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Racine County & Racine County School Office (RCSO)

GASB 45 Actuarial Valuation Fiscal Year Ending December 31, 2013

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April 21, 2014

Margaret Hamers Racine County 730 Wisconsin Avenue Racine, WI 53403

This report summarizes the GASB actuarial valuation for the Racine County & Racine County School Office 2013 fiscal year. To the best of our knowledge, the report presents a fair position of the funded status of the plan in accordance with GASB Statement No. 45 (Accounting and Financial Reporting by Employers for Post-Employment Benefits Other Than Pensions). The valuation is also based upon our understanding of the plan provisions as summarized within the report.

The information presented herein is based on the information furnished to us by the Plan Sponsor that has been reconciled and reviewed for reasonableness. We are not aware of any material inadequacy in employee census provided by the Plan Sponsor. We have not audited the information at the source, and therefore do not accept responsibility for the accuracy or the completeness of the data on which the information is based.

The actuarial assumptions were selected by the Plan Sponsor with the concurrence of Nyhart. In our opinion, the actuarial assumptions are individually reasonable and in combination represent our estimate of anticipated experience of the Plan. All computations have been made in accordance with generally accepted actuarial principles and practice.

To our knowledge, there have been no significant events prior to the current year's measurement date or as of the date of this report that could materially affect the results contained herein.

Neither Nyhart nor any of its employees has any relationship with the plan or its sponsor that could impair or appear to impair the objectivity of this report.

Should you have any questions please do not hesitate to contact us.

Randy Gomez, FSA, MAAA Consulting Actuary Evi Laksana, ASA, MAAA Valuation Actuary There have been changes to the substantive plan provisions since the last full valuation, which was for the fiscal year ending December 31, 2011. The net impact of all of the changes below is a reduction in the County's liabilities.

- 1. All employees retiring on/after January 1, 2013 are required to have 15 years of service with Racine County to be eligible for retiree health benefits. In prior valuation, they are required to have ten years of County's service if they retire prior to January 1, 2015 and 15 years of County's service if they retire on/after January 1, 2015. Additionally, all employees are still required to meet all of the following requirements, which have not changed since prior valuations:
 - a. Are enrolled in the County's health insurance at the time of retirement.
 - b. Meet the age and other requirements for retirement under Wisconsin Retirement System (WRS).
 - c. Make the necessary premium contributions as specified by the County.
- 2. Retiree health benefits for AFSCME, HSD, Courthouse, and Attorneys have been consolidated to follow Non-Represented employee group. This affects future retirees' hire date cut-off for lifetime coverage eligibility. Below is a comparison of the hire date cut-off in current and prior valuations for the affected employee groups. All employees hired on/after the dates shown below are only eligible for retiree health benefits until Medicare eligibility, which is currently at age 65.

Employee Groups	Prior Valuations	Current Valuations
Non-Represented	September 1, 1998	September 1, 1998
AFSCME	January 1, 2000	September 1, 1998
HSD	March 1, 2000	September 1, 1998
Courthouse	January 1, 2001	September 1, 1998
Attorneys	January 1, 1999	September 1, 1998

- 3. Employees retiring on/after January 1, 2012 are no longer offered surviving spouse coverage once the surviving spouse is eligible for Medicare. Surviving spouses of certain employee groups will be able to remain on the plan until age 65.
- 4. Certain current retirees and future Deputy/Command Staff retirees have or are eligible for paid retiree life insurance benefit from the County. This was not valued in the prior valuation.

- 5. Future retirees contribution changes:
 - a. County employees (excluding Deputies and Command Staff) hired on/after January 1, 2012 and retiring on/after January 1, 2013 are no longer eligible for County explicit subsidies. These participants are able to remain on the County's plan until age 65 by paying the full cost of coverage.
 - b. Future pre-Medicare retirees meeting County's subsidy and retiree health benefits eligibility requirements will be required to pay the following contribution requirements based on years of service at retirement.

YOS at Retirement	Retiree Contribution %	Notes
20+	15%	Same premium share as actives, which is 15% of premium effective on January 1, 2014
15 – 19	25%	10% more than actives' premium share

c. Future retirees who are eligible for Medicare coverage retiring on/after January 1, 2013 are required to contribute the greater of (i) the share listed in item 5(b) above (based on years of service at retirement) and (ii) the share listed below (based on retirement year).

Retirement Year	Retiree Contribution %	Retirement Year	Retiree Contribution %	Retirement Year	Retiree Contribution %
2012	10%	2016	30%	2019	45%
2013	15%	2017	35%	2020 - 2021	50%
2014	20%	2018	40%	2022+	100%
2015	25%				

In addition to substantive plan provision changes, we have updated several actuarial assumptions since the last valuation as noted below:

- 1. Mortality rates have been updated from Wisconsin Retirement System (WRS) mortality from the Active Employee Actuarial Valuation as of December 31, 2009 to RP-2000 Combined Mortality Fully Generational Table using scale AA. This change reduced the County's liabilities.
- 2. Disability, turnover, and retirement rates have been updated to follow the assumptions used in the most recent WRS Active Employee Actuarial Valuation as of December 31, 2012. Updating the disability and turnover rates increased the County's liabilities while updating the retirement rates reduced the County's liabilities.
- 3. Trend rates have been updated to an initial rate of 9.0% decreasing by 0.5% annually to an ultimate rate of 5.0%, which increased the County's liabilities significantly.
- 4. Percentage of employees electing spousal coverage has been updated from 65% for all future retirees to 75% and 50% for male and female employees respectively. This change increased the County's liabilities.
- 5. Percentage of employees assumed to elect health coverage at retirement has been reduced from 100% to 90%, which decreased the County's liabilities.

Summary of Results

Presented below is the summary of GASB 45 results for the fiscal year ending December 31, 2013 compared to the prior fiscal years as shown in the County's Notes to Financial Statement. Summary include Racine County School Office (RCSO) results.

	As of January 1, 2012 ¹	As of January 1, 2013
Actuarial Accrued Liability	\$ 258,502,255	\$ 253,640,311
Actuarial Value of Assets	\$ 0	\$ 0
Unfunded Actuarial Accrued Liability	\$ 258,502,255	\$ 253,640,311
Funded Ratio	0.0%	0.0%
	FY 2012	FY 2013
Annual Required Contribution	\$ 16,212,518	\$ 12,371,773
Annual OPEB Cost	\$ 16,228,094	\$ 12,392,012
Annual Employer Contribution	\$ 7,511,069	\$ 10,241,100
	As of December 31, 2012	As of December 31, 2013
Net OPEB Obligation	\$ 78,122,417	\$ 80,273,329
		As of December 31, 2013
Total Active Participants		636
Total Retiree Participants		823 ²

The active participants' number above may include active employees who currently have no health care coverage. Refer to Summary of Participants section for an accurate breakdown of active employees with and without coverage.

¹ GASB 45 actuarial valuation report was not prepared in the interim year. The results shown above are based on GASB 45 actuarial valuation report for the fiscal year ending December 31, 2011.

² Including 19 former RCSO employees.

Below is a breakdown of total GASB 45 liabilities allocated to past, current, and future service as of January 1, 2013 for both the County and RCSO.

	As o	f January 1, 2013
Present Value of Future Benefits	\$	276,996,284
Active Employees		58,849,391
Retired Employees		218,146,893
Actuarial Accrued Liability	\$	253,640,311
Active Employees		35,493,418
Retired Employees		218,146,893
Normal Cost	\$	2,203,719
Future Normal Cost	\$	21,152,254

Present Value of Future Benefits is the amount needed as of January 1, 2013 and 2012 to fully fund the County's (including RCSO) retiree health care subsidies for existing and future retirees and their dependents assuming all actuarial assumptions are met.

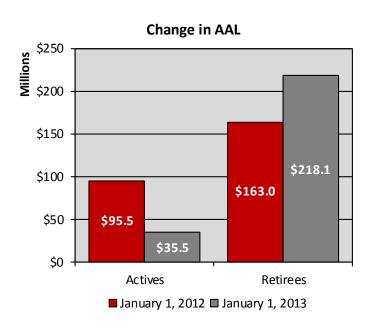
Actuarial Accrued Liability is the portion of PVFB considered to be accrued or eamed as of January 1, 2013 and 2012. This amount is a required disclosure in the Required Supplementary Information section.

Normal Cost is the portion of the total liability amount that is attributed and accrued for current year's active employee service by the actuarial cost method.

Future Normal Cost is the portion of the total liability amount that is attributed to the future employee service by the current year's valuation by the actuarial cost method.

Below is a breakdown of total GASB 45 Actuarial Accrued Liability (AAL) allocated to pre and post Medicare eligibility. The liability shown below includes explicit (if any) and implicit subsidies for both the County and RCSO. Refer to the Substantive Plan Provisions section for complete information on the Plan Sponsor's GASB subsidies.

	As of	^F January 1, 2012³	Aso	f January 1, 2013
Active Pre-Medicare		N/A	\$	19,005,282
Active Post-Medicare		N/A		16,488,136
Total Active AAL	\$	95,491,498	\$	35,493,418
Retirees Pre-Medicare		N/A	\$	54,618,265
Retirees Post-Medicare		N/A		163,528,628
Total Retirees AAL	\$	163,010,757	\$	218,146,893
Total AAL	\$	258,502,255	\$	253,640,311



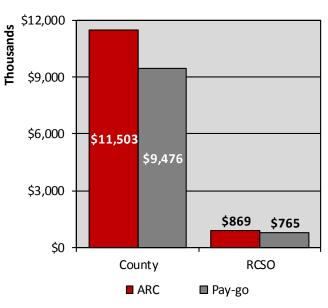
³ GASB 45 actuarial valuation was not prepared in the interim year. The results shown above are based on GASB 45 actuarial valuation for the fiscal year ending December 31, 2011.

Development of Annual Required Contribution (ARC) for FY 2013

Required Supplementary Information		County	RCSO		Total
Actuarial Accrued Liability as of beginning of year	\$	231,780,548	\$ 21,859,763	\$	253,640,311
Actuarial Value of Assets as of beginning of year		0	0		0
Unfunded Actuarial Accrued Liability (UAAL)	\$	231,780,548	\$ 21,859,763	\$	253,640,311
Unfunded Actuarial Accrued Liability (UAAL) Covered payroll	\$	231,780,548 31,507,744	21,859,763	\$	253,640,311 31,507,744

Annual Required Contribution	County	RCSO	Total
Normal cost as of beginning of year	\$ 2,203,719	\$ 0	\$ 2,203,719
Amortization of the UAAL	8,856,901	835,315	9,692,216
Total normal cost and amortization payment	\$ 11,060,620	\$ 835,315	\$ 11,895,935
Interest to end of year	442,425	33,413	475,838
Annual Required Contribution (ARC)	\$ 11,503,045	\$ 868,728	\$ 12,371,773

Cash vs Accrual Accounting (FY 2013)



Annual Required Contribution (ARC) is the annual expense recorded in the income statement under GASB 45 accrual accounting. It replaces the cash basis method of accounting recognition with an accrual method. The GASB 45 ARC is higher than the pay-as-you-go cost because it includes recognition of employer costs expected to be paid in future accounting periods.

Development of Annual OPEB Cost and Net OPEB Obligation for FY 2013

Net OPEB Obligation (NOO)	County	RCSO	Total
ARC as of end of year	\$ 11,503,045	\$ 868,728	\$ 12,371,773
Interest on NOO to end of year	3,073,790	51,107	3,124,897
NOO amortization adjustment to the ARC	(3,053,882)	(50,776)	(3,104,658)
Annual OPEB cost	11,522,953	869,059	\$ 12,392,012
Annual employer contribution for pay-go cost	\$ (9,476,167)	\$ (764,933)	(10,241,100)
Annual employer contribution for pre-funding	0	0	0
Change in NOO	\$ 2,046,786	\$ 104,126	\$ 2,150,912
NOO as of beginning of year	76,844,735	1,277,682	78,122,417
NOO as of end of year	\$ 78,891,521	\$ 1,381,808	\$ 80,273,329

Pay-as-you-go Cost is the expected total employer cash cost for the coming period based on all explicit and implicit subsidies. It is also the amount recognized as expense on the Income Statement under pay-as-you-go accounting.

Net OPEB Obligation is the cumulative difference between the annual OPEB cost and employer contributions. This obligation will be created if cash contributions are less than the current year expense under GASB 45 accrual rules.

The net obligation is recorded as a liability on the employer's balance sheet which will reduce the net fund balance.

The value of implicit subsidies is considered as part of cash contributions for the current period. Other cash expenditures that meet certain conditions are also considered as contributions for GASB 45 purposes.

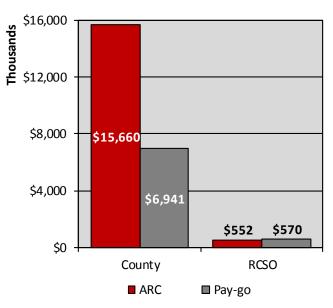
Development of Annual Required Contribution (ARC) for FY 2012

County and RCSO ARC development is as shown in the FYE 2011 prior actuary's report.

Required Supplementary Information		County	RCSO	Total
Actuarial Accrued Liability as of beginning of year	\$	244,607,174	\$ 13,895,081	\$ 258,502,255
Actuarial Value of Assets as of beginning of year		0	0	0
Unfunded Actuarial Accrued Liability (UAAL)	\$	244,607,174	\$ 13,895,081	\$ 258,502,255
Unfunded Actuarial Accrued Liability (UAAL) Covered payroll	\$ \$	244,607,174 40,559,419	\$ 13,895,081 N/A	258,502,255 40,559,419

Annual Required Contribution	County	RCSO	Total
Normal cost as of beginning of year	\$ 5,710,957	\$ 0	\$ 5,710,957
Amortization of the UAAL	9,347,038	530,965	\$ 9,878,003
Total normal cost and amortization payment	\$ 15,057,995	\$ 530,965	\$ 15,588,960
Interest to end of year	602,319	21,239	\$ 623,558
Total Annual Required Contribution (ARC)	\$ 15,660,314	\$ 552,204	\$ 16,212,518

Cash vs Accrual Accounting (FY 2012)



Annual Required Contribution (ARC) is the annual expense recorded in the income statement under GASB 45 accrual accounting. It replaces the cash basis method of accounting recognition with an accrual method. The GASB 45 ARC is higher than the pay-as-you-go cost because it includes recognition of employer costs expected to be paid in future accounting periods.

Development of Annual OPEB Cost and Net OPEB Obligation for FY 2012

Results are as shown in the Racine County Notes to Financial Statement as of fiscal year ending December 31, 2012.

Net OPEB Obligation (NOO)	County	RCSO	Total
ARC as of end of year	\$ 15,660,314	\$ 552,204	\$ 16,212,518
Interest on NOO to end of year	2,336,369	68,793	2,405,162
NOO amortization adjustment to the ARC	(2,321,238)	(68,348)	(2,389,586)
Annual OPEB cost	\$ 15,675,445	\$ 552,649	\$ 16,228,094
Annual employer contribution for pay-go cost	(6,940,854)	(570,215)	(7,511,069)
Annual employer contribution for pre-funding	0	0	0
Changein NOO	\$ 8,734,591	\$ (17,566)	\$ 8,717,025
NOO as of beginning of year	68,110,144	1,295,248	69,405,392
NOO as of end of year	\$ 76,844,735	\$ 1,277,682	\$ 78,122,417

Pay-as-you-go Cost is the expected total employer cash cost for the coming period based on all explicit and implicit subsidies. It is also the amount recognized as expense on the Income Statement under pay-as-you-go accounting.

Net OPEB Obligation is the cumulative difference between the annual OPEB cost and employer contributions. This obligation will be created if cash contributions are less than the current year expense under GASB 45 accrual rules.

The net obligation is recorded as a liability on the employer's balance sheet which will reduce the net fund balance.

The value of implicit subsidies is considered as part of cash contributions for the current period. Other cash expenditures that meet certain conditions are also considered as contributions for GASB 45 purposes.

Summary of GASB 45 Financial Results

Presented below is the summary of GASB 45 results for the fiscal year ending December 31, 2013 and prior fiscal years as shown in the County's Notes to Financial Statements.

Schedule of Funding Progress

	ASOT		Actuarial Accrued Actuarial Valu Liability (AAL) Assets (AVA		funded Actuarial ued Liability (UAAL)	Funded Ratio	Co	overed Payroll	UAAL as % of Covered Payroll		
			Α	В	C = A - B	D = B / A		E	F = C / E		
1,	County	\$	231,780,548	\$ -	\$ 231,780,548	0.0%	\$	31,507,744	735.6%		
January 2013	RCSO	\$	21,859,769	\$ -	\$ 21,859,769	0.0%	\$	-	N/A		
Jan	Total	\$	253,640,311	\$ -	\$ 253,640,311	0.0%	\$	31,507,744	805.0%		
τ,	County	\$	244,607,174	\$ -	\$ 244,607,174	0.0%	\$	40,559,419	603.1%		
January 2012	RCSO	\$	13,895,081	\$ -	\$ 13,895,081	0.0%	\$	-	N/A		
Jan	Total	\$	258,502,255	\$ -	\$ 258,502,255	0.0%	\$	40,559,419	637.3%		
1,	County	\$	244,607,174	\$ -	\$ 244,607,174	0.0%	\$	42,403,463	576.9%		
January 2011	RCSO	\$	13,895,081	\$ -	\$ 13,895,081	0.0%	\$	-	N/A		
Jan	Total	\$	258,502,255	\$ -	\$ 258,502,255	0.0%	\$	42,403,463	609.6%		

Summary of GASB 45 Financial Results (continued)

Presented below is the summary of GASB 45 results for the fiscal year ending December 31, 2013 and prior fiscal years as shown in the County's Notes to Financial Statements. Summary below includes Racine County School Office (RCSO) results.

Schedule of Employer Contributions

FYE	Employer ontributions	nnual Required tribution (ARC)	% of ARC Contributed			
	Α	В	C = A / B			
December 31, 2013	\$ 10,241,100	\$ 12,371,773	82.8%			
December 31, 2012	\$ 7,511,069	\$ 16,212,518	46.3%			
December 31, 2011	\$ 6,951,765	\$ 16,212,518	42.9%			

Historical Annual OPEB Cost

As of	Annual OPEB Cost		% of Annual OPEB Cost Contributed	Net OPEB Obligation				
December 31, 2013	\$	12,392,012	82.6%	\$	80,273,329			
December 31, 2012	\$	16,228,094	46.3%	\$	78,122,417			
December 31, 2011	\$	16,228,094	42.8%	\$	69,405,392			

The Actuarial Accrued Liability (AAL) is expected to change on an annual basis as a result of expected and unexpected events. Under normal circumstances, it is generally expected to have a net increase each year. Below is a list of the most common events affecting the AAL and whether they increase or decrease the liability.

Expected Events

- Increases in AAL due to additional benefit accruals as employees continue to earn service each year
- Increases in AAL due to interest as the employees and retirees age
- Decreases in AAL due to benefit payments

Unexpected Events

- Increases in AAL when actual premium rates increase more than expected. A liability decrease occurs when premium rates increase less than expected.
- Increases in AAL when more new retirements occur than expected or fewer terminations occur than anticipated. Liability decreases occur when the opposite outcomes happen.
- Increases or decreases in AAL depending on whether benefit provisions are improved or reduced.

For FY 2013	County	RCSO	Total
Actuarial Accrued Liability as of beginning of year ⁴	\$ 231,780,548	\$ 21,859,763	\$ 253,640,311
Normal cost as of beginning of year	2,203,719	0	2,203,719
Expected benefit payments during the year	(9,184,037)	(970,539)	(10,154,576)
Interest adjustment to end of year	9,177,491	855,170	10,032,661
Expected Actuarial Accrued Liability as of end of year	\$ 233,977,721	\$ 21,744,394	\$ 255,722,115
Actuarial (gain) / loss due to experience	0	0	0
Actuarial (gain) / loss due to provisions / assumptions changes	0	0	0
Actual Actuarial Accrued Liability as of end of year	\$ 233,977,721	\$ 21,744,394	\$ 255,722,115

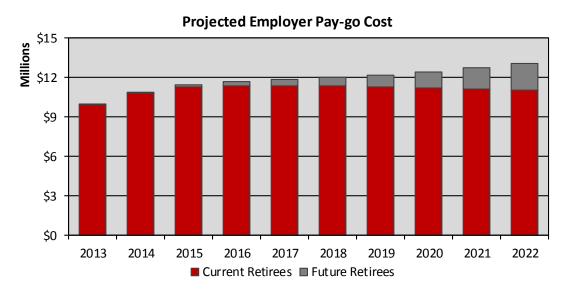
Reconciliation of AAL shows what the actuary expects the actuarial accrued liability to be at the beginning of the following fiscal year based on current assumptions and plan provisions. The expected end of year AAL will change as actual plan experience varies from assumptions. Generally, the AAL is expected to have a net increate each year.

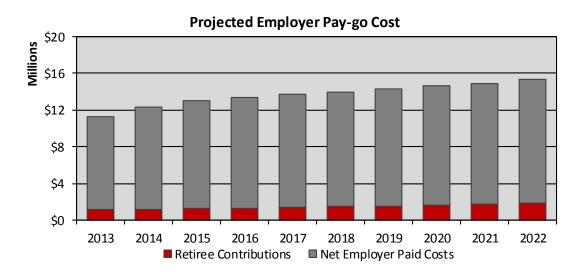
⁴ Actuarial Accrued Liability (AAL) as of beginning of year was actuarially rolled-back from end of year AAL on a "no gain/loss" basis.

The below projections show the actuarially estimated employer-paid contributions for retiree health benefits for the next ten years. Results are shown separately for current /future retirees and gross claim costs/retiree contributions for the County and RCSO. These projections include explicit and implicit subsidies.

FYE	Curi	rent Retirees	Futu	ıre Retirees⁵	Total
2013	\$	10,082,026	\$	72,550	\$ 10,154,576
2014	\$	10,989,408	\$	79,080	\$ 11,068,488
2015	\$	11,537,876	\$	178,740	\$ 11,716,616
2016	\$	11,748,573	\$	306,627	\$ 12,055,200
2017	\$	11,819,808	\$	478,649	\$ 12,298,457
2018	\$	11,803,463	\$	695,008	\$ 12,498,471
2019	\$	11,814,240	\$	932,451	\$ 12,746,691
2020	\$	11,705,479	\$	1,260,134	\$ 12,965,613
2021	\$	11,582,934	\$	1,643,135	\$ 13,226,069
2022	\$	11,447,941	\$	2,040,177	\$ 13,488,118

FYE	Estimated Claims Costs					
2013	\$	11,265,515	\$	1,110,939	\$	10,154,576
2014	\$	12,279,411	\$	1,210,923	\$	11,068,488
2015	\$	12,993,749	\$	1,277,133	\$	11,716,616
2016	\$	13,393,607	\$	1,338,407	\$	12,055,200
2017	\$	13,706,102	\$	1,407,645	\$	12,298,457
2018	\$	13,970,722	\$	1,472,251	\$	12,498,471
2019	\$	14,296,219	\$	1,549,528	\$	12,746,691
2020	\$	14,598,322	\$	1,632,709	\$	12,965,613
2021	\$	14,930,078	\$	1,704,009	\$	13,226,069
2022	\$	15,301,477	\$	1,813,359	\$	13,488,118





⁵ Projections for future retirees do not take into account future new hires.

Below is the employer contribution cash flow projections split between the County and RCSO.

	Racine County							RCSO						Total				
FYE		Current Retirees		Future Retirees ⁶		Total		Current Retirees ⁷		Future Retirees⁵		Total		Current Retirees		Future Retirees⁵		Total
2013	\$	9,111,487	\$	72,550	\$	9,184,037	\$	970,539	\$	0	\$	970,539	\$	10,082,026	\$	72,550	\$	10,154,576
2014	\$	9,931,520	\$	79,080	\$	10,010,600	\$	1,057,888	\$	0	\$	1,057,888	\$	10,989,408	\$	79,080	\$	11,068,488
2015	\$	10,396,966	\$	178,740	\$	10,575,706	\$	1,140,910	\$	0	\$	1,140,910	\$	11,537,876	\$	178,740	\$	11,716,616
2016	\$	10,513,321	\$	306,627	\$	10,819,948	\$	1,235,252	\$	0	\$	1,235,252	\$	11,748,573	\$	306,627	\$	12,055,200
2017	\$	10,548,907	\$	478,649	\$	11,027,556	\$	1,270,901	\$	0	\$	1,270,901	\$	11,819,808	\$	478,649	\$	12,298,457
2018	\$	10,548,061	\$	695,008	\$	11,243,069	\$	1,255,402	\$	0	\$	1,255,402	\$	11,803,463	\$	695,008	\$	12,498,471
2019	\$	10,488,976	\$	932,451	\$	11,421,427	\$	1,325,264	\$	0	\$	1,325,264	\$	11,814,240	\$	932,451	\$	12,746,691
2020	\$	10,394,120	\$	1,260,134	\$	11,654,254	\$	1,311,359	\$	0	\$	1,311,359	\$	11,705,479	\$	1,260,134	\$	12,965,613
2021	\$	10,295,242	\$	1,643,135	\$	11,938,377	\$	1,287,692	\$	0	\$	1,287,692	\$	11,582,934	\$	1,643,135	\$	13,226,069
2022	\$	10,192,388	\$	2,040,177	\$	12,232,565	\$	1,255,553	\$	0	\$	1,255,553	\$	11,447,941	\$	2,040,177	\$	13,488,118
		Estimated		Retiree	N	et Employer-	F	stimated		Retiree	Ne	et Employer-	<u> </u>	Estimated		Retiree	Ne	et Employer-
FYE		laims Costs	Со	ntributions		Paid Costs		ims Costs ⁶	Со	ntributions ⁶		Paid Costs		laims Costs	Co	ntributions		Paid Costs
2013	\$	10,145,646	\$	961,609	\$	9,184,037	\$	1,119,869	\$	149,330	\$	970,539	\$	11,265,515	\$	1,110,939	\$	10,154,576
2014	\$	11,058,754	\$	1,048,154	\$	10,010,600	\$	1,220,657	\$	162,769	\$	1,057,888	\$	12,279,411	\$	1,210,923	\$	11,068,488
2015	\$	11,685,459	\$	1,109,753	\$	10,575,706	\$	1,308,290	\$	167,380	\$	1,140,910	\$	12,993,749	\$	1,277,133	\$	11,716,616
2016	\$	11,971,527	\$	1,151,579	\$	10,819,948	\$	1,422,080	\$	186,828	\$	1,235,252	\$	13,393,607	\$	1,338,407	\$	12,055,200
2017	\$	12,235,393	\$	1,207,837	\$	11,027,556	\$	1,470,709	\$	199,808	\$	1,270,901	\$	13,706,102	\$	1,407,645	\$	12,298,457
2018	\$	12,512,726	\$	1,269,657	\$	11,243,069	\$	1,457,996	\$	202,594	\$	1,255,402	\$	13,970,722	\$	1,472,251	\$	12,498,471
2019	\$	12,761,136	\$	1,339,709	\$	11,421,427	\$	1,535,083	\$	209,819	\$	1,325,264	\$	14,296,219	\$	1,549,528	\$	12,746,691
2020	\$	13,083,912	\$	1,429,658	\$	11,654,254	\$	1,514,410	\$	203,051	\$	1,311,359	\$	14,598,322	\$	1,632,709	\$	12,965,613
2021	\$	13,456,490	\$	1,518,113	\$	11,938,377	\$	1,473,588	\$	185,896	\$	1,287,692	\$	14,930,078	\$	1,704,009	\$	13,226,069
2022	\$	13,872,451	\$	1,639,886	\$	12,232,565	\$	1,429,026	\$	173,473	\$	1,255,553	\$	15,301,477	\$	1,813,359	\$	13,488,118

 $^{^6}$ Projections for future retirees do not take into account future new hires. 7 Includes RCSO terminated vested employees

Eligibility

Racine County employees are eligible for retiree health benefits provided they:

- 1. Are enrolled in the County's health insurance at the time of retirement.
- 2. Meet the age and other requirements for retirement under Wisconsin Retirement System (WRS)
- 3. Have at least 15 years of service with Racine County for those retiring on/after January 1, 2013
- 4. Make the necessary premium contributions as specified by the County.

WRS requirements are as follows:

- 1. General employees:
 - a. Early retirement age 55 and vested
 - b. Normal retirement earlier of age 65 or age 57 with 30 years of service
- 2. Protective service:
 - a. Early retirement age 50 and vested
 - b. Normal retirement earlier of age 54 or age 53 with 25 years of service
- 3. Elected officials:
 - a. Early retirement age 55 and vested
 - b. Normal retirement earlier of age 62 or age 57 with 30 years of service

WRS vesting requirement is immediately for members prior to July 1, 2011 and 5 years of service for members on/after July 1, 2011.

General employees who become disabled in the line of duty are able to retire immediately and be eligible for retiree health benefits if they were hired prior to November 1, 2003. General employees who retire due to disability on/after November 1, 2003 are only eligible for COBRA coverage. All Protective service employees are eligible to retire immediately and be eligible for retiree health benefits in the event of line-of-duty disability.

Length of Coverage

Employees hired prior to the hire date cut off shown below are eligible for lifetime retiree health benefits. Everybody else are eligible for retiree health benefits until Medicare eligibility, which is currently at age 65.

Employee Groups	Hire Date Cut-Off
Non-Represented	September 1, 1998
Deputies and Command Staff	June 1, 1998
Teamsters	September 1, 2000
Ridgewood RN	January 1, 2000

Spouse Benefit

For deaths occurring on/after January 1, 2012, retiree health coverage continues to surviving spouses of retirees until they are eligible for Medicare coverage. County's explicit subsidy will continue to surviving spouses provided that the retirees receive County's explicit subsidy prior to their deaths.

Retiree Cost Sharing

Employees (except for Deputies and Command Staff) hired on/after January 1, 2012 who retire on/after January 1, 2013 are required to pay the full cost of coverage.

Retiree contribution requirements for employees hired prior to January 1, 2012 who retire on/after January 1, 2013 (including all Deputies and Command Staff) are as follows:

1. Prior to Medicare eligibility – retirees' share is based on years of service at retirement as shown below:

YOS at Retirement	Retiree Contribution %	Notes
20+ 15%		Same premium share as actives, which is 15% of premium effective
201	1370	on January 1, 2014
15 – 19	25%	10% more than actives' premium share

2. Upon Medicare eligibility – retirees' share is the greater of (a) the share based listed in item (1) above (based on years of service) and (b) the share listed below (based on retirement year)

Retirement Year	Retiree Contribution %	Retirement Year	Retiree Contribution %
2012	10%	2017	35%
2013	15%	2018	40%
2014	20%	2019	45%
2015	25%	2020 – 2021	50%
2016	30%	2022+	100%

Eligible employees who are required to retire due to disability are eligible for lifetime coverage and they will be required to contribute 15% of the premium.

Retiree contributions for existing retirees vary from 5% to 50% of premium.

One retiree has been provided County medical benefits through an arbitration settlement. The retiree is required to contribute 15% of the premium, and is able to stay on the plan until age 65.

Life Insurance

The County provides fully-paid life insurance benefits that vary from \$1,000 to \$5,000 for existing retirees who elected this coverage. Effective January 1, 2012, life insurance benefit is no longer available to all employee groups except for Deputies and Command Staff who are still eligible for a fully-paid \$5,000 life insurance benefit.

Medical Benefit

The medical and prescription health plans are self-insured (bot pre and post-Medicare benefits). Active employees are only allowed to enroll in Plan 8 at retirement. Existing are allowed to stay on the plan they chose at retirement. The premium rates effective January 1, 2014 for medical and prescription drug benefits are as shown below.

	Pre-Mo	edicare	Post-M	edicare
Plans	Single	Family	Single	Family
Plan 2	\$ 1,810	\$ 3,890	\$ 505	\$ 1,012
Plan 3	\$ 1,703	\$ 3,658	\$ 798	\$ 1,596
Plan 6A	\$ 1,488	\$ 3,199	\$ 590	\$ 1,180
Plan 6B	\$ 1,449	\$ 3,114	\$ 551	\$ 1,102
Plan 6C	\$ 1,414	\$ 3,039	\$ 509	\$ 1,017
Plan 7A	\$ 1,377	\$ 2,957	\$ 547	\$ 1,095
Plan 8	\$ 934	\$ 2,254	\$ 739	\$ 1,577

Dental Benefits

Racine County School Office

There is no GASB 45 liability for dental coverage as retirees pay the full cost of coverage.

The Racine County School Office (RCSO) will continue its contributions towards current retirees' medical premiums at the percentages that were determined at termination. The retiree health benefits coverage duration and continuation of benefits to surviving spouses depend on specific requirements that were implemented between 1999 and 2006. As of the valuation date, there are 66 existing RCSO retirees and 19 former RCSO employees who are eligible for the aforementioned benefits but have not yet started their retiree health benefits. Those who have not elected coverage as of the valuation date have been assigned terminated vested status and benefits will not commence until specific age/service requirements noted below are met. The eligibility, length of coverage, and retiree contribution requirement as a percent of premium for the 19 former RCSO employees are as follows:

Employee Groups	Commencement of Benefits	Length of Coverage	Retiree Contribution
Group 2	WRS Pension eligible	Lifetime	5% or 10%
Group 3	WRS Pension eligible	Lifetime	Between 10% to 40%
Group 4	Age 60	Until age 65	20%

The actuarial assumptions used in this report represent a reasonable long-term expectation of future OPEB outcomes. As national economic and County experience change over time, the assumptions will be tested for ongoing reasonableness and, if necessary, updated.

There are changes to the actuarial methods and assumptions since the last GASB valuation, which was for the fiscal year ending December 31, 2011. Refer to Actuary's Notes section for more information on these changes. For the current year GASB valuation, we have also updated the per capita costs. We expect to update health care trend rates and per capita costs again in the next full GASB valuation, which will be for the fiscal year ending December 31, 2015.

Measurement Date December 31, 2013 with results actuarially rolled-back to January 1, 2013 on a "no loss/no gain" basis.

Discount Rate 4.0%

Payroll Growth 3.0% per year

Inflation Rate 3.0% per year

Cost Method Projected Unit Credit with linear proration to decrement

Amortization Level % of pay over thirty years based on an open group

Census information was provided by the County as of February 2014. We have reviewed it for reasonableness

and no material modifications were made to the census data.

Health Care Coverage Election RateActive employees with current coverage: 90%

Active employees with no current coverage: 0% Active employees who retire due to disability: 100%

Inactive employees with current coverage: 100% Inactive employees with no coverage: 0%

Terminated vested RCSO former employees in Groups 2 and 3: 100%

Terminated vested RCSO former employees in Group 4: 80%

Spousal Coverage Spousal coverage and ages for current retirees is based on actual data.

75% of male and 50% of female employees is assumed to be married at retirement. Husbands are assumed to be

three years older than wives.

Employer Funding Policy

Pay-as-you-go cash basis

Mortality

RP-2000 Combined Mortality Table fully generational using Scale AA

Turnover Rate

Assumption used to project terminations (voluntary and involuntary) prior to meeting minimum retirement eligibility for retiree health coverage. The annual turnover rates by group are based on the assumption used in the WRS Active Actuarial Valuation as of December 31, 2012. Sample annual turnover rates are as shown below:

General	and Electe	d Officials				Protect	ive with Socia	Security (SS)
	All Ages			YOS 10+	-	All	Ages	YO	S 10+
YOS	Male	Female	Age	Male	Female	YOS	Unisex	Age	Unisex
0	17.5%	19.5%	25	2.5%	3.8%	0	15.0%	25	1.7%
1	13.0%	13.5%	30	2.5%	3.3%	1	7.0%	30	1.6%
2	8.5%	10.0%	35	2.1%	2.8%	2	4.3%	35	1.4%
3	6.8%	8.0%	40	1.6%	2.2%	3	3.8%	40	1.2%
4	6.0%	7.4%	45	1.3%	1.8%	4	3.4%	45	1.1%
5	4.5%	6.0%	50	1.1%	1.6%	5	2.6%	50	1.0%
6	4.0%	5.0%	55	1.1%	1.5%	6	2.5%	55	1.0%
7	3.5%	4.5%	60	1.1%	1.5%	7	2.3%	60	1.0%
8	3.0%	4.0%				8	2.0%		
9	2.5%	3.8%				9	1 7%		

Disability

Disability rates by group are based on the assumption used in the WRS Active Actuarial Valuation as of December 31, 2012. Sample annual disability rates are as shown below:

	General a	with SS	
Age	Male	Female	Unisex
20	0.01%	0.01%	0.01%
25	0.01%	0.01%	0.01%
30	0.01%	0.03%	0.01%
35	0.01%	0.04%	0.02%
40	0.04%	0.05%	0.03%
45	0.07%	0.07%	0.05%
50	0.15%	0.11%	0.08%
55	0.29%	0.20%	1.21%
60+	0.51%	0.29%	2.04%

Retirement Rate

Annual retirement rates are based on the assumption used in the WRS Active Actuarial Valuation as of December 31, 2012.

General an	d Elected				Protective	with SS ⁸
	M	ale	Fen	nale		Unisex
Age	Early	Normal	Early	Normal	Age	All YOS
55	8.0%		6.1%		50	6.0%
56	8.0%		6.4%		51	7.0%
57	4.3%	20.0%	4.2%	17.0%	52	8.0%
58	5.3%	20.0%	5.5%	17.0%	53	23.0%
59	5.5%	20.0%	5.3%	17.0%	54	18.0%
60	7.5%	20.0%	8.1%	20.0%	55	17.0%
61	8.0%	20.0%	7.0%	20.0%	56 – 59	16.0%
62	14.0%	27.0%	15.0%	27.0%	60 - 61	18.0%
63	16.0%	32.0%	15.0%	28.0%	62	22.0%
64	17.0%	24.0%	15.0%	25.0%	63	29.0%
65		24.0%		25.0%	64	16.0%
66		30.0%		29.0%	65	30.0%
67		24.0%		20.0%	66	20.0%
68 - 71		17.0%		18.0%	67	15.0%
72 – 74		17.0%		15.0%	68	25.0%
75+		100.0%		100.0%	69	20.0%

Health Care Trend Rates

FYE	Trend	FYE	Trend	
2014	9.00%	2019	6.50%	
2015	8.50%	2020	6.00%	
2016	8.00%	2021	5.50%	
2017	7.50%	2022+	5.00%	
2018	7.00%			

The initial trend rate was based on a combination of employer history, national trend surveys, and professional judgment.

The ultimate trend rate was selected based on historical medical CPI information.

100.0%

70+

Retiree Contributions

Retiree contributions are assumed to increase according to health care trend rates.

⁸ Includes early retirements.

Per Capita Costs

Annual per capita costs were calculated based on the County's retiree premium rates effective on January 1, 2014 actuarially increased using health index factors and retiree enrollment. The costs are assumed to increase with health care trend rates. Annual per capita costs by plan are as shown below:

The per capita costs represent the cost of coverage for a retiree-only population.

Actuarial standards require the recognition of higher inherent costs for a retired population versus an active population.

Age	Plan 2	Plan 3	F	Plan 6A	F	Plan 6B	F	Plan 6C	F	Plan 7A	Plan 8
50 – 54	\$ 16,184	\$ 15,221	\$	13,309	\$	12,955	\$	12,640	\$	12,309	\$ 8,355
55 – 59	\$ 19,745	\$ 18,572	\$	16,247	\$	15,813	\$	15,425	\$	15,024	\$ 10,203
60 – 64	\$ 24,293	\$ 22,843	\$	19,957	\$	19,433	\$	18,965	\$	18,464	\$ 12,519
65 – 69	\$ 4,832	\$ 7,756	\$	5,639	\$	5,274	\$	4,883	\$	5,248	\$ 7,172
70 – 74	\$ 5,697	\$ 9,168	\$	6,647	\$	6,219	\$	5,759	\$	6,191	\$ 8,478
75 – 79	\$ 6,747	\$ 10,767	\$	7,877	\$	7,363	\$	6,811	\$	7,319	\$ 9,959
80+	\$ 7,608	\$ 11,627	\$	8,903	\$	8,286	\$	7,624	\$	8,179	\$ 10,769

All RCSO terminated vested employees are assumed to elect Plan 6B when they start receiving retiree health benefits.

Explicit Subsidy

The difference between (a) the premium rate and (b) the retiree contribution. Below is an example of the monthly explicit subsidies for a future retiree enrolled in Plan 8 who was hired prior to January 1, 2013 and retiring with 20 years of service.

	Premium	Retiree	Explicit			
	Rate	Contribution	Subsidy			
	Α	B = 15% x A	C = A - B			
Retiree	\$ 934.00	\$ 140.10	\$ 793.90			
Spouse	\$ 1,320.00	\$ 198.00	\$ 1,122.00			

Implicit Subsidy

The difference between (a) the per capita cost and (b) the premium rate. Below is an example of the monthly implicit subsidies for a 60-64 retiree with spouse of the same age enrolled in Plan 8.

	Per Capita Cost	Premium Rate	Implicit Subsidy
	Α	В	C = A - B
Retiree	\$ 1,043.25	\$ 934.00	\$ 109.25
Spouse	\$ 1,043.25	\$ 1,320.00	\$ 0.00*

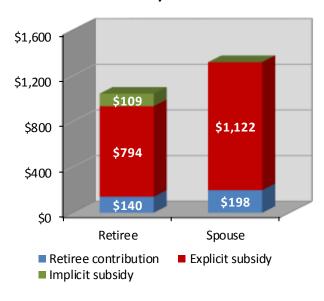
All employers that utilize premium rates based on blended active/retiree claims experience will have an implicit subsidy. There is an exception for plans using a true community-rated premium rate.

GASB Subsidy Breakdown

Below is a breakdown of the GASB 45 monthly total cost for a 60 – 64 retiree with a spouse of the same age enrolled in Plan 8 who was hired prior to January 1, 2013 and retiring with 20 years of service.

	Retiree	Spouse
Retiree contribution	\$ 140.10	\$ 198.00
Explicit subsidy	\$ 793.90	\$ 1,122.00
Implicit subsidy	\$ 109.25	\$ 0.00
Total monthly cost	\$ 1,043.25	\$ 1,043.25

GASB Subsidy Breakdown



^{*} Limited to \$0

County Employees and Retirees

Actives with coverage	Single	Non-Single ⁹	Total	Avg. Age	Avg. Svc	Salary
Plan 8	196	440	636	43.1	11.2	\$ 31,507,744
Total actives with coverage	196	440	636	43.1	11.2	\$ 31,507,744

No information was provided on active employees without coverage.

Retirees with coverage	Single	Non-Single ⁹	Total	Avg. Age
Plan 2	5		5	78.8
Plan 3	18	7	25	84.3
Plan 6A	159	103	261	75.1
Plan 6B	138	164	302	63.3
Plan 6C	18	24	42	57.9
Plan 8	3	2	5	58.3
Plan 8A	1	3	4	53.4
Total retirees with coverage	342	303	645	68.6

Retirees without coverage	Total	Avg. Age
Total retirees without coverage ¹⁰	93	71.9

 $^{^9}$ Includes participants with Employee/Spouse and Family coverage levels. 10 All County retirees without coverage have life insurance benefits. They have been included in the GASB valuation.

RCSO Former Employees and Retirees

RCSO retirees with coverage	Single	Non-Single ¹¹	Total	Avg. Age
Plan 3	2		2	91.4
Plan 6A	14	10	24	76.5
Plan 6B	10	22	32	66.9
Plan 7		5	5	62.1
Plan 8A	1	2	3	60.8
Total retirees with coverage	27	39	66	70.5

RCSO former employees	Total	Avg. Age
Total	19	59.6

 $^{^{11}}$ Includes participants with Employee/Spouse and Family coverage levels.

Active Age-Service Distribution

					Years o	f Service					
Age	< 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 & up	Total
Under 25	8	9	1								18
25 to 29	17	41	12								70
30 to 34	10	27	28	8							73
35 to 39	6	17	17	28	6						74
40 to 44	5	24	15	29	36	1					110
45 to 49	6	14	10	21	33	24	4	1			113
50 to 54		14	9	17	18	36	11	5			110
55 to 59	1	5	5	5	13	7	3	1	1		41
60 to 64		4	1	3	7	2	2		1		20
65 to 69		1	1	1			1				4
70 & up			1	1	1						3
Total	53	156	100	113	114	70	21	7	2		636

APPENDIX

Comparison of Participant Demographic Information

The active and retiree participants' number below may include active employees who currently have no health care coverage. Refer to Summary of Participants section for an accurate breakdown of active employees with and without coverage.

	As of January 1, 2011	As of January 1, 2014
Active Participants	710	636
Retired Participants	604	823
County	548	738 ¹²
RCSO	56	85 ¹³
Averages for Active		
Age	43.7	43.1
Service	11.2	11.2
Averages for Inactive		
Age	N/A	68.9

¹² Includes retirees with life insurance benefits only.

¹³ Includes 19 RCSO former employees.

GASB Results by Group

Below is the summary of the GASB results for fiscal year ending December 31, 2013 based on the Projected Unit Credit cost method with a discount rate of 4.0%.

Fund		Unfunded Actuarial Accrued Liability (UAAL)		Annual Required Contribution (ARC)		Net OPEB Obligation (NOO)	
	As of J	lanuary 1, 2013		For 2013	As o	of December 31, 2013	
RCSO	\$	21,859,763	\$	868,728	\$	1,381,808	
Development	\$	772,176	\$	55,588	\$	302,453	
Ed/Rec	\$	556,363	\$	43,727	\$	227,181	
General	\$	67,850,708	\$	3,003,388	\$	22,247,429	
HHS	\$	1,687,090	\$	132,234	\$	661,361	
Highway	\$	27,277,226	\$	1,296,491	\$	9,111,324	
Human Services	\$	44,739,664	\$	2,114,826	\$	15,062,912	
Other PS	\$	663,636	\$	99,525	\$	319,534	
Ridgewood RN	\$	3,910,984	\$	352,579	\$	1,603,483	
Sheriff's	\$	84,322,701	\$	4,404,687	\$	29,355,844	
Total	\$	253,640,311	\$	12,371,773	\$	80,273,329	

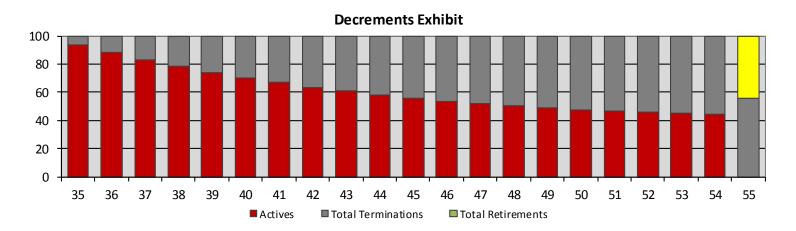
Glossary

Decrements Exhibit

The table below illustrates how actuarial assumptions can affect a long-term projection of future liabilities. Starting with 100 employees at age 35, the illustrated actuarial assumptions show that 44.430 employees out of the original 100 are expected to retire and could elect retire health benefits at age 55.

Age	# Remaining Employees	# of Terminations per Year*	# of Retirements per Year*	Total Decrements
35	100.000	6.276	0.000	6.276
36	93.724	5.677	0.000	5.677
37	88.047	5.136	0.000	5.136
38	82.911	4.648	0.000	4.648
39	78.262	4.209	0.000	4.209
40	74.053	3.814	0.000	3.814
41	70.239	3.456	0.000	3.456
42	66.783	3.131	0.000	3.131
43	63.652	2.835	0.000	2.835
44	60.817	2.564	0.000	2.564
45	58.253	2.316	0.000	2.316

Age	# Remaining Employees	# of Terminations per Year*	# of Retirements per Year*	Total Decrements
46	55.938	2.085	0.000	2.085
47	53.853	1.866	0.000	1.866
48	51.987	1.656	0.000	1.656
49	50.331	1.452	0.000	1.452
50	48.880	1.253	0.000	1.253
51	47.627	1.060	0.000	1.060
52	46.567	0.877	0.000	0.877
53	45.690	0.707	0.000	0.707
54	44.983	0.553	0.000	0.553
55	44.430	0.000	44.430	44.430

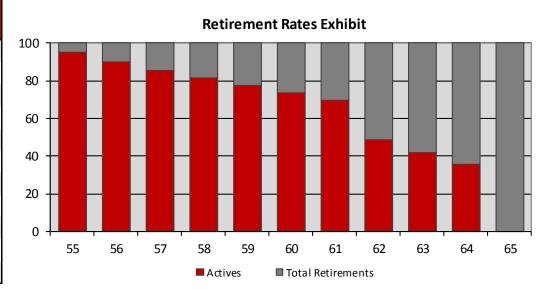


^{*} The above rates are illustrative rates and are not used in our GASB calculations.

Retirement Rates Exhibit

The table below illustrates how actuarial assumptions can affect a long-term projection of future liabilities. The illustrated retirement rates show the number of employees who are assumed to retire annually based on 100 employees age 55 who are eligible for retiree health care coverage. The average age at retirement is 62.0.

Age	Active Employees BOY	Annual Retirement Rates*	# Retirements per Year	Active Employees EOY
55	100.000	5.0%	5.000	95.000
56	95.000	5.0%	4.750	90.250
57	90.250	5.0%	4.513	85.738
58	85.738	5.0%	4.287	81.451
59	81.451	5.0%	4.073	77.378
60	77.378	5.0%	3.869	73.509
61	73.509	5.0%	3.675	69.834
62	69.834	30.0%	20.950	48.884
63	48.884	15.0%	7.333	41.551
64	41.551	15.0%	6.233	35.318
65	35.318	100.0%	35.318	0.000



^{*} The above rates are illustrative rates and are not used in our GASB calculations.

Illustration of GASB Calculations

The purpose of the illustration is to familiarize non-actuaries with the GASB 45 actuarial calculation process.

I. Facts

- 1. The employer provides subsidized retiree health coverage worth \$100,000 to employees retiring at age 55 with 25 years of service. The employer funds for retiree health coverage on a pay-as-you-go basis.
- 2. Employee X is age 50 and has worked 20 years with the employer.
- 3. Retiree health subsidies are paid from the general fund assets which are expected to earn 4.5% per year on a long-term basis.
- 4. Based on Employee X's age and sex he has a 98.0% probability of living to age 55 and a 95.0% probability of continuing to work to age 55.

II. Calculation of Present Value of Future Benefits

Present Value of Future Benefits represents the cost to finance benefits payable in the future to current and future retirees and beneficiaries, discounted to reflect the expected effects of the time value (present value) of money and the probabilities of payment.

	Value	Description
Α.	\$100,000	Projected benefit at retirement
В.	80.2%	Interest discount for five years = $(1/1.045)^5$
C.	98.0%	Probability of living to retirement age
D.	95.0%	Probability of continuing to work to retirement age
E.	\$74,666	Present value of projected retirement benefit measured at employee's current age = $AxBxCxD$

Illustration of GASB Calculations (continued)

III. Calculation of Actuarial Accrued Liability

Actuarial Accrued Liability represents the portion of the Present Value of Future Benefits which has been accrued recognizing the employee's past service with the employer. The Actuarial Accrued Liability is a required disclosure in the Required Supplementary Information section of the employer's financial statement.

	Value	Description
A.	\$74,666	Present value of projected retirement benefit measured at employee's current age
В.	20	Current years of service with employer
C.	25	Projected years of service with employer at retirement
D.	\$59,733	Actuarial accrued liability measured at employee's current age = $A \times B / C$

IV. Calculation of Normal Cost

Normal Cost represents the portion of the Present Value of Future Benefits allocated to the current year.

	Value	Description
A.	\$74,666	Present value of projected retirement benefit measured at employee's current age
В.	25	Projected years of service with employer at retirement
C.	\$2,987	Normal cost measured at employee's current age = A / B

V. Calculation of Annual Required Contribution

 $\textbf{Annual Required Contribution} \ is \ the \ total \ expense \ for \ the \ current \ year \ to \ be \ shown \ in \ the \ employer's \ income \ statement.$

	Value	Description
A.	\$2,987	Normal Cost for the current year
В.	\$3,509	30-year a mortization (level dollar method) of Unfunded Actuarial Accrued Liability using a 4.5% interest rate discount factor
C.	\$292	Interest adjustment = 4.5% x (A + B)
D.	\$6,788	Annual Required Contribution = A + B + C

Definitions

GASB 45 defines several unique terms not commonly employed in the funding of pension and retiree health plans. The definitions of the terms used in the GASB actuarial valuations are noted below.

- 1. **Actuarial Accrued Liability** That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of plan benefits and expenses which is not provided for by the future Normal Costs.
- 2. **Actuarial Assumptions** Assumptions as to the occurrence of future events affecting health care costs, such as: mortality, withdrawal, disablement and retirement; changes in compensation and Government provided health care benefits; rates of investment earnings and asset appreciation or depreciation; procedures used to determine the Actuarial Value of Assets; characteristics of future entrants for Open Group Actuarial Cost Methods; and other relevant items.
- 3. **Actuarial Cost Method** A procedure for determining the Actuarial Present Value of future benefits and expenses and for developing an actuarially equivalent allocation of such value to time periods, usually in the form of a Normal Cost and an Actuarial Accrued Liability.
- 4. **Actuarial Present Value** The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions. For purposes of this standard, each such amount or series of amounts is:
 - a) adjusted for the probable financial effect of certain intervening events (such as changes in compensation levels, Social Security, marital status, etc.);
 - b) multiplied by the probability of the occurrence of an event (such as survival, death, disability, termination of employment, etc.) on which the payment is conditioned; and
 - c) discounted according to an assumed rate (or rates) of return to reflect the time value of money.
- 5. **Annual OPEB Cost** An accrual-basis measure of the periodic cost of an employer's participation in a defined benefit OPEB plan.
- 6. **Annual Required Contribution (ARC)** The employer's periodic required contributions to a defined benefit OPEB plan, calculated in accordance with the parameters.
- 7. **Explicit Subsidy** The difference between (a) the amounts required to be contributed by the retirees based on the premium rates and (b) actual cash contribution made by the employer.
- 8. Funded Ratio The actuarial value of assets expressed as a percentage of the actuarial accrued liability.
- 9. **Healthcare Cost Trend Rate** The rate of change in the per capita health claims costs over time as a result of factors such as medical inflation, utilization of healthcare services, plan design, and technological developments.

Definitions (continued)

- 10. **Implicit Subsidy** In an experience-rated healthcare plan that includes both active employees and retirees with blended premium rates for all plan members, the difference between (a) the age-adjusted premiums approximating claim costs for retirees in the group (which, because of the effect of age on claim costs, generally will be higher than the blended premium rates for all group members) and (b) the amounts required to be contributed by the retirees.
- 11. **Net OPEB Obligation** The cumulative difference since the effective date of this Statement between annual OPEB cost and the employer's contributions to the plan, including the OPEB liability (asset) at transition, if any, and excluding (a) short-term differences and (b) unpaid contributions that have been converted to OPEB-related debt.
- 12. Normal Cost The portion of the Actuarial Present Value of plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.
- 13. **Pay-as-you-go** A method of financing a benefit plan under which the contributions to the plan are generally made at about the same time and in about the same amount as benefit payments and expenses becoming due.
- 14. **Per Capita Costs** The current cost of providing postretirement health care benefits for one year at each age from the youngest age to the oldest age at which plan participants are expected to receive benefits under the plan.
- 15. **Present Value of Future Benefits** Total projected benefits include all benefits estimated to be payable to plan members (retirees and beneficiaries, terminated employees entitled to benefits but not yet receiving them, and current active members) as a result of their service through the valuation date and their expected future service. The actuarial present value of total projected benefits as of the valuation date is the present value of the cost to finance benefits payable in the future, discounted to reflect the expected effects of the time value (present value) of money and the probabilities of payment. Expressed another way, it is the amount that would have to be invested on the valuation date so that the amount invested plus investment earnings will provide sufficient assets to pay total projected benefits when due.
- 16. **Select and Ultimate Rates** Actuarial assumptions that contemplate different rates for successive years. Instead of a single assumed rate with respect to, for example, the investment return assumption, the actuary may apply different rates for the early years of a projection and a single rate for all subsequent years. For example, if an actuary applies an assumed investment return of 8% for year 20W0, then 7.5% for 20W1, and 7% for 20W2 and thereafter, then 8% and 7.5% select rates, and 7% is the ultimate rate.
- 17. **Substantive Plan** The terms of an OPEB plan as understood by the employer(s) and plan members.