

Washington State

# Actuarial Valuation Report

# 2003

Report Prepared by

**Office of the State Actuary**

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WASHINGTON STATE LEGISLATURE

# Office of the State Actuary

## Report of the Combined Actuarial Valuation

As of September 30, 2003

*December 2004*

As required under Chapter 41.45 RCW, this report documents the results of an actuarial valuation of the following Washington State retirement systems:

- Public Employees Retirement System (PERS);
- Teachers Retirement System (TRS);
- School Employees Retirement System (SERS);
- Law Enforcement Officers and Fire Fighters Retirement System (LEOFF); and
- Washington State Patrol Retirement System (WSP).

The primary purpose of this valuation is to determine contribution requirements for the systems listed above for the plan year ending September 30, 2003. The report is organized in the following four sections:

- Summary of Key Results
- Actuarial Exhibits
- Participant Data
- Appendices

The Summary of Key Results section provides a high-level executive summary of the valuation results for all systems combined. The remaining sections of the report provide detailed actuarial asset and liability information for each system and plan separately. The Appendix provides a summary of the principal actuarial assumptions and methods, summary of the major plan provisions, age-service distributions, historical data and a glossary of actuarial terms used throughout this report.

We encourage you to submit any questions you might have concerning this report to our regular or e-mail address below. We also invite you to visit our web site (<http://osa.leg.wa.gov>) for further information regarding the actuarial funding of the Washington State retirement systems.

Sincerely,

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# SUMMARY OF KEY RESULTS

## Contribution Rates

Member and employer contribution rates determined from the actuarial valuation are expressed as a percentage of salary and summarized below along with comparable rates from the previous valuation. See the Actuarial Exhibits section of this report for the development of these rates.

Contribution Rates				
	Plan 1		Plan 2/3	
	2003	2002	2003	2002
<b>PERS</b>				
Member*	6.00%	6.00%	3.38%	2.63%
Total Employer	5.73%	3.78%	5.73%	3.78%
<b>TRS</b>				
Member*	6.00%	6.00%	2.48%	1.71%
Total Employer**	6.74%	3.19%	6.74%	3.19%
<b>SERS</b>				
Member*	N/A	N/A	3.51%	2.49%
Total Employer	N/A	N/A	7.56%	3.64%
<b>LEOFF</b>				
Member	0.00%	0.00%	7.20%	6.41%
Employer	0.00%	0.00%	4.32%	3.84%
Total State	0.00%	0.00%	2.88%	2.57%
<b>WSP</b>				
Member	4.51%	2.00%	4.51%	N/A
Employer (State)	4.51%	0.00%	4.51%	N/A

\*Plan 3 members do not contribute to the defined benefit plan

\*\*The TRS total employer rate for 2003 includes an additional 0.01% for the non-automatic post-retirement benefit increase provided under Chapter 85, Laws of 2004.

## Contribution Rate-Setting Cycle

Under current Washington State law, in September of even-numbered years, the Pension Funding Council created under RCW 41.45.100 reviews the basic contribution rates recommended by the State Actuary based on an actuarial valuation performed on asset, participant and plan information compiled in odd-numbered years. The Pension Funding Council may adopt changes to economic assumptions and contribution rates by an affirmative vote of at least four members. The basic rates adopted by the Pension Funding Council will remain in place for the ensuing biennium, subject to revision by the Legislature.

RCW 41.45.070 requires that a temporary and supplemental contribution rate increase be charged to fund the cost of benefit enhancements that are enacted following the adoption of the basic rates by the Pension Funding Council. Supplemental contribution rates are included in the basic rates at the beginning of the next contribution rate-setting cycle.

## Funding Policy

The funding policy of the Legislature is contained in Chapter 41.45 RCW - Actuarial Funding of State Retirement Systems. RCW 41.45.010 outlines the intent to achieve the following goals:

- To provide a dependable and systematic process for funding the benefits to members and retirees of the Washington State Retirement Systems;
- To continue to fully fund the retirement system plans 2 and 3, and the Washington State Patrol Retirement System, as provided by law;
- To fully amortize the total cost of PERS 1, TRS 1 and LEOFF 1, not later than June 30, 2024;
- To establish predictable long-term employer contribution rates which will remain a relatively constant proportion of the future state budgets; and
- To fund, to the extent feasible, benefit increases over the working lives of those members so that the cost of those benefits are paid by the taxpayers who receive the benefit of those members' service.

Although not codified in law as a policy, the Legislature has established an additional funding policy through consistent legislative practice over time:

- Employers are charged the same contribution rate, regardless of the plan in which employees hold membership (except for LEOFF).

## Comments on 2003 Results

Short-term actuarial gains or losses occur when actual economic and demographic experience differs from what was assumed in the valuation. Actuarial gains will reduce contribution rates; whereas, actuarial losses will increase contribution rates. Under a reasonable set of actuarial assumptions and methods, actuarial gains and losses will offset over long-term experience periods.

Significant changes in plan provisions or actuarial assumptions and methods will also have an impact on contribution rates. Significant factors that impacted the results of this valuation include the following:

- The actual rate of investment return for the plan year was above the assumed rate of 8%. Actual investment return was 14.67% (time weighted).
- The recognition of liability associated with future gain-sharing benefits generated an actuarial loss (method change)
- New entrants continue to exert a modest upward adjustment on current contribution rates; and
- A significant gain or loss can occur when actual salary experience is different from what is assumed. Actual experience for 2003 varied by system and plan.

Please see the table, Actuarial Gains/Losses, in the Actuarial Exhibit section of this report for detailed gain and loss information by each individual system.

## Actuarial Liabilities

A summary of key measures of actuarial liability is shown below along with comparable information from last year's valuation. See the Actuarial Exhibits section of this report for a summary of actuarial liability by each individual system and plan. See the Glossary for a brief explanation of the actuarial terms.

Actuarial Liabilities		
(Dollars in millions)	2003	2002
<b>All Systems</b>		
Present Value of Fully Projected Benefits	\$55,074	\$51,126
Unfunded Actuarial Accrued Liability*	3,575	1,222
Present Value of Credited Projected Benefits	40,985	37,757
Valuation Interest Rate	8.00%	8.00%

\*For PERS 1, TRS 1 and LEOFF 1 at 9/30/2003

## Assets

The combined market value of assets and actuarial (or smoothed) value of assets are shown below along with approximate rates of investment return. See the Actuarial Exhibits section of this report for a summary of assets by each individual system and plan as well as the development of the actuarial value of assets.

Assets		
(Dollars in millions)	2003	2002
<b>All Systems</b>		
Market Value of Assets	\$37,732	\$34,224
Actuarial Value of Assets	43,858	44,573
Contributions*	378	436
Disbursements	1,940	2,007
Investment Return	5,057	(2,258)
Other**	13	(417)
Rate of Return on Assets	14.67%	(6.50%)

\*Employee and Employer

\*\*Includes transfers, restorations, payables, etc.



## Funded Status

Several key measures of the combined systems' funded status are displayed below. Assets from an individual qualified retirement plan may not be used to fund benefits from another plan. This table, therefore, is provided for summarization purposes only. See the Actuarial Exhibits section of this report for a summary of funded status by each individual system and plan.

Funded Status		
(Dollars in millions)	2003	2002
<b>All Systems</b>		
a. Present Value of Credited Projected Benefits	\$40,985	\$37,757
b. Actuarial Value of Assets	43,858	44,573
c. Unfunded Liability (a-b)	(2,873)	(6,816)
d. Credited Projected Funded Ratio (b/a)	107%	118%

## Participant Data

Participant data used in the actuarial valuation for the plan year ending September 30, 2003 are summarized below along with comparable information from last year's valuation. See the Participant Data section of this report for participant data summarized by each individual system and plan.

Participant Data		
All Systems	2003	2002
<b>Active Members</b>		
Number	286,469	286,232
Total Salaries (in millions)	\$12,527	\$12,079
Average Annual Salary	\$43,726	\$42,195
Average Attained Age	45.3	44.9
Average Service	10.3	10.0
<b>Retirees and Beneficiaries</b>		
Number	110,706	107,581
Average Annual Benefit	\$16,629	\$15,964
<b>Terminated Members</b>		
Number Vested	30,594	28,585
Number "Non-Vested"	95,845	94,150

## Key Assumptions

Key economic assumptions used in the actuarial valuation are displayed below. These assumptions were unchanged from the previous year's valuation. See the Appendix - Actuarial Assumptions and Methods for a detailed listing of the actuarial assumptions used in this valuation.

Key Assumptions	
All Systems	
Valuation Interest Rate	8.00%
Salary Increase	4.50%
Inflation	3.50%
Growth in Membership*	1.25%

\*0.90% in TRS



# Actuarial Exhibits

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 $0.0708694$   
 Log.  $16 = 1.896960002$   
 $0.4966525$

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# ACTUARIAL EXHIBITS

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## Actuarial Certification

This report documents the results of an actuarial valuation of the retirement plans defined under Chapters 41.26, 41.32, 41.35, 41.40 and 43.43 of the Revised Code of Washington. The primary purpose of this valuation is to determine contribution requirements for the systems listed above as of the valuation date September 30, 2003 and should not be used for other purposes.

The valuation results summarized in this report involve calculations that require assumptions about future economic and demographic events. We believe that the assumptions and methods used in the underlying valuation are reasonable and appropriate for the primary purpose stated above. The use of another set of assumptions and methods, however, could also be reasonable and could result in materially different results.

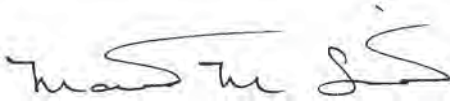
The assumptions used in the valuations for investment return, inflation, salary and membership growth were prescribed by the Legislature in 2001. Demographic assumptions were developed from the 1995-2000 experience study performed by the Office of the State Actuary. The Legislature was responsible for the selection of the actuarial cost and asset valuation methods. In our opinion, all methods, assumptions and calculations are reasonable and are in conformity with generally accepted actuarial principles and standards as of the date of this publication.

The Department of Retirement Systems provided member and beneficiary data. We have checked the data for reasonableness as appropriate based on the purpose of the valuation. The State Investment Board, Department of Retirement Systems and the State Treasurer provided financial and asset information. An audit of the financial and participant data was not performed. We have relied on all the information provided as complete and accurate. In our opinion, this information is adequate and substantially complete for purposes of this valuation.

By law, the unfunded actuarial accrued liability (UAAL) in PERS and TRS Plans 1 must be amortized by June 30, 2024 as a level percentage of projected system payroll. The projected payroll includes pay from PERS, SERS and TRS Plans 2/3 as well as projected payroll from future new members. As a result of this amortization method, dollar contributions to the Plan 1 UAAL will increase steadily as the amortization date approaches.

The asset smoothing method adopted during the 2003 legislative session (Chapter 11, Laws of 2003, E1) was intended to address the volatility of contribution rates under the aggregate funding method when used in combination with the existing asset allocation policy. The combination of the current asset smoothing method with any other funding method or asset allocation policy may not be appropriate.

The undersigned, with actuarial credentials, meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.



Matthew M. Smith, EA, MAAA  
State Actuary



Philip Martin McCaulay, FSA, MAAA  
Associate Actuary

# Contribution Rates

Member and Employer Rate Summary				
	Plan 1		Plan 2/3	
	2003	2002	2003	2002
<b>PERS</b>				
Member *	6.00%	6.00%	3.38%	2.63%
Employer (Normal Cost)	3.63%	2.63%	3.63%	2.63%
Employer (Plan 1 UAAL)	2.10%	1.15%	2.10%	1.15%
Total Employer	5.73%	3.78%	5.73%	3.78%
<b>TRS</b>				
Member *	6.00%	6.00%	2.48%	1.71%
Employer (Normal Cost)	3.94%	1.98%	3.94%	1.98%
Employer (Plan 1 UAAL)**	2.80%	1.21%	2.80%	1.21%
Total Employer	6.74%	3.19%	6.74%	3.19%
<b>SERS</b>				
Member *	N/A	N/A	3.51%	2.49%
Employer (Normal Cost)	N/A	N/A	5.46%	2.49%
Employer (PERS Plan 1 UAAL)	N/A	N/A	2.10%	1.15%
Total Employer	N/A	N/A	7.56%	3.64%
<b>LEOFF</b>				
Member	0.00%	0.00%	7.20%	6.41%
Employer	0.00%	0.00%	4.32%	3.84%
State (Normal Cost)	0.00%	0.00%	2.88%	2.57%
State (Plan 1 UAAL)	0.00%	0.00%	0.00%	0.00%
Total State	0.00%	0.00%	2.88%	2.57%
<b>WSP</b>				
Member	4.51%	2.00%	4.51%	N/A
Employer (State)	4.51%	0.00%	4.51%	N/A

\*Plan 3 members do not contribute to the defined benefit plan

\*\*The TRS 1 UAAL rate for 2003 includes an additional 0.01% for the non-automatic post-retirement benefit increase provided under Chapter 85, Laws of 2004.

Development of Employer/State Rates									
	PERS		TRS		SERS	LEOFF		WSP	
	Plan 1	Plan 2/3	Plan 1	Plan 2/3	Plan 2/3	Plan 1	Plan 2		
a. Total Normal Cost	9.63%	7.01%	9.94%	6.42%	8.97%	0.00%	14.40%	9.02%	
b. Employee Normal Cost*	6.00%	3.38%	6.00%	2.48%	3.51%	0.00%	7.20%	4.51%	
c. Employer Contribution (a-b)	3.63%	3.63%	3.94%	3.94%	5.46%	0.00%	7.20%	4.51%	
d. Cost to Amortize UAAL**	2.10%	2.10%	2.80%	2.80%	2.10%	0.00%	0.00%	0.00%	
e. Total Employer Contribution Rate (c+d)***	5.73%	5.73%	6.74%	6.74%	7.56%	0.00%	4.32%	4.51%	

\*Plan 3 members do not contribute to the defined benefit plan

\*\*The TRS cost to amortize UAAL includes an additional 0.01% for the non-automatic post-retirement benefit increase provided under Chapter 85, Laws of 2004.

\*\*\*The state pays 20% of the total normal cost for LEOFF 2. This reduces the total employer contribution rate from 7.20% to 4.32%.

## Development of Normal Cost Rates

<i>(Dollars in millions)</i>	PERS 2/3	TRS 2/3	SERS 2/3	LEOFF 2	WSP
<b>1. Calculation of Member Rate (Excludes Gain-sharing)</b>					
a. Present Value of Fully Projected Benefits	\$14,159	\$4,876	\$1,979	\$4,379	\$727
b. Valuation Assets	10,842	3,949	1,546	2,740	664
c. Unfunded Fully Projected Benefits (a - b)	3,317	927	433	1,639	63
d. Contributions to 2005	217	68	26	171	2
e. Accumulated Gain-sharing Adjustment	0	73	0	N/A	N/A
f. Adjusted Unfunded (c - d - e)	\$3,100	\$786	\$408	\$1,467	\$61
Present Value of Projected Salaries to Current Members (PVS)					
g. Plan 1 PVS	N/A	N/A	N/A	N/A	\$673
h. Plan 2 PVS	42,466	3,282	3,438	10,221	0
i. Plan 3 PVS	6,681	25,169	4,732	N/A	N/A
j. Weighted PVS ( 2g + 2h + i)	\$91,612	\$31,733	\$11,607	\$20,443	\$1,346
k. Member Normal Cost ( f / j)	3.38%	2.48%	3.51%	7.18%	4.51%
l. Change In Plan Provisions (Laws of 2004)	0.00%	0.00%	0.00%	0.02%	0.00%
m. Member Contribution Rate (k + l)	3.38%	2.48%	3.51%	7.20%	4.51%
<b>2. Calculation of Employer Rate (Includes Gain-sharing)</b>					
a. Present Value of Fully Projected Benefits (PVFB)	\$14,159	\$4,876	\$1,979	\$4,379	\$727
b. Present Value of Future Gain Sharing	119	344	159	0	0
c. Total PVFB (a + b)	14,278	5,220	2,138	4,379	727
d. Valuation Assets	10,842	3,949	1,546	2,740	664
e. Unfunded Benefits (c - d)	3,436	1,271	592	1,639	63
f. Contributions to 2005	217	68	26	171	2
g. Adjusted Unfunded (e-f)	3,219	1,203	566	1,467	61
h. Present Value of Member Contributions	1,435	81	121	734	0
i. Employer Responsibility (g - h)	\$1,784	\$1,122	\$446	\$734	\$61
Present Value of Projected Salaries to Current Members (PVS)					
j. Plan 1 PVS	N/A	N/A	N/A	N/A	\$673
k. Plan 2 PVS	42,466	3,282	3,438	10,221	0
l. Plan 3 PVS	6,681	25,169	4,732	N/A	N/A
m. Weighted PVS (j + k + l)	\$49,147	\$28,451	\$8,169	\$10,221	\$673
n. Employer Normal Cost (i / m)	3.63%	3.94%	5.46%	7.18%	4.51%
o. Change In Plan Provisions (Laws of 2004)	0.00%	0.00%	0.00%	0.02%	0.00%
p. Employer Contribution Rate (n + o)	3.63%	3.94%	5.46%	7.20%	4.51%
<b>3. Summary of Rates</b>					
a. Member Contribution Rate (1.m.) <sup>1,2,3</sup>	3.38%	2.48%	3.51%	7.20%	4.51%
b. Employer Contribution Rate (2.p.) <sup>2,3</sup>	3.63%	3.94%	5.46%	4.32%	4.51%
c. State Contribution Rate <sup>2</sup>	0.00%	0.00%	0.00%	2.88%	N/A
d. Total Contribution Rate (a + b + c)	7.01%	6.42%	8.97%	14.40%	9.02%

Note: Totals may not agree due to rounding

<sup>1</sup> Plan 3 members do not contribute to the defined contribution plans.

<sup>2</sup> The State pays 40% of the total employer normal cost in LEOFF 2.

<sup>3</sup> WSP members pay 50% of normal cost, but not less than 2%. The employer pays the excess, if any.



### Amortization of the Plan 1 Unfunded Actuarial Accrued Liability (UAAL)

<i>(Dollars in millions)</i>	PERS 1	TRS 1	LEOFF 1
a. Present Value of Fully Projected Benefits (PVFB)	\$12,715	\$10,341	\$4,342
b. Present Value of Future Gain-sharing	504	426	0
c. Total PVFB (a + b)	13,219	10,767	4,342
d. Valuation Assets	10,227	9,086	4,803
e. Actuarial Present Value of Future Normal Costs	372	265	0
f. UAAL (c - d - e)	2,620	1,416	(462)
g. Expected UAAL Contributions to 2005	0	0	0
h. Remaining UAAL (f - g)	\$2,620	\$1,416	(\$462)
i. Amortization Date	6/30/2024	6/30/2024	6/30/2024
J. Present Value of Projected Salaries beyond 2005	\$124,819	\$50,755	\$16,205
K. Contribution Rate to Amortize the Remaining UAAL (h / j)*	2.10%	2.80%	(2.85%)

*Note: Totals may not agree due to rounding*

*\*LEOFF 1 is fully funded so no UAAL contributions are required. The TRS 1 UAAL rate includes an additional 0.01% for the non-automatic post-retirement benefit increase provided under Chapter 85, Laws of 2004.*

## Actuarial Liabilities

Present Value of Fully Projected Benefits						
(Dollars in millions)	PERS			TRS		
	Plan 1	Plan 2/3	Total	Plan 1	Plan 2/3	Total
<b>Active Members</b>						
Retirement	\$4,137	\$11,501	\$15,638	\$3,291	\$4,324	\$7,615
Termination	29	453	482	16	119	135
Death	28	105	133	15	52	67
Disability	34	97	131	10	5	14
Return of Contributions on Termination	15	255	270	1	6	7
Return of Contributions on Death	34	134	168	19	12	31
Portability	8	36	44	10	4	14
Uniform Cola	360	N/A	360	276	N/A	276
<b>Total Active</b>	<b>\$4,644</b>	<b>\$12,582</b>	<b>\$17,227</b>	<b>\$3,638</b>	<b>\$4,522</b>	<b>\$8,160</b>
<b>Inactive Members</b>						
Terminated	\$243	\$716	\$959	\$201	\$202	\$402
Service Retired	6,465	779	7,244	5,419	143	5,562
Disability Retired	108	47	156	93	4	98
Survivors	369	34	403	206	4	210
Uniform Cola	885	N/A	885	784	N/A	784
<b>Total Inactive</b>	<b>\$8,070</b>	<b>\$1,577</b>	<b>\$9,647</b>	<b>\$6,702</b>	<b>\$354</b>	<b>\$7,056</b>
Laws of 2004	0	0	0	0	0	0
<b>2003 Total</b>	<b>\$12,715</b>	<b>\$14,159</b>	<b>\$26,874</b>	<b>\$10,341</b>	<b>\$4,876</b>	<b>\$15,217</b>
<b>2002 Total</b>	<b>\$12,532</b>	<b>\$13,093</b>	<b>\$25,625</b>	<b>\$10,209</b>	<b>\$4,422</b>	<b>\$14,631</b>

Note: Totals may not agree due to rounding and exclude gain-sharing

### Present Value of Fully Projected Benefits

(Continued)

(Dollars in millions)

	SERS	LEOFF			WSP
	Plan 2/3	Plan 1	Plan 2	Total	
<b>Active Members</b>					
Retirement	\$1,651	\$409	\$4,020	\$4,429	\$380
Termination	120	1	85	86	2
Death	18	5	11	16	5
Disability	11	207	5	211	0
Return of Contributions on Termination	21	0	80	80	3
Return of Contributions on Death	10	2	38	40	2
Portability	5	0	4	4	0
Uniform Cola	N/A	N/A	N/A	N/A	0
<b>Total Active</b>	<b>\$1,835</b>	<b>\$623</b>	<b>\$4,242</b>	<b>\$4,865</b>	<b>\$392</b>
<b>Inactive Members</b>					
Terminated	\$78	\$8	\$67	\$75	\$3
Service Retired	61	1,306	62	1,368	314
Disability Retired	3	2,029	6	2,034	1
Survivors	1	376	3	378	17
Uniform Cola	N/A	N/A	N/A	N/A	0
<b>Total Inactive</b>	<b>\$144</b>	<b>\$3,719</b>	<b>\$137</b>	<b>\$3,856</b>	<b>\$335</b>
<b>Laws of 2004</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>0</b>
<b>2003 Total</b>	<b>\$1,979</b>	<b>\$4,342</b>	<b>\$4,383</b>	<b>\$8,724</b>	<b>\$727</b>
<b>2002 Total</b>	<b>\$1,804</b>	<b>\$4,338</b>	<b>\$4,042</b>	<b>\$8,380</b>	<b>\$686</b>

Note: Totals may not agree due to rounding and exclude gain-sharing

### Present Value of Credited Projected Benefits

	PERS			TRS		
	Plan 1	Plan 2/3	Total	Plan 1	Plan 2/3	Total
<i>(Dollars in millions)</i>						
<b>Active Members</b>						
Retirement	\$3,480	\$5,457	\$8,936	\$2,814	\$1,960	\$4,774
Termination	23	247	271	14	61	75
Death	23	52	75	13	24	37
Disability	28	51	80	8	3	11
Return of Contributions on Termination	11	135	146	1	4	5
Return of Contributions on Death	28	70	98	16	7	23
Portability	7	17	24	8	2	11
Uniform Cola	303	N/A	303	236	N/A	236
<b>Total Active</b>	<b>\$3,904</b>	<b>\$6,029</b>	<b>\$9,933</b>	<b>\$3,111</b>	<b>\$2,060</b>	<b>\$5,171</b>
<b>Inactive Members</b>						
Terminated	\$243	\$716	\$959	\$201	\$202	\$402
Service Retired	6,465	779	7,244	5,419	143	5,562
Disability Retired	108	47	156	93	4	98
Survivors	369	34	403	206	4	210
Uniform Cola	885	N/A	885	784	N/A	784
<b>Total Inactive</b>	<b>\$8,070</b>	<b>\$1,577</b>	<b>\$9,647</b>	<b>\$6,702</b>	<b>\$354</b>	<b>\$7,056</b>
Laws of 2004	0	0	0	0	0	0
<b>2003 Total</b>	<b>\$11,974</b>	<b>\$7,606</b>	<b>\$19,580</b>	<b>\$9,813</b>	<b>\$2,414</b>	<b>\$12,228</b>
<b>2002 Total</b>	<b>\$11,682</b>	<b>\$6,777</b>	<b>\$18,460</b>	<b>\$9,602</b>	<b>\$2,085</b>	<b>\$11,687</b>

Note: Totals may not agree due to rounding and exclude gain-sharing

### Present Value of Credited Projected Benefits

(Continued)

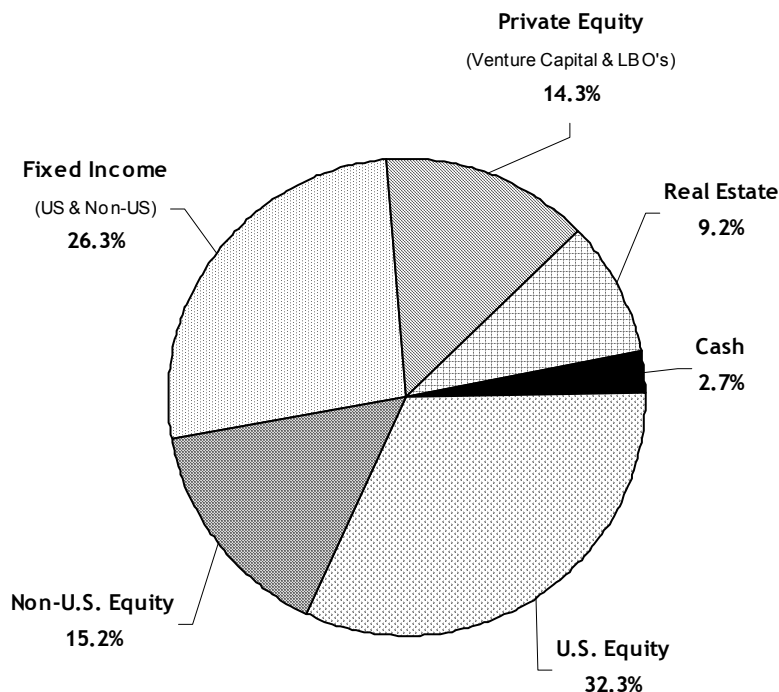
	SERS	LEOFF			WSP
	Plan 2/3	Plan 1	Plan 2	Total	
<i>(Dollars in millions)</i>					
<b>Active Members</b>					
Retirement	\$808	\$368	\$1,939	\$2,307	\$199
Termination	65	1	47	47	1
Death	9	5	5	10	2
Disability	6	188	2	191	0
Return of Contributions on Termination	12	0	42	42	1
Return of Contributions on Death	5	2	19	21	1
Portability	3	0	2	2	0
Uniform Cola	N/A	N/A	N/A	N/A	0
<b>Total Active</b>	<b>\$907</b>	<b>\$563</b>	<b>\$2,057</b>	<b>\$2,620</b>	<b>\$205</b>
<b>Inactive Members</b>					
Terminated	\$78	\$8	\$65	\$73	\$3
Service Retired	61	1,306	62	1,368	314
Disability Retired	3	2,029	6	2,034	1
Survivors	1	376	3	378	17
Uniform Cola	N/A	N/A	N/A	N/A	N/A
<b>Total Inactive</b>	<b>\$144</b>	<b>\$3,719</b>	<b>\$135</b>	<b>\$3,854</b>	<b>\$335</b>
Laws of 2004	0	0	2	2	0
<b>2003 Total</b>	<b>\$1,051</b>	<b>\$4,282</b>	<b>\$2,194</b>	<b>\$6,476</b>	<b>\$540</b>
<b>2002 Total</b>	<b>\$899</b>	<b>\$4,265</b>	<b>\$1,937</b>	<b>\$6,202</b>	<b>\$508</b>

Note: Totals may not agree due to rounding and exclude gain-sharing



## Plan Assets

### Retirement Commingled Trust Fund (CTF) Asset Allocation



**Cash:** Money held while being transferred between investments or placed temporarily in an interest-bearing account.

**U.S. Fixed Income:** U.S. Treasury and government bonds; investment-grade corporate bonds; publicly traded mortgage-backed securities; mortgages; asset-backed and convertible securities.

**Non-U.S. Fixed Income:** Foreign government bonds.

**U.S. Equity:** Stock in U.S. companies.

**Non-U.S. Equity:** Stock in foreign companies.

**Venture Capital:** Equity financing of early expansion and later-stage growth of small businesses.

**Leveraged Buy-outs (LBOs):** The purchase of all assets or stock in a company using borrowed funds.

**Real Estate:** Office and retail space; apartments; warehouses; hotels; etc.

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**Change in Market Value of Assets**


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*(Dollars in millions)*

	PERS			TRS		
	Plan 1	Plan 2/3	Total	Plan 1	Plan 2/3	Total
	Fund 631	Fund 641		Fund 632	Fund 642	
<b>2002 Market Value</b>	<b>\$8,236</b>	<b>\$8,246</b>	<b>\$16,481</b>	<b>\$6,962</b>	<b>\$2,877</b>	<b>\$9,839</b>
<b>Revenue</b>						
Contributions						
Employee	61	40	101	46	1	47
Employer/State	47	44	91	19	19	38
Total Contributions	108	85	192	65	20	85
Investment Return	1,178	1,280	2,458	996	433	1,429
Restorations	5	2	7	2	0	2
Transfers In	0	0	1	0	0	0
Miscellaneous	0	0	0	0	0	0
<b>Total Revenue</b>	<b>\$1,291</b>	<b>\$1,367</b>	<b>\$2,658</b>	<b>\$1,063</b>	<b>\$453</b>	<b>\$1,516</b>
<b>Disbursements</b>						
Withdrawn Annuities						
Monthly Benefits	\$790	\$76	\$866	\$665	\$12	\$677
Refunds	6	28	33	2	3	5
Total Benefits	796	104	899	667	15	681
Transfers Out*	0	48	48	0	1	1
Expenses	0	0	1	0	0	0
<b>Total Disbursements</b>	<b>\$796</b>	<b>\$152</b>	<b>\$948</b>	<b>\$667</b>	<b>\$15</b>	<b>\$682</b>
<b>Payables</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>2003 Market Value</b>	<b>\$8,730</b>	<b>\$9,461</b>	<b>\$18,191</b>	<b>\$7,358</b>	<b>\$3,315</b>	<b>\$10,673</b>
<b>2003 Actuarial Value</b>	<b>\$10,227</b>	<b>\$10,842</b>	<b>\$21,070</b>	<b>\$9,086</b>	<b>\$3,949</b>	<b>\$13,035</b>
<b>Ratio</b>	<b>117%</b>	<b>115%</b>	<b>116%</b>	<b>123%</b>	<b>119%</b>	<b>122%</b>

Note: Totals may not agree due to rounding

\*PERS 2 value includes \$480 million actual transfers, less \$431 million shown as payables for 2002.

### Change in Market Value of Assets

(Continued)

(Dollars in millions)

	SERS		LEOFF		WSP
	Plan 2/3	Plan 1	Plan 2	Total	Fund 615
	Fund 633	Fund 819	Fund 829		
<b>2002 Market Value</b>	<b>\$1,157</b>	<b>\$4,060</b>	<b>\$2,136</b>	<b>\$6,196</b>	<b>\$551</b>
<b>Revenue</b>					
Contributions					
Employee	2	0	44	44	1
Employer/State	10	0	44	44	0
Total Contributions	12	0	88	88	1
Investment Return	176	587	327	914	81
Restorations	0	0	0	0	0
Transfers In	2	0	0	0	0
Miscellaneous	0	0	0	0	0
<b>Total Revenue</b>	<b>\$190</b>	<b>\$587</b>	<b>\$415</b>	<b>\$1,002</b>	<b>\$82</b>
<b>Disbursements</b>					
Withdrawn Annuities					
Monthly Benefits	5	267	4	271	24
Refunds	2	0	6	6	0
Total Benefits	7	267	10	277	25
Transfers Out	0	0	0	0	0
Expenses	0	0	0	0	0
<b>Total Disbursements</b>	<b>\$8</b>	<b>\$267</b>	<b>\$10</b>	<b>\$278</b>	<b>\$25</b>
<b>Payables</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>2003 Market Value</b>	<b>\$1,339</b>	<b>\$4,380</b>	<b>\$2,541</b>	<b>\$6,921</b>	<b>\$608</b>
<b>2003 Actuarial Value</b>	<b>\$1,546</b>	<b>\$4,803</b>	<b>\$2,740</b>	<b>\$7,544</b>	<b>\$664</b>
<b>Ratio</b>	<b>115%</b>	<b>110%</b>	<b>108%</b>	<b>109%</b>	<b>109%</b>

Note: Totals may not agree due to rounding

### Calculation of Actuarial Value of Assets

(Dollars in Millions)

Investment Gain/(Loss) for Prior Year

	PERS 1	PERS 2/3*	TRS 1	TRS 2/3*	SERS 2/3*	LEOFF 1	LEOFF 2	WSP
a. 2002 Market Value (at SIB)	\$ 8,230	\$ 8,778	\$ 6,956	\$ 2,875	\$ 1,156	\$ 4,059	\$ 2,131	\$ 550
b. Total Cash Flow	(683)	(606)	(600)	3	7	(267)	75	(23)
c. 2003 Market Value (at SIB)	8,726	9,453	7,353	3,312	1,339	4,379	2,533	608
d. Actual return (c-b-a)	\$ 1,179	\$ 1,281	\$ 997	\$ 433	\$ 175	\$ 588	\$ 327	\$ 81
e. Weighted asset amount	\$ 7,875	\$ 8,508	\$ 6,658	\$ 2,869	\$ 1,158	\$ 3,916	\$ 2,163	\$ 537
f. Expected return (8%xe)	630	681	533	229	93	313	173	43
g. Investment Gain/(Loss) for Prior Year (d-f)	549	601	465	204	82	274	154	38
h. Dollar weighted rate of return	14.97%	15.05%	14.97%	15.11%	15.12%	15.00%	15.13%	15.03%

Note: Totals may not agree due to rounding

\*Defined Benefit portion only

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**Actuarial Value of Assets as of September 30, 2003**


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		PERS 1	PERS 2/3*	TRS 1	TRS 2/3*	SERS 2/3*
a.	Market Value at 9/30/2003	\$8,730	\$9,461	\$7,358	\$3,315	\$1,339
b.	Deferred Investment Gains and (Losses)					
	<u>Plan Year Ending</u>		<u>Percent Deferred</u>			
	9/30/2003	471	85.7, 87.5%**	506	398	178
	9/30/2002	(938)	75.0%	(938)	(794)	(325)
	9/30/2001	(1,029)	62.50%	(950)	(1,332)	(487)
	Total	(1,497)		(1,382)	(634)	(206)
c.	<b>Actuarial Value of Assets (a-b)</b>	<b>\$10,227</b>	<b>\$10,842</b>	<b>\$9,086</b>	<b>\$3,949</b>	<b>\$1,546</b>

Note: Totals may not agree due to rounding

\*Defined Benefit portion only

\*\*Plan 1 = 85.7% deferred; Plan 2/3 = 87.5% deferred.

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**Actuarial Value of Assets as of September 30, 2003**


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(Continued)

		LEOFF 1	LEOFF 2	WSP
a.	Market Value at 9/30/2003	\$4,380	\$2,541	\$608
b.	Deferred Investment Gains and (Losses)			
	<u>Plan Year Ending</u>		<u>Percent Deferred</u>	
	9/30/2003	240	87.5%	135
	9/30/2002	(462)	75.0%	(240)
	9/30/2001	(201)	25.0%	(95)
	Total	(423)		(200)
c.	<b>Actuarial Value of Assets (a-b)</b>	<b>\$4,803</b>	<b>\$2,740</b>	<b>\$664</b>

Note: Totals may not agree due to rounding

## Funded Status

Development of Funded Ratio								
(Dollars in millions)	PERS		TRS		SERS	LEOFF		WSP
	Plan 1	Plan 2/3	Plan 1	Plan 2/3	Plan 2/3	Plan 1	Plan 2	
Credited Projected Liability	\$12,431	\$7,658	\$10,207	\$2,552	\$1,121	\$4,282	\$2,194	\$540
Valuation Assets	\$10,227	\$10,842	\$9,086	\$3,949	\$1,546	\$4,803	\$2,740	\$664
Unfunded Liability	\$2,204	(\$3,184)	\$1,121	(\$1,397)	(\$425)	(\$521)	(\$547)	(\$124)
Funded Ratio:								
2003 *	82%	142%	89%	155%	138%	112%	125%	123%
2002 *	92%	158%	98%	182%	169%	119%	137%	135%
2001 *	97%	179%	100%	197%	197%	129%	154%	147%
2000 *	98%	190%	100%	196%	170%	136%	161%	152%
1999	93%	189%	93%	188%	N/A	125%	154%	159%
1998	86%	191%	86%	185%	N/A	117%	160%	147%
1997 *	83%	187%	82%	181%	N/A	108%	155%	140%
1996	73%	157%	70%	144%	N/A	89%	130%	128%
1995	68%	150%	65%	136%	N/A	80%	126%	119%
1994 *	67%	142%	65%	130%	N/A	68%	124%	110%
1993	70%	142%	62%	126%	N/A	68%	127%	110%
1992	67%	139%	59%	127%	N/A	65%	128%	108%
1991	67%	149%	59%	131%	N/A	66%	154%	106%
1990	66%	154%	60%	140%	N/A	65%	153%	105%
1989 *	65%	162%	58%	144%	N/A	65%	158%	103%
1988	66%	165%	59%	143%	N/A	66%	153%	102%
1987	71%	175%	58%	135%	N/A	69%	157%	95%
1986	63%	162%	50%	125%	N/A	57%	142%	87%

Note: Totals may not agree due to rounding.

\*Assumption and/or method change

## Actuarial Gains/Losses

### Change in Employer and State Contribution Rate by Source

Change in Employer Rate	PERS*	TRS*	SERS**	LEOFF***	WSP
<b>2002 Contribution Rate</b>	<b>3.78%</b>	<b>3.19%</b>	<b>3.64%</b>	<b>(2.47%)</b>	<b>(3.03%)</b>
Laws of 2004	0.00%	0.00%	0.00%	0.00%	0.00%
<b>2002 Adjusted Contribution Rate</b>	<b>3.78%</b>	<b>3.19%</b>	<b>3.64%</b>	<b>(2.47%)</b>	<b>(3.03%)</b>
Economic Gains/Losses	1.42%	1.75%	1.16%	2.48%	4.47%
Demographic Gains/Losses	(0.01%)	(0.21%)	(0.18%)	0.00%	0.03%
Other Gains/Losses	(0.11%)	(0.01%)	0.59%	0.01%	3.04%
<b>Total Change</b>	<b>1.30%</b>	<b>1.53%</b>	<b>1.57%</b>	<b>2.49%</b>	<b>7.54%</b>
<b>2003 Preliminary Contribution Rate</b>	<b>5.08%</b>	<b>4.72%</b>	<b>5.21%</b>	<b>0.02%</b>	<b>4.51%</b>
Laws of 2004	0.00%	0.01%	0.00%	0.01%	0.00%
<b>2003 Contribution Rate</b>	<b>5.08%</b>	<b>4.73%</b>	<b>5.21%</b>	<b>0.03%</b>	<b>4.51%</b>
Additional Rate to Prefund Gain Sharing	0.65%	2.01%	2.35%	N/A	N/A
<b>Contribution Rate Including Prefund Gain Sharing</b>	<b>5.73%</b>	<b>6.74%</b>	<b>7.56%</b>	<b>0.03%</b>	<b>4.51%</b>

\*The adjusted PERS and TRS Plan 1 UAAL rates would be applicable after the 03-05 UAAL contribution holiday

\*\*The SERS rate includes the UAAL rate for PERS Plan 1

\*\*\*The LEOFF contribution rate is the State's portion for Plan 2 (20% of the Normal Cost) plus the UAAL rate for Plan 1



### Change in Employer and State Contribution Rate by Source

(Continued)

	PERS*	TRS*	SERS**	LEOFF***	WSP
<b>Change in Normal Costs</b>					
<b>2002 Normal Cost</b>	<b>2.63%</b>	<b>1.98%</b>	<b>2.49%</b>	<b>2.57%</b>	<b>(3.03%)</b>
Laws of 2004	0.00%	0.00%	0.00%	0.00%	0.00%
<b>2002 Adjusted Normal Cost</b>	<b>2.63%</b>	<b>1.98%</b>	<b>2.49%</b>	<b>2.57%</b>	<b>(3.03%)</b>
Assets	0.88%	0.50%	0.87%	0.39%	4.13%
Salaries	(0.21%)	0.00%	(0.04%)	(0.15%)	(0.85%)
Growth	0.26%	0.45%	0.33%	0.13%	1.19%
Economic Gains/Losses	0.93%	0.95%	1.16%	0.37%	4.47%
Termination/Return to Work	(0.04%)	(0.20%)	(0.21%)	(0.02%)	0.07%
Retirement	0.02%	0.03%	0.03%	0.01%	(0.04%)
Demographic Gains/Losses	(0.02%)	(0.17%)	(0.18%)	(0.01%)	0.03%
Other Gains/Losses	(0.16%)	(0.03%)	0.04%	(0.06%)	3.04%
<b>Total Change</b>	<b>0.75%</b>	<b>0.75%</b>	<b>1.02%</b>	<b>0.30%</b>	<b>7.54%</b>
<b>2003 Preliminary Normal Cost</b>	<b>3.38%</b>	<b>2.73%</b>	<b>3.51%</b>	<b>2.87%</b>	<b>4.51%</b>
Laws of 2004	0.00%	0.00%	0.00%	0.01%	0.00%
<b>2003 Normal Cost</b>	<b>3.38%</b>	<b>2.73%</b>	<b>3.51%</b>	<b>2.88%</b>	<b>4.51%</b>
Additional Rate to Prefund Gain Sharing	0.25%	1.21%	1.95%	N/A	N/A
<b>Normal Cost Rate Including Prefund Gain Sharing</b>	<b>3.63%</b>	<b>3.94%</b>	<b>5.46%</b>	<b>2.88%</b>	<b>4.51%</b>
<b>Change in UAAL Rate</b>					
<b>2002 UAAL Rate</b>	<b>1.15%</b>	<b>1.21%</b>	<b>1.15%</b>	<b>(5.04%)</b>	<b>N/A</b>
Laws of 2004	0.00%	0.00%	0.00%	0.00%	N/A
<b>2002 Adjusted UAAL Rate</b>	<b>1.15%</b>	<b>1.21%</b>	<b>1.15%</b>	<b>(5.04%)</b>	<b>N/A</b>
Assets	0.53%	0.79%	N/A	2.60%	N/A
Salaries	(0.07%)	0.00%	N/A	(0.11%)	N/A
Growth	0.03%	0.01%	N/A	0.00%	N/A
Inflation (CPI)	0.00%	0.00%	N/A	(0.38%)	N/A
Economic Gains/Losses	0.49%	0.80%	N/A	2.11%	N/A
Termination/Return to Work	0.00%	(0.01%)	N/A	0.00%	N/A
Retirement	0.01%	(0.03%)	N/A	0.01%	N/A
Demographic Gains/Losses	0.01%	(0.04%)	N/A	0.01%	N/A
Other Gains/Losses	0.05%	0.02%	0.55%	0.07%	N/A
<b>Total Change</b>	<b>0.55%</b>	<b>0.78%</b>	<b>0.55%</b>	<b>2.19%</b>	<b>N/A</b>
<b>2003 Preliminary UAAL Rate</b>	<b>1.70%</b>	<b>1.99%</b>	<b>N/A</b>	<b>(2.85%)</b>	<b>N/A</b>
Laws of 2004	0.00%	0.01%	N/A	0.00%	N/A
<b>2003 UAAL Rate</b>	<b>1.70%</b>	<b>2.00%</b>	<b>1.70%</b>	<b>(2.85%)</b>	<b>N/A</b>
Additional Rate to Prefund Gain Sharing	0.40%	0.80%	0.40%	N/A	N/A
<b>UAAL Rate Including Prefund Gain Sharing</b>	<b>2.10%</b>	<b>2.80%</b>	<b>2.10%</b>	<b>(2.85%)</b>	<b>N/A</b>

\*The adjusted PERS and TRS Plan 1 UAAL rates would be applicable after the 03-05 UAAL contribution holiday

\*\*The SERS rate includes the UAAL rate for PERS Plan 1

\*\*\*The LEOFF contribution rate is the State's portion for Plan 2 (20% of the Normal Cost) plus the UAAL rate for Plan 1

## Effect of Plan, Assumption and Method Changes

In addition to experience gains or losses, significant changes in plan provisions or actuarial assumptions and methods will also have an impact on contribution rates.

### Plan Changes:

- HB 2418 (Chapter 4, Laws of 2004)
- HB 2419 (Chapter 5, Laws of 2004)
- SHB 2538 (Chapter 85, Laws of 2004)

### Assumption Changes:

None.

### Method Changes:

Gain-sharing benefits and asset valuation method (see Appendix).

The table below shows the combined effect of all 2004 pension legislation and method changes.

Effect of Plan, Assumption and Method Changes								
	PERS 1	PERS 2/3	TRS 1	TRS 2/3	SERS 2/3	LEOFF 1	LEOFF 2	WSP
<b>*Before Changes</b>								
Present Value of Fully Projected Benefits	\$12,715	\$14,159	\$10,341	\$4,876	\$1,979	\$4,342	\$4,379	\$727
Present Value of Credited Projected Benefits	11,974	7,606	9,813	2,414	1,051	4,282	2,192	540
Actuarial Value of Assets	10,227	10,842	9,086	3,949	1,546	4,803	2,740	664
Unfunded Liability	1,747	(3,236)	727	(1,535)	(495)	(521)	(549)	(124)
Employer Contribution Rate	5.08%	5.08%	4.72%	4.72%	5.21%	0.00%	2.87%	4.51%
<b>After Changes</b>								
Present Value of Fully Projected Benefits	\$13,219	\$14,278	\$10,767	\$5,220	\$2,138	\$4,342	\$4,383	\$727
Present Value of Credited Projected Benefits	12,431	7,658	10,207	2,552	1,121	4,282	2,194	540
Actuarial Value of Assets	10,227	10,842	9,086	3,949	1,546	4,803	2,740	664
Unfunded Liability	2,204	(3,184)	1,121	(1,397)	(425)	(521)	(547)	(124)
Employer Contribution Rate	5.73%	5.73%	6.74%	6.74%	7.56%	0.00%	2.88%	4.51%
<b>Increase/(Decrease) in Rate</b>	<b>0.65%</b>	<b>0.65%</b>	<b>2.02%</b>	<b>2.02%</b>	<b>2.35%</b>	<b>0.00%</b>	<b>0.01%</b>	<b>0.00%</b>

\*After actuarial gains and losses

# Participant Data

$$u = 4 = \log \tan 28' = \dots + 0.0684649 + 2$$

For the golden number we have  $N = 17$ .

the distance  $(q) = r' : \cos. 2\frac{1}{2}'$ , or

Log.  $\cos. 2\frac{1}{2}' = 9.9859' 43.78$   
Log.  $r' = 9.25654$   
Log.  $q = 9.6251360$  ( $N - 1$ )  
Log.  $c = 0.0708694$   
Log.  $16 = 1.896960002$

Log.  $E = 2.4966525$

Log.  $F = 2.7 = 2$

Log.  $P = 54 + 98' 48'' = 26$

Log.  $26 = 1.4149733$

Log.  $114 = 2.0569019$

# PARTICIPANT DATA

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## Overview of System Membership

The state administers eight retirement systems for state and local public employees. Retirement system membership is determined according to the participant's occupation and employer. Employees covered by each system are defined in separate chapters of the Revised Code of Washington (RCW).

The state also administers benefits for volunteer fire fighters and two small judicial systems (not included in this valuation). The judicial systems are closed to new members. Judges hired after June 30, 1988 are members of PERS 2/3.

The five largest retirement systems and a general description of their membership are listed below.

<b>PERS</b> - Public Employees' Retirement System <i>Chapter 41.40 RCW</i>	State employees; employees of all counties and most cities (the exceptions are Tacoma, Seattle, and Spokane); non-teaching employees of institutions of higher learning and community colleges; employees of ports, service districts, Energy Northwest (formerly known as the Washington Public Power Supply System) and public utility districts. Judges first elected or appointed after June 30, 1988 are also included.
<b>TRS</b> - Teachers' Retirement System <i>Chapter 41.32 RCW</i>	Certificated teachers; administrators; and educational staff associates.
<b>SERS</b> - School Employees' Retirement System <i>Chapter 41.35 RCW</i>	Classified school district employees.
<b>LEOFF</b> - Law Enforcement and Fire Fighter's Retirement System <i>Chapter 41.26 RCW</i>	Fire fighters; law enforcement officers including sheriffs; university, port, city police officers, and enforcement officers with the Department of Fish and Wildlife.
<b>WSP</b> - Washington State Patrol Retirement System <i>Chapter 43.43 RCW</i>	Commissioned officers of the Washington State Patrol.



## Active Membership By Employer and Plan

Employer	Total by						
	Employer	PERS			TRS		
		Plan 1	Plan 2	Plan 3	Plan 1	Plan 2	Plan 3
State Agencies	59,194	7,391	43,145	7,326	100	8	59
Higher Education	19,545	1,854	14,539	2,974	63	5	4
Community Colleges	5,963	538	4,289	828	214	39	55
K-12	116,534	3,668	0	0	10,755	7,535	46,964
Counties	29,321	2,461	21,762	2,304	0	0	0
County Sub Divisions	16,622	1,378	13,737	1,476	0	0	0
First Class Cities	8,391	365	2,579	421	0	0	0
Other Cities	16,936	984	9,803	1,228	0	0	0
Ports	2,147	203	1,631	133	0	0	0
Education Service District	1,953	77	0	0	43	50	181
Fire Districts	2,956	28	469	52	0	0	0
Public Utility District	3,947	483	3,083	381	0	0	0
Water Districts	1,688	191	1,365	132	0	0	0
Energy Northwest	1,235	82	860	293	0	0	0
Unions	37	37	0	0	0	0	0
<b>TOTAL</b>	<b>286,469</b>	<b>19,740</b>	<b>117,262</b>	<b>17,548</b>	<b>11,175</b>	<b>7,637</b>	<b>47,263</b>

## Active Membership By Employer and Plan

(Continued)

Employer	SERS		LEOFF		WSP	
	Plan 2	Plan 3	Plan 1	Plan 2	Plan 1	Plan 2
State Agencies	0	0	0	86	1,045	34
Higher Education	0	0	0	106	0	0
Community Colleges	0	0	0	0	0	0
K-12	20,831	26,781	0	0	0	0
Counties	0	0	137	2,657	0	0
County Sub Divisions	0	0	3	28	0	0
First Class Cities	0	0	484	4,542	0	0
Other Cities	0	0	279	4,642	0	0
Ports	0	0	6	174	0	0
Education Service District	673	929	0	0	0	0
Fire Districts	0	0	82	2,325	0	0
Public Utility District	0	0	0	0	0	0
Water Districts	0	0	0	0	0	0
Energy Northwest	0	0	0	0	0	0
Unions	0	0	0	0	0	0
<b>TOTAL</b>	<b>21,504</b>	<b>27,710</b>	<b>991</b>	<b>14,560</b>	<b>1,045</b>	<b>34</b>

The tables below summarize participant data changes from last year's valuation to the current year's valuation. The participant data is divided into two main categories: (1) Actives and (2) Annuitants (receiving a pension or annuity payment). The "+" symbol indicates new participants entering the system or actives and new beneficiaries entering the annuitant status; whereas the "-" symbol indicates participants that have left either active or annuitant status.

Reconciliation of Participant Data						
	PERS			TRS		
	Plan 1	Plan 2	Plan 3	Plan 1	Plan 2	Plan 3
<b>2002 Actives</b>	<b>21,737</b>	<b>116,939</b>	<b>15,509</b>	<b>12,456</b>	<b>7,809</b>	<b>45,798</b>
Transfers	0	(111)	3,654	0	(40)	37
Hires/Rehires (+)	456	9,900	62	149	269	4,147
New Retirees (-)	(1,804)	(686)	(69)	(1,185)	(72)	(56)
Deaths (-)	(46)	(171)	(9)	(23)	(8)	(13)
Terminations (-)	(603)	(8,609)	(1,599)	(222)	(321)	(2,650)
<b>2003 Actives</b>	<b>19,740</b>	<b>117,262</b>	<b>17,548</b>	<b>11,175</b>	<b>7,637</b>	<b>47,263</b>
<b>2002 Annuitants</b>	<b>54,006</b>	<b>9,741</b>	<b>9</b>	<b>33,148</b>	<b>823</b>	<b>283</b>
New Retirees (+)	2,223	1,299	73	1,488	142	98
Annuitant Deaths (-)	(2,280)	(237)	0	(928)	(15)	(2)
New Survivors (+)	438	104	4	179	9	7
Other (-)	(15)	(3)	0	(32)	(2)	(1)
<b>2003 Annuitants</b>	<b>54,372</b>	<b>10,904</b>	<b>86</b>	<b>33,855</b>	<b>957</b>	<b>385</b>
<b>Ratio Actives to Annuitants</b>	<b>0.36</b>	<b>10.75</b>	<b>204.05</b>	<b>0.33</b>	<b>7.98</b>	<b>122.76</b>

Reconciliation of Participant Data						
<i>(Continued)</i>						
	SERS		LEOFF		WSP	
	Plan 2	Plan 3	Plan 1	Plan 2	Plan 1	Plan 2
<b>2002 Actives</b>	<b>22,870</b>	<b>26,921</b>	<b>1,147</b>	<b>14,011</b>	<b>1,035</b>	<b>0</b>
Transfers	428	51	0	0	0	0
Hires/Rehires (+)	313	3,793	8	964	44	34
New Retirees (-)	(231)	(86)	(154)	(55)	(24)	0
Deaths (-)	(27)	(12)	(4)	(11)	(1)	0
Terminations (-)	(1,849)	(2,957)	(6)	(349)	(9)	0
<b>2003 Actives</b>	<b>21,504</b>	<b>27,710</b>	<b>991</b>	<b>14,560</b>	<b>1,045</b>	<b>34</b>
<b>2002 Annuitants</b>	<b>437</b>	<b>185</b>	<b>7,987</b>	<b>244</b>	<b>718</b>	<b>0</b>
New Retirees (+)	298	120	164	74	25	0
Annuitant Deaths (-)	(8)	(3)	(162)	(3)	(11)	0
New Survivors (+)	9	4	70	3	3	0
Other (-)	0	0	(5)	(2)	0	0
<b>2003 Annuitants</b>	<b>736</b>	<b>306</b>	<b>8,054</b>	<b>316</b>	<b>735</b>	<b>0</b>
<b>Ratio Actives to Annuitants</b>	<b>29.22</b>	<b>90.56</b>	<b>0.12</b>	<b>46.08</b>	<b>1.42</b>	<b>0.00</b>



## Summary of Plan Participants

Summary of Plan Participants								
PERS:	2003				2002			
	Plan 1	Plan 2	Plan 3	Total	Plan 1	Plan 2	Plan 3	Total
<b>Active Members</b>								
Number	19,740	117,262	17,548	154,550	21,737	116,939	15,509	154,185
Total Salaries (millions)	\$945	\$5,143	\$787	\$6,875	\$1,023	\$4,953	\$708	\$6,684
Average Age	55.2	44.6	42.2	45.7	54.6	44.0	42.7	45.4
Average Service	21.4	9.0	8.5	10.5	21.1	8.4	9.2	10.3
Average Salary	\$47,876	\$43,855	\$44,823	\$44,478	\$47,080	\$42,352	\$45,638	\$43,349
<b>Terminated Members</b>								
Number Vested	3,142	16,089	770	20,001	3,280	15,674	198	19,152
Number "Non-Vested"	6,525	78,853	0	85,378	7,010	77,151	0	84,161
<b>Retirees (including L&amp;I disabled)</b>								
Number of Retirees (All)	54,372	10,904	86	65,362	54,006	9,741	9	63,756
Average Monthly Benefit, All Retirees	\$1,250	\$618	\$407	\$1,144	\$1,173	\$580	\$405	\$1,082
Number of New "Service Retirees"	2,148	1,126	70	3,344	2,264	1,062	9	3,335
Average Monthly Benefit, New "Service Retirees"	\$2,255	\$828	\$429	\$1,736	\$2,122	\$755	\$405	\$1,682

Summary of Plan Participants								
TRS:	<i>Continued</i> 2003				2002			
	Plan 1	Plan 2	Plan 3	Total	Plan 1	Plan 2	Plan 3	Total
<b>Active Members</b>								
Number	11,175	7,637	47,263	66,075	12,456	7,809	45,798	66,063
Total Salaries (millions)	\$692	\$415	\$2,308	\$3,415	\$741	\$399	\$2,124	\$3,264
Average Age	55.4	49.3	41.1	44.5	54.6	48.6	40.6	44.2
Average Service	23.9	12.1	8.4	11.4	23.4	11.3	7.9	11.2
Average Salary	\$61,954	\$54,333	\$48,836	\$51,690	\$59,496	\$51,123	\$46,369	\$49,406
<b>Terminated Members</b>								
Number Vested	1,647	2,493	2,418	6,558	1,819	2,487	2,151	6,457
Number "Non-Vested"	776	4,169	0	4,945	814	4,378	0	5,192
Temporarily Disabled	2	0	0	2	3	0	0	3
<b>Retirees</b>								
Number of Retirees (All)	33,855	957	385	35,197	33,148	823	283	34,254
Average Monthly Benefit, All Retirees	\$1,539	\$941	\$407	\$1,510	\$1,476	\$904	\$376	\$1,453
Number of New "Service Retirees"	1,459	136	94	1,689	1,710	109	68	1,887
Average Monthly Benefit, New "Service Retirees"	\$2,206	\$1,036	\$482	\$2,016	\$2,126	\$1,093	\$411	\$2,005

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**Summary of Plan Participants**


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*Continued*

SERS:	2003			2002		
	Plan 2	Plan 3	Total	Plan 2	Plan 3	Total
<b>Active Members</b>						
Number	21,504	27,710	49,214	22,870	26,921	49,791
Total Salaries (millions)	\$494	\$639	\$1,133	\$494	\$592	\$1,086
Average Age	48.3	45.8	46.9	47.5	45.2	46.3
Average Service	8.6	7.1	7.8	7.7	6.8	7.2
Average Salary	\$22,967	\$23,051	\$23,014	\$21,593	\$21,988	\$21,807
<b>Terminated Members</b>						
Number Vested	1,902	1,648	3,550	1,397	1,148	2,545
Number "Non-Vested"	4,232	0	4,232	3,553	0	3,553
<b>Retirees</b>						
Number of Retirees (All)	736	306	1,042	437	185	622
Average Monthly Benefit, All Retirees	\$518	\$231	\$434	\$494	\$212	\$410
Number of New "Service Retirees"	273	115	388	208	97	305
Average Monthly Benefit, New "Service Retirees"	\$562	\$259	\$472	\$566	\$217	\$455

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**Summary of Plan Participants**


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*Continued*

LEOFF:	2003			2002		
	Plan 1	Plan 2	Total	Plan 1	Plan 2	Total
<b>Active Members</b>						
Number	991	14,560	15,551	1,147	14,011	15,158
Total Salaries (millions)	\$71	\$967	\$1,038	\$80	\$902	\$982
Average Age	54.0	39.5	40.4	53.2	39.0	40.1
Average Service	29.3	10.7	11.9	28.3	10.4	11.8
Average Salary	\$71,924	\$66,388	\$66,741	\$69,667	\$64,347	\$64,750
<b>Terminated Members</b>						
Number Vested	14	439	453	22	376	398
Number "Non-Vested"	84	1,186	1,270	90	1,137	1,227
<b>Retirees</b>						
Number of Retirees (All)	8,054	316	8,370	7,987	244	8,231
Average Monthly Benefit, All Retirees	\$2,796	\$1,341	\$2,741	\$2,730	\$1,188	\$2,684
Number of New "Service Retirees"	163	66	229	173	45	218
Average Monthly Benefit, New "Service Retirees"	\$3,642	\$1,720	\$3,088	\$3,428	\$1,583	\$3,047

\*New Disability Retirees Included for Plan 1 Only

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**Summary of Plan Participants**


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*Continued*

WSP:	2003			2002		
	Plan 1	Plan 2	Total	Plan 1	Plan 2	Total
<b>Active Members</b>						
Number	1,045	34	1,079	1,035	0	1,035
Total Salaries (millions)	\$65	\$1	\$66	\$63	\$0	\$63
Average Age	38.8	28.8	38.5	38.4	0.0	38.4
Average Service	12.2	0.8	11.8	11.9	0.0	11.9
Average Salary	\$61,848	\$41,018	\$61,192	\$60,422	\$0	\$60,422
<b>Terminated Members</b>						
Number Vested	32	0	32	33	0	33
Number "Non-Vested"	20	0	20	17	0	17
Disabled Members*	61	0	61	62	0	62
<b>Retirees</b>						
Number of Retirees (All)	735	0	735	718	0	718
Average Monthly Benefit, All Retirees	\$2,884	\$0	\$2,884	\$2,756	\$0	\$2,756
Number of New "Service Retirees"	25	0	25	25	0	25
Average Monthly Benefit, New "Service Retirees"	\$3,811	\$0	\$3,811	\$3,468	\$0	\$3,468

\*Benefits provided outside of pension funds

# Appendices

$$u = 4 = \log \tan 28' + 0.0684649 + 2$$

$$2292 = 2292$$

$$D = 29' 23'' \cdot 5$$

$$98^\circ 59' 43'' \cdot 8$$

For the golden number we have  $N = 17$ .

the distance  $(q) = r \cdot \cos \frac{1}{2}v$ , or

Log.  $\cos^2 \frac{1}{2}v = 9.25654$

Log.  $r = 9.6251360$

Log.  $q = 0.0708694$

$$N = 16 = \frac{9.6251360 (N - 1)}{0.0708694}$$

Log.  $\frac{1}{2}v = 18.6960002$

Log.  $\frac{1}{2}v = 0.4966525$

$E = 27 = 2 + 25 = 2$

of the perihelion have  $F = 26$ .

$P = 54 = 11 + 43 = 26$

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# APPENDICES

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## Actuarial Assumptions and Methods

### Actuarial Cost Methods

The method employed varies by plan:

**Plans 1:** A variation of the Aggregate Cost Method was used to determine the normal cost and the actuarial accrued liability for retirement, termination and ancillary benefits. Under this method, the unfunded actuarial accrued liability is equal to the unfunded actuarial present value of projected benefits less the actuarial present value of future normal costs for all active members. The present value of future normal costs is based on the Aggregate normal cost rate for Plan 2/3 and the resulting unfunded actuarial accrued liability is amortized by June 30, 2024 as a level percentage of projected system payroll. The projected payroll includes pay from plan 2 and plan 3 as well as projected payroll from future new entrants.

As a result of this hybrid method employers are charged the same contribution rate, regardless of the plan in which employees hold membership (except for LEOFF).

**Plans 2 and Plans 3:** The Aggregate Cost Method was used to determine the normal cost and the actuarial accrued liability for retirement, termination and ancillary benefits. Under this method, the unfunded actuarial present value of fully projected benefits is amortized over the future payroll of the active group. The entire contribution is considered normal cost and no unfunded actuarial accrued liability exists.

**Washington State Patrol:** The Aggregate Cost Method was used to determine the normal cost and the actuarial accrued liability for retirement, termination and ancillary benefits. The entire normal cost is divided equally between the employee and the employer. The minimum employee normal cost rate is 2%.

### Asset Valuation Method

The actuarial value of assets is calculated under an adjusted market value method by starting with the market value of assets. For subsequent years the actuarial value of assets is determined by adjusting the market value of assets to reflect the difference between the actual investment return and the expected investment return during each of the last 8 years or, if fewer, the completed years since adoption, at the following rates per year (annual recognition):

Annual Gain/Loss		
Rate of Return	Smoothing Period	Annual Recognition
15% and up	8 years	12.50%
14-15%	7 years	14.29%
13-14%	6 years	16.67%
12-13%	5 years	20.00%
11-12%	4 years	25.00%
10-11%	3 years	33.33%
9-10%	2 years	50.00%
7-9%	1 year	100.00%
6-7%	2 years	50.00%
5-6%	3 years	33.33%
4-5%	4 years	25.00%
3-4%	5 years	20.00%
2-3%	6 years	16.67%
1-2%	7 years	14.29%
1% and lower	8 years	12.50%

Additionally, the actuarial value of assets may not exceed 130% nor drop below 70% of the market value of assets.

### Gain-Sharing Valuation Method

The difference between the present value of future benefits valued at a gross and net valuation interest rate was used to determine the liability associated with future gain-sharing benefits. See the table of Economic Assumptions in this Appendix for a listing of the valuation interest rates used for each individual retirement system and plan. The gross valuation interest rate, the rate before reduction for gain sharing, was used to determine the present value of future salaries.

### Changes in Assumptions and Methods since Last Valuation

The method for calculating the actuarial value of assets has changed. A 30% market value corridor was added to the asset valuation method.

The difference between the liabilities valued at a gross and net valuation interest rate was used to determine the liability associated with the current gain-sharing benefit provisions. This liability was not included in the previous valuation.



## Economic Assumptions

Economic Assumptions					
By System	PERS	TRS	SERS	LEOFF	WSP
Annual Growth in Membership	1.25%	0.90%	1.25%	1.25%	1.25%
Interest on Member Contributions <sup>1</sup>	5.50%	5.50%	5.50%	5.50%	5.50%
Return on Investment Earnings <sup>2</sup>	8.00%	8.00%	8.00%	8.00%	8.00%
Reduction (due to future gain-sharing payments) <sup>3</sup>	0.40%	0.40%	0.40%	N/A	N/A
Net Return on Investment Earnings	7.60%	7.60%	7.60%	8.00%	8.00%
Inflation <sup>4</sup>	3.50%	3.50%	3.50%	3.50%	3.50%
General Salary Increases (due to inflation) <sup>5</sup>	4.50%	4.50%	4.50%	4.50%	4.50%
Annual COLA	Uniform	Uniform			
	Plan 1: COLA <sup>6</sup>	COLA <sup>6</sup>	N/A	3.50% <sup>8</sup>	3.00% <sup>7</sup>
	Plan 2/3: 3.00% <sup>7</sup>	3.00% <sup>7</sup>	3.00% <sup>7</sup>	3.00% <sup>7</sup>	3.00% <sup>7</sup>

<sup>1</sup> Annual rate, compounded quarterly

<sup>2</sup> Annual rate, compounded annually

<sup>3</sup> Gain-sharing applies only in PERS, TRS and SERS. Rate reductions shown are for plan 1 only.

Plan 2/3 reductions: PERS = 0.04%, TRS = 0.29%, SERS = 0.37%. These rate reductions are smaller than the plan 1 reductions

because the plan 2/3 defined benefits are combined, but only plan 3 members receive gain-sharing benefits.

<sup>4</sup> Based on the CPI: Urban Wage Earners & Clerical Workers, Seattle-Tacoma-Bremerton, WA - All Items

<sup>5</sup> Excludes longevity, merit or step increases that usually apply to members in the early part of their careers

<sup>6</sup> As provided in the plan provisions

<sup>7</sup> Based on the CPI (3% maximum)

<sup>8</sup> Equal to the CPI

Demographic Assumptions

Age	Probability of Service Retirement																									
	PERS						TRS						SERS						LEOFF		WSP					
	Plan 1	Plan 2/3*	Plan 1	Plan 1	Plan 2/3*	Plan 2/3*	Plan 1	Plan 1	Plan 2/3*	Plan 2/3*	Plan 2/3*	Plan 1	Plan 1	Plan 2/3*	Plan 2/3*	Plan 2/3*	Plan 1	Plan 1	Plan 2	Plan 1	Plan 2					
		Service greater than 30 years	Service not equal to 30 years	Service equal to 30 years	Service less than 30 years	Service greater than 30 years	Service not equal to 30 years	Service equal to 30 years	Service less than 30 years	Service greater than 30 years	Service less than 30 years	Service not equal to 30 years	Service equal to 30 years	Service less than 30 years	Service greater than 30 years	Service less than 30 years	Service not equal to 30 years	Service equal to 30 years	Service less than 30 years	Service greater than 30 years	Service less than 30 years	Service greater than 30 years				
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female				
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.31		
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.31	
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.31	
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.31	
49	0.00	0.00	0.00	0.00	0.25	0.20	0.40	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.31	
50	0.64	0.40	0.00	0.00	0.25	0.20	0.40	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.10	0.31	0.31
51	0.57	0.43	0.00	0.00	0.25	0.20	0.40	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.10	0.23	0.23
52	0.52	0.37	0.00	0.00	0.25	0.20	0.40	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.10	0.23	0.23
53	0.52	0.33	0.00	0.00	0.25	0.20	0.40	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.16	0.23	0.23
54	0.52	0.00	0.00	0.00	0.25	0.20	0.40	0.30	0.05	0.03	0.08	0.05	0.02	0.02	0.04	0.04	0.10	0.19	0.19	0.19	0.19	0.19	0.10	0.19	0.23	0.23
55	0.22	0.05	0.05	0.07	0.20	0.20	0.35	0.30	0.05	0.05	0.08	0.08	0.05	0.05	0.07	0.07	0.16	0.24	0.24	0.24	0.24	0.24	0.16	0.24	0.23	0.23
56	0.22	0.18	0.05	0.07	0.20	0.20	0.35	0.30	0.05	0.10	0.08	0.15	0.05	0.05	0.07	0.07	0.16	0.25	0.25	0.25	0.25	0.25	0.16	0.25	0.28	0.28
57	0.22	0.18	0.05	0.07	0.20	0.20	0.40	0.30	0.05	0.10	0.08	0.15	0.05	0.05	0.07	0.07	0.16	0.25	0.25	0.25	0.25	0.25	0.16	0.25	0.28	0.28
58	0.22	0.10	0.05	0.14	0.07	0.20	0.25	0.45	0.30	0.05	0.10	0.08	0.15	0.10	0.05	0.14	0.23	0.33	0.33	0.33	0.33	0.33	0.23	0.33	0.28	0.28
59	0.22	0.37	0.10	0.05	0.14	0.07	0.20	0.25	0.45	0.30	0.20	0.15	0.30	0.23	0.10	0.05	0.14	0.23	0.33	0.33	0.33	0.33	0.23	0.33	0.28	0.28
60	0.22	0.18	0.14	0.21	0.20	0.20	0.20	0.60	0.35	0.40	0.20	0.60	0.30	0.14	0.14	0.21	0.23	0.33	0.33	0.33	0.33	0.33	0.23	0.33	1.00	1.00
61	0.22	0.14	0.18	0.21	0.27	0.45	0.35	0.60	0.55	0.30	0.30	0.45	0.45	0.14	0.18	0.21	0.28	0.37	0.37	0.37	0.37	0.28	0.37	1.00	1.00	1.00
62	0.40	0.37	0.33	0.30	0.45	0.30	0.25	0.60	0.50	0.30	0.30	0.45	0.45	0.33	0.30	0.50	0.28	0.37	0.37	0.37	0.37	0.28	0.37	1.00	1.00	1.00
63	0.26	0.26	0.26	0.39	0.39	0.25	0.20	0.60	0.50	0.60	0.50	0.90	0.75	0.26	0.26	0.39	0.28	0.37	0.37	0.37	0.37	0.28	0.37	1.00	1.00	1.00
64	0.30	0.26	0.79	0.82	0.90	0.45	0.45	0.90	0.90	0.50	0.50	0.50	0.50	0.79	0.82	0.90	0.40	0.48	0.48	0.48	0.48	0.40	0.48	1.00	1.00	1.00
65	0.49	0.46	0.52	0.49	0.49	0.45	0.35	0.90	0.90	0.50	0.30	0.50	0.30	0.52	0.49	0.52	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
66	0.30	0.26	0.30	0.30	0.30	0.35	0.30	0.90	0.90	0.50	0.25	0.50	0.25	0.30	0.30	0.30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
67	0.30	0.26	0.26	0.26	0.26	0.30	0.35	0.90	0.90	0.50	0.25	0.50	0.25	0.26	0.26	0.22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
68	0.30	0.26	0.22	0.26	0.26	0.30	0.25	0.90	0.90	0.50	0.40	0.50	0.40	0.22	0.26	0.22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
69	0.30	0.26	0.22	0.26	0.22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
70+	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

\*Approximately 50% of those eligible to retire with at least 20, but less than 30 years of service in Plan 3 elect to defer their benefits.

RP-2000 Mortality Rates		Mortality											
		Age Offset (Years) -->		PERS - all plans		TRS - all plans		SERS - all plans		LEOFF - all plans		WSP - all plans	
		Age	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
20	0.000345	0.000191	20	0.000345	0.000191	0.000345	0.000191	0.000345	0.000191	0.000345	0.000191	0.000345	0.000191
21	0.000357	0.000192	21	0.000357	0.000192	0.000345	0.000191	0.000357	0.000191	0.000357	0.000192	0.000357	0.000192
22	0.000366	0.000194	22	0.000366	0.000194	0.000345	0.000191	0.000366	0.000191	0.000366	0.000194	0.000366	0.000194
23	0.000373	0.000197	23	0.000373	0.000197	0.000357	0.000192	0.000373	0.000192	0.000373	0.000197	0.000373	0.000197
24	0.000376	0.000201	24	0.000376	0.000201	0.000366	0.000194	0.000376	0.000194	0.000376	0.000201	0.000376	0.000201
25	0.000376	0.000207	25	0.000376	0.000207	0.000373	0.000197	0.000376	0.000197	0.000376	0.000207	0.000376	0.000207
26	0.000378	0.000214	26	0.000378	0.000214	0.000376	0.000201	0.000378	0.000201	0.000378	0.000214	0.000378	0.000214
27	0.000382	0.000223	27	0.000382	0.000223	0.000376	0.000207	0.000382	0.000207	0.000382	0.000223	0.000382	0.000223
28	0.000393	0.000235	28	0.000393	0.000235	0.000378	0.000214	0.000393	0.000214	0.000393	0.000235	0.000393	0.000235
29	0.000412	0.000248	29	0.000412	0.000248	0.000382	0.000223	0.000412	0.000223	0.000412	0.000248	0.000412	0.000248
30	0.000444	0.000264	30	0.000444	0.000264	0.000393	0.000235	0.000444	0.000235	0.000444	0.000264	0.000444	0.000264
31	0.000499	0.000307	31	0.000499	0.000307	0.000412	0.000248	0.000499	0.000248	0.000499	0.000307	0.000499	0.000307
32	0.000562	0.000350	32	0.000562	0.000350	0.000444	0.000264	0.000562	0.000264	0.000562	0.000350	0.000562	0.000350
33	0.000631	0.000394	33	0.000631	0.000394	0.000499	0.000307	0.000631	0.000307	0.000631	0.000394	0.000631	0.000394
34	0.000702	0.000435	34	0.000702	0.000435	0.000562	0.000350	0.000702	0.000350	0.000702	0.000435	0.000702	0.000435
35	0.000773	0.000475	35	0.000773	0.000475	0.000631	0.000394	0.000773	0.000394	0.000773	0.000475	0.000773	0.000475
36	0.000841	0.000514	36	0.000841	0.000514	0.000702	0.000435	0.000841	0.000435	0.000841	0.000514	0.000841	0.000514
37	0.000904	0.000554	37	0.000904	0.000554	0.000773	0.000475	0.000904	0.000475	0.000904	0.000554	0.000904	0.000554
38	0.000964	0.000598	38	0.000964	0.000598	0.000841	0.000514	0.000964	0.000514	0.000964	0.000598	0.000964	0.000598
39	0.001021	0.000648	39	0.001021	0.000648	0.000904	0.000554	0.001021	0.000554	0.001021	0.000648	0.001021	0.000648
40	0.001079	0.000706	40	0.001079	0.000706	0.000964	0.000598	0.001079	0.000598	0.001079	0.000706	0.001079	0.000706
41	0.001142	0.000774	41	0.001142	0.000774	0.001021	0.000648	0.001142	0.000648	0.001142	0.000774	0.001142	0.000774
42	0.001215	0.000852	42	0.001215	0.000852	0.001079	0.000706	0.001215	0.000706	0.001215	0.000852	0.001215	0.000852
43	0.001299	0.000937	43	0.001299	0.000937	0.001142	0.000774	0.001299	0.000774	0.001299	0.000937	0.001299	0.000937
44	0.001397	0.001029	44	0.001397	0.001029	0.001215	0.000852	0.001397	0.000852	0.001397	0.001029	0.001397	0.001029

<b>Mortality</b>															
<i>(Continued)</i>															
RP-2000 Mortality Rates		Combined Healthy		Age Offset		PERS - all plans		TRS - all plans		SERS - all plans		LEOFF - all plans		WSP - all plans	
		Age	Male	Female	Age	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
				(Years) -->		0		-2		0		0		0	
45	0.001508	0.001124	0.001124	45	0.001508	0.000937	0.001299	0.000937	0.001508	0.000937	0.001508	0.001124	0.001508	0.001124	0.001508
46	0.001616	0.001223	0.001223	46	0.001616	0.001029	0.001397	0.001029	0.001616	0.001029	0.001616	0.001223	0.001616	0.001223	0.001616
47	0.001734	0.001326	0.001326	47	0.001734	0.001124	0.001508	0.001124	0.001734	0.001124	0.001734	0.001326	0.001734	0.001326	0.001734
48	0.001860	0.001434	0.001434	48	0.001860	0.001223	0.001616	0.001223	0.001860	0.001223	0.001860	0.001434	0.001860	0.001434	0.001860
49	0.001995	0.001550	0.001550	49	0.001995	0.001326	0.001734	0.001326	0.001995	0.001326	0.001995	0.001550	0.001995	0.001550	0.001995
50	0.002138	0.001676	0.001676	50	0.002138	0.001434	0.001860	0.001434	0.002138	0.001434	0.002138	0.001676	0.002138	0.001676	0.002138
51	0.002449	0.001852	0.001852	51	0.002449	0.001550	0.001995	0.001550	0.002449	0.001550	0.002449	0.001852	0.002449	0.001852	0.002449
52	0.002667	0.002018	0.002018	52	0.002667	0.001676	0.002138	0.001676	0.002667	0.001676	0.002667	0.002018	0.002667	0.002018	0.002667
53	0.002916	0.002207	0.002207	53	0.002916	0.001852	0.002449	0.001852	0.002916	0.001852	0.002916	0.002207	0.002916	0.002207	0.002916
54	0.003196	0.002424	0.002424	54	0.003196	0.002018	0.002667	0.002018	0.003196	0.002018	0.003196	0.002424	0.003196	0.002424	0.003196
55	0.003624	0.002717	0.002717	55	0.003624	0.002207	0.002916	0.002207	0.003624	0.002207	0.003624	0.002717	0.003624	0.002717	0.003624
56	0.004200	0.003090	0.003090	56	0.004200	0.002424	0.003196	0.002424	0.004200	0.002424	0.004200	0.003090	0.004200	0.003090	0.004200
57	0.004693	0.003478	0.003478	57	0.004693	0.002717	0.003624	0.002717	0.004693	0.002717	0.004693	0.003478	0.004693	0.003478	0.004693
58	0.005273	0.003923	0.003923	58	0.005273	0.003090	0.004200	0.003090	0.005273	0.003090	0.005273	0.003923	0.005273	0.003923	0.005273
59	0.005945	0.004441	0.004441	59	0.005945	0.003478	0.004693	0.003478	0.005945	0.003478	0.005945	0.004441	0.005945	0.004441	0.005945
60	0.006747	0.005055	0.005055	60	0.006747	0.003923	0.005273	0.003923	0.006747	0.003923	0.006747	0.005055	0.006747	0.005055	0.006747
61	0.007676	0.005814	0.005814	61	0.007676	0.004441	0.005945	0.004441	0.007676	0.004441	0.007676	0.005814	0.007676	0.005814	0.007676
62	0.008757	0.006657	0.006657	62	0.008757	0.005055	0.006747	0.005055	0.008757	0.005055	0.008757	0.006657	0.008757	0.006657	0.008757
63	0.010012	0.007648	0.007648	63	0.010012	0.005814	0.007676	0.005814	0.010012	0.005814	0.010012	0.007648	0.010012	0.007648	0.010012
64	0.011280	0.008619	0.008619	64	0.011280	0.006657	0.008757	0.006657	0.011280	0.006657	0.011280	0.008619	0.011280	0.008619	0.011280
65	0.012737	0.009706	0.009706	65	0.012737	0.007648	0.010012	0.007648	0.012737	0.007648	0.012737	0.009706	0.012737	0.009706	0.012737
66	0.014409	0.010954	0.010954	66	0.014409	0.008619	0.011280	0.008619	0.014409	0.008619	0.014409	0.010954	0.014409	0.010954	0.014409
67	0.016075	0.012163	0.012163	67	0.016075	0.009706	0.012737	0.009706	0.016075	0.009706	0.016075	0.012163	0.016075	0.012163	0.016075
68	0.017871	0.013445	0.013445	68	0.017871	0.010954	0.014409	0.010954	0.017871	0.010954	0.017871	0.013445	0.017871	0.013445	0.017871
69	0.019802	0.014860	0.014860	69	0.019802	0.012163	0.016075	0.012163	0.019802	0.012163	0.019802	0.014860	0.019802	0.014860	0.019802

**Mortality**  
*(Continued)*

RP-2000 Mortality Rates	Age Offset (Years) -->											
	Combined Healthy		PERS - all plans		TRS - all plans		SERS - all plans		LEOFF - all plans		WSP - all plans	
	Age	Male	Female	Age	Male	Female	Age	Male	Female	Age	Male	Female
70	0.022206	0.016742	0.017871	0.013445	0.022206	0.013445	0.022206	0.013445	0.022206	0.016742	0.022206	0.016742
71	0.024570	0.018579	0.019802	0.014860	0.024570	0.014860	0.024570	0.014860	0.024570	0.018579	0.024570	0.018579
72	0.027281	0.020665	0.022206	0.016742	0.027281	0.016742	0.027281	0.016742	0.027281	0.020665	0.027281	0.020665
73	0.030387	0.022970	0.024570	0.018579	0.030387	0.018579	0.030387	0.018579	0.030387	0.022970	0.030387	0.022970
74	0.033900	0.025458	0.027281	0.020665	0.033900	0.020665	0.033900	0.020665	0.033900	0.025458	0.033900	0.025458
75	0.037834	0.028106	0.030387	0.022970	0.037834	0.022970	0.037834	0.022970	0.037834	0.028106	0.037834	0.028106
76	0.042169	0.030966	0.033900	0.025458	0.042169	0.025458	0.042169	0.025458	0.042169	0.030966	0.042169	0.030966
77	0.046906	0.034105	0.037834	0.028106	0.046906	0.028106	0.046906	0.028106	0.046906	0.034105	0.046906	0.034105
78	0.052123	0.037595	0.042169	0.030966	0.052123	0.030966	0.052123	0.030966	0.052123	0.037595	0.052123	0.037595
79	0.057927	0.041506	0.046906	0.034105	0.057927	0.034105	0.057927	0.034105	0.057927	0.041506	0.057927	0.041506
80	0.064368	0.045879	0.052123	0.037595	0.064368	0.037595	0.064368	0.037595	0.064368	0.045879	0.064368	0.045879
81	0.072041	0.050780	0.057927	0.041506	0.072041	0.041506	0.072041	0.041506	0.072041	0.050780	0.072041	0.050780
82	0.080486	0.056294	0.064368	0.045879	0.080486	0.045879	0.080486	0.045879	0.080486	0.056294	0.080486	0.056294
83	0.089718	0.062506	0.072041	0.050780	0.089718	0.050780	0.089718	0.050780	0.089718	0.062506	0.089718	0.062506
84	0.099779	0.069517	0.080486	0.056294	0.099779	0.056294	0.099779	0.056294	0.099779	0.069517	0.099779	0.069517
85	0.110757	0.077446	0.089718	0.062506	0.110757	0.062506	0.110757	0.062506	0.110757	0.077446	0.110757	0.077446
86	0.122797	0.086376	0.099779	0.069517	0.122797	0.069517	0.122797	0.069517	0.122797	0.086376	0.122797	0.086376
87	0.136043	0.096337	0.110757	0.077446	0.136043	0.077446	0.136043	0.077446	0.136043	0.096337	0.136043	0.096337
88	0.150590	0.107303	0.122797	0.086376	0.150590	0.086376	0.150590	0.086376	0.150590	0.107303	0.150590	0.107303
89	0.166420	0.119154	0.136043	0.096337	0.166420	0.096337	0.166420	0.096337	0.166420	0.119154	0.166420	0.119154
90	0.183408	0.131682	0.150590	0.107303	0.183408	0.107303	0.183408	0.107303	0.183408	0.131682	0.183408	0.131682
91	0.199769	0.144604	0.166420	0.119154	0.199769	0.119154	0.199769	0.119154	0.199769	0.144604	0.199769	0.144604
92	0.216605	0.157618	0.183408	0.131682	0.216605	0.131682	0.216605	0.131682	0.216605	0.157618	0.216605	0.157618
93	0.233662	0.170433	0.199769	0.144604	0.233662	0.144604	0.233662	0.144604	0.233662	0.170433	0.233662	0.170433
94	0.250693	0.182799	0.216605	0.157618	0.250693	0.157618	0.250693	0.157618	0.250693	0.182799	0.250693	0.182799

<b>Mortality</b>															
<i>(Continued)</i>															
RP-2000 Mortality Rates		Combined Healthy		Age Offset		PERS - all plans		TRS - all plans		SERS - all plans		LEOFF - all plans		WSP - all plans	
		Male	Female	Age	Years) -->	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
95	0.267491	0.194509	95	0.267491	0.170433	0.267491	0.170433	0.267491	0.170433	0.267491	0.170433	0.267491	0.170433	0.267491	0.194509
96	0.283905	0.205379	96	0.283905	0.182799	0.283905	0.182799	0.283905	0.182799	0.283905	0.182799	0.283905	0.182799	0.283905	0.205379
97	0.299852	0.215240	97	0.299852	0.194509	0.299852	0.194509	0.299852	0.194509	0.299852	0.194509	0.299852	0.194509	0.299852	0.215240
98	0.315296	0.223947	98	0.315296	0.205379	0.315296	0.205379	0.315296	0.205379	0.315296	0.205379	0.315296	0.205379	0.315296	0.223947
99	0.330207	0.231387	99	0.330207	0.215240	0.330207	0.215240	0.330207	0.215240	0.330207	0.215240	0.330207	0.215240	0.330207	0.231387
100	0.344556	0.237467	100	0.344556	0.223947	0.344556	0.223947	0.344556	0.223947	0.344556	0.223947	0.344556	0.223947	0.344556	0.237467
101	0.358628	0.244834	101	0.358628	0.231387	0.358628	0.231387	0.358628	0.231387	0.358628	0.231387	0.358628	0.231387	0.358628	0.244834
102	0.371685	0.254498	102	0.371685	0.237467	0.371685	0.237467	0.371685	0.237467	0.371685	0.237467	0.371685	0.237467	0.371685	0.254498
103	0.383040	0.266044	103	0.383040	0.244834	0.383040	0.244834	0.383040	0.244834	0.383040	0.244834	0.383040	0.244834	0.383040	0.266044
104	0.392003	0.279055	104	0.392003	0.254498	0.392003	0.254498	0.392003	0.254498	0.392003	0.254498	0.392003	0.254498	0.392003	0.279055
105	0.397886	0.293116	105	0.397886	0.266044	0.397886	0.266044	0.397886	0.266044	0.397886	0.266044	0.397886	0.266044	0.397886	0.293116
106	0.400000	0.307811	106	0.400000	0.279055	0.400000	0.279055	0.400000	0.279055	0.400000	0.279055	0.400000	0.279055	0.400000	0.307811
107	0.400000	0.322725	107	0.400000	0.293116	0.400000	0.293116	0.400000	0.293116	0.400000	0.293116	0.400000	0.293116	0.400000	0.322725
108	0.400000	0.337441	108	0.400000	0.307811	0.400000	0.307811	0.400000	0.307811	0.400000	0.307811	0.400000	0.307811	0.400000	0.337441
109	0.400000	0.351544	109	0.400000	0.322725	0.400000	0.322725	0.400000	0.322725	0.400000	0.322725	0.400000	0.322725	0.400000	0.351544
110	0.400000	0.364617	110	0.400000	0.337441	0.400000	0.337441	0.400000	0.337441	0.400000	0.337441	0.400000	0.337441	0.400000	0.364617



Disabled Mortality

Age Offset (Years) -->	PERS - all plans		TRS - all plans		SERS - all plans		LEOFF - all plans		WSP - all plans			
	6	6	5	0.0175	0.03	0.03	0.03	0.005	0.005	0.005	0.005	
RP-2000 Mortality Rates	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
20	0.000345	0.000191	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
21	0.000357	0.000192	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
22	0.000366	0.000194	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
23	0.000373	0.000197	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
24	0.000376	0.000201	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
25	0.000376	0.000207	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
26	0.000378	0.000214	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
27	0.000382	0.000223	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
28	0.000393	0.000235	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
29	0.000412	0.000248	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
30	0.000444	0.000264	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
31	0.000499	0.000307	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
32	0.000562	0.000350	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
33	0.000631	0.000394	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
34	0.000702	0.000435	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
35	0.000773	0.000475	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
36	0.000841	0.000514	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
37	0.000904	0.000554	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
38	0.000964	0.000598	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
39	0.001021	0.000648	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
40	0.001079	0.000706	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
41	0.001142	0.000774	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
42	0.001215	0.000852	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
43	0.001299	0.000937	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000
44	0.001397	0.001029	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000	0.005000

<b>Disabled Mortality</b>															
(Continued)															
RP-2000 Mortality Rates	Combined Healthy		PERS - all plans		TRS - all plans		SERS - all plans		LEOFF - all plans		WSP - all plans				
	Age	Male	Female	Age	Male	Female	Age	Male	Female	Age	Male	Female			
	45	0.001508	0.001124	45	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	46	0.001616	0.001223	46	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	47	0.001734	0.001326	47	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	48	0.001860	0.001434	48	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	49	0.001995	0.001550	49	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	50	0.002138	0.001676	50	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	51	0.002449	0.001852	51	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	52	0.002667	0.002018	52	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	53	0.002916	0.002207	53	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	54	0.003196	0.002424	54	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	55	0.003624	0.002717	55	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005000	0.005000	0.005000	0.005000
	56	0.004200	0.003090	56	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005273	0.005000	0.005273	0.005000
	57	0.004693	0.003478	57	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.005945	0.005000	0.005945	0.005000
	58	0.005273	0.003923	58	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.006747	0.005055	0.006747	0.005055
	59	0.005945	0.004441	59	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.007676	0.005814	0.007676	0.005814
	60	0.006747	0.005055	60	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.008757	0.006657	0.008757	0.006657
	61	0.007676	0.005814	61	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.010012	0.007648	0.010012	0.007648
	62	0.008757	0.006657	62	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.011280	0.008619	0.011280	0.008619
	63	0.010012	0.007648	63	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.012737	0.009706	0.012737	0.009706
	64	0.011280	0.008619	64	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.014409	0.010954	0.014409	0.010954
	65	0.012737	0.009706	65	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.016075	0.012163	0.016075	0.012163
	66	0.014409	0.010954	66	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.017871	0.013445	0.017871	0.013445
	67	0.016075	0.012163	67	0.050000	0.035000	0.030000	0.017500	0.030000	0.030000	0.030000	0.019802	0.014860	0.019802	0.014860
	68	0.017871	0.013445	68	0.050000	0.035000	0.030387	0.017500	0.030387	0.030387	0.030387	0.022206	0.016742	0.022206	0.016742
	69	0.019802	0.014860	69	0.050000	0.035000	0.033900	0.018579	0.033900	0.033900	0.033900	0.024570	0.018579	0.024570	0.018579

Disabled Mortality

(Continued)

RP-2000 Mortality Rates	Age	Combined Healthy		PERS - all plans		TRS - all plans		SERS - all plans		LEOFF - all plans		WSP - all plans	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
		Age		Age		Age		Age		Age		Age	
	70	0.022206	0.016742	0.050000	0.035000	0.037834	0.020665	0.037834	0.030000	0.027281	0.020665	0.027281	0.020665
	71	0.024570	0.018579	0.050000	0.035000	0.042169	0.022970	0.042169	0.030000	0.030387	0.022970	0.030387	0.022970
	72	0.027281	0.020665	0.052123	0.037595	0.046906	0.025458	0.046906	0.030000	0.033900	0.025458	0.033900	0.025458
	73	0.030387	0.022970	0.057927	0.041506	0.052123	0.030000	0.052123	0.030000	0.037834	0.028106	0.037834	0.028106
	74	0.033900	0.025458	0.064368	0.045879	0.057927	0.030966	0.057927	0.030966	0.042169	0.030966	0.042169	0.030966
	75	0.037834	0.028106	0.072041	0.050780	0.064368	0.034105	0.064368	0.034105	0.046906	0.034105	0.046906	0.034105
	76	0.042169	0.030966	0.080486	0.056294	0.072041	0.037595	0.072041	0.037595	0.052123	0.037595	0.052123	0.037595
	77	0.046906	0.034105	0.089718	0.062506	0.080486	0.041506	0.080486	0.041506	0.057927	0.041506	0.057927	0.041506
	78	0.052123	0.037595	0.099779	0.069517	0.089718	0.045879	0.089718	0.045879	0.064368	0.045879	0.064368	0.045879
	79	0.057927	0.041506	0.110757	0.077446	0.099779	0.050780	0.099779	0.050780	0.072041	0.050780	0.072041	0.050780
	80	0.064368	0.045879	0.122797	0.086376	0.110757	0.056294	0.110757	0.056294	0.080486	0.056294	0.080486	0.056294
	81	0.072041	0.050780	0.136043	0.096337	0.122797	0.062506	0.122797	0.062506	0.089718	0.062506	0.089718	0.062506
	82	0.080486	0.056294	0.150590	0.107303	0.136043	0.069517	0.136043	0.069517	0.099779	0.069517	0.099779	0.069517
	83	0.089718	0.062506	0.166420	0.119154	0.150590	0.077446	0.150590	0.077446	0.110757	0.077446	0.110757	0.077446
	84	0.099779	0.069517	0.183408	0.131682	0.166420	0.086376	0.166420	0.086376	0.122797	0.086376	0.122797	0.086376
	85	0.110757	0.077446	0.199769	0.144604	0.183408	0.096337	0.183408	0.096337	0.136043	0.096337	0.136043	0.096337
	86	0.122797	0.086376	0.216605	0.157618	0.199769	0.107303	0.199769	0.107303	0.150590	0.107303	0.150590	0.107303
	87	0.136043	0.096337	0.233662	0.170433	0.216605	0.119154	0.216605	0.119154	0.166420	0.119154	0.166420	0.119154
	88	0.150590	0.107303	0.250693	0.182799	0.233662	0.131682	0.233662	0.131682	0.183408	0.131682	0.183408	0.131682
	89	0.166420	0.119154	0.267491	0.194509	0.250693	0.144604	0.250693	0.144604	0.199769	0.144604	0.199769	0.144604
	90	0.183408	0.131682	0.283905	0.205379	0.267491	0.157618	0.267491	0.157618	0.216605	0.157618	0.216605	0.157618
	91	0.199769	0.144604	0.299852	0.215240	0.283905	0.170433	0.283905	0.170433	0.233662	0.170433	0.233662	0.170433
	92	0.216605	0.157618	0.315296	0.223947	0.299852	0.182799	0.299852	0.182799	0.250693	0.182799	0.250693	0.182799
	93	0.233662	0.170433	0.330207	0.231387	0.315296	0.194509	0.315296	0.194509	0.267491	0.194509	0.267491	0.194509
	94	0.250693	0.182799	0.344556	0.237467	0.330207	0.205379	0.330207	0.205379	0.283905	0.205379	0.283905	0.205379

**Disabled Mortality**

(Continued)

RP-2000 Mortality Rates	Age	Combined Healthy		PERS - all plans		TRS - all plans		SERS - all plans		LEOFF - all plans		WSP - all plans	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
		Age	Age	Age	Age	Age	Age	Age	Age	Age	Age	Age	Age
	95	0.267491	0.194509	0.358628	0.244834	0.344556	0.215240	0.344556	0.215240	0.299852	0.215240	0.299852	0.215240
	96	0.283905	0.205379	0.371685	0.254498	0.358628	0.223947	0.358628	0.223947	0.315296	0.223947	0.315296	0.223947
	97	0.299852	0.215240	0.383040	0.266044	0.371685	0.231387	0.371685	0.231387	0.330207	0.231387	0.330207	0.231387
	98	0.315296	0.223947	0.392003	0.279055	0.383040	0.237467	0.383040	0.237467	0.344556	0.237467	0.344556	0.237467
	99	0.330207	0.231387	0.397886	0.293116	0.392003	0.244834	0.392003	0.244834	0.358628	0.244834	0.358628	0.244834
	100	0.344556	0.237467	0.400000	0.307811	0.397886	0.254498	0.397886	0.254498	0.371685	0.254498	0.371685	0.254498
	101	0.358628	0.244834	0.400000	0.322725	0.400000	0.266044	0.400000	0.266044	0.383040	0.266044	0.383040	0.266044
	102	0.371685	0.254498	0.400000	0.337441	0.400000	0.279055	0.400000	0.279055	0.392003	0.279055	0.392003	0.279055
	103	0.383040	0.266044	0.400000	0.351544	0.400000	0.293116	0.400000	0.293116	0.397886	0.293116	0.397886	0.293116
	104	0.392003	0.279055	0.400000	0.364617	0.400000	0.307811	0.400000	0.307811	0.400000	0.307811	0.400000	0.307811
	105	0.397886	0.293116	0.400000	0.376246	0.400000	0.322725	0.400000	0.322725	0.400000	0.322725	0.400000	0.322725
	106	0.400000	0.307811	0.400000	0.386015	0.400000	0.337441	0.400000	0.337441	0.400000	0.337441	0.400000	0.337441
	107	0.400000	0.322725	0.400000	0.393507	0.400000	0.351544	0.400000	0.351544	0.400000	0.351544	0.400000	0.351544
	108	0.400000	0.337441	0.400000	0.398308	0.400000	0.364617	0.400000	0.364617	0.400000	0.364617	0.400000	0.364617
	109	0.400000	0.351544	0.400000	0.400000	0.400000	0.376246	0.400000	0.376246	0.400000	0.376246	0.400000	0.376246
	110	0.400000	0.364617	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000



Probability of Disablement (Continued)														
Age	PERS				TRS				SERS		LEOFF		WSP	
	Plan 1		Plan 2/3		Plan 1		Plan 2/3		Plan 1	Plan 2/3	Plan 1	Plan 2	Plan 1	Plan 2
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Both	Both
50	0.002542	0.003023	0.000922	0.001003	0.001634	0.001656	0.000422	0.000347	0.001102	0.000738	0.001102	0.000738	0.073417	0.000547
51	0.002784	0.003514	0.001026	0.001141	0.001885	0.001911	0.000487	0.000401	0.001230	0.000897	0.001230	0.000897	0.079508	0.000628
52	0.003027	0.004006	0.001131	0.001278	0.002177	0.002207	0.000563	0.000463	0.001357	0.001057	0.001357	0.001057	0.085561	0.000722
53	0.004768	0.004808	0.001631	0.001780	0.002512	0.002546	0.000649	0.000534	0.002048	0.001664	0.002048	0.001664	0.091576	0.000851
54	0.006505	0.005610	0.002130	0.002281	0.002900	0.002939	0.000750	0.000617	0.002738	0.002270	0.002738	0.002270	0.097553	0.000951
55	0.008240	0.006411	0.002630	0.002782	0.003347	0.003393	0.000866	0.000712	0.003428	0.002876	0.003428	0.002876	0.103493	0.000951
56	0.009972	0.007211	0.003129	0.003283	0.003580	0.003629	0.000926	0.000762	0.004117	0.003482	0.004117	0.003482	0.109395	0.000951
57	0.011701	0.008011	0.003628	0.003783	0.003829	0.003881	0.000990	0.000814	0.004805	0.004087	0.004805	0.004087	0.115262	0.000951
58	0.011701	0.007508	0.004955	0.005084	0.004096	0.004151	0.001059	0.000871	0.006303	0.004588	0.006303	0.004588	0.121663	0.000951
59	0.011701	0.007005	0.006280	0.006384	0.004381	0.004440	0.001133	0.000932	0.007799	0.005089	0.007799	0.005089	0.121663	0.000951
60	0.011701	0.006502	0.007603	0.007681	0.004686	0.004750	0.001212	0.000997	0.009292	0.005589	0.009292	0.005589	0.121663	0.000951
61	0.011701	0.005998	0.008925	0.008977	0.005219	0.005290	0.001349	0.001110	0.010783	0.006089	0.010783	0.006089	0.121663	0.000951
62	0.011701	0.005495	0.010244	0.010271	0.005814	0.005892	0.001503	0.001237	0.012272	0.006589	0.012272	0.006589	0.121663	0.000951
63	0.011701	0.005495	0.010244	0.010271	0.006475	0.006563	0.001674	0.001377	0.012272	0.006589	0.012272	0.006589	0.121663	0.000951
64	0.011701	0.005495	0.010244	0.010271	0.007213	0.007311	0.001865	0.001534	0.012272	0.006589	0.012272	0.006589	0.121663	0.000951
65	0.011701	0.005495	0.010244	0.010271	0.008000	0.008000	0.002000	0.002000	0.012272	0.006589	0.012272	0.006589	0.121663	0.000951
66	0.011701	0.005495	0.010244	0.010271	0.008000	0.008000	0.002000	0.002000	0.012272	0.006589	0.012272	0.006589	0.121663	0.000951
67	0.011701	0.005495	0.010244	0.010271	0.008000	0.008000	0.002000	0.002000	0.012272	0.006589	0.012272	0.006589	0.121663	0.000951
68	0.011701	0.005495	0.010244	0.010271	0.008000	0.008000	0.002000	0.002000	0.012272	0.006589	0.012272	0.006589	0.121663	0.000951
69	0.011701	0.005495	0.010244	0.010271	0.008000	0.008000	0.002000	0.002000	0.012272	0.006589	0.012272	0.006589	0.121663	0.000951
70	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.121663	0.000951

No TRS Plan 1 or PERS Plan 1 disabilities are assumed for members beyond 60 years of age. Ten percent of all PERS Plan 1 disabilities are assumed to be duty related.

LEOFF Plan 1 disability retirements are assumed to continue after service retirement begins



**Probability of Termination**

Service Years	PERS - all plans		TRS - all plans		SERS - all plans		LEOFF - all plans		WSP - all plans	
	Male	Female	Male	Female	Male	Female	Male & Female	Male & Female	Male & Female	Male & Female
0	0.2590	0.2639	0.0965	0.1000	0.2590	0.1945	0.1043	0.0243		
1	0.1546	0.1672	0.0600	0.0700	0.1609	0.1287	0.0469	0.0243		
2	0.1020	0.1172	0.0400	0.0550	0.1154	0.1007	0.0237	0.0243		
3	0.0769	0.0925	0.0400	0.0450	0.1007	0.0760	0.0208	0.0243		
4	0.0639	0.0769	0.0350	0.0400	0.0852	0.0658	0.0198	0.0243		
5	0.0531	0.0653	0.0300	0.0350	0.0728	0.0597	0.0194	0.0138		
6	0.0435	0.0587	0.0220	0.0300	0.0606	0.0531	0.0194	0.0138		
7	0.0407	0.0531	0.0210	0.0260	0.0559	0.0521	0.0194	0.0138		
8	0.0373	0.0469	0.0200	0.0200	0.0493	0.0483	0.0167	0.0138		
9	0.0354	0.0411	0.0190	0.0195	0.0464	0.0464	0.0167	0.0138		
10	0.0325	0.0387	0.0180	0.0190	0.0426	0.0450	0.0167	0.0087		
11	0.0310	0.0354	0.0180	0.0170	0.0402	0.0445	0.0142	0.0087		
12	0.0305	0.0315	0.0100	0.0140	0.0383	0.0440	0.0142	0.0087		
13	0.0286	0.0310	0.0100	0.0140	0.0373	0.0440	0.0142	0.0087		
14	0.0276	0.0300	0.0100	0.0140	0.0325	0.0421	0.0099	0.0087		
15	0.0266	0.0286	0.0100	0.0140	0.0296	0.0426	0.0099	0.0064		
16	0.0237	0.0262	0.0095	0.0110	0.0266	0.0378	0.0099	0.0064		
17	0.0213	0.0227	0.0090	0.0090	0.0242	0.0344	0.0070	0.0064		
18	0.0183	0.0198	0.0080	0.0090	0.0203	0.0310	0.0070	0.0064		
19	0.0149	0.0173	0.0070	0.0090	0.0159	0.0262	0.0070	0.0064		
20	0.0114	0.0144	0.0050	0.0050	0.0124	0.0203	0.0070	0.0019		
21	0.0095	0.0114	0.0050	0.0050	0.0114	0.0159	0.0070	0.0019		
22	0.0075	0.0095	0.0050	0.0050	0.0085	0.0129	0.0070	0.0019		
23	0.0060	0.0080	0.0050	0.0050	0.0065	0.0085	0.0070	0.0019		
24	0.0055	0.0055	0.0050	0.0050	0.0065	0.0075	0.0070	0.0019		

Probability of Termination

(Continued)

Service Years	PERS - all plans		TRS - all plans		SERS - all plans		LEOFF - all plans		WSP - all plans	
	Male	Female	Male	Female	Male	Female	Male & Female	Male & Female	Male & Female	Male & Female
25	0.0050	0.0045	0.0050	0.0050	0.0050	0.0075	0.0070	0.0000	0.0000	
26	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0070	0.0000	0.0000	
27	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0070	0.0000	0.0000	
28	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0070	0.0000	0.0000	
29	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
30	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
31	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
32	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
33	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
34	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
35	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
36	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
37	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
38	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
39	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
40	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
41	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
42	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
43	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
44	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
45	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
46	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
47	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
48	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
49	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	
50	0.0040	0.0040	0.0050	0.0050	0.0050	0.0075	0.0000	0.0000	0.0000	

**Probability of Vesting upon Termination**

(for those not eligible to early retire)

Service Years	PERS				TRS				SERS				LEOFF		WSP	
	Plan 1		Plan 2		Plan 1		Plan 2		Plan 2		Plan 2		Plan 2		Plan 2	
	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.65	0.65	0.60	0.60	0.60	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00
5	0.35	0.35	0.35	0.65	0.65	0.60	0.60	0.60	0.50	0.50	0.15	0.15	0.15	0.15	0.15	0.15
6	0.45	0.45	0.45	0.75	0.75	0.60	0.60	0.60	0.55	0.55	0.15	0.15	0.15	0.15	0.15	0.15
7	0.45	0.45	0.40	0.75	0.75	0.60	0.60	0.60	0.55	0.55	0.15	0.15	0.15	0.15	0.15	0.15
8	0.45	0.45	0.40	0.75	0.75	0.65	0.65	0.65	0.55	0.55	0.15	0.15	0.15	0.15	0.15	0.15
9	0.45	0.45	0.45	0.75	0.75	0.65	0.65	0.65	0.60	0.60	0.15	0.15	0.15	0.15	0.15	0.15
10	0.45	0.45	0.45	0.75	0.75	0.65	0.65	0.65	0.60	0.60	0.15	0.15	0.15	0.15	0.15	0.15
11	0.45	0.45	0.45	0.75	0.75	0.65	0.65	0.65	0.60	0.60	0.15	0.15	0.15	0.15	0.15	0.15
12	0.45	0.45	0.45	0.75	0.75	0.70	0.70	0.70	0.60	0.60	0.15	0.15	0.15	0.15	0.15	0.15
13	0.45	0.45	0.45	0.85	0.85	0.70	0.70	0.70	0.65	0.65	0.15	0.15	0.15	0.15	0.15	0.15
14	0.55	0.55	0.45	0.85	0.85	0.70	0.70	0.70	0.65	0.65	0.15	0.15	0.15	0.15	0.15	0.15
15	0.55	0.55	0.50	0.85	0.85	0.70	0.70	0.70	0.70	0.70	0.15	0.15	0.15	0.15	0.15	0.15
16	0.60	0.60	0.50	0.85	0.85	0.80	0.80	0.80	0.70	0.70	0.15	0.15	0.15	0.15	0.15	0.15
17	0.60	0.60	0.55	0.85	0.85	0.80	0.80	0.80	0.70	0.70	0.15	0.15	0.15	0.15	0.15	0.15
18	0.60	0.60	0.55	0.85	0.85	0.85	0.85	0.85	0.70	0.70	0.35	0.35	0.35	0.35	0.35	0.35
19	0.60	0.60	0.60	0.85	0.85	0.85	0.85	0.85	0.70	0.70	0.35	0.35	0.35	0.35	0.35	0.35
20	0.60	0.60	0.60	0.90	0.90	0.90	0.90	0.90	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
21	0.60	0.60	0.60	0.90	0.90	0.90	0.90	0.90	0.80	0.80	1.00	1.00	1.00	1.00	1.00	1.00
22	0.60	0.60	0.60	0.90	0.90	0.90	0.90	0.90	0.80	0.80	1.00	1.00	1.00	1.00	1.00	1.00
23	0.60	0.60	0.60	0.90	0.90	0.90	0.90	0.90	0.80	0.80	1.00	1.00	1.00	1.00	1.00	1.00
24	0.60	0.60	0.60	0.90	0.90	0.90	0.90	0.90	0.80	0.80	1.00	1.00	1.00	1.00	1.00	1.00

For TRS & SERS, service is as of the beginning of the year, and exit is assumed to occur at the end of the year

**Probability of Vesting upon Termination**

(for those not eligible to early retire - Continued)

Service Years	PERS				TRS				SERS		LEOFF		WSP
	Plan 1		Plan 2		Plan 1		Plan 2		Plan 2		Plan 2		
	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	Male & Female	
25	0.65	0.65	0.65	0.90	0.90	0.90	0.80	1.00	1.00	1.00	1.00	1.00	
26	0.65	0.65	0.65	0.95	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00	
27	0.75	0.75	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
28	0.75	0.75	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
29	0.75	0.75	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
31	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
32	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
35	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
37	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
40	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
41	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
42	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
43	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
44	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
45	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
46	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
47	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
48	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
49	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

For TRS & SERS, service is as of the beginning of the year, and exit is assumed to occur at the end of the year

Step Salary Increases

Service Years	PERS - All Plans		TRS - All Plans		SERS - All Plans		LEOFF - All Plans		WSP - All Plans	
	% Increase	Salary Ratio	% Increase	Salary Ratio	% Increase	Salary Ratio	% Increase	Salary Ratio	% Increase	Salary Ratio
1	6.10%	1.275	6.20%	1.476	7.00%	1.280	11.70%	1.810	6.00%	1.678
2	4.80%	1.201	4.40%	1.390	3.90%	1.196	8.10%	1.621	6.00%	1.583
3	3.80%	1.146	4.20%	1.331	2.80%	1.151	6.60%	1.499	6.00%	1.493
4	2.90%	1.104	3.50%	1.278	2.30%	1.120	4.50%	1.406	6.00%	1.409
5	2.10%	1.073	3.10%	1.235	2.20%	1.095	3.20%	1.346	6.00%	1.329
6	1.30%	1.051	2.70%	1.197	1.50%	1.071	2.50%	1.304	6.00%	1.254
7	1.00%	1.038	2.60%	1.166	1.20%	1.055	2.20%	1.272	1.30%	1.183
8	0.80%	1.027	2.30%	1.136	1.00%	1.043	2.00%	1.245	1.30%	1.168
9	0.60%	1.019	2.10%	1.111	0.80%	1.032	2.00%	1.221	1.30%	1.153
10	0.40%	1.013	1.90%	1.088	0.70%	1.024	2.00%	1.197	1.30%	1.138
11	0.30%	1.009	1.70%	1.068	0.70%	1.017	1.90%	1.173	1.30%	1.123
12	0.20%	1.006	1.60%	1.050	0.30%	1.010	1.80%	1.151	1.30%	1.109
13	0.10%	1.004	1.40%	1.033	0.30%	1.007	1.70%	1.131	1.30%	1.095
14	0.10%	1.003	0.90%	1.019	0.20%	1.004	1.60%	1.112	1.30%	1.081
15	0.10%	1.002	0.80%	1.010	0.10%	1.002	1.60%	1.095	1.30%	1.067
16	0.10%	1.001	0.20%	1.002	0.10%	1.001	1.60%	1.077	1.30%	1.053
17	0.00%	1.000	0.00%	1.000	0.00%	1.000	1.60%	1.060	1.30%	1.040
18	0.00%	1.000	0.00%	1.000	0.00%	1.000	1.60%	1.044	1.30%	1.026
19	0.00%	1.000	0.00%	1.000	0.00%	1.000	1.40%	1.027	1.30%	1.013
20	0.00%	1.000	0.00%	1.000	0.00%	1.000	1.30%	1.013	0.00%	1.000
21+	0.00%	1.000	0.00%	1.000	0.00%	1.000	0.00%	1.000	0.00%	1.000

**Ratio of Survivors Selecting Annuities\***

Age	PERS 1		PERS 2		PERS 3		TRS 1		TRS 2		TRS 3		SERS 2		SERS 3		LEOFF 1		LEOFF 2		WSP 1		WSP 2	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Both	Both	Both	Both	Both	Both
20	0.00	0.00	0.00	0.00	0.20	0.35	0.00	0.00	0.00	0.00	0.20	0.35	0.00	0.00	0.20	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.20	0.35	0.00	0.00	0.00	0.00	0.20	0.35	0.00	0.00	0.20	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.20	0.35	0.00	0.00	0.00	0.00	0.20	0.35	0.00	0.00	0.20	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.20	0.35	0.00	0.00	0.00	0.00	0.20	0.35	0.00	0.00	0.20	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.20	0.35	0.00	0.00	0.00	0.00	0.20	0.35	0.00	0.00	0.20	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.48	0.63	0.00	0.00	0.00	0.00	0.48	0.63	0.00	0.00	0.48	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.48	0.63	0.00	0.00	0.00	0.00	0.48	0.63	0.00	0.00	0.48	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.48	0.63	0.00	0.00	0.00	0.00	0.48	0.63	0.00	0.00	0.48	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.48	0.63	0.00	0.00	0.00	0.00	0.48	0.63	0.00	0.00	0.48	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.48	0.63	0.00	0.00	0.00	0.00	0.48	0.63	0.00	0.00	0.48	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.64	0.73	0.00	0.00	0.00	0.00	0.64	0.73	0.00	0.00	0.64	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.64	0.73	0.00	0.00	0.00	0.00	0.64	0.73	0.00	0.00	0.64	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00	0.64	0.73	0.00	0.00	0.00	0.00	0.64	0.73	0.00	0.00	0.64	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00	0.64	0.73	0.00	0.00	0.00	0.00	0.64	0.73	0.00	0.00	0.64	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00	0.64	0.73	0.00	0.00	0.00	0.00	0.64	0.73	0.00	0.00	0.64	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.72	0.75	0.00	0.00	0.00	0.00	0.72	0.75	0.00	0.00	0.72	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00	0.72	0.75	0.00	0.00	0.00	0.00	0.72	0.75	0.00	0.00	0.72	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	0.00	0.00	0.00	0.00	0.72	0.75	0.00	0.00	0.00	0.00	0.72	0.75	0.00	0.00	0.72	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	0.00	0.00	0.00	0.00	0.72	0.75	0.00	0.00	0.00	0.00	0.72	0.75	0.00	0.00	0.72	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	0.00	0.00	0.00	0.00	0.72	0.75	0.00	0.00	0.00	0.00	0.72	0.75	0.00	0.00	0.72	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	0.45	0.10	0.05	0.00	0.77	0.76	0.65	0.55	0.00	0.00	0.77	0.76	0.65	0.55	0.05	0.00	0.77	0.76	0.60	0.60	0.60	0.60	0.60	0.60
41	0.45	0.10	0.05	0.00	0.77	0.76	0.65	0.55	0.00	0.00	0.77	0.76	0.65	0.55	0.05	0.00	0.77	0.76	0.60	0.60	0.60	0.60	0.60	0.60
42	0.45	0.10	0.05	0.00	0.77	0.76	0.65	0.55	0.00	0.00	0.77	0.76	0.65	0.55	0.05	0.00	0.77	0.76	0.60	0.60	0.60	0.60	0.60	0.60
43	0.45	0.10	0.05	0.00	0.77	0.76	0.65	0.55	0.00	0.00	0.77	0.76	0.65	0.55	0.05	0.00	0.77	0.76	0.60	0.60	0.60	0.60	0.60	0.60
44	0.45	0.10	0.05	0.00	0.77	0.76	0.65	0.55	0.00	0.00	0.77	0.76	0.65	0.55	0.05	0.00	0.77	0.76	0.60	0.60	0.60	0.60	0.60	0.60
45	0.55	0.40	0.05	0.00	0.79	0.76	0.65	0.55	0.00	0.00	0.79	0.76	0.65	0.55	0.05	0.00	0.79	0.76	0.60	0.60	0.60	0.60	0.60	0.60
46	0.55	0.40	0.05	0.00	0.79	0.76	0.65	0.55	0.00	0.00	0.79	0.76	0.65	0.55	0.05	0.00	0.79	0.76	0.60	0.60	0.60	0.60	0.60	0.60
47	0.55	0.40	0.05	0.00	0.79	0.76	0.65	0.55	0.00	0.00	0.79	0.76	0.65	0.55	0.05	0.00	0.79	0.76	0.60	0.60	0.60	0.60	0.60	0.60
48	0.55	0.40	0.05	0.00	0.79	0.76	0.65	0.55	0.00	0.00	0.79	0.76	0.65	0.55	0.05	0.00	0.79	0.76	0.60	0.60	0.60	0.60	0.60	0.60
49	0.55	0.40	0.05	0.00	0.79	0.76	0.65	0.55	0.00	0.00	0.79	0.76	0.65	0.55	0.05	0.00	0.79	0.76	0.60	0.60	0.60	0.60	0.60	0.60
50	0.65	0.45	0.20	0.10	0.80	0.76	0.65	0.45	0.00	0.15	0.80	0.76	0.65	0.45	0.20	0.10	0.80	0.76	0.60	0.60	0.60	0.60	0.60	0.60

\*Refers to survivor who selects annuity payments (rather than a lump sum payment) upon active or terminated vested member's death.



Ratio of Survivors Selecting Annuities\*

(Continued)

Age	PERS 1		PERS 2		PERS 3		TRS 1		TRS 2		TRS 3		SERS 2		SERS 3		LEOFF 1		LEOFF 2		WSP 1		WSP 2	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Both	Both	Both	Both	Both	Both
51	0.65	0.45	0.20	0.10	0.80	0.76	0.65	0.45	0.00	0.15	0.80	0.76	0.20	0.10	0.80	0.76	0.60	0.25	0.60	0.25	0.60	0.60	0.60	0.60
52	0.65	0.45	0.20	0.10	0.80	0.76	0.65	0.45	0.00	0.15	0.80	0.76	0.20	0.10	0.80	0.76	0.60	0.25	0.60	0.25	0.60	0.60	0.60	0.60
53	0.65	0.45	0.20	0.10	0.80	0.76	0.65	0.45	0.00	0.15	0.80	0.76	0.20	0.10	0.80	0.76	0.60	0.25	0.60	0.25	0.60	0.60	0.60	0.60
54	0.65	0.45	0.20	0.10	0.80	0.76	0.65	0.45	0.00	0.15	0.80	0.76	0.20	0.10	0.80	0.76	0.60	0.25	0.60	0.25	0.60	0.60	0.60	0.60
55	0.70	0.45	0.40	0.20	0.81	0.72	0.65	0.45	0.50	0.40	0.81	0.72	0.40	0.20	0.81	0.72	0.60	0.25	0.60	0.25	0.60	0.60	0.60	0.60
56	0.70	0.45	0.40	0.20	0.81	0.72	0.65	0.45	0.50	0.40	0.81	0.72	0.40	0.20	0.81	0.72	0.60	0.25	0.60	0.25	0.60	0.60	0.60	0.60
57	0.70	0.45	0.40	0.20	0.81	0.72	0.65	0.45	0.50	0.40	0.81	0.72	0.40	0.20	0.81	0.72	0.60	0.25	0.60	0.25	0.60	0.60	0.60	0.60
58	0.70	0.45	0.40	0.20	0.81	0.72	0.65	0.45	0.50	0.40	0.81	0.72	0.40	0.20	0.81	0.72	0.60	0.25	0.60	0.25	0.60	0.60	0.60	0.60
59	0.70	0.45	0.40	0.20	0.81	0.72	0.65	0.45	0.50	0.40	0.81	0.72	0.40	0.20	0.81	0.72	0.60	0.25	0.60	0.25	0.60	0.60	0.60	0.60
60	0.70	0.45	0.65	0.20	0.81	0.67	0.75	0.35	0.75	0.50	0.81	0.67	0.65	0.20	0.81	0.67	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
61	0.70	0.45	0.65	0.20	0.81	0.67	0.75	0.35	0.75	0.50	0.81	0.67	0.65	0.20	0.81	0.67	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
62	0.70	0.45	0.65	0.20	0.81	0.67	0.75	0.35	0.75	0.50	0.81	0.67	0.65	0.20	0.81	0.67	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
63	0.70	0.45	0.65	0.20	0.81	0.67	0.75	0.35	0.75	0.50	0.81	0.67	0.65	0.20	0.81	0.67	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
64	0.70	0.45	0.65	0.20	0.81	0.67	0.75	0.35	0.75	0.50	0.81	0.67	0.65	0.20	0.81	0.67	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
65	0.70	0.45	0.65	0.20	0.79	0.58	0.75	0.35	0.75	0.67	0.79	0.58	0.65	0.20	0.79	0.58	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
66	0.70	0.45	0.65	0.20	0.79	0.58	0.75	0.35	0.75	0.67	0.79	0.58	0.65	0.20	0.79	0.58	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
67	0.70	0.45	0.65	0.20	0.79	0.58	0.75	0.35	0.75	0.67	0.79	0.58	0.65	0.20	0.79	0.58	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
68	0.70	0.45	0.65	0.20	0.79	0.58	0.75	0.35	0.75	0.67	0.79	0.58	0.65	0.20	0.79	0.58	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
69	0.70	0.45	0.65	0.20	0.79	0.58	0.75	0.35	0.75	0.67	0.79	0.58	0.65	0.20	0.79	0.58	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
70	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
71	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
72	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
73	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
74	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
75	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
76	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
77	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
78	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
79	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60
80	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	0.60

\*Refers to survivor who selects annuity payments (rather than a lump sum payment) upon active or terminated vested member's death.

**Ratio of Survivors Selecting Annuities\***

(Continued)

Age	PERS 1		PERS 2		PERS 3		TRS 1		TRS 2		TRS 3		SERS 2		SERS 3		LEOFF 1		LEOFF 2		WSP 1		WSP 2	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Both	Both	Both	Both	Both	Both
81	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
82	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
83	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
84	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
85	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
86	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
87	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
88	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
89	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
90	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
91	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
92	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
93	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
94	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
95	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
96	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
97	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
98	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	
99	0.70	0.45	0.65	0.20	0.77	0.47	0.75	0.35	0.75	0.67	0.77	0.47	0.65	0.20	0.77	0.47	0.60	0.50	0.60	0.50	0.60	0.60	0.60	

\*Refers to survivor who selects annuity payments (rather than a lump sum payment) upon active or terminated vested member's death.

Early Retirement Reduction Factors			
Years Early	Plan 2/3, PERS 1 TrmVst	LEOFF2, PERS1, TRS1, WSP TrmVst	Plan 2/3 Subsidized 3%*
0	1.0000	1.0000	1.00
1	0.9100	0.9200	0.97
2	0.8200	0.8400	0.94
3	0.7300	0.7600	0.91
4	0.6700	0.7100	0.88
5	0.6100	0.6600	0.85
6	0.5500	0.6100	0.82
7	0.4900	0.5600	0.79
8	0.4300	0.5100	0.76
9	0.4000	0.4700	0.73
10	0.3700	0.4300	0.70
11	0.3400	0.3900	N/A
12	0.3100	0.3500	N/A
13	0.2800	0.3100	N/A
14	0.2600	0.2900	N/A
15	0.2400	0.2700	N/A
16	0.2200	0.2500	N/A
17	0.2000	0.2300	N/A
18	0.1800	0.2100	N/A
19	0.1700	0.2000	N/A
20	0.1600	0.1900	N/A
21	0.1500	0.1800	N/A
22	0.1400	0.1700	N/A
23	0.1300	0.1600	N/A
24	0.1200	0.1500	N/A

TrmVst=Terminated Vested.

\*LEOFF 2 members must be at least age 50 with 20 or more years of service to qualify.

All other plan 2/3 members must be at least 55 with 30 years of service to qualify.

Early Retirement Reduction Factors			
(Continued)			
Years Early	Plan 2/3, PERS 1 TrmVst	LEOFF2, PERS1, TRS1, WSP TrmVst	Plan 2/3 Subsidized 3%*
25	0.1100	0.1400	N/A
26	0.1000	0.1300	N/A
27	0.1000	0.1200	N/A
28	0.1000	0.1100	N/A
29	0.1000	0.1000	N/A
30	0.1000	0.1000	N/A
31	0.1000	0.1000	N/A
32	0.1000	0.1000	N/A
33	0.1000	0.1000	N/A
34	0.1000	0.1000	N/A
35	0.1000	0.1000	N/A
36	0.1000	0.1000	N/A
37	0.1000	0.1000	N/A
38	0.1000	0.1000	N/A
39	0.1000	0.1000	N/A
40	0.1000	0.1000	N/A
41	0.1000	0.1000	N/A
42	0.1000	0.1000	N/A
43	0.1000	0.1000	N/A
44	0.1000	0.1000	N/A
45	0.1000	0.1000	N/A
46	0.1000	0.1000	N/A
47	0.1000	0.1000	N/A
48	0.1000	0.1000	N/A
49	0.1000	0.1000	N/A

TrmVst=Terminated Vested.

\*LEOFF 2 members must be at least age 50 with 20 or more years of service to qualify.

All other plan 2/3 members must be at least 55 with 30 years of service to qualify.

**Portability Load**

System	Plan 1	Plan 2	Plan 3
PERS	0.2%	0.3%	0.3%
TRS	0.3%	0.1%	0.1%
SERS	N/A	0.3%	0.3%
LEOFF	N/A	0.1%	N/A
WSP	0.0%	N/A	N/A

Reflects portability provisions for each plan

**AFC Load**

System/Plan	Load
PERS 1	5.0%
TRS 1	1.0%
WSP	7.5%

Reflects allowances for cashouts of annual and sick leave for calculation of Average Final Compensation

**Certain and Life Annuities: Years Certain**

System	Plan 1	Plan 2
PERS	3	3
TRS	11*	4
SERS	N/A	3
LEOFF	N/A	5

\*Only disabled members get this without a reduction in their benefit

The certain period applies to only the "annuity" portion of the benefit, typically 30% of the total benefit

**Military Service**

	Percent with Military Service	Average Military Service Months	Overall Average Additional Service Years
<b>PERS 1*</b>			
Males	48%	37	1.48
Females	1%	35	0.03
<b>WSP**</b>	43%	32	1.15

Members with 25 years of service may receive up to 5 years of military service credit

\*Members of PERS Plan 1 may use certain prior military service as well as interruptive military service

\*\*Members of WSP Plan 1 may use all prior military service as well as interruptive military service

Members of WSP Plan 2 (those commissioned on or after January 1, 2003) may use only interruptive military service

**Member/Beneficiary Age Difference (In Years)**

System	Male Member	Female Member
PERS	3	(2)
TRS	3	(2)
SERS	3	(2)
LEOFF	4	(4)
WSP	3	(2)

Age difference is Member age minus Beneficiary age

**Duty-Related Death Assumption**

System	Duty Death Rate*
PERS	0.0026%
TRS	0.0008%
SERS	0.0026%
LEOFF	8.00%
WSP	20.00%

\*PERS, TRS and SERS duty death rate is a constant probability applied, regardless of age. Nonduty death rate is obtained by subtracting duty death rate from the total mortality rate at a given age. For LEOFF and WSP, duty death rates are an assumed fixed percentage of the total mortality rate at a given age.

## Summary of Plan Provisions

Summary of Plan Provisions - PERS			
	Plan 1	Plan 2	Plan 3
Effective Date of Plan	10/1/47	10/1/77	3/1/02
Date Closed to New Entrants	9/30/77	Open	Open
Statutory Reference	Chapter 41.40 RCW	Chapter 41.40 RCW	Chapter 41.40 RCW
Normal Retirement Eligibility (age/service)	60/5, 55/25, Any Age/30	65/5	65/10 or vested
Accrued Benefit Formula	2% x YOS x AFC; Maximum 60% AFC	2% x YOS x AFC	1% x YOS x AFC; 0.25% per month pre-retirement COLA with 20 years of service
Computation of AFC	Annual average of the greatest compensation earnable during a 24 consecutive month period	Average compensation earnable for the highest 60 consecutive months	Average compensation earnable for the highest 60 consecutive months
Credited Service	Monthly, based on hours worked each month (school yr. for edu. emplys.)	Monthly, based on hours worked each month (school yr. for edu. emplys.)	Monthly, based on hours worked each month (school yr. for edu. emplys.)
Vesting	5 years	5 years	10 years (5 under select circumstances)
Vested Benefits Upon Termination	Refund of employee contributions plus interest, or deferred retirement allowance	Refund of employee contributions plus interest, or deferred retirement allowance	Refund of employee contributions plus interest, or deferred retirement allowance
Early Retirement Eligibility (age/service)	n/a	55/20	55/10
Early Retirement Reduction Factors	n/a	3% ERF with 30 YOS, otherwise actuarial	3% ERF with 30 YOS, otherwise actuarial
Disability Retirement Benefit	Non-duty: reduced accrued benefit; Duty: temporary annuity plus deferred retirement allowance	Accrued benefit, actuarially reduced	Accrued benefit, actuarially reduced
COLA	\$1.21 per month/YOS*** on 7/1/04	Lesser of CPI* or 3%	Lesser of CPI* or 3%
Minimum Benefit per Month / YOS	\$32.97*** on 7/1/04	n/a	n/a
Gain-Sharing Benefit Provisions **	Chapter 41.31 RCW; An additional increase in the COLA amount	n/a	Chapter 41.31A RCW; Cash transfer to the defined contribution account
Changes in Plan Provisions Since Last Valuation	\$1,000 minimum benefit (C 85 L 04)	None	None
Benefits not Included in This Valuation	Post-retirement employment	Creation of PSERS (C 242 L 04, Effective 7/1/2006)	Creation of PSERS (C 242 L 04, Effective 7/1/2006)

\*CPI: Urban Wage Earners & Clerical Workers, Seattle-Tacoma-Bremerton, WA - All Items

\*\*Gain-sharing is calculated every odd year; based on half the 4 year compound average annual return in excess of 10%

\*\*\*COLA increases by 3% annually; Minimum increases by amount of COLA annually

## Summary of Plan Provisions - TRS

Continued

	Plan 1	Plan 2	Plan 3
Effective Date of Plan	3/1/38	10/1/77	7/1/96
Date Closed to New Entrants	9/30/77	6/30/96	Open
Statutory Reference	Chapter 41.32 RCW	Chapter 41.32 RCW	Chapter 41.32 RCW
Normal Retirement Eligibility (age/service)	60/5, 55/25, Any Age/30	65/5	65/10 or vested
Accrued Benefit Formula	2% x YOS x AFC; Maximum 60% AFC	2% x YOS x AFC	1% x YOS x AFC; 0.25% per month pre-retirement COLA with 20 years of service
Computation of AFC	Annual average earnable compensation for the two highest consecutive service credit years	Average compensation earnable for the highest 60 consecutive months	Average compensation earnable for the highest 60 consecutive months
Credited Service	Yearly, based on days worked each year	Monthly, based on number of months and hours worked during school year	Monthly, based on number of months and hours worked during school year
Vesting	5 years	5 years	10 years (5 under select circumstances)
Vested Benefits Upon Termination	Refund of employee contributions plus interest, or deferred retirement allowance	Refund of employee contributions plus interest, or deferred retirement allowance	Refund of employee contributions plus interest, or deferred retirement allowance
Early Retirement Eligibility (age/service)	n/a	55/20	55/10
Early Retirement Reduction Factors	n/a	3% ERF with 30 YOS, otherwise actuarial	3% ERF with 30 YOS, otherwise actuarial
Disability Retirement Benefit	Accrued benefit, actuarially reduced	Accrued benefit, actuarially reduced	Accrued benefit, actuarially reduced
COLA	\$1.21 per month/YOS*** on 7/1/04	Lesser of CPI* or 3%	Lesser of CPI* or 3%
Minimum Benefit per Month / YOS	\$32.97*** on 7/1/04	n/a	n/a
Gain-Sharing Benefit Provisions **	Chapter 41.31 RCW; An additional increase in the COLA amount	n/a	Chapter 41.31A RCW; Cash transfer to the defined contribution account
Changes in Plan Provisions Since Last Valuation	\$1,000 minimum benefit (C85 L 04)	None	None
Benefits not Included in This Valuation	Post-retirement employment	None	None

\*CPI: Urban Wage Earners &amp; Clerical Workers, Seattle-Tacoma-Bremerton, WA - All Items

\*\*Gain-sharing is calculated every odd year; based on half the 4 year compound average annual return in excess of 10%

\*\*\*COLA increases by 3% annually; Minimum increases by amount of COLA annually



### Summary of Plan Provisions - SERS

*Continued*

	Plan 2	Plan 3
Effective Date of Plan	9/1/00	9/1/00
Date Closed to New Entrants	9/1/00	Open
Statutory Reference	Chapter 41.35 RCW	Chapter 41.35 RCW
Normal Retirement Eligibility (age/service)	65/5	65/10 or vested
Accrued Benefit Formula	2% x YOS x AFC	1% x YOS x AFC; 0.25% per month pre-retirement COLA with 20 years of service
Computation of AFC	Average compensation earnable for the highest 60 consecutive months	Average compensation earnable for the highest 60 consecutive months
Credited Service	Monthly, based on number of months and hours worked during school year	Monthly, based on number of months and hours worked during school year
Vesting	5 years	10 years (5 under select circumstances)
Vested Benefits Upon Termination	Refund of employee contributions plus interest, or deferred retirement allowance	Refund of employee contributions plus interest, or deferred retirement allowance
Early Retirement Eligibility (age/service)	55/20	55/10
Early Retirement Reduction Factors	3% ERF with 30 YOS, otherwise actuarial	3% ERF with 30 YOS, otherwise actuarial
Disability Retirement Benefit	Accrued benefit, actuarially reduced	Accrued benefit, actuarially reduced
COLA	Lesser of CPI* or 3%	Lesser of CPI* or 3%
Minimum Benefit per Month / YOS	n/a	n/a
Gain-Sharing Benefit Provisions **	n/a	Chapter 41.31A RCW; Cash transfer to the defined contribution account
Changes in Plan Provisions Since Last Valuation	None	None
Benefits not Included in This Valuation	None	None

\*CPI: Urban Wage Earners & Clerical Workers, Seattle-Tacoma-Bremerton, WA - All Items

\*\*Gain-sharing is calculated every odd year; based on half the 4 year compound average annual return in excess of 10%

### Summary of Plan Provisions - LEOFF

*Continued*

	Plan 1	Plan 2
<b>Effective Date of Plan</b>	3/1/70	10/1/77
<b>Date Closed to New Entrants</b>	9/30/77	Open
<b>Statutory Reference</b>	Chapter 41.26 RCW	Chapter 41.26 RCW
<b>Normal Retirement Eligibility (age/service)</b>	50/5	53/5
<b>Accrued Benefit Formula</b>	accrual % (1%, 1.5%, 2%) x YOS (5, 10, 20) x FAS; Maximum 60% FAS	2% x YOS x AFC; 0.25% per month pre-retirement COLA with 20 years of service
<b>Computation of FAS/AFC</b>	The basic salary attached to the position or rank at retirement if held for at least 12 months	Average compensation earnable for the highest 60 consecutive months
<b>Credited Service</b>	Monthly, based on hours worked each month	Monthly, based on hours worked each month
<b>Vesting</b>	5 years	5 years
<b>Vested Benefits Upon Termination</b>	Refund of employee contributions plus interest, or deferred retirement allowance	Refund of employee contributions (x 150% if 10 YOS) plus interest, or deferred retirement allowance
<b>Early Retirement Eligibility (age/service)</b>	n/a	50/20
<b>Early Retirement Reduction Factors</b>	n/a	3% ERF with 20 YOS
<b>Disability Retirement Benefit</b>	50% FAS, (max 60% if children)	Accrued benefit, actuarially reduced (minimum of 10% of AFC) if duty-related
<b>COLA</b>	Full CPI*	Lesser of CPI* or 3%
<b>Minimum Benefit per Month / YOS</b>	n/a	n/a
<b>Gain-Sharing Benefit Provisions</b>	n/a	n/a
<b>Changes in Plan Provisions Since Last Valuation</b>	None	Full line-of-duty death survivor benefit (C 5 L 04); Duty disability benefit minimum (C 4 L 04)
<b>Benefits not Included in This Valuation</b>	None	None

\*CPI: Urban Wage Earners & Clerical Workers, Seattle-Tacoma-Bremerton, WA - All Items

### Summary of Plan Provisions - WSP

*Continued*

	Plan 1	Plan 2
<b>Effective Date of Plan</b>	6/12/47	1/1/03
<b>Date Closed to New Entrants</b>	12/31/02	Open
<b>Statutory Reference</b>	Chapter 43.43 RCW	Chapter 43.43 RCW
<b>Normal Retirement Eligibility (age/service)</b>	Age 55, Any Age/25, Mandatory at 60	Age 55, Any Age/25, Mandatory at 60
<b>Accrued Benefit Formula</b>	2% x YOS x AFC; Maximum 75% AFC	2% x YOS x AFC; Maximum 75% AFC
<b>Computation of AFS</b>	Average monthly salary of the highest two consecutive years	Average monthly salary of the highest 60 consecutive months
<b>Credited Service</b>	Monthly, based on hours worked each month	Monthly, based on hours worked each month
<b>Vesting</b>	5 years	5 years
<b>Vested Benefits Upon Termination</b>	Refund of employee contributions plus interest, or deferred retirement allowance	Refund of employee contributions plus interest, or deferred retirement allowance
<b>Early Retirement Eligibility (age/service)</b>	n/a	n/a
<b>Early Retirement Reduction Factors</b>	n/a	n/a
<b>Disability Retirement Benefit</b>	50% comp with offsets, paid from WSP operational funds	50% comp with offsets, paid from WSP operational funds
<b>COLA</b>	Lesser of CPI* or 3%	Lesser of CPI* or 3%
<b>Minimum Benefit per Month/YOS**</b>	\$23.74 on 1/1/04	\$23.74 on 1/1/04
<b>Gain-Sharing Benefit Provisions</b>	n/a	n/a
<b>Changes in Plan Provisions Since Last Valuation</b>	None	Full line-of-duty death survivor benefit (C 170 L 04)
<b>Benefits not Included in This Valuation</b>	None	None

\*CPI: Urban Wage Earners & Clerical Workers, Seattle-Tacoma-Bremerton, WA - All Items

\*\*Amount increases by 3% annually

# Age/Service Distributions

**Age and Service Distribution of Active Members**  
 (Number of Actives and Average Salary)

PERS Plan 1: Attained Age	Attained Years of Service											Total				
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34		35-39	40 & Over		
Under 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
25-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
30-34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
35-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
40-44	1	1	0	3	0	2	1	5	3	11	0	0	0	0	0	\$27
45-49	*	*	\$0	\$31,409	\$0	\$49,933	*	\$44,732	\$52,757	\$53,433	\$0	\$0	\$0	\$0	\$0	\$47,211
50-54	26	32	37	36	43	228	262	279	286	1,063	63	0	0	0	0	\$2,355
55-59	\$30,718	\$29,818	\$36,135	\$32,378	\$31,453	\$34,192	\$37,023	\$40,761	\$48,131	\$51,682	\$57,232	\$0	\$0	\$0	\$0	\$45,344
60-64	49	88	93	108	115	536	731	876	879	2,842	826	11	0	0	0	\$7,154
65-69	\$34,286	\$32,682	\$36,113	\$31,856	\$36,636	\$36,851	\$40,598	\$45,011	\$49,617	\$55,311	\$55,124	\$63,913	\$0	\$0	\$0	\$49,129
70 & Over	63	89	92	92	79	423	636	893	897	1,932	1,019	166	5	5	5	\$6,386
	\$38,365	\$36,352	\$34,315	\$36,858	\$35,136	\$40,364	\$41,773	\$45,853	\$50,217	\$52,834	\$55,433	\$57,090	\$55,786	\$55,786	\$55,786	\$49,002
	19	35	20	47	35	200	251	405	377	876	500	184	25	25	25	\$2,974
	\$30,398	\$33,227	\$31,738	\$35,338	\$40,926	\$40,566	\$43,745	\$43,462	\$46,482	\$45,674	\$52,348	\$56,506	\$50,203	\$50,203	\$50,203	\$46,242
	0	12	12	10	8	55	55	72	75	182	107	41	15	15	15	\$644
	\$0	\$27,739	\$27,315	\$36,796	\$39,868	\$40,017	\$38,632	\$45,342	\$41,415	\$41,384	\$47,133	\$51,977	\$50,942	\$50,942	\$50,942	\$42,724
	2	2	5	6	4	17	19	12	11	44	43	24	11	11	11	\$200
	\$26,500	\$20,000	\$20,575	\$37,542	\$21,888	\$29,567	\$30,934	\$33,804	\$46,463	\$41,389	\$39,874	\$43,344	\$44,590	\$44,590	\$44,590	\$37,911
<b>Total</b>	<b>160</b>	<b>259</b>	<b>259</b>	<b>302</b>	<b>284</b>	<b>1,461</b>	<b>1,955</b>	<b>2,542</b>	<b>2,528</b>	<b>6,950</b>	<b>2,558</b>	<b>426</b>	<b>56</b>	<b>56</b>	<b>56</b>	<b>\$19,740</b>
	<b>\$34,745</b>	<b>\$33,287</b>	<b>\$34,432</b>	<b>\$34,256</b>	<b>\$35,846</b>	<b>\$38,014</b>	<b>\$40,765</b>	<b>\$44,550</b>	<b>\$48,941</b>	<b>\$52,397</b>	<b>\$54,166</b>	<b>\$55,748</b>	<b>\$49,797</b>	<b>\$49,797</b>	<b>\$49,797</b>	<b>\$47,876</b>

<b>Average:</b>	Age	55.2	Number of Participants:	Vested	18,355	Males	8,572	Early Retirement Eligible:	N/A
	Service	21.4		Not Vested	1,385	Females	11,168	Normal Retirement Eligible:	7,623

\*Annual Salary omitted for privacy reasons  
 Numbers of participants eligible for early and normal retirement are estimates only.

**Age and Service Distribution of Active Members**  
(Number of Actives and Average Salary)

(Continued)

PERS Plan 2: Attained Age	Attained Years of Service											Total			
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34		35-39	40 & Over	
Under 25	847	953	639	336	136	71	0	0	0	0	0	0	0	0	2,982
	\$27,014	\$25,526	\$27,356	\$30,378	\$32,877	\$34,451	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27,435
25-29	775	1,463	1,737	1,430	1,043	1,477	14	0	0	0	0	0	0	0	7,939
	\$30,840	\$31,856	\$34,385	\$35,820	\$37,447	\$38,938	\$42,340	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35,095
30-34	703	1,310	1,623	1,580	1,382	4,258	1,055	23	0	0	0	0	0	0	11,934
	\$31,617	\$33,469	\$37,498	\$38,223	\$39,776	\$43,293	\$44,605	\$45,795	\$0	\$0	\$0	\$0	\$0	\$0	\$39,781
35-39	605	1,130	1,389	1,374	1,234	4,419	3,128	812	24	0	0	0	0	0	14,115
	\$33,192	\$35,623	\$37,133	\$40,006	\$41,719	\$44,614	\$48,003	\$46,586	\$42,877	\$0	\$0	\$0	\$0	\$0	\$42,828
40-44	570	1,148	1,437	1,379	1,267	4,616	4,142	2,649	985	52	0	0	0	0	18,245
	\$32,183	\$35,755	\$37,411	\$38,819	\$40,660	\$44,533	\$49,325	\$51,566	\$49,442	\$47,294	\$0	\$0	\$0	\$0	\$44,715
45-49	530	1,041	1,295	1,364	1,235	4,830	4,631	3,550	2,428	495	0	0	0	0	21,399
	\$33,434	\$35,697	\$38,845	\$40,043	\$41,709	\$44,328	\$49,019	\$52,402	\$54,542	\$54,211	\$0	\$0	\$0	\$0	\$46,625
50-54	374	750	997	1,063	963	3,892	4,347	3,353	2,477	671	0	0	0	0	18,887
	\$33,420	\$37,476	\$38,612	\$41,423	\$41,467	\$44,882	\$48,669	\$51,660	\$54,906	\$55,748	\$0	\$0	\$0	\$0	\$47,436
55-59	240	513	537	603	636	2,468	3,063	2,667	1,943	506	4	0	0	0	13,180
	\$34,189	\$35,650	\$40,534	\$39,676	\$40,306	\$44,285	\$47,649	\$49,796	\$52,443	\$57,150	\$101,936	\$0	\$0	\$0	\$46,820
60-64	80	189	242	260	254	1,125	1,567	1,435	1,163	271	2	0	0	0	6,588
	\$33,834	\$36,065	\$35,125	\$39,595	\$38,852	\$43,170	\$45,865	\$46,300	\$49,244	\$51,379	\$45,141	\$0	\$0	\$0	\$44,983
65-69	37	60	65	55	79	285	389	316	224	62	0	0	0	0	1,572
	\$26,619	\$28,718	\$36,564	\$36,095	\$34,710	\$38,266	\$43,646	\$45,424	\$47,245	\$46,770	\$0	\$0	\$0	\$0	\$41,688
70 & Over	21	41	21	26	25	94	83	68	30	12	0	0	0	0	421
	\$27,346	\$29,206	\$22,838	\$30,022	\$26,711	\$31,623	\$37,352	\$40,153	\$45,081	\$42,147	\$0	\$0	\$0	\$0	\$34,112
<b>Total</b>	<b>4,782</b>	<b>8,598</b>	<b>9,982</b>	<b>9,470</b>	<b>8,254</b>	<b>27,535</b>	<b>22,419</b>	<b>14,873</b>	<b>9,274</b>	<b>2,069</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>117,262</b>
	<b>\$31,393</b>	<b>\$33,655</b>	<b>\$36,598</b>	<b>\$38,644</b>	<b>\$40,205</b>	<b>\$43,855</b>	<b>\$48,110</b>	<b>\$50,498</b>	<b>\$52,756</b>	<b>\$54,591</b>	<b>\$83,004</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$43,855</b>

Average: Age 44.6 Number of Participants: Vested 72,343 Males 56,468 Early Retirement Eligible: 3,889  
 Service 9.0 Not Vested 44,919 Females 60,794 Normal Retirement Eligible: 1,563

\*Annual Salary omitted for privacy reasons

Numbers of participants eligible for early and normal retirement are estimates only.

**Age and Service Distribution of Active Members  
(Number of Actives and Average Salary)**

(Continued)

**PERS Plan 3:**

**Attained Age**

Attained Age	Attained Years of Service													Total	
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over		
<b>Under 25</b>	477	329	33	12	9	2	0	0	0	0	0	0	0	0	862
	\$26,203	\$27,280	\$30,772	\$34,257	\$29,780	\$22,762	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,931
<b>25-29</b>	432	556	138	116	95	162	3	0	0	0	0	0	0	0	1,502
	\$28,959	\$31,846	\$37,871	\$35,839	\$40,922	\$40,452	\$40,002	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$33,396
<b>30-34</b>	296	461	128	124	150	637	208	2	0	0	0	0	0	0	2,006
	\$31,174	\$34,465	\$40,323	\$41,565	\$41,703	\$45,874	\$45,317	\$69,876	\$0	\$0	\$0	\$0	\$0	\$0	\$40,117
<b>35-39</b>	219	303	101	120	97	622	696	137	3	0	0	0	0	0	2,298
	\$31,128	\$35,326	\$41,628	\$42,807	\$44,372	\$47,276	\$52,349	\$50,102	\$57,951	\$0	\$0	\$0	\$0	\$0	\$45,276
<b>40-44</b>	235	272	121	106	109	566	894	568	178	9	0	0	0	0	3,058
	\$32,458	\$35,701	\$40,611	\$44,014	\$42,665	\$47,683	\$52,613	\$54,561	\$55,193	\$55,919	\$0	\$0	\$0	\$0	\$48,041
<b>45-49</b>	201	288	89	103	93	521	825	672	416	79	0	0	0	0	3,287
	\$31,928	\$36,701	\$39,743	\$44,941	\$42,001	\$46,833	\$51,785	\$54,582	\$57,363	\$54,271	\$0	\$0	\$0	\$0	\$48,985
<b>50-54</b>	139	209	68	69	77	426	625	501	381	87	0	0	0	0	2,582
	\$34,707	\$38,971	\$45,866	\$41,991	\$45,439	\$45,259	\$50,432	\$53,970	\$56,772	\$61,052	\$0	\$0	\$0	\$0	\$49,289
<b>55-59</b>	87	90	22	31	20	232	364	319	195	48	1	0	0	0	1,409
	\$37,329	\$38,805	\$42,072	\$44,659	\$41,363	\$44,976	\$48,706	\$51,085	\$59,615	\$58,988	*	\$0	\$0	\$0	\$48,864
<b>60-64</b>	27	39	6	13	9	64	127	96	71	16	0	0	0	0	468
	\$35,229	\$35,045	\$43,111	\$39,505	\$33,483	\$43,068	\$45,223	\$46,644	\$59,965	\$66,295	\$0	\$0	\$0	\$0	\$46,340
<b>65-69</b>	9	11	1	7	3	9	6	11	3	0	0	0	0	0	60
	\$29,120	\$30,111	*	\$35,936	\$32,517	\$55,695	\$50,094	\$44,538	\$44,348	\$0	\$0	\$0	\$0	\$0	\$40,007
<b>70 &amp; Over</b>	4	1	1	0	2	3	1	0	4	0	0	0	0	0	16
	\$30,491	*	*	\$0	\$19,131	\$27,497	*	\$0	\$39,762	\$0	\$0	\$0	\$0	\$0	\$33,275
<b>Total</b>	2,126	2,559	708	701	664	3,244	3,749	2,306	1,251	239	1	0	0	0	17,548
	\$30,341	\$33,989	\$40,128	\$41,656	\$42,221	\$46,138	\$50,963	\$53,329	\$57,287	\$58,553	*	\$0	\$0	\$0	\$44,823

**Average:** Age 42.2    Number of Participants: Vested 9,771    Males 8,396    Early Retirement Eligible: 1,237  
 Service 8.5    Not Vested 7,777    Females 9,152    Normal Retirement Eligible: 25

\*Annual Salary omitted for privacy reasons

Numbers of participants eligible for early and normal retirement are estimates only.



**Age and Service Distribution of Active Members**  
(Number of Actives and Average Salary)

(Continued)

Attained Age	Attained Years of Service													Total		
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over			
<b>Under 25</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>25-29</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>30-34</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>35-39</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>40-44</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>45-49</b>	3	4	2	1	4	16	19	50	93	290	0	0	0	0	0	482
	\$38,000	\$45,884	\$50,594	*	\$36,075	\$50,538	\$55,132	\$56,287	\$60,988	\$65,413	\$0	\$0	\$0	\$0	\$0	\$62,032
<b>50-54</b>	13	17	29	21	14	138	285	418	627	2,451	554	1	0	0	0	4,568
	\$36,165	\$48,104	\$46,421	\$45,323	\$53,413	\$49,937	\$54,345	\$59,462	\$61,370	\$65,244	\$66,433	*	\$0	\$0	\$0	\$62,791
<b>55-59</b>	11	22	20	22	29	147	348	641	731	1,347	1,010	156	0	0	0	4,484
	\$40,609	\$46,829	\$44,424	\$50,376	\$47,222	\$49,703	\$55,736	\$58,920	\$62,035	\$64,012	\$65,146	\$65,031	\$0	\$0	\$0	\$61,737
<b>60-64</b>	4	5	6	10	7	76	132	232	209	312	219	185	20	20	20	1,417
	\$38,000	\$45,277	\$48,804	\$45,739	\$44,208	\$51,644	\$56,630	\$57,838	\$59,450	\$62,716	\$64,976	\$63,053	\$63,103	\$63,103	\$63,103	\$60,272
<b>65-69</b>	0	1	4	0	3	5	18	25	11	38	39	29	21	21	21	194
	\$0	\$41,338	\$0	\$0	\$50,308	\$58,973	\$49,665	\$55,877	\$60,692	\$61,305	\$63,880	\$64,328	\$62,881	\$62,881	\$62,881	\$59,909
<b>70 &amp; Over</b>	0	0	0	1	0	0	1	6	6	2	2	5	7	7	7	30
	\$0	\$0	\$0	*	\$0	\$0	\$49,725	\$58,645	\$58,645	\$58,718	\$59,036	\$60,975	\$65,410	\$65,410	\$65,410	\$58,387
<b>Total</b>	31	49	61	55	57	382	803	1,372	1,677	4,440	1,824	376	48	48	48	11,175
	\$38,156	\$47,015	\$45,804	\$47,430	\$47,752	\$50,330	\$55,240	\$58,711	\$61,385	\$64,667	\$65,483	\$63,946	\$63,342	\$63,342	\$63,342	\$61,954

Average: Age 55.4 Number of Participants: Vested 10,898 Males 3,350 Early Retirement Eligible: N/A  
 Service 23.9 Not Vested 277 Females 7,825 Normal Retirement Eligible: 4,668

\*Annual Salary omitted for privacy reasons

Numbers of participants eligible for early and normal retirement are estimates only.

**Age and Service Distribution of Active Members  
 (Number of Actives and Average Salary)**

(Continued)

TRS Plan 2: Attained Age	Attained Years of Service											Total				
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34		35-39	40 & Over		
<b>Under 25</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>25-29</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>30-34</b>	6	3	7	7	6	273	57	0	0	0	0	0	0	0	0	359
	\$38,000	\$40,359	\$41,863	\$42,104	\$46,315	\$46,266	\$47,636	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46,130
<b>35-39</b>	15	21	21	23	26	309	333	23	0	0	0	0	0	0	0	771
	\$37,779	\$41,090	\$41,776	\$42,755	\$42,681	\$47,788	\$52,492	\$58,246	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$49,268
<b>40-44</b>	22	29	37	32	33	303	382	191	25	0	0	0	0	0	0	1,054
	\$41,542	\$41,048	\$42,953	\$41,789	\$44,339	\$47,922	\$53,814	\$58,678	\$62,615	\$0	\$0	\$0	\$0	\$0	\$0	\$51,560
<b>45-49</b>	20	36	41	36	39	367	455	276	209	30	0	0	0	0	0	1,509
	\$38,256	\$42,729	\$41,247	\$43,189	\$48,709	\$48,402	\$54,667	\$59,413	\$60,869	\$62,578	\$0	\$0	\$0	\$0	\$0	\$53,733
<b>50-54</b>	10	23	20	34	33	349	630	308	209	42	0	0	0	0	0	1,658
	\$42,250	\$48,703	\$43,082	\$44,041	\$50,257	\$50,182	\$55,172	\$59,972	\$61,095	\$61,531	\$0	\$0	\$0	\$0	\$0	\$55,281
<b>55-59</b>	3	9	11	13	15	266	565	314	194	42	0	0	0	0	0	1,432
	\$52,637	\$52,640	\$54,443	\$51,138	\$48,666	\$52,131	\$56,740	\$59,547	\$64,076	\$65,158	\$0	\$0	\$0	\$0	\$0	\$57,553
<b>60-64</b>	2	2	3	7	6	105	235	202	137	31	0	0	0	0	0	730
	\$44,417	\$47,961	\$53,104	\$53,349	\$55,380	\$56,778	\$58,635	\$60,744	\$62,913	\$61,742	\$0	\$0	\$0	\$0	\$0	\$59,718
<b>65-69</b>	1	1	1	1	0	15	43	24	23	7	0	0	0	0	0	116
	*	*	*	*	\$0	\$62,767	\$56,660	\$57,569	\$63,599	\$58,032	\$0	\$0	\$0	\$0	\$0	\$59,140
<b>70 &amp; Over</b>	0	0	0	0	1	1	2	3	1	0	0	0	0	0	0	8
	\$0	\$0	\$0	\$0	*	*	\$53,908	\$57,745	*	\$0	\$0	\$0	\$0	\$0	\$0	\$55,138
<b>Total</b>	79	124	141	153	159	1,988	2,702	1,341	798	152	0	0	0	0	0	7,637
	\$40,266	\$44,095	\$43,500	\$44,256	\$47,343	\$49,299	\$55,058	\$59,612	\$62,193	\$62,622	\$0	\$0	\$0	\$0	\$0	\$54,333

<b>Average:</b>	Age	49.3	Number of Participants:	Vested	6,936	Males	1,990	Early Retirement Eligible:	404
	Service	12.1		Not Vested	701	Females	5,647	Normal Retirement Eligible:	119

\*Annual Salary omitted for privacy reasons  
 Numbers of participants eligible for early and normal retirement are estimates only.

**Age and Service Distribution of Active Members**  
(Number of Actives and Average Salary)

(Continued)

Attained Age	Attained Years of Service											Total			
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34		35-39	40 & Over	
<b>Under 25</b>	520	323	87	3	0	0	0	0	0	0	0	0	0	0	933
	\$37,937	\$33,260	\$32,710	\$32,846	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35,814
<b>25-29</b>	954	1,206	1,528	1,306	851	544	0	0	0	0	0	0	0	0	6,389
	\$38,326	\$35,347	\$35,695	\$37,124	\$39,078	\$41,329	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37,244
<b>30-34</b>	516	626	852	778	927	3,474	354	0	0	0	0	0	0	0	7,527
	\$38,472	\$37,619	\$38,492	\$39,724	\$40,749	\$45,068	\$51,199	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$42,456
<b>35-39</b>	297	358	481	407	419	1,988	2,222	231	0	0	0	0	0	0	6,403
	\$38,158	\$37,931	\$39,040	\$41,070	\$42,803	\$47,149	\$54,038	\$59,990	\$0	\$0	\$0	\$0	\$0	\$0	\$47,790
<b>40-44</b>	282	366	424	341	381	1,355	1,803	1,625	256	0	0	0	0	0	6,833
	\$38,682	\$37,659	\$39,546	\$41,353	\$42,561	\$48,408	\$55,507	\$61,324	\$64,022	\$0	\$0	\$0	\$0	\$0	\$51,733
<b>45-49</b>	264	356	400	362	390	1,411	1,643	1,326	1,510	197	0	0	0	0	7,859
	\$38,720	\$39,266	\$40,381	\$42,734	\$43,407	\$48,532	\$56,290	\$61,445	\$63,970	\$64,713	\$0	\$0	\$0	\$0	\$54,019
<b>50-54</b>	204	247	292	329	305	1,254	1,651	1,142	1,013	245	0	0	0	0	6,682
	\$39,897	\$41,786	\$43,456	\$44,481	\$44,937	\$50,340	\$57,416	\$61,553	\$63,380	\$65,465	\$0	\$0	\$0	\$0	\$55,065
<b>55-59</b>	92	133	160	157	149	645	912	768	576	113	0	0	0	0	3,705
	\$40,422	\$45,015	\$47,739	\$48,321	\$48,096	\$51,895	\$58,112	\$62,129	\$64,992	\$65,080	\$0	\$0	\$0	\$0	\$56,969
<b>60-64</b>	26	35	42	33	39	127	173	165	167	42	0	0	0	0	849
	\$40,105	\$53,223	\$50,950	\$47,613	\$50,233	\$53,689	\$59,981	\$61,741	\$64,512	\$63,909	\$0	\$0	\$0	\$0	\$58,205
<b>65-69</b>	1	5	2	5	4	15	18	8	11	3	0	0	0	0	72
	\$57,068	\$62,332	\$62,332	\$55,656	\$50,527	\$55,888	\$56,578	\$59,462	\$64,798	\$50,949	\$0	\$0	\$0	\$0	\$57,311
<b>70 &amp; Over</b>	0	0	1	1	1	5	1	1	1	0	0	0	0	0	11
	\$0	\$0	\$0	\$0	\$0	\$49,929	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$54,226
<b>Total</b>	3,156	3,655	4,269	3,722	3,466	10,818	8,777	5,266	3,534	600	0	0	0	0	47,263
	\$38,512	\$37,406	\$38,545	\$40,269	\$41,892	\$47,269	\$55,829	\$61,472	\$63,997	\$64,964	\$0	\$0	\$0	\$0	\$48,836

Average: Age 41.1 Number of Participants: Vested 18,646 Males 13,928 Early Retirement Eligible: 2,916  
 Service 8.4 Not Vested 28,617 Females 33,335 Normal Retirement Eligible: 43

\*Annual Salary omitted for privacy reasons

Numbers of participants eligible for early and normal retirement are estimates only.

**Age and Service Distribution of Active Members  
 (Number of Actives and Average Salary)**

*(Continued)*

SERS Plan 2: Attained Age	Attained Years of Service																Total	
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over					
<b>Under 25</b>	7	10	16	36	38	11	0	0	0	0	0	0	0	0	0	0	0	118
	\$18,571	\$16,233	\$23,409	\$24,952	\$22,213	\$25,771	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,820
<b>25-29</b>	19	36	39	123	138	183	3	0	0	0	0	0	0	0	0	0	0	541
	\$17,368	\$17,451	\$19,090	\$20,782	\$23,390	\$24,196	\$14,580	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,104
<b>30-34</b>	14	49	52	157	195	395	94	2	0	0	0	0	0	0	0	0	0	958
	\$18,571	\$16,964	\$19,829	\$22,065	\$24,080	\$25,730	\$25,447	\$36,969	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,916
<b>35-39</b>	43	58	121	246	350	638	239	50	6	0	0	0	0	0	0	0	0	1,751
	\$19,097	\$18,994	\$16,824	\$18,980	\$20,985	\$23,193	\$27,867	\$32,375	\$31,424	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,408
<b>40-44</b>	35	103	181	435	622	1,500	541	162	53	3	0	0	0	0	0	0	0	3,635
	\$18,857	\$16,193	\$16,780	\$17,874	\$20,391	\$21,534	\$25,482	\$30,514	\$37,292	\$39,150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,719
<b>45-49</b>	42	108	189	414	624	1,956	1,150	299	108	29	0	0	0	0	0	0	0	4,919
	\$19,048	\$16,476	\$17,073	\$17,870	\$19,632	\$21,220	\$23,465	\$29,658	\$36,781	\$43,629	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,966
<b>50-54</b>	25	76	106	274	405	1,355	1,192	483	207	38	0	0	0	0	0	0	0	4,161
	\$19,282	\$16,973	\$16,325	\$18,907	\$21,119	\$21,599	\$22,840	\$28,439	\$34,680	\$37,160	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,085
<b>55-59</b>	21	21	55	137	198	784	817	576	349	47	0	0	0	0	0	0	0	3,005
	\$20,000	\$16,071	\$18,229	\$20,451	\$21,897	\$23,485	\$24,252	\$27,247	\$31,597	\$39,460	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25,191
<b>60-64</b>	5	11	28	50	107	407	432	359	286	42	0	0	0	0	0	0	0	1,727
	\$20,000	\$15,540	\$15,175	\$20,875	\$21,313	\$22,828	\$23,997	\$27,045	\$28,855	\$35,283	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,969
<b>65-69</b>	2	2	9	29	36	137	127	90	79	10	0	0	0	0	0	0	0	521
	\$20,000	\$10,000	\$13,168	\$15,301	\$17,126	\$22,069	\$22,051	\$28,974	\$25,846	\$30,060	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,057
<b>70 &amp; Over</b>	1	2	7	5	11	48	58	19	12	5	0	0	0	0	0	0	0	168
	\$10,000	\$10,000	\$12,735	\$11,223	\$16,547	\$16,412	\$18,895	\$25,106	\$23,287	\$38,525	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,048
	*																	
<b>Total</b>	214	476	803	1,906	2,724	7,414	4,653	2,040	1,100	174	0	0	0	0	0	0	0	21,504
	\$18,987	\$16,826	\$17,205	\$19,038	\$20,930	\$22,155	\$23,892	\$28,298	\$31,743	\$38,072	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,967

<b>Average:</b>	Age	48.3	Number of Participants:	Vested	14,613	Males	4,857	Early Retirement Eligible:	724
	Service	8.6		Not Vested	6,891	Females	16,647	Normal Retirement Eligible:	585

\*Annual Salary omitted for privacy reasons  
 Numbers of participants eligible for early and normal retirement are estimates only.

**Age and Service Distribution of Active Members  
(Number of Actives and Average Salary)**

(Continued)

SERS Plan 3: Attained Age	Attained Years of Service											Total				
	0	1	2	3	4	5	4	5-9	10-14	15-19	20-24		25-29	30-34	35-39	40 & Over
Under 25	273	245	145	57	5	2	0	0	0	0	0	0	0	0	0	727
	\$19,489	\$16,771	\$17,350	\$22,457	\$30,790	\$45,013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,527
25-29	239	312	338	146	33	66	3	0	0	0	0	0	0	0	0	1,137
	\$19,756	\$19,580	\$22,578	\$23,618	\$26,905	\$28,849	\$36,260	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,821
30-34	319	421	333	205	68	237	89	3	0	0	0	0	0	0	0	1,675
	\$19,579	\$18,463	\$21,778	\$24,166	\$26,910	\$29,788	\$29,472	\$39,657	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,601
35-39	455	605	549	334	147	483	258	65	1	0	0	0	0	0	0	2,897
	\$19,429	\$17,377	\$19,573	\$21,203	\$22,214	\$25,502	\$31,550	\$34,406	*	\$0	\$0	\$0	\$0	\$0	\$0	\$21,816
40-44	521	790	780	512	254	1,052	695	228	95	5	5	5	0	0	0	4,932
	\$18,827	\$16,470	\$18,359	\$20,030	\$21,830	\$22,548	\$29,244	\$37,619	\$40,272	\$41,587	\$0	\$0	\$0	\$0	\$0	\$22,221
45-49	425	667	628	473	248	1,437	1,454	488	221	39	39	0	0	0	0	6,080
	\$19,400	\$16,997	\$20,153	\$19,649	\$21,979	\$21,999	\$24,710	\$33,125	\$37,913	\$40,267	\$0	\$0	\$0	\$0	\$0	\$23,131
50-54	237	362	417	291	136	1,002	1,604	883	283	49	0	0	0	0	0	5,264
	\$19,257	\$18,122	\$20,177	\$21,355	\$22,317	\$23,124	\$24,093	\$28,918	\$34,153	\$38,246	\$0	\$0	\$0	\$0	\$0	\$24,255
55-59	150	196	254	148	45	396	986	791	442	56	56	0	0	0	0	3,464
	\$19,519	\$19,677	\$22,750	\$22,292	\$18,653	\$23,177	\$24,319	\$26,648	\$30,064	\$37,770	\$0	\$0	\$0	\$0	\$0	\$24,925
60-64	76	101	93	70	24	129	271	269	194	27	27	0	0	0	0	1,254
	\$19,142	\$17,118	\$19,423	\$20,525	\$21,269	\$22,404	\$23,195	\$26,382	\$28,597	\$30,888	\$0	\$0	\$0	\$0	\$0	\$23,598
65-69	23	33	28	17	7	29	41	30	10	2	2	0	0	0	0	220
	\$19,565	\$16,881	\$15,506	\$19,800	\$21,335	\$19,641	\$20,506	\$28,178	\$30,361	\$18,120	\$0	\$0	\$0	\$0	\$0	\$20,558
70 & Over	4	18	7	7	0	4	14	4	1	1	1	0	0	0	0	60
	\$15,000	\$14,959	\$12,942	\$19,772	\$0	\$19,478	\$19,118	\$21,304	*	*	*	\$0	\$0	\$0	\$0	\$17,160
<b>Total</b>	<b>2,722</b>	<b>3,750</b>	<b>3,572</b>	<b>2,260</b>	<b>967</b>	<b>4,837</b>	<b>5,415</b>	<b>2,761</b>	<b>1,247</b>	<b>179</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27,710</b>
	<b>\$19,338</b>	<b>\$17,553</b>	<b>\$20,057</b>	<b>\$21,123</b>	<b>\$22,407</b>	<b>\$23,277</b>	<b>\$25,326</b>	<b>\$29,604</b>	<b>\$32,950</b>	<b>\$37,201</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$23,051</b>

Average: Age 45.8 Number of Participants: Vested 11,492 Males 5,729 Early Retirement Eligible: 3,036  
 Service 7.1 Not Vested 16,218 Females 21,981 Normal Retirement Eligible: 103

\*Annual Salary omitted for privacy reasons  
 Numbers of participants eligible for early and normal retirement are estimates only.

**Age and Service Distribution of Active Members  
 (Number of Actives and Average Salary)**

*(Continued)*

**LEOFF Plan 1:**

**Attained Age**

Attained Age	Attained Years of Service											Total				
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34		35-39	40 & Over		
<b>Under 25</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>25-29</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>30-34</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>35-39</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>40-44</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>45-49</b>	0	0	0	0	0	1	0	2	10	105	2	0	0	0	0	120
	\$0	\$0	\$0	\$0	\$0	\$0	\$42,858	\$61,101	\$73,676	\$73,445	\$0	\$0	\$0	\$0	\$0	\$72,333
<b>50-54</b>	0	0	0	0	0	1	2	4	297	130	0	0	0	0	0	436
	\$0	\$0	\$0	\$0	\$0	\$63,109	\$61,374	\$48,943	\$72,298	\$73,772	\$0	\$0	\$0	\$0	\$0	\$72,428
<b>55-59</b>	0	0	0	0	0	1	1	6	111	204	34	0	0	0	0	358
	\$0	\$0	\$0	\$0	\$0	\$0	\$67,852	\$68,151	\$71,524	\$78,598	\$0	\$0	\$0	\$0	\$0	\$70,955
<b>60-64</b>	0	0	0	0	0	0	2	1	7	34	24	1	1	1	1	69
	\$0	\$0	\$0	\$0	\$0	\$0	\$39,225	\$67,790	\$74,328	\$72,881	\$0	\$0	\$0	\$0	\$0	\$72,021
<b>65-69</b>	0	0	0	0	0	0	0	0	0	1	3	4	4	4	4	8
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$77,996	\$80,226	\$80,784	\$80,784	\$80,784	\$80,784	\$80,784
<b>70 &amp; Over</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>7</b>	<b>21</b>	<b>520</b>	<b>371</b>	<b>61</b>	<b>5</b>	<b>991</b>	<b>991</b>	<b>991</b>	<b>991</b>
	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$76,236</b>	<b>\$62,154</b>	<b>\$48,021</b>	<b>\$61,075</b>	<b>\$72,632</b>	<b>\$76,319</b>	<b>\$78,475</b>	<b>\$71,924</b>	<b>\$71,924</b>	<b>\$71,924</b>	<b>\$71,924</b>

<b>Average:</b>	<b>Age</b>	54.0	<b>Number of Participants:</b>	<b>Vested</b>	991	<b>Males</b>	978	<b>Early Retirement Eligible:</b>	N/A
	<b>Service</b>	29.3	<b>Not Vested</b>	0	<b>Females</b>	13	<b>Normal Retirement Eligible:</b>	871	

\*Annual Salary omitted for privacy reasons

Numbers of participants eligible for early and normal retirement are estimates only.



**Age and Service Distribution of Active Members**  
(Number of Actives and Average Salary)

(Continued)

**LEOFF Plan 2:**

**Attained Age**

Attained Age	Attained Years of Service											Total			
	0	1	2	3	4	5	10-14	15-19	20-24	25-29	30-34		35-39	40 & Over	
<b>Under 25</b>	32	76	44	21	5	0	0	0	0	0	0	0	0	0	178
	\$40,643	\$44,465	\$49,080	\$52,994	\$46,465	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$45,981
<b>25-29</b>	123	243	286	259	211	283	1	0	0	0	0	0	0	0	1,406
	\$41,692	\$45,069	\$51,189	\$54,716	\$60,267	\$62,307	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$53,566
<b>30-34</b>	109	207	258	235	308	1,395	321	1	0	0	0	0	0	0	2,834
	\$44,104	\$47,355	\$51,006	\$56,298	\$59,828	\$64,302	\$69,440	*	\$0	\$0	\$0	\$0	\$0	\$0	\$60,511
<b>35-39</b>	58	84	143	113	170	1,043	1,221	282	1	0	0	0	0	0	3,115
	\$46,936	\$52,112	\$51,868	\$58,644	\$60,941	\$65,747	\$69,853	\$74,261	*	\$0	\$0	\$0	\$0	\$0	\$66,262
<b>40-44</b>	33	50	63	67	77	469	906	889	284	6	0	0	0	0	2,844
	\$49,171	\$54,079	\$52,266	\$56,916	\$58,011	\$64,240	\$70,794	\$74,414	\$79,162	\$81,229	\$0	\$0	\$0	\$0	\$70,074
<b>45-49</b>	24	29	22	25	30	230	431	595	839	158	0	0	0	0	2,383
	\$53,153	\$63,679	\$52,427	\$61,801	\$56,289	\$64,503	\$69,557	\$73,851	\$79,574	\$78,567	\$0	\$0	\$0	\$0	\$73,622
<b>50-54</b>	17	22	10	17	15	107	149	269	559	179	0	0	0	0	1,344
	\$54,063	\$74,806	\$63,250	\$61,213	\$57,925	\$63,453	\$69,046	\$72,629	\$76,469	\$78,069	\$0	\$0	\$0	\$0	\$73,245
<b>55-59</b>	5	6	9	2	8	35	49	77	135	37	0	0	0	0	363
	\$48,795	\$55,524	\$79,143	\$67,824	\$64,472	\$66,319	\$67,388	\$70,739	\$73,976	\$74,406	\$0	\$0	\$0	\$0	\$70,938
<b>60-64</b>	0	4	2	0	0	15	16	22	22	3	0	0	0	0	84
	\$0	\$38,354	\$56,396	\$0	\$0	\$66,501	\$57,305	\$72,793	\$73,799	\$74,047	\$0	\$0	\$0	\$0	\$66,997
<b>65-69</b>	0	0	0	0	0	1	3	5	0	0	0	0	0	0	9
	\$0	\$0	\$0	\$0	\$0	* \$84,787	\$63,474	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$74,156
<b>70 &amp; Over</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	401	721	837	739	824	3,578	3,097	2,140	1,840	383	0	0	0	0	14,560
	\$44,937	\$48,813	\$51,709	\$56,395	\$59,800	\$64,582	\$69,917	\$73,837	\$78,096	\$77,939	\$0	\$0	\$0	\$0	\$66,388

<b>Average:</b>	Age	39.5	Number of Participants:	Vested	10,557	Males	13,360	Early Retirement Eligible:	540
	Service	10.7		Not Vested	4,003	Females	1,200	Normal Retirement Eligible:	754

\*Annual Salary omitted for privacy reasons

Numbers of participants eligible for early and normal retirement are estimates only.

**Age and Service Distribution of Active Members  
(Number of Actives and Average Salary)**

(Continued)

WSP Plan 1: Attained Age	Attained Years of Service													Total	
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over		
Under 25	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4
	\$0	\$0	\$45,116	\$44,335	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$44,725
25-29	0	1	17	23	29	35	0	0	0	0	0	0	0	0	105
	\$0	*	\$47,363	\$48,554	\$50,827	\$55,603	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$51,281
30-34	0	3	17	10	26	137	31	0	0	0	0	0	0	0	224
	\$0	\$45,035	\$45,416	\$49,015	\$51,523	\$59,437	\$63,744	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$57,392
35-39	0	0	4	3	17	74	127	37	0	0	0	0	0	0	262
	\$0	\$0	\$48,232	\$47,529	\$50,930	\$59,904	\$65,204	\$64,790	\$0	\$0	\$0	\$0	\$0	\$0	\$62,261
40-44	0	0	4	0	7	23	45	122	6	0	0	0	0	0	207
	\$0	\$0	\$62,421	\$0	\$50,241	\$56,855	\$63,670	\$67,739	\$75,608	\$0	\$0	\$0	\$0	\$0	\$65,179
45-49	0	0	2	1	9	4	10	38	64	17	0	0	0	0	145
	\$0	\$0	\$44,785	*	\$52,252	\$60,140	\$62,950	\$65,350	\$72,755	\$73,327	\$0	\$0	\$0	\$0	\$68,062
50-54	0	0	0	0	2	4	4	8	17	19	11	0	0	0	65
	\$0	\$0	\$0	\$0	\$55,690	\$61,643	\$58,106	\$65,662	\$67,360	\$72,464	\$71,053	\$0	\$0	\$0	\$67,988
55-59	0	0	0	0	1	4	1	3	3	3	15	2	0	0	32
	\$0	\$0	\$0	\$0	\$0	\$59,857	*	\$59,106	\$68,577	\$70,127	\$66,035	\$63,337	\$0	\$0	\$64,370
60-64	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	*	\$0	\$0	\$0	\$0	*
65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
70 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>0</b>	<b>4</b>	<b>46</b>	<b>39</b>	<b>91</b>	<b>281</b>	<b>218</b>	<b>208</b>	<b>90</b>	<b>40</b>	<b>26</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1,045</b>
	<b>\$0</b>	<b>\$44,415</b>	<b>\$47,819</b>	<b>\$48,487</b>	<b>\$51,217</b>	<b>\$58,918</b>	<b>\$64,430</b>	<b>\$66,574</b>	<b>\$71,787</b>	<b>\$72,323</b>	<b>\$68,158</b>	<b>\$63,337</b>	<b>\$0</b>	<b>\$0</b>	<b>\$61,848</b>

<b>Average:</b>	<b>Age</b>	<b>38.8</b>	<b>Number of Participants:</b>	<b>Vested</b>	<b>825</b>	<b>Males</b>	<b>964</b>	<b>Early Retirement Eligible:</b>	<b>N/A</b>
	<b>Service</b>	<b>12.2</b>	<b>Number of Participants:</b>	<b>Not Vested</b>	<b>220</b>	<b>Females</b>	<b>81</b>	<b>Normal Retirement Eligible:</b>	<b>80</b>

\*Annual Salary omitted for privacy reasons  
Numbers of participants eligible for early and normal retirement are estimates only.

**Age and Service Distribution of Active Members  
(Number of Actives and Average Salary)**

(Continued)

WSP Plan 2: Attained Age	Attained Years of Service													Total
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	
Under 25	2	1	1	0	0	0	\$0	\$0	\$0	0	0	0	0	4
	\$42,000	*	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,474
25-29	4	3	7	0	0	0	0	0	0	0	0	0	0	14
	\$45,082	\$39,338	\$39,443	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,031
30-34	6	9	1	0	0	0	0	0	0	0	0	0	0	16
	\$43,170	\$39,514	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40,893
35-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
40-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
45-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
50-54	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
55-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
70 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>12</b>	<b>13</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>34</b>
	<b>\$43,612</b>	<b>\$39,661</b>	<b>\$39,521</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$41,018</b>

Average: Age 28.8    Number of Participants: Vested 0    Males 32    Early Retirement Eligible: N/A  
 Service 0.8    Not Vested 34    Females 2    Normal Retirement Eligible: 0

\*Annual Salary omitted for privacy reasons  
 Numbers of participants eligible for early and normal retirement are estimates only.

**Age and Years Retired Distribution of All Annuitant Members  
(Number of All Annuitant Members and Average Monthly Benefit)**

PERS Plan 1: Attained Age	Attained Years Retired											Total		
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34		35-39	40 & Over
Under 50	28	19	6	11	18	53	18	8	9	7	2	0	0	179
	\$2,592	\$1,997	\$1,099	\$616	\$813	\$953	\$513	\$274	\$271	\$195	\$152	\$0	\$0	\$1,143
50-54	162	323	178	133	82	109	53	23	19	3	1	0	0	1,086
	\$2,694	\$2,891	\$2,542	\$2,377	\$2,178	\$1,155	\$913	\$490	\$277	\$182	*	\$0	\$0	\$2,311
55-59	358	833	772	676	570	877	302	41	23	14	5	1	0	4,472
	\$2,740	\$2,628	\$2,546	\$2,602	\$2,470	\$2,223	\$1,577	\$462	\$298	\$250	\$273	*	\$0	\$2,406
60-64	414	817	783	753	723	1,763	1,143	86	51	15	10	0	2	6,560
	\$1,865	\$1,854	\$1,854	\$1,804	\$1,833	\$2,096	\$1,752	\$766	\$424	\$327	\$320	\$0	\$185	\$1,862
65-69	142	334	398	639	741	3,409	2,151	349	174	32	18	6	1	8,394
	\$1,501	\$1,635	\$1,495	\$1,497	\$1,485	\$1,404	\$1,483	\$1,425	\$847	\$306	\$237	\$189	*	\$1,435
70-74	15	47	49	77	128	2,754	3,834	856	554	98	30	7	4	8,453
	\$1,505	\$1,649	\$1,880	\$1,583	\$1,623	\$1,308	\$1,128	\$1,409	\$1,118	\$519	\$315	\$310	\$361	\$1,223
75-79	2	10	13	23	30	406	2,914	3,392	1,809	364	64	12	4	9,043
	\$1,028	\$1,779	\$1,238	\$1,628	\$1,570	\$1,415	\$1,054	\$866	\$938	\$782	\$387	\$301	\$377	\$964
80-84	2	6	7	11	5	75	445	2,707	4,063	822	208	20	7	8,378
	\$2,917	\$2,034	\$1,126	\$1,468	\$948	\$1,312	\$1,089	\$824	\$677	\$824	\$595	\$382	\$222	\$766
85-89	0	1	2	1	1	19	66	306	2,380	1,954	362	38	5	5,135
	\$0	* \$1,027	*	*	*	\$1,004	\$1,107	\$809	\$621	\$567	\$602	\$444	\$428	\$618
90-94	0	0	0	0	0	2	7	30	224	1,123	723	68	14	2,191
	\$0	\$0	\$0	\$0	\$0	\$773	\$946	\$595	\$578	\$603	\$550	\$475	\$521	\$580
95 & Over	0	0	0	0	0	0	0	2	6	72	296	90	15	481
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$566	\$579	\$592	\$592	\$497	\$649	\$576
<b>Total</b>	<b>1,123</b>	<b>2,390</b>	<b>2,208</b>	<b>2,324</b>	<b>2,298</b>	<b>9,467</b>	<b>10,933</b>	<b>7,800</b>	<b>9,312</b>	<b>4,504</b>	<b>1,719</b>	<b>242</b>	<b>52</b>	<b>54,372</b>
	<b>\$2,231</b>	<b>\$2,231</b>	<b>\$2,079</b>	<b>\$1,968</b>	<b>\$1,866</b>	<b>\$1,574</b>	<b>\$1,252</b>	<b>\$928</b>	<b>\$737</b>	<b>\$635</b>	<b>\$557</b>	<b>\$449</b>	<b>\$466</b>	<b>\$1,249</b>

Average: Age 73.1  
Years Retired 13.6

Males 23,238  
Females 31,134

\*Monthly benefit omitted for privacy reasons

**Age and Years Retired Distribution of All Annuitant Members  
(Number of All Annuitant Members and Average Monthly Benefit)**

(Continued)

PERS Plan 2:

Attained Age

Attained Age	Attained Years Retired										Total			
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30-34	35-39	40 & Over
Under 50	9	24	15	9	7	11	4	0	0	0	0	0	0	79
	\$143	\$214	\$158	\$180	\$223	\$120	\$118	\$0	\$0	\$0	\$0	\$0	\$0	\$174
50-54	10	28	30	25	29	34	3	0	0	0	0	0	0	159
	\$310	\$255	\$229	\$181	\$177	\$226	\$356	\$0	\$0	\$0	\$0	\$0	\$0	\$223
55-59	40	77	50	47	56	83	8	0	0	0	0	0	0	361
	\$544	\$485	\$399	\$354	\$224	\$199	\$194	\$0	\$0	\$0	\$0	\$0	\$0	\$350
60-64	99	144	120	112	91	168	29	1	0	0	0	0	0	764
	\$949	\$827	\$619	\$530	\$456	\$289	\$193	*	\$0	\$0	\$0	\$0	\$0	\$579
65-69	461	859	790	814	682	288	49	7	0	0	0	0	0	3,950
	\$832	\$808	\$769	\$726	\$694	\$523	\$253	\$112	\$0	\$0	\$0	\$0	\$0	\$737
70-74	26	77	59	153	286	2,550	120	16	0	0	0	0	0	3,287
	\$883	\$827	\$789	\$768	\$712	\$620	\$342	\$193	\$0	\$0	\$0	\$0	\$0	\$632
75-79	8	24	18	26	44	443	1,022	33	2	0	0	0	0	1,620
	\$355	\$629	\$531	\$544	\$549	\$607	\$492	\$287	\$187	\$0	\$0	\$0	\$0	\$523
80-84	2	2	4	6	11	85	175	287	3	0	0	0	0	575
	\$521	\$591	\$919	\$789	\$713	\$466	\$470	\$353	\$133	\$0	\$0	\$0	\$0	\$421
85-89	0	1	1	4	6	10	21	51	8	0	0	0	0	102
	\$0	\$0	\$0	\$168	\$218	\$476	\$412	\$348	\$442	\$0	\$0	\$0	\$0	\$369
90-94	0	0	0	0	0	1	4	2	0	0	0	0	0	7
	\$0	\$0	\$0	\$0	\$0	*	\$279	\$317	\$0	\$0	\$0	\$0	\$0	\$356
95 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>655</b>	<b>1,236</b>	<b>1,087</b>	<b>1,196</b>	<b>1,212</b>	<b>3,673</b>	<b>1,435</b>	<b>397</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,904</b>
	<b>\$810</b>	<b>\$763</b>	<b>\$709</b>	<b>\$677</b>	<b>\$636</b>	<b>\$577</b>	<b>\$458</b>	<b>\$336</b>	<b>\$331</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$618</b>

Average:

Age 69.9  
Years Retired 5.5

Males 4,846  
Females 6,058

\*Monthly benefit omitted for privacy reasons

**Age and Years Retired Distribution of All Annuitant Members  
(Number of All Annuitant Members and Average Monthly Benefit)**

(Continued)

PERS Plan 3:

Attained Age

Attained Age	Attained Years Retired										Total			
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30-34	35-39	40 & Over
Under 50	1	2	0	0	0	0	0	0	0	0	0	0	0	3
	*	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$106
50-54	1	1	0	0	0	0	0	0	0	0	0	0	0	2
	*	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$143
55-59	14	13	0	0	0	0	0	0	0	0	0	0	0	27
	\$307	\$232	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$271
60-64	23	16	0	0	0	0	0	0	0	0	0	0	0	39
	\$429	\$452	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$438
65-69	9	4	0	0	0	0	0	0	0	0	0	0	0	13
	\$635	\$795	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$685
70-74	1	1	0	0	0	0	0	0	0	0	0	0	0	2
	*	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$527
75-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
90-94	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
95 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>49</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>86</b>
	<b>\$427</b>	<b>\$379</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$406</b>

Average:

Age 60.8

Years Retired 0.5

Males 43

Females 43

\*Monthly benefit omitted for privacy reasons



**Age and Years Retired Distribution of All Annuitant Members  
(Number of All Annuitant Members and Average Monthly Benefit)**

(Continued)

Attained Age	Attained Years Retired											Total						
	0	1	2	3	4	5	6	7	8	9	10-14		15-19	20-24	25-29	30-34	35-39	40 & Over
Under 50	1	2	3	4	5	6	7	8	9	12	15,064	\$877	\$542	\$790	1	0	0	0
	\$1,549	\$1,810	\$1,460	\$1,216	\$1,216	\$1,460	\$1,216	\$1,460	\$877	\$542	\$790	\$542	\$790	\$790	\$0	\$0	\$0	\$0
50-54	244	178	73	17	8	17	8	17	18	47	\$2,365	\$1,079	\$475	\$480	1	2	0	0
	\$2,772	\$2,647	\$2,079	\$1,498	\$1,498	\$2,079	\$1,498	\$2,079	\$1,079	\$475	\$480	\$475	\$480	\$480	\$724	\$0	\$0	\$0
55-59	538	807	956	764	630	764	630	764	154	593	\$2,302	\$1,493	\$552	\$407	5	3	2	0
	\$2,606	\$2,431	\$2,302	\$2,161	\$2,114	\$2,161	\$2,114	\$2,161	\$1,493	\$552	\$407	\$552	\$407	\$407	\$722	\$599	\$0	\$0
60-64	350	543	658	649	651	649	651	649	866	41	2,296	866	41	22	11	5	1	1
	\$1,943	\$1,804	\$1,713	\$1,726	\$1,731	\$1,726	\$1,731	\$1,726	\$1,733	\$885	\$496	\$885	\$496	\$496	\$453	*	*	*
65-69	68	90	-1,630	260	293	260	293	260	2,090	237	2,385	2,090	237	99	31	7	2	0
	\$1,932	\$2,032	-\$190	\$1,728	\$1,663	\$1,728	\$1,663	\$1,728	\$1,712	\$1,416	\$885	\$885	\$885	\$885	\$298	\$380	\$552	\$0
70-74	3	13	0	25	44	25	44	25	2,503	1,156	975	2,503	1,156	562	8	1	0	0
	\$2,255	\$1,584	\$0	\$1,696	\$1,908	\$1,696	\$1,908	\$1,696	\$1,447	\$1,485	\$1,181	\$1,447	\$1,181	\$611	\$433	*	\$0	\$0
75-79	0	5	1,817	2	7	2	7	2	936	1,673	126	936	1,673	1,512	16	0	0	0
	\$0	\$2,247	\$6	\$1,600	\$1,539	\$1,600	\$1,539	\$1,600	\$1,442	\$1,101	\$1,218	\$1,442	\$1,101	\$841	\$499	\$0	\$0	\$0
80-84	0	0	0	0	0	0	0	0	146	704	16	146	704	1,806	53	5	1	1
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,409	\$1,169	\$975	\$1,169	\$975	\$771	\$723	*	*	*
85-89	0	0	0	0	0	0	0	0	15	81	3	15	81	708	186	9	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,667	\$1,081	\$1,007	\$1,667	\$1,007	\$834	\$904	\$639	\$0	\$0
90-94	0	0	0	0	0	0	0	0	2	7	0	2	7	44	538	46	7	7
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,415	\$1,184	\$962	\$1,415	\$1,184	\$822	\$822	\$800	\$605	\$605
95 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	22	287	112	17	438
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,057	\$995	\$611	\$683	\$888
<b>Total</b>	<b>1,204</b>	<b>1,638</b>	<b>1,877</b>	<b>1,723</b>	<b>1,638</b>	<b>1,723</b>	<b>1,638</b>	<b>1,723</b>	<b>6,739</b>	<b>3,928</b>	<b>4,776</b>	<b>2,570</b>	<b>1,105</b>	<b>178</b>	<b>1,105</b>	<b>178</b>	<b>26</b>	<b>33,855</b>
	<b>\$2,407</b>	<b>\$2,216</b>	<b>\$2,038</b>	<b>\$1,921</b>	<b>\$1,867</b>	<b>\$1,921</b>	<b>\$1,867</b>	<b>\$1,921</b>	<b>\$1,564</b>	<b>\$1,239</b>	<b>\$1,074</b>	<b>\$902</b>	<b>\$866</b>	<b>\$663</b>	<b>\$866</b>	<b>\$663</b>	<b>\$639</b>	<b>\$1,539</b>

Average: Age 70.6  
Years Retired 12.6

Males 14,870  
Females 18,985

\*Monthly benefit omitted for privacy reasons

**Age and Years Retired Distribution of All Annuitant Members  
(Number of All Annuitant Members and Average Monthly Benefit)**

(Continued)

TRS Plan 2:

Attained Age

Attained Age	Attained Years Retired										Total			
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30-34	35-39	40 & Over
Under 50	1	4	0	1	2	3	0	0	0	0	0	0	0	11
	*	\$321	\$0	*	\$494	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$272
50-54	1	0	1	3	1	3	0	0	0	0	0	0	0	9
	*	\$0	*	\$366	*	\$212	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$252
55-59	10	3	3	4	1	2	1	0	0	0	0	0	0	24
	\$680	\$232	\$504	\$522	*	\$320	*	\$0	\$0	\$0	\$0	\$0	\$0	\$506
60-64	19	21	18	15	6	19	3	0	0	0	0	0	0	101
	\$1,065	\$1,109	\$854	\$666	\$588	\$554	\$481	\$0	\$0	\$0	\$0	\$0	\$0	\$836
65-69	60	88	92	97	77	38	5	0	0	0	0	0	0	457
	\$1,066	\$1,166	\$1,083	\$1,018	\$965	\$962	\$408	\$0	\$0	\$0	\$0	\$0	\$0	\$1,045
70-74	4	7	8	7	22	192	8	0	0	0	0	0	0	248
	\$1,364	\$1,569	\$1,239	\$1,043	\$1,085	\$909	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$952
75-79	2	0	1	3	2	28	48	0	0	0	0	0	0	84
	\$866	\$0	*	\$611	\$1,301	\$950	\$748	\$0	\$0	\$0	\$0	\$0	\$0	\$834
80-84	0	0	0	0	1	4	8	8	0	0	0	0	0	21
	\$0	\$0	\$0	\$0	*	\$620	\$797	\$511	\$0	\$0	\$0	\$0	\$0	\$691
85-89	0	0	0	0	0	1	0	1	0	0	0	0	0	2
	\$0	\$0	\$0	\$0	\$0	*	\$0	*	\$0	\$0	\$0	\$0	\$0	\$349
90-94	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
95 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>97</b>	<b>123</b>	<b>123</b>	<b>130</b>	<b>112</b>	<b>290</b>	<b>73</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>957</b>
	<b>\$1,014</b>	<b>\$1,129</b>	<b>\$1,040</b>	<b>\$931</b>	<b>\$960</b>	<b>\$872</b>	<b>\$682</b>	<b>\$497</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$941</b>

Average:

Age 68.4  
Years Retired 4.3

Males 277  
Females 680

\*Monthly benefit omitted for privacy reasons

**Age and Years Retired Distribution of All Annuitant Members  
(Number of All Annuitant Members and Average Monthly Benefit)**

(Continued)

TRS Plan 3:

Attained Age

Attained Age	Attained Years Retired										Total			
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30-34	35-39	40 & Over
Under 50	2	1	2	1	0	0	0	0	0	0	0	0	0	6
	\$212	*	\$146	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$216
50-54	0	2	2	3	2	2	0	0	0	0	0	0	0	11
	\$0	\$181	\$132	\$155	\$138	\$129	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$148
55-59	19	37	19	12	8	5	0	0	0	0	0	0	0	100
	\$308	\$272	\$279	\$227	\$195	\$154	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$263
60-64	29	29	29	30	20	23	0	0	0	0	0	0	0	160
	\$597	\$455	\$405	\$381	\$329	\$291	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$419
65-69	15	25	14	18	13	15	0	0	0	0	0	0	0	100
	\$640	\$575	\$549	\$602	\$550	\$462	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$566
70-74	0	0	0	2	1	2	0	0	0	0	0	0	0	5
	\$0	\$0	\$0	\$610	*	\$576	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$655
75-79	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	*
80-84	0	0	0	0	0	2	0	0	0	0	0	0	0	2
	\$0	\$0	\$0	\$0	\$0	\$181	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$181
85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
90-94	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
95 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>66</b>	<b>94</b>	<b>66</b>	<b>66</b>	<b>44</b>	<b>49</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>385</b>
	<b>\$506</b>	<b>\$409</b>	<b>\$383</b>	<b>\$406</b>	<b>\$374</b>	<b>\$330</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$407</b>

Average:

Age 61.7  
Years Retired 2.3

Males 96  
Females 289

\*Monthly benefit omitted for privacy reasons

**Age and Years Retired Distribution of All Annuitant Members  
(Number of All Annuitant Members and Average Monthly Benefit)**

(Continued)

SERS Plan 2:

Attained Age

Attained Age	Attained Years Retired										Total			
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30-34	35-39	40 & Over
Under 50	2	1	1	0	0	0	0	0	0	0	0	0	0	4
	\$158	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$154
50-54	0	3	5	1	0	0	0	0	0	0	0	0	0	9
	\$0	\$204	\$121	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$147
55-59	9	11	12	3	0	0	0	0	0	0	0	0	0	35
	\$340	\$338	\$158	\$97	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$256
60-64	44	39	30	6	0	0	0	0	0	0	0	0	0	119
	\$652	\$641	\$391	\$359	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$568
65-69	112	159	154	41	0	0	0	0	0	0	0	0	0	466
	\$589	\$551	\$536	\$604	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$560
70-74	16	24	28	13	0	0	0	0	0	0	0	0	0	81
	\$310	\$464	\$423	\$380	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$406
75-79	3	6	8	5	0	0	0	0	0	0	0	0	0	22
	\$257	\$390	\$321	\$606	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$396
80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
90-94	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
95 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>186</b>	<b>243</b>	<b>238</b>	<b>69</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>736</b>
	<b>\$558</b>	<b>\$538</b>	<b>\$468</b>	<b>\$511</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$518</b>

Average:

Age 66.2  
Years Retired 1.3

Males 258  
Females 478

\*Monthly benefit omitted for privacy reasons

**Age and Years Retired Distribution of All Annuitant Members  
(Number of All Annuitant Members and Average Monthly Benefit)**

(Continued)

**SERS Plan 3:**

**Attained Age**

Attained Age	Attained Years Retired										Total			
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30-34	35-39	40 & Over
Under 50	1	0	0	0	0	0	0	0	0	0	0	0	0	1
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
50-54	1	0	1	0	0	0	0	0	0	0	0	0	0	*
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
55-59	10	15	15	1	0	0	0	0	0	0	0	0	0	2
	\$147	\$109	\$115	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$99
60-64	38	41	54	4	0	0	0	0	0	0	0	0	0	41
	\$253	\$227	\$206	\$199	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$123
65-69	20	37	43	5	0	0	0	0	0	0	0	0	0	137
	\$338	\$345	\$229	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225
70-74	3	6	6	2	0	0	0	0	0	0	0	0	0	105
	\$223	\$97	\$280	\$121	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$292
75-79	0	2	1	0	0	0	0	0	0	0	0	0	0	17
	\$0	\$287	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$187
80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255
85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
90-94	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
95 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>73</b>	<b>101</b>	<b>120</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>306</b>
	<b>\$256</b>	<b>\$246</b>	<b>\$206</b>	<b>\$207</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$231</b>

Average:

Age 63.5  
Years Retired 1.3

Males 99  
Females 207

\*Monthly benefit omitted for privacy reasons

**Age and Years Retired Distribution of All Annuitant Members  
 (Number of All Annuitant Members and Average Monthly Benefit)**

*(Continued)*

**LEOFF Plan 1:**

**Attained Age**

Attained Age	Attained Years Retired										Total		
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30-34	35-39
<b>Under 50</b>	1	6	5	6	10	21	24	12	3	6	2	0	0
	\$2,878	\$3,091	\$3,658	\$2,837	\$2,593	\$2,373	\$2,062	\$1,549	\$1,309	\$1,317	\$0	\$0	\$0
<b>50-54</b>	26	60	48	76	63	172	109	84	44	14	0	0	0
	\$3,613	\$3,316	\$3,229	\$2,989	\$2,942	\$2,890	\$2,589	\$2,316	\$2,152	\$1,958	\$0	\$0	\$0
<b>55-59</b>	28	73	104	109	148	714	312	201	150	90	12	0	0
	\$3,693	\$3,693	\$3,507	\$3,416	\$3,335	\$2,878	\$2,695	\$2,366	\$2,286	\$2,199	\$2,128	\$0	\$0
<b>60-64</b>	8	18	28	38	56	457	563	173	165	111	40	0	0
	\$4,223	\$3,743	\$3,756	\$3,698	\$3,561	\$3,215	\$2,792	\$2,525	\$2,363	\$2,244	\$2,123	\$0	\$0
<b>65-69</b>	0	2	2	3	6	138	286	310	182	113	49	0	0
	\$0	\$3,976	\$3,468	\$4,398	\$3,839	\$3,463	\$3,119	\$2,595	\$2,491	\$2,480	\$2,224	\$0	\$0
<b>70-74</b>	0	0	0	2	2	18	76	218	356	156	89	0	0
	\$0	\$0	\$0	\$4,270	\$4,077	\$3,794	\$3,360	\$2,983	\$2,544	\$2,534	\$2,309	\$0	\$0
<b>75-79</b>	0	0	0	0	0	2	26	74	244	355	139	0	0
	\$0	\$0	\$0	\$0	\$0	\$6,168	\$3,614	\$3,042	\$2,936	\$2,720	\$2,462	\$0	\$0
<b>80-84</b>	0	0	0	0	0	0	3	12	70	220	263	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$4,149	\$2,695	\$2,898	\$2,813	\$2,443	\$0	\$0
<b>85-89</b>	0	0	0	0	0	0	1	3	13	42	117	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	*	\$2,163	\$2,557	\$2,454	\$2,401	\$0	\$0
<b>90-94</b>	0	0	0	0	0	0	0	0	2	16	43	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,858	\$2,381	\$2,275	\$0	\$0
<b>95 &amp; Over</b>	0	0	0	0	0	0	0	0	1	1	9	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	*	*	\$2,886	\$0	\$0
<b>Total</b>	<b>63</b>	<b>159</b>	<b>187</b>	<b>234</b>	<b>285</b>	<b>1,522</b>	<b>1,400</b>	<b>1,087</b>	<b>1,230</b>	<b>1,124</b>	<b>763</b>	<b>0</b>	<b>0</b>
	<b>\$3,708</b>	<b>\$3,529</b>	<b>\$3,461</b>	<b>\$3,349</b>	<b>\$3,291</b>	<b>\$3,045</b>	<b>\$2,863</b>	<b>\$2,622</b>	<b>\$2,571</b>	<b>\$2,567</b>	<b>\$2,381</b>	<b>\$0</b>	<b>\$0</b>

**Average:**

Age 65.3  
 Years Retired 16.0

Males 6,777  
 Females 1,277

\*Monthly benefit omitted for privacy reasons



**Age and Years Retired Distribution of All Annuitant Members  
(Number of All Annuitant Members and Average Monthly Benefit)**

(Continued)

LEOFF Plan 2:

Attained Age

Attained Age	Attained Years Retired										Total			
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30-34	35-39	40 & Over
Under 50	1	6	1	3	0	0	0	0	0	0	0	0	0	11
	*	\$925	*	\$398	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$773
50-54	8	24	7	5	0	1	1	0	0	0	0	0	0	46
	\$2,388	\$1,547	\$1,736	\$1,571	\$0	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,671
55-59	15	25	34	37	7	1	0	0	0	0	0	0	0	119
	\$2,098	\$1,684	\$1,623	\$1,393	\$1,008	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,585
60-64	2	16	6	5	12	29	0	0	0	0	0	0	0	70
	\$1,013	\$1,380	\$2,090	\$1,294	\$994	\$966	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,187
65-69	1	3	2	7	7	15	11	0	0	0	0	0	0	46
	*	\$1,586	\$850	\$1,164	\$1,235	\$871	\$743	\$0	\$0	\$0	\$0	\$0	\$0	\$981
70-74	0	0	0	0	2	8	4	3	1	0	0	0	0	18
	\$0	\$0	\$0	\$0	\$1,212	\$1,145	\$1,093	\$555	*	\$0	\$0	\$0	\$0	\$981
75-79	0	0	0	0	0	0	3	1	0	0	0	0	0	4
	\$0	\$0	\$0	\$0	\$0	\$0	\$663	*	\$0	\$0	\$0	\$0	\$0	\$647
80-84	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	*	\$0	\$0	\$0	\$0	\$0	*
85-89	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	\$0	*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	*
90-94	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
95 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>27</b>	<b>75</b>	<b>50</b>	<b>57</b>	<b>28</b>	<b>54</b>	<b>19</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>316</b>
	<b>\$2,020</b>	<b>\$1,496</b>	<b>\$1,641</b>	<b>\$1,320</b>	<b>\$1,073</b>	<b>\$963</b>	<b>\$772</b>	<b>\$572</b>	<b>*</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,341</b>

Average:

Age 59.8  
Years Retired 3.6

Males 285  
Females 31

\*Monthly benefit omitted for privacy reasons

**Age and Years Retired Distribution of All Annuitant Members  
 (Number of All Annuitant Members and Average Monthly Benefit)**

(Continued)

WSP Plan 1: Attained Age	Attained Years Retired													Total
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	
<b>Under 50</b>	4	2	1	2	3	2	7	3	1	0	0	0	0	25
	\$3,386	\$1,799	*	\$3,500	\$2,222	\$1,856	\$738	\$847	*	\$0	\$0	\$0	\$0	\$1,836
<b>50-54</b>	3	10	8	11	15	25	2	1	1	1	0	0	0	77
	\$3,693	\$3,664	\$3,901	\$3,524	\$3,514	\$3,031	\$924	*	*	*	\$0	\$0	\$0	\$3,256
<b>55-59</b>	4	14	13	10	19	85	26	6	3	5	1	0	0	186
	\$3,667	\$3,760	\$4,374	\$3,381	\$3,655	\$3,092	\$2,673	\$419	\$296	\$444	*	\$0	\$0	\$3,040
<b>60-64</b>	1	7	7	9	3	70	79	6	9	2	1	0	0	194
	*	\$3,355	\$4,065	\$3,747	\$3,630	\$3,433	\$2,811	\$2,157	\$214	\$430	*	\$0	\$0	\$2,985
<b>65-69</b>	0	0	0	0	1	13	54	33	11	4	1	0	0	117
	\$0	\$0	\$0	\$0	*	\$3,798	\$2,885	\$2,781	\$1,330	\$539	*	\$0	\$0	\$2,702
<b>70-74</b>	0	1	0	0	0	2	6	27	42	4	1	0	0	83
	\$0	*	\$0	\$0	\$0	\$2,512	\$4,386	\$2,895	\$1,964	\$979	*	\$0	\$0	\$2,365
<b>75-79</b>	0	0	1	0	0	0	0	4	28	6	2	3	0	44
	\$0	\$0	*	\$0	\$0	\$0	\$0	\$2,317	\$2,358	\$1,234	\$828	\$657	\$0	\$1,975
<b>80-84</b>	0	0	0	0	0	0	0	1	6	13	3	6	2	31
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	*	\$1,833	\$1,476	\$738	\$372	\$270	\$1,144
<b>85-89</b>	0	0	0	0	0	0	0	0	0	11	13	4	0	28
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,019	\$892	\$644	\$0	\$1,299
<b>90-94</b>	0	0	0	0	0	0	0	0	0	0	5	3	3	11
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$915	\$607	\$402	\$691
<b>95 &amp; Over</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	12	34	30	32	41	197	174	81	101	46	27	16	5	796
	\$3,606	\$3,436	\$4,025	\$3,540	\$3,449	\$3,234	\$2,762	\$2,461	\$1,752	\$1,279	\$788	\$537	\$349	\$2,663

Average: Age 63.9  
 Years Retired 12.9  
 Males 683  
 Females 113

\*Monthly benefit omitted for privacy reasons

**Age and Years Retired Distribution of All Annuitant Members  
(Number of All Annuitant Members and Average Monthly Benefit)**

(Continued)

**WSP Plan 2:**

**Attained Age**

Attained Age	Attained Years Retired										Total						
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30-34	35-39	40 & Over			
Under 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
50-54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
55-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
60-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
65-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
70-74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
75-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
80-84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
85-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
90-94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
95 & Over	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$0</b>

Average: Age 0.0 Years Retired 0.0

Males 0 Females 0

\*Monthly benefit omitted for privacy reasons

# Historical Data

		Historical Data									
		2003		2002		2001 <sup>1</sup>		2000		1999	
PERS		Plan 1	Plan 2/3 <sup>2</sup>	Plan 1	Plan 2/3 <sup>2</sup>	Plan 1	Plan 2	Plan 1	Plan 2	Plan 1	Plan 2
<b>Contribution Information</b>											
Employer Rate		5.73%	5.73%	3.78%	3.78%	2.05%	2.05%	1.63%	1.63%	3.21%	3.21%
Employee Rate		6.00%	3.38%	6.00%	2.63%	6.00%	1.41%	6.00%	1.05%	6.00%	1.70%
<b>Funded Status</b>											
Credited Projected Liability		\$12,431	\$7,658	\$11,682	\$6,777	\$11,291	\$6,158	\$11,337	\$5,671	\$11,265	\$6,019
Market Value of Assets		\$8,730	\$9,461	\$8,236	\$8,246	\$9,373	\$9,443	\$10,744	\$10,392	\$11,082	\$12,036
Actuarial Value of Assets		\$10,227	\$10,842	\$10,757	\$10,701	\$10,990	\$11,032	\$11,111	\$10,749	\$10,456	\$11,371
Unfunded Liability		\$2,204	(\$3,184)	\$925	(\$3,924)	\$301	(\$4,874)	\$227	(\$5,078)	\$809	(\$5,352)
Funded Ratio		82.27%	141.58%	92.08%	157.89%	97.00%	179.00%	98.00%	190.00%	93.00%	189.00%
<b>Participant Data</b>											
Number of Actives		19,740	134,810	21,737	132,448	23,981	128,955	25,833	126,428	28,168	168,214
Total Annual Salaries		\$945	\$5,930	\$1,023	\$5,661	\$1,085	\$5,249	\$1,132	\$4,964	\$1,184	\$5,546
Number of Terminated Vested		3,142	16,859	3,280	15,872	3,310	15,102	3,220	14,094	3,295	12,838
Number of Terminated, Not Vested		6,525	78,853	7,010	77,151	8,019	76,733	7,704	71,330	7,628	64,879
Number of Retirees and Beneficiaries		54,372	10,990	54,006	9,750	53,538	8,651	53,161	7,927	52,515	6,765
Total Annual Benefits		\$816	\$81	\$760	\$68	\$705	\$57	\$663	\$49	\$609	\$39
<b>Assumptions</b>											
Valuation Interest Rate		8.00%	8.00%	8.00%	8.00%	5.90%	5.90%	7.50%	7.50%	7.50%	7.50%
Salary Increase		4.80%	6.20%	4.80%	6.30%	3.60%	4.70%	4.00%	4.00%	4.00%	4.00%
Inflation <sup>3</sup>		3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
Growth in Membership		1.25%	1.25%	1.25%	1.25%	0.94%	0.94%	1.25%	1.25%	1.25%	1.25%
<b>Actuarial Experience</b>											
Return on Market Value		14.97%	15.05%	(5.83%)	(6.20%)	(9.68%)	(9.80%)	0.49%	0.39%	18.28%	18.52%
Return on Actuarial Value		1.50%	1.50%	1.60%	1.90%	2.10%	1.90%	10.20%	9.90%	16.90%	16.70%
Salary Increase		2.80%	4.20%	5.10%	6.40%	3.90%	4.90%	4.90%	6.00%	3.70%	3.70%
Inflation		1.81%	1.81%	3.55%	3.55%	3.75%	3.75%	3.10%	3.10%	2.63%	2.63%
Growth in Membership		0.24%	0.24%	0.82%	0.82%	0.44%	0.44%	1.84%	1.84%	2.36%	2.36%
COLA <sup>4</sup>		\$1.18	3.00%	\$1.14	3.00%	\$1.11	3.00%	\$1.08	3.00%	\$1.05	2.63%-3%

Note: See footnotes at the end of this section

## Historical Data

(Continued)

TRs	2003		2002		2001 <sup>1</sup>		2000		1999	
	Plan 1	Plan 2/3 <sup>2</sup>	Plan 1	Plan 2/3 <sup>2</sup>	Plan 1	Plan 2/3 <sup>2</sup>	Plan 1	Plan 2/3 <sup>2</sup>	Plan 1	Plan 2/3 <sup>2</sup>
	(Dollars in millions)									
<b>Contribution Information</b>										
Employer Rate	6.74%	6.74%	3.19%	3.19%	2.22%	2.22%	2.38%	2.38%	5.38%	5.38%
Employee Rate	6.00%	2.48%	6.00%	1.71%	6.00%	1.20%	6.00%	1.29%	6.00%	2.15%
<b>Funded Status</b>										
Credited Projected Liability	\$10,207	\$2,552	\$9,602	\$2,085	\$9,320	\$1,797	\$9,376	\$1,654	\$9,359	\$1,547
Market Value of Assets	\$7,358	\$3,315	\$6,962	\$2,877	\$7,985	\$3,045	\$9,805	\$3,397	\$9,002	\$3,006
Actuarial Value of Assets	\$9,086	\$3,949	\$9,366	\$3,800	\$9,342	\$3,547	\$9,372	\$3,250	\$8,696	\$2,908
Unfunded Liability	\$1,121	(\$1,397)	\$236	(\$1,715)	(\$22)	(\$1,750)	\$4	(\$1,596)	\$663	(\$1,361)
Funded Ratio	89.02%	154.74%	97.54%	182.25%	100.00%	197.00%	100.00%	196.00%	93.00%	188.00%
<b>Participant Data</b>										
Number of Actives	11,175	54,900	12,456	53,607	13,971	52,249	17,222	46,636	18,737	43,947
Total Annual Salaries	\$692	\$2,723	\$741	\$2,523	\$800	\$2,350	\$957	\$2,043	\$984	\$1,819
Number of Terminated Vested	1,647	4,911	1,819	4,638	1,990	4,072	1,976	3,441	2,071	3,099
Number of Terminated, Not Vested	776	4,169	814	4,378	949	5,041	965	5,404	989	5,701
Number of Retirees and Beneficiaries	33,855	1,342	33,148	1,106	32,195	912	29,839	611	28,920	448
Total Annual Benefits	\$625	\$13	\$587	\$10	\$544	\$8	\$463	\$5	\$428	\$4
<b>Assumptions</b>										
Valuation Interest Rate	8.00%	8.00%	8.00%	8.00%	10.10%	10.10%	7.50%	7.50%	7.50%	7.50%
Salary Increase	4.80%	6.70%	4.80%	6.70%	6.00%	8.60%	4.00%	4.00%	4.00%	4.00%
Inflation <sup>3</sup>	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
Growth in Membership	0.90%	0.90%	0.90%	0.90%	1.13%	1.13%	0.90%	0.90%	0.90%	0.90%
<b>Actuarial Experience</b>										
Return on Market Value	14.97%	15.11%	(5.77%)	(6.22%)	(12.39%)	(12.67%)	12.93%	12.98%	11.78%	11.92%
Return on Actuarial Value	3.50%	3.80%	6.70%	6.50%	6.80%	6.50%	11.90%	11.70%	14.70%	14.90%
Salary Increase	4.90%	6.60%	4.40%	5.80%	4.80%	6.80%	6.40%	8.40%	1.10%	1.10%
Inflation	1.81%	1.81%	3.55%	3.55%	3.75%	3.75%	3.10%	3.10%	2.63%	2.63%
Growth in Membership	0.02%	0.02%	(0.24%)	(0.24%)	3.70%	3.70%	1.87%	1.87%	1.38%	1.38%
COLA <sup>4</sup>	\$1.18	3.00%	\$1.14	3.00%	\$1.11	3.00%	\$1.08	3.00%	\$1.05	2.63%-3%

Note: See footnotes at the end of this section

<b>Historical Data</b>										
(Continued)										
	2003		2002		2001 <sup>1</sup>		2000		1999	
	Plan 1	Plan 2/3 <sup>2</sup>	Plan 1	Plan 2/3 <sup>2</sup>	Plan 1	Plan 2/3 <sup>2</sup>	Plan 1	Plan 2/3 <sup>2</sup>	Plan 1	Plan 2/3 <sup>2</sup>
<b>SERS</b>										
<b>Contribution Information</b>										
Employer Rate	N/A	7.56%	N/A	3.64%	N/A	1.74%	N/A	N/A	N/A	1.22%
Employee Rate	N/A	3.51%	N/A	2.49%	N/A	1.10%	N/A	N/A	N/A	0.46%
<b>Funded Status</b>										
Credited Projected Liability	N/A	\$1,121	N/A	\$899	N/A	\$747	N/A	N/A	N/A	\$1,091
Market Value of Assets	N/A	\$1,339	N/A	\$1,157	N/A	\$1,230	N/A	N/A	N/A	\$1,790
Actuarial Value of Assets	N/A	\$1,546	N/A	\$1,519	N/A	\$1,472	N/A	N/A	N/A	\$1,853
Unfunded Liability	N/A	(\$425)	N/A	(\$620)	N/A	(\$724)	N/A	N/A	N/A	(\$762)
Funded Ratio	N/A	137.87%	N/A	169.02%	N/A	197.00%	N/A	N/A	N/A	170.00%
<b>Participant Data</b>										
Number of Actives	N/A	49,214	N/A	49,791	N/A	48,347	N/A	N/A	N/A	47,725
Total Annual Salaries	N/A	\$1,133	N/A	\$1,086	N/A	\$1,004	N/A	N/A	N/A	\$1,012
Number of Terminated Vested	N/A	3,550	N/A	2,545	N/A	1,566	N/A	N/A	N/A	733
Number of Terminated, Not Vested	N/A	4,232	N/A	3,553	N/A	2,717	N/A	N/A	N/A	1,461
Number of Retirees and Beneficiaries	N/A	1,042	N/A	622	N/A	269	N/A	N/A	N/A	27
Total Annual Benefits	N/A	\$5	N/A	\$3	N/A	\$1	N/A	N/A	N/A	\$0
<b>Assumptions</b>										
Valuation Interest Rate	N/A	8.00%	N/A	8.00%	N/A	5.90%	N/A	N/A	N/A	N/A
Salary Increase	N/A	6.20%	N/A	6.20%	N/A	3.40%	N/A	N/A	N/A	N/A
Inflation <sup>3</sup>	N/A	3.50%	N/A	3.50%	N/A	3.50%	N/A	N/A	N/A	N/A
Growth in Membership	N/A	1.25%	N/A	1.25%	N/A	0.94%	N/A	N/A	N/A	N/A
<b>Actuarial Experience</b>										
Return on Market Value	N/A	15.12%	N/A	(6.26%)	N/A	(8.66%)	N/A	N/A	N/A	N/A
Return on Actuarial Value	N/A	1.30%	N/A	2.90%	N/A	2.50%	N/A	N/A	N/A	N/A
Salary Increase	N/A	5.80%	N/A	6.30%	N/A	3.40%	N/A	N/A	N/A	N/A
Inflation	N/A	1.81%	N/A	3.55%	N/A	3.75%	N/A	N/A	N/A	N/A
Growth in Membership	N/A	(1.16%)	N/A	2.99%	N/A	1.30%	N/A	N/A	N/A	N/A
COLA <sup>4</sup>	N/A	3.00%	N/A	3.00%	N/A	3.00%	N/A	N/A	N/A	N/A

Note: See footnotes at the end of this section



## Historical Data

(Continued)

LEOFF	2003		2002		2001 <sup>1</sup>		2000		1999	
	Plan 1	Plan 2	Plan 1	Plan 2	Plan 1	Plan 2	Plan 1	Plan 2	Plan 1	Plan 2
	(\$ in millions)		(\$ in millions)		(\$ in millions)		(\$ in millions)		(\$ in millions)	
<b>Contribution Information</b>										
Employer Rate	0.00%	4.32%	0.00%	3.84%	0.00%	3.03%	0.00%	2.41%	0.00%	3.46%
State Rate	0.00%	2.88%	0.00%	2.57%	0.00%	2.02%	0.00%	1.61%	0.00%	2.31%
Employee Rate	0.00%	7.20%	0.00%	6.41%	0.00%	5.05%	0.00%	4.02%	0.00%	5.77%
<b>Funded Status</b>										
Credited Projected Liability	\$4,282	\$2,194	\$4,265	\$1,937	\$4,160	\$1,668	\$4,010	\$1,528	\$4,136	\$1,408
Market Value of Assets	\$4,380	\$2,541	\$4,060	\$2,136	\$4,578	\$2,210	\$5,260	\$2,378	\$5,460	\$2,288
Actuarial Value of Assets	\$4,803	\$2,740	\$5,095	\$2,646	\$5,369	\$2,576	\$5,440	\$2,459	\$5,150	\$2,163
Unfunded Liability	(\$521)	(\$547)	(\$830)	(\$709)	(\$1,209)	(\$907)	(\$1,430)	(\$931)	(\$1,014)	(\$755)
Funded Ratio	112.18%	124.91%	119.45%	136.62%	129.00%	154.00%	136.00%	161.00%	125.00%	154.00%
<b>Participant Data</b>										
Number of Actives	991	14,560	1,147	14,011	1,315	13,585	1,499	13,133	1,743	12,713
Total Annual Salaries	\$71	\$967	\$80	\$902	\$87	\$831	\$95	\$780	\$106	\$725
Number of Terminated Vested	14	439	22	376	29	303	31	248	40	216
Number of Terminated, Not Vested	84	1,186	90	1,137	94	1,051	92	940	93	875
Number of Retirees and Beneficiaries	8,054	316	7,987	244	7,894	184	7,780	143	7,623	100
Total Annual Benefits	\$270	\$5	\$262	\$3	\$248	\$2	\$235	\$2	\$221	\$1
<b>Assumptions</b>										
Valuation Interest Rate	8.00%	8.00%	8.00%	8.00%	5.90%	5.90%	8.00%	8.00%	7.50%	7.50%
Salary Increase	5.90%	7.70%	4.50%	7.80%	4.40%	5.80%	4.00%	4.00%	4.00%	4.00%
Inflation <sup>3</sup>	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
Growth in Membership	1.25%	1.25%	1.25%	1.25%	0.94%	0.94%	1.25%	1.25%	1.25%	1.25%
<b>Actuarial Experience</b>										
Return on Market Value	15.00%	15.13%	(5.88%)	(6.31%)	(9.65%)	(9.77%)	0.49%	0.37%	18.34%	18.54%
Return on Actuarial Value	(0.50%)	0.60%	(0.30%)	0.10%	2.10%	2.00%	10.20%	9.80%	17.00%	16.60%
Salary Increase	2.90%	4.80%	4.40%	7.00%	2.50%	4.60%	2.50%	5.90%	3.90%	3.90%
Inflation	1.81%	1.81%	3.55%	3.55%	3.75%	3.75%	3.10%	3.10%	2.63%	2.63%
Growth in Membership	2.59%	2.59%	1.73%	1.73%	1.83%	1.83%	1.22%	1.22%	4.33%	4.33%
COLA <sup>4</sup>	1.81%	3.00%	3.55%	3.00%	3.75%	3.00%	3.10%	3.00%	2.63%-3%	2.63%-3%

Note: See footnotes at the end of this section

**Historical Data**

(Continued)

WSP	2003		2002		2001 <sup>1</sup>		2000		1999	
	Plan 1	Plan 2	Plan 1	Plan 2	Plan 1	Plan 2	Plan 1	Plan 2	Plan 1	Plan 2
	(Dollars in millions)									
<b>Contribution Information</b>										
Employer Rate	4.51%	4.51%	0.00%	N/A	0.00%	N/A	0.00%	N/A	0.00%	N/A
Employee Rate	4.51%	4.51%	2.00%	N/A	2.00%	N/A	2.00%	N/A	7.00%	N/A
<b>Funded Status</b>										
Credited Projected Liability	\$540	N/A	\$508	N/A	\$483	N/A	\$468	N/A	\$417	N/A
Market Value of Assets	\$608	N/A	\$551	N/A	\$608	N/A	\$688	N/A	\$702	N/A
Actuarial Value of Assets	\$664	N/A	\$689	N/A	\$712	N/A	\$712	N/A	\$622	N/A
Unfunded Liability	(\$124)	N/A	(\$180)	N/A	(\$229)	N/A	(\$244)	N/A	(\$246)	N/A
Funded Ratio	122.99%	N/A	135.49%	N/A	147.00%	N/A	152.00%	N/A	159.00%	N/A
<b>Participant Data</b>										
Number of Actives	1,045	34	1,035	N/A	1,027	N/A	1,013	N/A	968	N/A
Total Annual Salaries	\$65	\$1	\$63	N/A	\$60	N/A	\$58	N/A	\$56	N/A
Number of Terminated Vested	32	0	33	N/A	26	N/A	21	N/A	15	N/A
Number of Terminated, Not Vested	20	0	17	N/A	14	N/A	12	N/A	9	N/A
Number of Disabled Members <sup>5</sup>	61	0	62	N/A	63	N/A	63	N/A	67	N/A
Number of Retirees and Beneficiaries	735	0	718	N/A	696	N/A	672	N/A	647	N/A
Total Annual Benefits	\$25	\$0	\$24	N/A	\$22	N/A	\$20	N/A	\$19	N/A
<b>Assumptions</b>										
Valuation Interest Rate	8.00%	N/A	8.00%	N/A	5.90%	N/A	8.00%	N/A	7.50%	N/A
Salary Increase	7.00%	N/A	7.10%	N/A	5.10%	N/A	4.00%	N/A	4.00%	N/A
Inflation <sup>3</sup>	3.50%	N/A	3.50%	N/A	3.50%	N/A	3.50%	N/A	3.50%	N/A
Growth in Membership	1.25%	N/A	1.25%	N/A	0.94%	N/A	1.25%	N/A	1.25%	N/A
<b>Actuarial Experience</b>										
Return on Market Value	15.03%	N/A	(5.99%)	N/A	(9.68%)	N/A	0.46%	N/A	18.36%	N/A
Return on Actuarial Value	(0.20%)	N/A	(0.20%)	N/A	2.10%	N/A	10.10%	N/A	16.90%	N/A
Salary Increase	3.90%	N/A	5.20%	N/A	3.90%	N/A	3.80%	N/A	7.20%	N/A
Inflation	1.81%	N/A	3.55%	N/A	3.75%	N/A	3.10%	N/A	2.63%	N/A
Growth in Membership	4.25%	N/A	0.78%	N/A	1.38%	N/A	4.65%	N/A	4.20%	N/A
COLA <sup>4</sup>	3.00%	N/A	3.00%	N/A	3.00%	N/A	2.00%	N/A	2.00%	N/A

Note: See footnotes at the end of this section

Footnotes for Historical Data Section

<sup>1</sup>For the 2001 valuation, the salary, interest, and growth rates were not annualized. They reflect the actual valuation period of nine months (15 months for TRS).

<sup>2</sup>Plan 3 members do not contribute to the defined benefit plan

<sup>3</sup>Based on the assumption for prior year's CPI: Urban Wage Earners & Clerical Workers, Seattle-Tacoma-Bremerton, WA - All Items

<sup>4</sup>PERS 1 & TRS 1 are paid a Uniform COLA. Amounts are \$/month/year of service. Two gain sharing payments were made: \$0.10 on 7/1/1998, and \$0.28 on 1/1/2000.

LEOFF 1 COLA is exactly the CPI. All others are based on the CPI (3% maximum per year).

<sup>5</sup>WSP Disability Benefits are provided outside of pension funds

## Glossary

**Actuarial accrued liability:** Computed differently under different funding methods, the actuarial accrued liability generally represents the portion of the present value of fully projected benefits attributable to service credit that has been earned (or accrued) as of the valuation date.

**Actuarial gain or loss:** Experience of the plan, from one year to the next, which differs from that assumed will result in an actuarial gain or loss. For example, an actuarial gain would occur if assets earned 10% for a given year since the assumed interest rate in the valuation is 8%.

**Actuarial value of assets:** The value of pension plan investments and other property used by the actuary for the purpose of an actuarial valuation (sometimes referred to as valuation assets). It is common for actuaries to select an actuarial valuation method that smoothes the effects of short-term volatility in the market value of assets.

**Normal cost:** Computed differently under different funding methods, the normal cost generally represents the portion of the cost of projected benefits allocated to the current plan year. The employer normal cost is the total normal cost of the plan reduced by employee contributions.

**Present value of credited projected benefits:** The actuarial accrued liability computed under the Projected Unit Credit (PUC) funding method.

**Present value of fully projected benefits:** Computed by projecting the total future benefit cash flow from the plan, using actuarial assumptions (i.e., probability of death, retirement, salary increases, etc.), and then discounting the cash flow to the valuation date using the valuation interest rate.

**Projected Unit Credit (PUC) Funding Method:** The PUC funding method is a standard actuarial funding method. The annual cost of benefits under PUC is comprised of two components:

- Normal cost; plus
- Amortization of the unfunded actuarial accrued liability.

The PUC normal cost is the estimated present value of projected benefits to be earned in the current plan year.

**Unfunded actuarial accrued liability:** The excess, if any, of the actuarial accrued liability over the actuarial value of assets. In other words, the present value of benefits earned to date that are not covered by plan assets.