OREGON PERS Preliminary Results of the 2003 Actuarial Valuation

A MILLIMAN GLOBAL FIRM



Draft System-wide Results

- Final Peer Review in Progress
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In January

- Final System-wide Report
- Employer Rates (expected to be completed)





- System-wide Results
 - Normal Cost Rate is stable
 - Significant investment gains, but
 - 75% of 2003 gains deferred
 - 25% more of 2000-02 losses recognized
- Revisions to Assumptions and Methods
 - Significant impact
 - Shortened expectation of time frame for Tier One interest credits to begin again



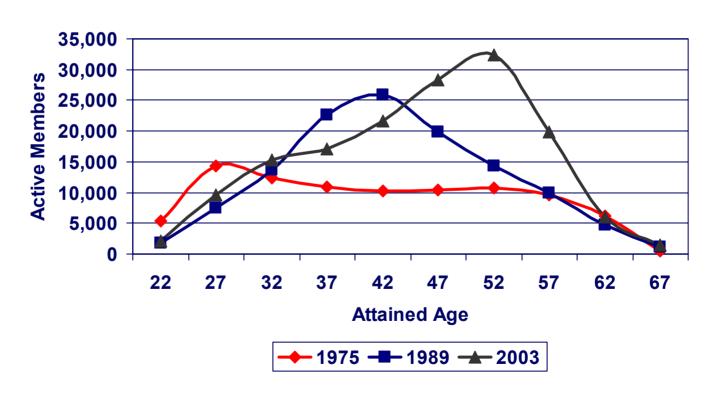
Membership

Active Members	2003	2002
	<u>Census</u>	<u>Census</u>
State Agencies	47,085	48,800
School Districts	60,897	63,604
Local Agencies	45,559	46,707
Judiciary	182	176
Total Active Members	153,723	159,287
Percent Tier Two	47%	43%



Age Wave

Active Membership





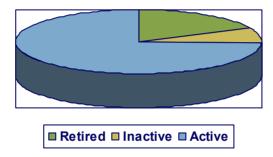
Membership

2003 <u>Census</u>	2002 <u>Census</u>
85,123	77,460
8,535	8,046
638	609
<u>3,481</u>	<u>3,367</u>
97,777	89,482
52,854	53,328
<u>153,723</u>	<u>159,287</u>
304,354	302,097
	Census 85,123 8,535 638 3,481 97,777 52,854 153,723

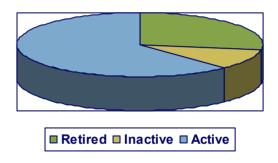


Shift in Membership

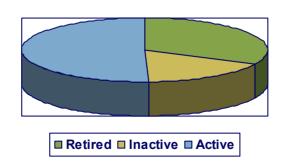
Members in 1975



Members in 1989



Members in 2003



Increasing Percentage of Retired and Inactive Members over Time



Normal Cost Rate

System Results	2003	2002	2001
Retirement	11.69%	11.66%	11.63%
Disability	0.72	0.72	0.71
Total Pension	12.41%	12.38%	12.34%
Total Healthcare	<u>0.19</u>	0.23	0.23
All Benefits	12.60%	12.61%	12.57%
Change in NCR	(0.01%)	0.04%	



Note: Revisions in assumptions were adopted by the Board for the 2003 Actuarial Valuation. These revisions had a minor impact on the Normal Cost Rates.

Pension Asset Gain (Loss)

(\$millions) System Results	Expected Fair Value	Actual Fair Value
January 1, 2003	\$ 32,224.4	\$ 32,224.4
Contributions LS Account Amortization Benefits Net Investment Return December 31, 2003	966.4 97.2 (2,371.8) <u>2,521.7</u> \$ 33,437.9	966.4 97.2 (2,371.8) <u>8,212.4</u> \$ 39,128.6

2003 Net Investment Gain (Loss)

\$ 5,690.7

Excludes impact of Unamortized Lump Sum Accounts



Asset Smoothing Reserve

System Results - Pension Benefits		(\$millions)	
li	nvestment	Reserve	Smoothing
C.	Pain (Loss)	Factor	Reserve

2001	\$ (5,858.4)	25%	\$ (1,464.6)
2002	(6,347.3)	50%	(3,173.7)
2003	5,690.7	75%	4,268.1

Preliminary Smoothing Reserve \$ (370.2)

Subject to the 90%/110% corridor limitation around FMV, the investment gains and losses in the Asset Smoothing Reserve will be deferred now, but recognized in future actuarial valuations.



Actuarial Value of Assets

System Results - Pension Benefits	(\$millions)	
Fair Market Value December 31, 2003 Unamortized Lump Sum Accounts	\$ 43,604.0 (4,475.4)	
Asset Smoothing Reserve	370.2	
Actuarial Value December 31, 2003	\$ 39,498.8	
Contingency Reserves	(787.9)	
Capital Preservation Reserve	(432.9)	
Total Excluded Reserves	(1,220.8)	

Actuarial Value of Pension Assets

Actuarial Value as a Percentage of Fair Value



\$ 38,278.0

101.0%

Actuarial Liabilities Pension Benefits

(\$billions)

System Results	2003	2002	2001
Projected Benefits			
Retirees	\$ 23.6	\$ 19.3	\$ 17.0
Inactive	3.8	3.7	3.4
Actives	23.0	22.4	23.2
Total PVPB	\$ 50.4	\$ 45.4	\$ 43.6
Less Future Normal Costs	(6.3)	(6.5)	(6.3)
Actuarial Liability	\$ 44.1	\$ 38.9	\$ 37.3



Funded Status Pension Benefits

System Results	2003	2002	2001
Actuarial Liability	\$ 44.1	\$ 38.9	\$ 37.3
Actuarial Value of Assets	<u>38.3</u>	<u>35.4</u>	<u>39.8</u>
Unfunded AL	\$ 5.8	\$ 3.5	\$ (2.5)
Funded Ratio	86.8%	91.0%	106.7%



Funded Status Healthcare Subsidies

(\$b	illi	ons)
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System Results	2003	2002	2001
Actuarial Liability	\$ 0.5	\$ 0.6	\$ 0.6
Actuarial Value of Assets	<u>0.1</u>	0.1	<u>0.1</u>
Unfunded AL	\$ 0.4	\$ 0.5	\$ 0.5
Funded Ratio	22.1%	15.7%	14.1%



Funded Status All Benefits

(\$billions)	
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System Results	2003	2002	2001
Actuarial Liability	\$44.6	\$39.5	\$37.9
Actuarial Value of Assets	<u>38.4</u>	<u>35.5</u>	<u>39.9</u>
Unfunded AL	\$ 6.2	\$ 4.0	\$ (2.0)
Funded Ratio	86.0%	89.9%	105.4%





- Lump Sum deposits to PERS
 - Lowers the UAL for individual employers
- Direct Reduction to UAL
 - Offset to Transition Liability (TL) in a rate pool
 - Offset to UAL for independently rated employers
- LS Accounts = Additional Employer Asset
 - Treated as an advance to future contributions
 - Not allocated to other employers
 - In excess of TL for pooled employers



Value of LS Accounts

(\$millions)	Deposits	Value on <u>12/31/03</u>
LS Deposits in 2003		
State Agencies	\$ 2,000.0	\$ 2,140.8
Community Colleges	270.2	312.6
School Districts	916.4	1,082.3
Total Side Funds	\$ 3,186.6	\$ 3,535.7
LS Deposits in 2002		
School Districts	\$ 765.3	\$ 920.7
Other Employers	<u> 18.7</u>	19.0
Total Side Funds	\$ 784.0	\$ 939.7

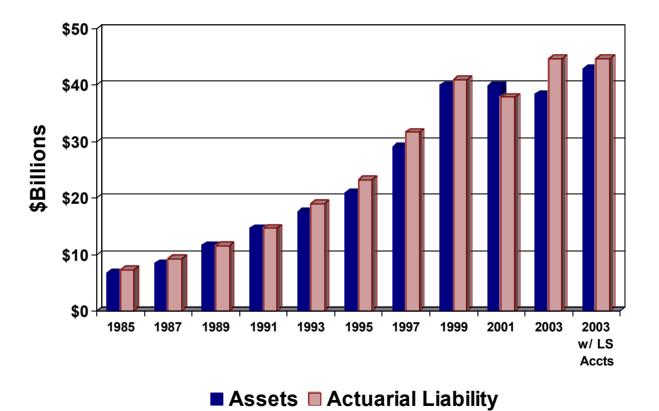


Funded Status All Benefits with LS Accounts

(\$billions) System Results	2003	2002	2001
Actuarial Liability	\$44.6	\$39.5	\$37.9
Actuarial Value of Assets	<u>42.9</u>	<u>36.3</u>	<u>39.9</u>
Unfunded AL	\$ 1.7	\$ 3.2	\$ (2.0)
Value of LS Accounts	\$ 4.5	\$ 0.8	\$ 0.0
Funded Ratio			
without LS Accounts	86.0%	89.9%	105.4%
with LS Accounts	96.1%	91.9%	105.4%



System Funded Status





Valuation Rates

- Employer Contribution Rates
 - Normal Cost plus Amortization
 - No individual calculations yet
- Amortization of Unfunded Actuarial Liability
 - 24 years from valuation date
 - Continues path from 30 to 20 years by 2007



Average Employer Rate without UAL Lump Sum Accounts

System Results	2003	2002	2001
Pension			
Normal Cost	12.39%	12.36%	12.32%
Amortization	5.88	3.30	(2.36)
Total	18.27%	15.66%	9.96%
Healthcare			
Normal Cost	0.19%	0.23%	0.23%
Amortization	0.43	0.46	0.45
Total	0.62%	0.69%	0.68%
Total Average Rate	18.89%	16.35%	10.64%



Change in Rate

2001 Average Employer Rate	16.48%
2003 PERS Reform	<u>(5.84)</u>
2001 Average Employer Rate after Leg.	10.64%
(Gains) Losses during 2002 (Gains) Losses during 2003	5.71 2.54
2003 Average Employer Rate	18.89%
LS Accounts (deposited in 2002 and 2003)	<u>(4.54)</u>
Including Impact of UAL Accounts	14.35%



(Gain) or Loss in Rates Estimated by Cause

Close to Predictions

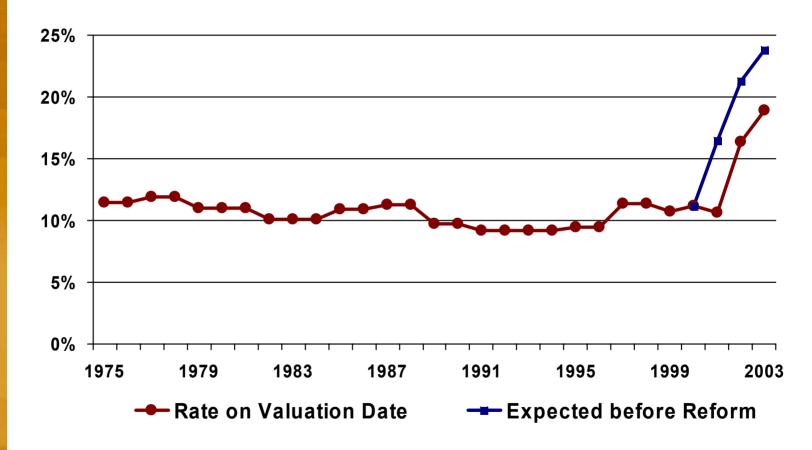
		4.37%
_	Contingency Reserves	<u>1.21</u>
_	2003 Valuation Investment Gain	(2.55)
_	2002 Valuation Net Loss	5.71%

Other Changes

_	2003 Demographic Loss	1.01%
_	Lipscomb Benefit Changes	(0.04)
_	Shortened Tier 1 Regular Interest Deferral	2.44
_	Variable Account Data and Assumptions	0.98
_	All Other Assumption Changes	<u>(0.51)</u>
		3 88%



History of Employer Rates without LS Accounts





Employer Rate Options

- Authority for Setting Rates
 - Rests with Board
- Board Options
 - Adopt entire increase as of July 1, 2005
 - Look at alternative implementation schedules
 - Increase more than expected
 - Asset returns smoothed but impact of asset returns on liabilities is not smoothed
 - For example: 2/3rd on July 1, 2005
 1/3rd on July 1, 2007



Remaining Assignments

- Employer Details
 - PERS Employer Contribution Rates
 - Normal Cost Rates
 - Amortization Schedule (dollars)
 - OPSRP Contribution Rates
 - GASB disclosures
- Final Valuation Reports
 - System Wide Report
 - Employer Rates Supplemental Report

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