	972.80	N/A
Retiree & Child(ren)	810.70	N/A
Family	1,297.05	N/A
United Healthcare PPO	\$ 385.54	N/A
Kaiser Permanente		
Retiree Only	\$ 450.51	\$1,003.25
Retiree & Spouse/Domestic Partner	901.01	2,006.50
Retiree & Child(ren)	810.91	1,805.85
Family	1,351.52	3,009.74
Medicare, Single*	376.17	502.77
Moda Dental		
Retiree Only	\$ 70.24	\$ 70.24
Retiree & Spouse/Domestic Partner	132.73	132.73
Kaiser Dental		
Retiree Only	\$ 40.85	\$ 40.85
Retiree & Spouse/Domestic Partner	77.21	77.21

* Over age 65 members with Medicare Part A and B coverage

Expected Health Care Costs Per Person per Month

Expected health care costs were developed using a composite of the premiums due for active and retired members electing coverage as of December 31, 2013 except as noted below. The effective date of the premiums provided as of the valuation date was January 1, 2014.

- Expected health care costs for Medicare-eligible members electing Kaiser are equal to the community rated premiums charged by the provider and are not age adjusted.
- Expected health care costs for pre-65 retirees who retired before 1988 and are covered under Regence or Kaiser were developed based on the coverage of pre-65 retirees who retired after 1987 and pro-rated by the relative level of premiums.
- Expected dental costs for Moda Dental and Kaiser Dental were blended based on the current covered population. The blended premium rates were \$66.04 per employee per month and \$126.73 per month for employee and spouse coverage.

Milliman's Health Cost Guidelines were used to allocate costs by age and gender. Retirees' costs include a load for expected health status of retirees relative to active employees and spouses.

Robert Schmidt, FSA and health consultant with Milliman, assisted in the development of the per capita claims costs.

For the period January 1, 2014 – December 31, 2014:

Regence – Retired after 1987				
	Retiree		Spouse	
Age	Male	Female	Male	Female
55	\$ 763.46	\$ 804.02	\$ 642.72	\$ 710.20
60	936.94	914.87	783.21	816.80
64	1,176.40	1,061.74	972.19	938.76
65	361.34	356.44	361.34	356.44
70	415.72	390.92	415.72	390.92
75	463.79	426.02	463.79	426.02
80	496.44	451.59	496.44	451.59
85	503.18	452.47	503.18	452.47

Kaiser – Under 65 – Retired after 1987				
	Retiree		Spouse	
Age	Male	Female	Male	Female
55	\$ 652.56	\$ 687.22	\$ 621.62	\$ 679.19
60	800.83	781.97	741.90	770.42
64	1,005.50	907.51	903.82	874.73

Kaiser – 65 and Older				
	Retired after 1987		Retired prior to 1988	
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
65+	\$ 376.17	\$ 376.17	\$ 502.77	\$ 502.77

United Healthcare				
	Retiree		Spouse	
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
65	\$366.80	\$363.85	\$366.80	\$363.85
70	391.70	377.43	391.70	377.43
75	405.90	388.74	405.90	388.74
80	405.59	390.82	405.59	390.82
85	384.63	373.94	384.63	373.94

Dental				
	Retiree		Spouse	
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
55	\$62.02	\$65.82	\$67.07	\$70.86
60	68.56	69.74	73.61	74.79
65	72.78	71.29	77.82	76.33
70	74.64	70.93	79.68	75.97
75	74.64	70.93	79.68	75.97
80	74.64	70.93	79.68	75.97
85	74.64	70.93	79.68	75.97

Expected Carrier Elections

Medical and prescription drug costs for current retirees are valued based on the retiree's elected plan. For active members and retirees under age 65, post-65 coverage is valued assuming the member elects a carrier according to the percentages as shown in the following table.

Medical and prescription drug costs for future retirees are valued assuming the member elects a carrier according to the percentages as shown in the following table.

Carrier	Pre-65	Carrier	Post-65
Regence PPO	70%	Regence PPO	0%
Regence HSA PPO	0%	Regence HSA PPO	0%
Kaiser HMO	30%	Kaiser Senior Advantage	30%
		United Healthcare	70%

Life Insurance

Life insurance for current and future retirees was valued at its face amount under the valuation assumptions.

Administrative Expenses

No administrative expenses were valued.

ACTUARIAL COST METHOD

The method used for this valuation is the **Entry Age Normal Actuarial Cost Method** with Normal Cost expressed as a level percent of pay.

The **Present Value of Benefits** is the present value of projected benefits (projected costs less retiree contributions) discounted at the valuation discount rate.

The Present Value of Benefits is allocated over the service for each active employee from their date of hire to their expected retirement age, as a level percent of the employee's pay. This level percent times pay is referred to as the **Normal Cost**, and is that portion of the Present Value of Benefits attributable to an employee's service in the current year. The Normal Cost equals \$0 for retired members.

The **Actuarial Accrued Liability (AAL)** is the Present Value of Benefits less the actuarial present value of future Normal Costs and represents the liabilities allocated to service up to the valuation date. For retirees, the Actuarial Accrued Liability is equal to the Present Value of Benefits.

The **Annual Required Contribution (ARC)** is the amount TriMet would be required to report as an expense for a given fiscal year under GASB 45. The ARC is equal to the Normal Cost plus an amount to amortize the unfunded AAL as a level percentage of payroll over 24 years as of December 31, 2013 on a closed basis. Note, the ARC represents an accounting expense, but TriMet is not required to contribute the ARC to a separate trust. If TriMet does not set aside funds equal to the ARC each year, then the ARC (less actual benefit payments) will accumulate as a liability (Net OPEB Obligation) on its balance sheet.

ACTUARIAL ASSUMPTIONS

ECONOMIC ASSUMPTIONS

1. Discount Rate

3.75%, based on the expected long-term annual investment returns for the Oregon Short Term Fund or equivalent vehicles.

2. Health Care Cost Trend

Health care cost trend affects both the projected health care costs as well as the projected health care premiums. Robert Schmidt, FSA and health consultant with Milliman, assisted in the development of the trend rates.

Dental: 5.0% per year.

Medical and prescription drugs:

Pre-65		Post-65	
Year	Trend Rate	Year	Trend Rate
2014	6.25%	2014	6.75%
2015-2033	6.00%	2015	6.00%
2034-2036	7.00%	2016	6.25%
2037-2038	6.75%	2017-2032	6.00%
2039-2043	6.50%	2033-2038	5.75%
2044-2049	6.25%	2039-2042	6.25%
2050-2060	6.00%	2043-2049	6.00%
2061-2072	5.75%	2050	5.75%
2073-2076	5.50%	2051	6.00%
2077-2081	5.25%	2052	6.50%
2082+	5.00%	2053-2060	6.25%
		2061-2068	6.00%
		2069-2074	5.75%
		2075-2078	5.50%
		2079-2083	5.25%
		2084+	5.00%

3. Annual Salary Increases

4.00%, compounded annually for purposes of attributing individual costs under the Entry Age Normal Actuarial Cost Method.

4. Annual Payroll Increases

3.00%, compounded annually for purposes of amortizing the unfunded AAL.

DEMOGRAPHIC ASSUMPTIONS**5. Healthy and Disabled Mortality**

Sex distinct, annuitant and non-annuitant projected RP-2000 Mortality Tables for 2014 as provided in IRS Notice 2013-49

6. Withdrawal

Rates at select ages are shown below:

Age	Annual Rates Male & Female	Age	Annual Rates Male & Female
20	12.00%	45	7.90%
25	11.70%	50	5.48%
30	11.31%	55	2.77%
35	10.69%	60	1.72%
40	9.60%		

7. Retirement

The actuarial valuation for the TriMet Retirement Plan for Management & Staff Employees assumes that all active participants retire at age 62, or current age if later. Because health care costs can be significantly higher for participants who retire early, more refined retirement rates were used for this valuation as shown below.

Age	Annual Rates	Age	Annual Rates
55-56	4.0%	63	20.0%
57	7.5%	64	25.0%
58-60	11.0%	65	30.0%
61	20.0%	66-69	40.0%
62	35.0%	70+	100.0%

8. Disablement

Rates at select ages are shown below:

Age	Annual Rates Male & Female	Age	Annual Rates Male & Female
20	0.02%	45	0.32%
25	0.05%	50	0.46%
30	0.08%	55	0.90%
35	0.13%	60	1.37%
40	0.18%		

9. Future Retiree and Spouse Coverage

All active members hired before May 1, 2009 and eligible for health care coverage are assumed to elect coverage upon retirement or disability. 75% of male members and 50% of female members who elect coverage upon retirement are assumed to elect spouse coverage.

50% of active members hired on or after May 1, 2009 and eligible for health care coverage are assumed to elect coverage upon retirement or disability. 70% of male members and 35% of female members who elect coverage upon retirement are assumed to elect spouse coverage.

10. Spouse Age

Female spouses are assumed to be four years younger than male retirees. Male spouses are assumed to be one year older than female retirees.

11. Lapse Rates

Members hired before May 1, 2009 are not assumed to subsequently decline coverage after retirement. The probability of members hired on or after May 1, 2009 to decline renewal of coverage after retirement is 3% per year.

DATA PROCESSING

The census data provided by TriMet was essentially complete. Data deficiencies, if any, which we deemed could be material to the overall valuation results were reported to TriMet with a request to fix the deficiencies.

CHANGES TO ASSUMPTIONS SINCE THE PRIOR VALUATION

The following items have changed since our prior valuation:

- The discount rate was decreased from 4.50% as of December 31, 2012 to 3.75% compounded annually.
- Inflation was changed to 3.0% per year and applied uniformly to all economic assumptions.
- The salary increase assumption was decreased from 5.00% to 4.00% per year.
- Health care claims costs and trend rates were updated.
- Future retiree and spouse coverage election percentages were updated.
- Carrier elections for post-65 coverage were updated.
- Lapse rates were introduced for retired members who were hired on or after May 1, 2009.
- Retirement rates were updated.
- The mortality table was updated to 2014 as described in IRS Notice 2013-49.

SUMMARY OF PARTICIPANT DATA

The following is a summary of participant data used in our analysis as of January 1, 2014, and is based on information provided by TriMet. All data for valuation purposes was accepted without audit.

	Count	Average Age
Active	413	48.8
Healthy Retiree – Under 65	33	62.2
Healthy Retiree – Over 65	95	73.1
Disabled Retiree – Under 65	6	59.7
Disabled Retiree – Over 65	1	66.0
Surviving Spouse – Under 65	1	60.0
Surviving Spouse – Over 65	<u>3</u>	<u>78.0</u>
Total	552	54.1
Spouses of Retirees	80	66.8
Average Service – Actives		
Service to Valuation Date	11.9	
Expected Future Service	9.6	

DISTRIBUTION OF ACTIVE MEMBERS BY AGE AND SERVICE

AGE	Years of Service							Total
	Hired after 5/1/09	Hired 4/27/03 to 4/30/09	11 TO 14	15 TO 19	20 TO 24	25 TO 29	30 & Up	
Under 25	0	0	0	0	0	0	0	0
25 to 29	15	0	0	0	0	0	0	15
30 to 34	18	10	3	0	0	0	0	31
35 to 39	14	21	10	0	0	0	0	45
40 to 44	12	15	12	8	3	0	0	50
45 to 49	15	23	13	9	10	2	0	72
50 to 54	11	10	9	7	11	6	2	56
55 to 59	15	7	12	10	7	5	8	64
60 to 64	8	10	8	13	15	4	12	70
65 & Up	<u>2</u>	<u>4</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>2</u>	<u>10</u>
Total	110	100	68	47	46	18	24	413