



OHIO PUBLIC EMPLOYEES RETIREMENT SYSTEM

ANNUAL ACTUARIAL VALUATION OF DEFINED BENEFIT ALLOWANCES TRADITIONAL AND COMBINED PLANS DECEMBER 31, 2004

GABRIEL, ROEDER, SMITH & COMPANY

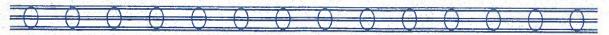


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August 29, 2005

The Retirement Board Ohio Public Employees Retirement System Columbus, Ohio

Ladies and Gentlemen:

The results of the *December 31, 2004 annual actuarial valuation* of the Ohio Public Employees Retirement System, based upon Chapter 145 of the Code as amended, are presented in this report. (The gain/loss analysis of experience and projections of retiree health and Medicare are covered in separate reports.) The purpose of the valuation is to measure the system's funding progress and to determine employer contribution rates for the period beginning January 1, 2006 in accordance with established funding policy.

The individual member statistical data required for the valuations was furnished by your Executive Director and Staff, together with pertinent data on financial operations. Their cooperation in furnishing these materials is acknowledged with appreciation.

The actuarial assumptions used in the valuations are summarized in Section IX of this report. The assumptions are established by the Retirement Board after consulting with the actuary.

The valuation was completed in accordance with standards of practice prescribed by the Actuarial Standards Board and in conformance with Chapter 145 of the Revised Code of Ohio. To the best of our knowledge this report is complete and accurate and the actuarial methods and assumptions produced results which are reasonable.

Respectfully submitted,

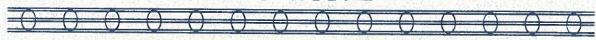
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Norman L. Jones, F.S.A. Brian B. Murphy, F.S.A.

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SECTION I



Executive Summary

INTRODUCTION

Section 145.22 of the Revised Code of Ohio (ORC) provides in part as follows:

"(A) The public employees retirement board shall have prepared annually by or under the supervision of an actuary an actuarial valuation of the pension assets, liabilities, and funding requirements of the public employees retirement system as established pursuant to this chapter."

This report presents the results of the December 31, 2004 annual actuarial valuation of the Ohio Public Employees Retirement System (OPERS) Defined Benefit Allowances of the Traditional and Combined Plans. In conjunction with Chapter 145 of the ORC, the purposes of performing the annual valuation are as follows:

- Measure the financial position of OPERS,
- Assist the Board in establishing employer and employee contribution rates necessary to fund the pension defined benefits provided by OPERS,
- Determine the number of years required to amortize the unfunded actuarial accrued liabilities based upon established contribution rates,
- Provide actuarial reporting and disclosure information for the System's financial report, and
- Analyze the experience of the System over the past year.

The report is presented as follows:

Section I - Executive Summary
Section II - Financial Information

Section III - Benefits and Conditions Evaluated

Section IV - Recommendations for Reserve Transfers

Section V - Active and Inactive Vested Valuation Results for State

Section VI - Active and Inactive Vested Valuation Results for Local Government

Section VII - Active and Inactive Vested Valuation Results for Law Section VIII - Allowances Being Paid to Retirees and Beneficiaries

Section IX - Actuarial Methods and Assumptions

Section X - Financial Principles

Section XI - Governmental Accounting Standards Board (GASB) Reporting

There have been no material benefit changes since the last valuation. Actuarial assumptions and methods are consistent with the prior actuarial valuation with the exception that the funding value of defined benefit (DB) pension assets is now developed independently from the funding value of retiree health assets. Based upon recommendations resulting from the Actuarial Audit performed after last year's valuation, and meetings with OPERS Staff, we have incorporated some changes in the design and layout of the valuation report which we believe add to its readability.

A summary of the primary valuation results as of December 31, 2004 is presented on the following page.

SUMMARY OF PENSION DEFINED BENEFIT VALUATION RESULTS DECEMBER 31 (\$ IN MILLIONS)

		200	4		2003
	State	Local	Law	Total	Total
A. Demographic Information					
1. Active Number Counts					
a. Traditional Plan	108,885	233,777	8,173	350,835	350,022
b. Combined Plan	1,322	3,130	Ω	4,452	3,562
c. Total 2. Active Payroll	110,207	236,907	8,173	355,287	353,584
a. Traditional Plan	4 117	C 002	202		\$6
b. Combined Plan	4,117 <u>48</u>	6,803 <u>93</u>	393	11,313	11,057
c. Total	4,165	6,896	Q 393	141 11,454	108 11,165
3. Retired Number Counts	52,639	93,624	3,033	149,296	145,263
4. Deferred / Inactive Number Counts	84,008	190,255	696	274,959	267,404
5. Member Directed Active Number Counts	1.496	3.100	Q	4.596	3,611
6. Total Number Counts	248,350	523,886	11,902	784,138	769,862
B. Defined Benefit Assets				701,130	703,802
1. Market Value (MV)	21,456	20 120	1.000	52.556	42.24
2. Rate of Return on MV	21,430	30,138	1,982	53,576 12.19%	48,241 24.79%
3. Funding Value (FV)	20,205	28,380	1,867	50,452	46,745
4. Rate of Return on FV		·	,	9.08%	7.93%
5. Ratio of FV to MV				94.2%	96.9%
C. Defined Benefit Actuarial Results					**
1. Normal Cost as a % of Payroll	14.67%	14.57%	18.72%	14.75%	14.33%
2. Actuarial Accrued Liability (AAL)					- 1.55 / 6
a. Active	11,747	17,315	1,181	30,243	29,409
b. Retired	10,541	14,158	999	25,698	23,728
c. Deferred/Inactive	<u>694</u>	<u>953</u>	16	1,663	1.636
d. Total	22,982	32,426	2,196	57,604	54,773
3. Unfunded AAL (UAAL)	2,777	4,046	329	7,152	8,028
4. Funded Ratio	87.9%	87.5%	85.0%	87.6%	85.3%
D. Contribution Rates		CY 20	D6		CY 2005
1. Pension Contributions					
a. Employer Normal Cost	5.67%	5.57%	8.63%	5.71%	5.78%
b. Member Contribution Rate	9.00%	9.00%	10.09%	9.04%	8.55%
c. UAAL Contribution Rate d. Total	3.37%	3.63%	3.80%	3.54%	3.79%
2. Retiree Health Contribution Rate	18.04%	18.20%	22.52%	18.29%	18.12%
3. Total Employer Contribution Rate	4.50%	4.50%	4.50%	4.50%	4.00%
	13.54%	13.70%	16.93%	13.75%	13.57%
E. Amortization Years to Fully Amortize UAAL *	27	21	41	24	29

^{*} Based on HCPP schedule of employer and member contribution rates. For GASB purposes, amortization years are determined differently. See page XI-4 for additional explanation.

COMMENTS

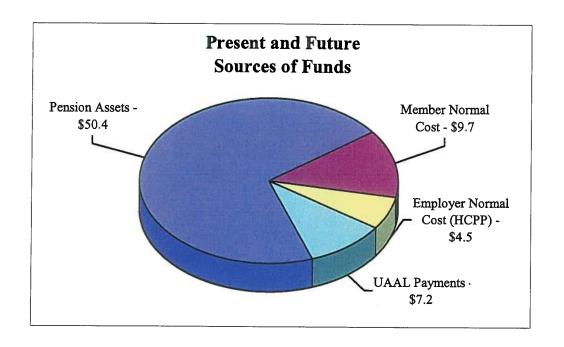
The December 31, 2004 actuarial valuations of members indicate the following about the portion of employer contribution rates allocated to financing retirement allowances:

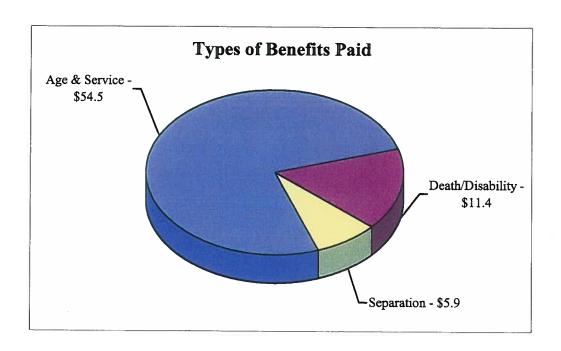
- The employer rates are sufficient to fully fund the cost of benefit commitments being made to members for service currently being rendered.
- After satisfying current cost requirements, the remaining portion of the employer rates provides sufficient funds to amortize unfunded actuarial accrued liabilities over a period of 27 years for the System in total.

Experience. The computed amortization period, taking into account Health Care Preservation Plan (HCPP) scheduled increases in contribution rates is 24 years, compared with the 29 year period that had been reported in the December 31, 2003 valuation. This result was partly due to favorable investment experience for the year ended December 31, 2004 and partly due to favorable pay increase experience. Measured on a market value basis, investment return was over 12%. The Market Value of Assets currently exceeds the Funding Value by \$3.1 Billion. Additional information concerning 2004 experience including other sources of gains and losses will be presented in a separate report of gain/loss experience.

Conclusion. Based on the results of the December 31, 2004 regular annual actuarial valuation, it is our opinion that the Ohio Public Employees Retirement System continues to be in sound financial condition in accordance with actuarial principles of level percent of payroll financing.

FINANCING \$71.8 BILLION* OF DEFINED BENEFIT PROMISES FOR PRESENT ACTIVE AND RETIRED MEMBERS DECEMBER 31, 2004 (DOLLAR AMOUNTS IN BILLIONS)





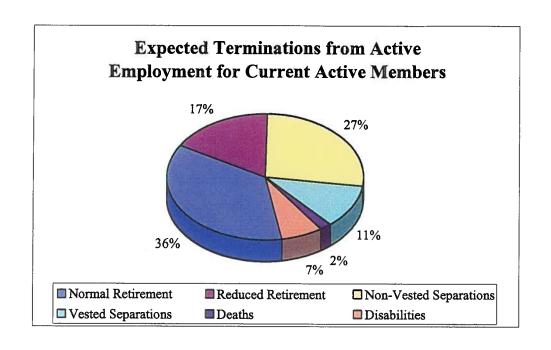
* Present value of future benefits – all divisions combined.

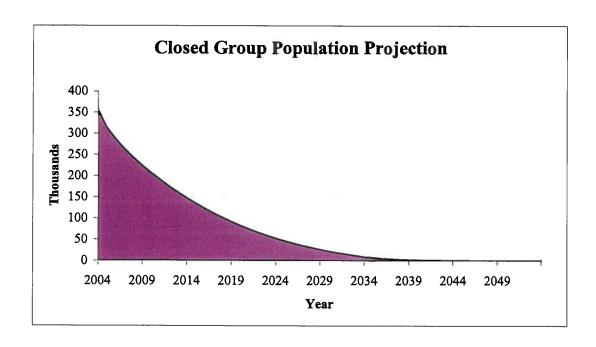
DEFINED BENEFIT ACTIVE MEMBERS IN VALUATION GROUP AVERAGES - COMPARATIVE STATEMENT

Valuation Group	D 21	No. of Active	A		p Averages		
	D 21	TACLITC	Attained	Accrued	Ann	ual Payroll	
	Dec. 31	Members	Age	Service Yrs.	Average	Increa	ase
STATE	1975	83,220	40.6 yrs.	6.5 yrs.	\$ 9,441	6.4 %	@
	1980	92,872	39.4	7.3	13,934	8.1 %	@
	1985	89,256	39.2	8.4	18,677	7.4 %	@
	1990	98,939	40.7	8.1	25,281	6.2 %	@
	1995	114,596	40.4	8.8	27,962	2.0 %	@
	2000	113,099	41.6	9.7	34,201	4.1 %	
	2001	109,219	42.1	10.2	36,589	7.0 %	
	2002	110,017	42.0	10.2	37,531	2.6 %	
	2003	108,249	42.2	10.3	37,679	0.4 %	
	2004	110,207	42.2	10.3	37,794	0.3 %	
LOCAL GOVT	1975	149,557	40.8 yrs.	6.1 yrs.	\$ 8,771	4.3 %	@
	1980	160,797	40.7	7.4	13,035	8.2 %	@
	1985	158,285	40.1	8.3	15,983	6.2 %	@
	1990	173,220	41.5	7.9	19,506	4.1 %	@
	1995	223,431	41.2	7.6	20,384	0.9 %	@
	2000	245,831	41.8	8.1	24,401	3.7 %	
	2001	243,202	42.2	8.4	26,526	8.7 %	
	2002	247,377	42.2	8.3	27,171	2.4 %	
	2003	237,082	42.8	8.9	28,269	4.0 %	
	2004	236,907	43.1	9.0	29,110	3.0 %	
LAW	1975	2,111	35.0 yrs.	4.9 yrs.	\$ 10,467	-	
	1980	3,019	36.1	6.8	16,846	10.0 %	@
	1985	4,207	36.5	8.4	20,103	5.5 %	@
	1990	5,804	38.6	9.9	26,936	6.0 %	@
	1995	6,605	39.3	11.1	32,441	3.2 %	@
	2000	8,045	39.3	11.7	40,387	4.5 %	
	2001	7,892	39.3	11.8	42,503	5.2 %	
	2002	8,030	39.4	12.0	44,420	4.5 %	
	2003	8,253	39.6	12.2	46,576	4.9 %	
	2004	8,173	39.7	12.4	48,045	3.2 %	
TOTAL	2003	353,584	42.5 yrs.	9.4 yrs.	\$ 31,577	-	
	2004	355,287	42.7	9.5	32,240	2.1 %	

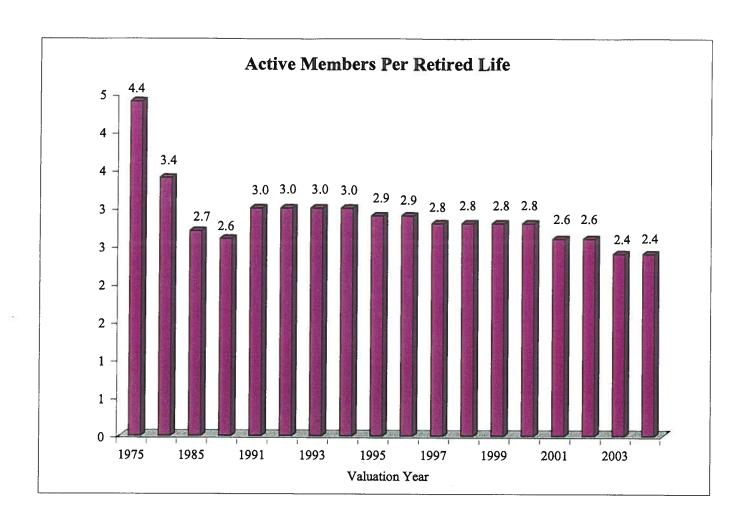
^{@ 5-}year annual compound rate.

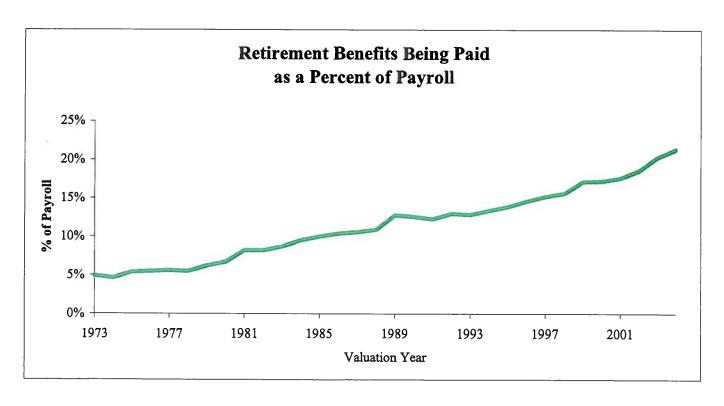
DEVELOPMENT OF PRESENT DEFINED BENEFIT POPULATION DECEMBER 31, 2004



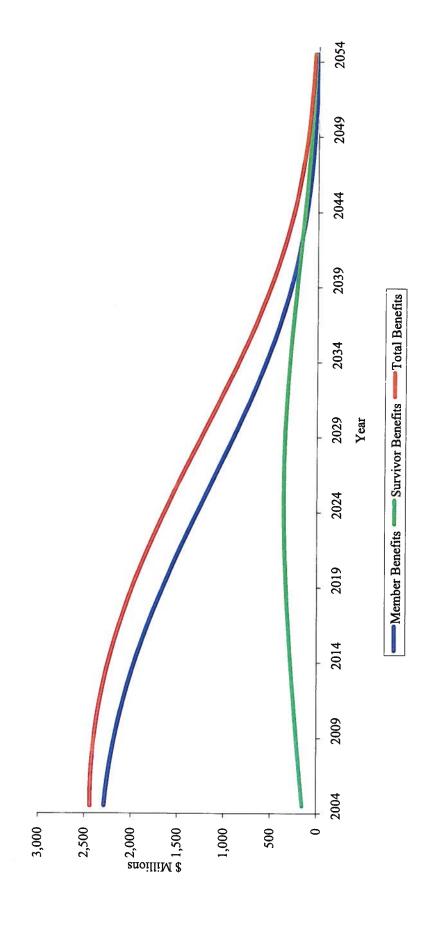


The charts show the expected future development of the present population in simplified terms. The defined benefit portion of the retirement system presently covers 355,287 active members. Eventually, 27% of the population is expected to terminate covered employment prior to retirement and forfeit eligibility for a monthly benefit. 64% of the present population is expected to receive monthly retirement benefits either by retiring directly from active service, or by separating from service without withdrawing contributions. 9% of the present population is expected to become eligible for death-in-service or disability benefits. Within 9 years, over half of the covered membership is expected to consist of new hires.





PROJECTED FUTURE BENEFIT PAYMENTS ON BEHALF OF PRESENT RETIRED LIVES



Total future payments: \$62.9 billion From present assets: \$25.7 billion From future earnings: \$37.2 billion

ALL DIVISIONS DEFINED BENEFIT ACTIVE MEMBERS IN VALUATION DECEMBER 31, 2004

BY ATTAINED AGE AND YEARS OF SERVICE

ttained				Service To Valua				
Ages	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total
15-19	12,816							12,816
ot. Pay	\$76,166,126							\$76,166,126
vg. Pay	\$5,943	1						\$5,943
20-24	26,509	486		i				
ot. Pay	\$323,065,359	\$9,902,930						26,995
vg. Pay	\$12,187	\$20,376						\$332,968,289
v g. 1 ay	\$12,107	\$20,570						\$12,334
25-29	21,375	5,164	170					26,709
ot. Pay	\$501,858,715	\$173,080,545	\$5,489,237					\$680,428,497
vg. Pay	\$23,479	\$33,517	\$32,290					\$25,476
30-34	16,877	11,735	3,748	111				32,471
ot. Pay	\$434,858,629	\$439,993,767	\$150,628,693	\$4,108,445				\$1,029,589,534
vg. Pay	\$25,766	\$37,494	\$40,189	\$37,013]			\$31,708
35-39	14,610	10,425	9,224	3,653	131			38,043
ot. Pay	\$371,333,403	\$394,634,059	\$403,994,288	\$157,889,186	\$5,696,486			\$1,333,547,422
.vg. Pay	\$25,416	\$37,855	\$43,798	\$43,222	\$ 43,485		;	\$35,054
40-44	14,568	10,001	8,805	9,143	4,172	433		47,122
ot. Pay	\$352,387,912	\$358,957,058	\$372,600,237	\$429,552,278	\$192,291,801	\$19,800,476		\$1,725,589,762
.vg. Pay	\$24,189	\$35,892	\$42,317	\$46,982	\$46,091	\$45,729		\$36,620
45-49	13,601	10,016	8,503	8,333	7,745	5,687	227	54,112
ot. Pay	\$318,294,871	\$344,291,785	\$342,857,452	\$379,776,429	\$385,727,511	\$273,242,339	\$11,215,022	\$2,055,405,409
.vg. Pay	\$23,402	\$34,374	\$40,322	\$45,575	\$49,803	\$48,047	\$49,405	\$37,984
50-54	11,080	8,229	7,976	7,327	6,163	7,126	2,183	50,084
ot. Pay	\$256,729,216	\$279,622,996	\$307,236,660	\$323,710,214	\$300,119,499	\$376,190,571	\$117,733,161	\$1,961,342,317
wg. Pay	\$23,171	\$33,980	\$38,520	\$44,180	\$48,697	\$52,791	\$53,932	\$39,161
55-59	7,915	5,841	6,217	6,103	4,587	3,857	2,320	36,840
fot. Pay	\$172,025,003	\$187,134,539	\$233,986,782	\$254,576,206	\$213,574,233	\$196,064,070	\$134,739,239	\$1,392,100,072
vg. Pay	\$21,734	\$32,038	\$37,637	\$41,713	\$46,561	\$50,833	\$58,077	\$37,788
60-64	4,036	3,095	2,843	2,932	2,206	1,648	931	17,691
Tot. Pay	\$66,842,535	\$88,711,643	\$100,434,813	\$118,425,321	\$94,694,538	\$77,867,058	\$52,319,933	\$599,295,841
vg. Pay	\$16,562	\$28,663	\$35,327	\$40,391	\$42,926	\$47,249	\$56,198	\$33,876
65-69	2,454	1,313	1,052	899	687	526	384	7,315
Tot. Pay	\$24,188,999	\$26,537,852	\$31,615,119	\$33,032,084	\$27,710,440	\$23,705,015	\$19,590,080	\$186,379,589
wg. Pay	\$9,857		\$30,052	\$36,743	\$40,335	\$45,067	\$51,016	\$25,479
3 8 0	2.00							
) & Over	2,091	1,107 \$12,091,012	664	442	288	229	268	5,089
Fot. Pay	\$15,031,184 \$7,189	\$12,091,012	\$12,002,797	\$12,238,800	\$9,402,955	\$8,770,098	\$11,958,621	\$81,495,467
			\$18,077	\$27,690	\$32,649	\$38,297	\$44,622	\$16,014
Totals	147,932	67,412	49,202	38,943	25,979	19,506	6,313	355,287
lot. Pay	\$2,912,781,952	\$2,314,958,186	\$1,960,846,078	\$1,713,308,963	\$1,229,217,463	\$975,639,627	\$347,556,056	\$11,454,308,325
vg. Pay	\$19,690	\$34,340	\$39,853	\$43,995	\$47,316	\$50,017	\$55,054	\$32,240

ALL DIVISIONS DEFINED BENEFIT ACTIVE MEMBERS IN VALUATION DECEMBER 31, 2004 BY GENDER AND YEARS OF SERVICE

Service	Ac	tive Member Cou	ınt	Active Mem	ber Pays
Years	Males	Females	Total	Total	Average
0	27,692	31,002	58,694	\$ 718,896,623	\$12,248
1	13,286	15,484	28,770	562,411,779	19,549
2	9,756	11,665	21,421	522,238,472	24,380
3	8,896	10,777	19,673	525,402,907	26,707
4	8,344	11,030	19,374	583,832,171	30,135
5	7,645	9,313	16,958	545,993,540	32,197
6	6,498	7,978	14,476	488,564,961	33,750
7	6,063	7,014	13,077	448,867,770	34,325
8	5,439	6,436	11,875	426,958,065	35,954
9	5,215	5,811	11,026	404,573,850	36,693
10	5,434	5,886	11,320	435,945,258	38,511
11	4,442	5,156	9,598	369,417,366	38,489
12	4,097	4,537	8,634	344,965,387	39,954
13	4,505	5,312	9,817	391,592,998	39,889
14	4,520	5,313	9,833	418,925,069	42,604
15 & Up	44,629	46,112	90,741	4,265,722,109	47,010
Totals	166,461	188,826	355,287	\$11,454,308,325	\$32,240

SECTION II O O O O O O O O O O O O O O O O Financial Information

FINANCIAL DATA FOR CALENDAR YEAR 2004 CONSOLIDATED ASSET RECONCILIATION ALL PLANS, ALL DIVISIONS

	Traditional Pension Plan	DB Portion of Combined Pension Plan #	of Total Pension in # Defined Benefit	401(h) Health Care	Member Directed VEBA	DC Portion of Combined Pension Plan #	Member Directed	Total Defined Contribution	Total 2004
Beginning Market Value @ 12/31/03 Assets Held in Tust for Benefits Assets Held for Upcoming Year Budget	\$48,149,453,128	\$ 8,709,455	55 \$48,158,162,582	\$ 10,813,803,450 \$	3,181,305	\$ 14,181,032	\$ 18,464,413	\$ 32,645,445	\$ 59,007,792,782
	\$ 48,239,335,328	\$ 8,709,455	\$ 48,2	\$ 10,813,803,450	3,181,305	\$ 14,181,032	\$ 18,464,413	\$ 32,645,445	\$ 59,097,674,982
External Cash Flows: Revenues: Member Contributions / Deposits Employer Contributions Retiree Paid Health Care Premiums Other Income / Cancelled Warrants	\$ 1,019,785,485 1,113,946,023 - (107,797)	1		%	5,856,183	\$ 11,395,507 3,377	\$ 10,148,602 10,051,013	\$ 21,544,109 10,054,390	\$ 1,041,342,350 1,606,120,210 58,877,753 (107,797)
Total Revenues	\$ 2,133,623,711	\$ 12,179,690	90 \$ 2,145,803,401	\$ 522,974,432 \$	5,856,183	\$ 11,398,884	\$ 20,199,615	\$ 31,598,498	\$ 2,706,232,515
Disbursements: Refunds of Member Accounts Retirement Benefits	\$ (207,121,143) (2,454,131,826)	٠. ·	\$ (207,121,143) (2,454,131,826)	۰,		\$ (601,042)	\$ (2,055,788)	\$ (2,656,830)	\$ (209,777,973) (2,454,131,826)
Retiree Faid Fost Retirement Health Care ER Paid Post Retirement Health Care				(58,877,753) (896,089,217)					(58,877,753)
ER Paid Post Retirement Medicare	•		•	ڪ	•		•		(67,295,184)
	(66,393,483)		(66,393,483)	- 1	(1,478,321)	(5,072,167)	(4,946,727)	(10,018,894)	(85,129,515)
isbursements	\$ (2,727,646,452)		\$ (2,727,646,452)	(1,029,500,970)	(1,478,321)	\$ (5,673,209)	\$ (7,002,516)	\$ (12,675,724)	\$ (3,771,301,467)
Net External Cash Flow	\$ (594,022,741) \$	\$ 12,179,690	(150,843,051)	\$ (506,526,539) \$	4,377,863	\$ 5,725,675	\$ 13,197,099	\$ 18,922,774	\$ (1,065,068,952)
Inter-Plan Activity Member Balance Transfers & Plan Switches DCP Fixed Assets Advanced by TP DCP Start up Costs	\$ 221,716 2,544,577	\$ 23,7	245,452 - 2,544,577	· · · ·	(251,887)	\$ (98,692) (1,279,716)	\$ (146,760) (1,012,974)	\$ (245,452) (2,292,690)	, , ,
Interest on 12/31/03 Advance Balance Income Applied to Advance (Loan) Balance	744,183	. (623.7	744,183		(50,185)	(300,506) 623.714	(393,492)	(693,998) 623.714	
•	\$ 3,510,475	\$ (599,978)	\$ 2		(302,072)	\$ (1,055,200)	\$ (1,553,226)	\$ (2,608,426)	-
Investment Income: Interest and Dividends Other Ordinary Investment Income	\$ 1,039,720,026	\$ 310,290	90 \$ 1,040,030,316	\$ 229,211,524	127,092	\$ 340,021	\$ 422,702	\$ 762,723	\$ 1,270,131,656
Realized Capital Value Changes	3,875,975,957	1.159,339			474.874	2.044,352	2.774.348	4.818.700	4.738.834.015
External Asset Management Fees	(61,689,596)	(11,248)		_	(7,542)	(45,172)	(15,258)	(60,430)	(70,078,088)
Kounding Investment Return	\$ 5,905,492,148	\$ 1,762,331	31 \$ 5,907,254,479	\$ 1,301,836,446	721,864	\$ 2,560,450	\$ 3,471,587	\$ 6,032,037	\$ 7,215,844,826
Ending Market Value @ 12/31/04	\$53,554,315,210	\$ 22,051,498	98 \$53,576,366,709	\$ 11,609,113,357	7,978,960	\$ 21,411,957	\$ 33,579,873	\$ 54,991,830	\$ 65,248,450,855

[#] The ending market values for the Combined Plan as shown in the December 31, 2003 Actuarial Valuation Report were \$1,638,722 for the DB portion and \$21,251,765 for the DC portion.

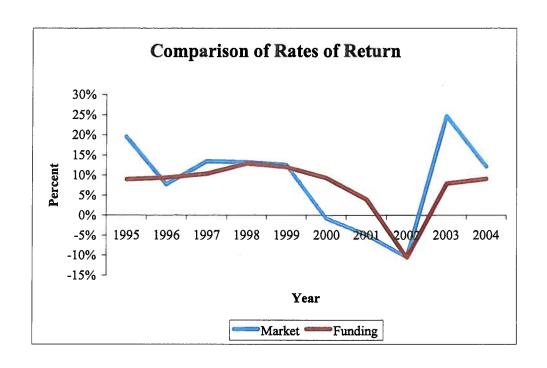
(BASED UPON 4 YEAR PHASE-IN OF DIFFERENCES BETWEEN ACTUAL AND ASSUMED RETURN) DEVELOPMENT OF FUNDING VALUE OF PENSION DEFINED BENEFIT ASSETS

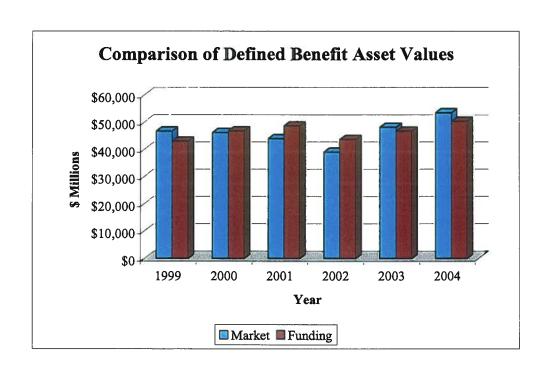
Year Ended December 31	2004	2005	2006	2007
A. Funding Value Beginning of Year	\$46,745,327,239			
B. Market Value End of Year	53,576,366,709			
C. Market Value Beginning of Year	48,240,974,050			
D. Non-Investment/Administrative Net Cash Flow D1. Member Contributions D2. Employer Contributions (Less Other Income/Cancelled Warrants) D3. Refund of Member Accounts D4. Retirement Benefits D5. Member Balance Transfers D6. Total Net Cash Flow: D1+D2+D3+D4+D5	1,019,798,241 1,126,005,161 (207,121,143) (2,454,131,826) 245,452 (515,204,115)			
 E. Investment Return E1. Market Total:B-C-D6 E2. Assumed Rate of Return E3. Assumed Amount of Return E4. Amount Subject to Phase-In: E1-E3 	5,850,596,774 8.00% 3,719,018,015 2,131,578,759	9		
F. Phased-In Recognition of Investment Return F1. Current year: 0.25xE4 F2. First Prior Year F3. Second Prior Year F4. Third Prior Year F5. Total Phase-Ins	532,894,690 1,555,151,363 (1,584,903,640) 503,142,413	\$532,894,690 1,555,151,363 (1,584,903,640) 503,142,413	\$532,894,690 1,555,151,365 2,088,046,055	\$532,894,689
G. Funding Value End of Year G1. Preliminary Funding Value End of Year: A+D6+E3+F5 G2. Upper Corridor Limit: 112% x B G3. Lower Corridor Limit: 88% x B G4. Funding Value End of Year	\$50,452,283,552 60,005,530,714 47,147,202,703 \$50,452,283,552			
H. Difference Between Market and Funding Value I. Recognized Rate of Return J. Market Rate of Return	\$3,124,083,157 9.08% 12.19%	\$2,620,940,744	\$532,894,689	
K. Ratio of Funding Value to Market Value	94%			

The Funding Value of Assets recognizes assumed investment return (line E3) fully each year. Differences between actual and assumed investment return (line E4) are phased in over a closed 4-year period. During periods when investment performance exceeds the assumed rate, Funding Value of Assets will tend to be less than market value. During periods when investment performance is less than the assumed rate, Funding Value of Assets will tend to be greater than market value. If assumed rates are exactly realized for 3 consecutive years, funding value will become equal to market value.

ALLOCATION OF FUNDING VALUE OF ASSETS BETWEEN DIVISIONS **DECEMBER 31, 2004**

			State		Local		Law	PS		Total
Ξ	(1) Employer Accumulation Fund-Traditional Plan	69	7,322,656,820	6	10,526,182,717	69	706,782,659	\$ (78,754,734) \$		18,476,867,463
3	Employer Accumulation Fund-Combined Plan		6,944,692		15,106,806		0	0		22,051,498
3	Retired Assets-Traditional Plan		10,190,495,944		13,653,957,364		935,527,120	55,388,662	24	24,835,369,090
4	Subtotal: (1)+(2)+(3)	€9	17,520,097,457	€9	24,195,246,887	~	1,642,309,780	\$ (23,366,073) \$		43,334,288,051
(5)	(5) Member Deposits from Participant Data-Traditional Plan									
	(a) Active Member Deposits		4,133,871,570		6,329,235,295		407,281,385	3,171,810	10	10,873,560,060
	(b) Inactive Member Deposits		410,848,243		580,759,950		9,169,295	75,249	_	1,000,852,737
	(c) Total Member Deposits: (a)+(b)		4,544,719,813		6,909,995,245		416,450,680	3,247,059	-	11,874,412,797
9	(6) Share of Total Member Deposits		38.27%		58.19%		3.51%	0.03%		100.00%
6	Employee Savings Fund Allocated According to (6)		3,574,676,056		5,435,097,337		327,561,728	2,553,993	0	9,339,889,114
8	Subtotal: (4)+(7)		21,094,773,513		29,630,344,224		1,969,871,508	(20,812,079)	52	52,674,177,165
9	(9) Assets Without Division Allocated According to (8)		325,763,554		457,577,145		30,420,442	(321,398)		813,439,743
(10	(10) Assets Held For Upcoming Year Budget Allocated According to (8)		35,542,215		49,923,649		3,319,002	(35,066)		88,749,800
(3)) Total Employer +Employee Defined Benefit Assets: (8)+(9)+(10)	\$9	21,456,079,282	69	30,137,845,018	\$	2,003,610,952	\$ (21,168,543) \$	53	53,576,366,709
(12	(12) Share of Defined Benefit Market Value		40.05%		56.25%		3.74%	-0.04%		100.00%
(13	(13) Market Value Adjustment Allocated According to (12)		(1,251,122,090)		(1,757,363,177)		(116,832,246)	1,234,356	9	(3,124,083,157)
(14	(14) Funding Value of Defined Benefit Assets (11)+(13)	69	20,204,957,192	6/3	28,380,481,841	8	1,886,778,706	\$ (19,934,187) \$	20	50,452,283,552





SECTION III



Benefits and Conditions Evaluated

BENEFITS AND CONDITIONS EVALUATED

PLANS

Traditional Pension Plan. The Traditional Pension Plan is a defined benefit plan under which a member's retirement benefit is based on a formula. The formula is determined by years of contributing service and the average of the three highest years of earnable salary (or final average salary). The OPERS investment professionals manage the investment of employee and employer contributions to ensure that funds are available to pay the formula benefit.

Combined Plan. The Combined Plan is a retirement plan with both a defined benefit and a defined contribution component. Under the defined benefit portion of the Combined Plan, the member's benefit is determined by a reduced formula (similar to the Traditional Pension Plan). Ohio investment professionals manage the investment of employer contributions to ensure that funds are available to pay the reduced formula benefit. Under the defined contribution portion of the Combined Plan, employee contributions are deposited into the member's individual defined contribution account and invested as directed by the member. The member's retirement benefit under this portion of the Combined Plan is based on employee contributions and the gains and losses on those contributions. The member directs the investment by selecting from among the nine professionally-managed OPERS Investment Options.

Member-Directed Plan. The Member-Directed Plan is a defined contribution plan under which employee and employer contributions are deposited into a member's individual defined contribution account and invested as directed by the member. The member's retirement benefit is based on employee and employer contributions and the gains and losses on those contributions. Under the Member-Directed Plan, the member directs the investment by selecting from nine professionally-managed OPERS Investment Options.

BENEFITS AND CONDITIONS EVALUATED

TERMS

Final average salary ("FAS") means the average of the annual earnings for the 3 highest calendar years of compensation.

Participant Contribution Account is the account for each Participant in the Combined or Member-Directed Plan to which shall be credited the employee contributions.

Miscellaneous Contribution Account is the account to which shall be credited any voluntary after-tax contributions for members in the Combined and Member-Directed Plans.

Rollover Account is the account to which shall be credited any rollover amounts for members in the Combined or Member-Directed Plans.

Employers' Accumulation Fund is the fund to which shall be credited employer contributions for members in the Traditional or Combined Plan. There are separate accounts in the Employers' Accumulation Fund for the Combined Plan and the Traditional Pension Plan.

Employer Contribution Account is the fund to which shall be credited a portion of the employer contributions for members in the Member-Directed Plan.

CONTRIBUTIONS

Member contributions. State and local government members contribute 8.5% of earnable salary. The maximum statutory rate is 10% of earnable salary.

Law enforcement members whose primary duties are to preserve the peace, to protect life and property, and to enforce the laws of the state contribute 10.1% of earnable salary effective 1/1/2001. Remaining Law enforcement members (Public Safety) contribute 9.0% of earnable salary.

Employer contributions. Each employer contributes the remaining amounts necessary to finance OPERS benefits. Employer contributions are expressed as percents of member-covered payroll. The maximum statutory rate for state and local government employers is 14%. The maximum statutory rate for law enforcement employers is 18.1% (H.B. 416, effective 1/1/2001).

CONTRIBUTIONS (CONT'D)

Health Care Preservation Plan (HCPP). Both employer and member contribution rates are scheduled to increase over the next few years in accordance with the HCPP. The following table shows total scheduled employer contribution rates (includes contributions for both the pension and retiree health programs):

		Local	Law	Public
Year	State	Government	Enforcement	Safety
2005	13.31%	13.55%	16.70%	16.70%
2006	13.54	13.70	16.93	16.93
2007	13.77	13.85	17.17	17.17
2008	14.00	14.00	17.40	17.40
2009	14.00	14.00	17.63	17.63
2010	14.00	14.00	17.87	17.87
2011 and Later	14.00	14.00	18.10	18.10

The portion of the above employer contribution rates scheduled to be allocated to the retiree health program are as follows:

	Ali
Year	Divisions
2005	4.00%
2006	4.50
2007	5.00
2008 and Later	5.50

Member contribution rates scheduled to be allocated to the pension program are as follows:

	Local	Law	Public
State	Government	Enforcement	Safety
8.50%	8.50%	10.10%	9.00%
9.00	9.00	10.10	9.00
9.50	9.50	10.10	9.50
10.00	10.00	10.10	10.00
	8.50% 9.00 9.50	State Government 8.50% 8.50% 9.00 9.00 9.50 9.50	State Government Enforcement 8.50% 10.10% 9.00 9.00 10.10 9.50 9.50 10.10

AGE & SERVICE BENEFITS - STATE AND LOCAL GOVERNMENT MEMBERS

Age and service eligibility. A member who (i) has attained age 60 years and has 5 or more years of service credit or 60 contributing months, or (ii) has attained age 55 years and has 25 or more years of service credit, or (iii) has 30 or more years of service credit, may retire with an age and service retirement allowance.

Age and service allowance. A retiring member's age and service allowance is equal to Ohio service credit times the greater of \$86, or 2.2% of FAS for the first 30 years of service plus 2.5% for years of service over 30 years (H.B. 628). The allowance is then adjusted by factors based on attained age or years of service (whichever yields the higher percentage) as determined in the following schedule:

Attained		Years of	Percentage of
Age	OR	Service Credit	Base Amount
58		25	75%
59		26	80
60		27	85
61		N/A	88
N/A		28	90
62		N/A	91
63		N/A	94
N/A		29	95
64		N/A	97
65		30 or more	100

Maximum allowance is 100% of FAS or the limits under IRC Section 415(b). Minimum allowance is based upon twice the member's savings funding balance at retirement together with interest credits.

AGE & SERVICE BENEFITS – LAW MEMBERS (PUBLIC SAFETY) ELIGIBLE TO RETIRE UNDER OHIO REVISED CODE SECTION 145.33(B)(2)(B)

Age and service eligibility. A law member whose secondary duties are to preserve the peace, to protect life and property, and to enforce the laws of the state and who (i) has attained age 52 and has 25 or more years of credited service, or (ii) has attained age 62 and has 15 or more years of credited service, or (iii) has attained age 52 and has 15 or more years of credited service, may retire with an age and service allowance. A member covered by these provisions may retire at age 48 with 25 or more years of service subject to the reduction described in 145.33 (C)(1).

Age and service allowance. A retiring member's age and service allowance under eligibility (i) or (ii) above is equal to 2.5% of FAS times the first 25 years of service credit plus 2.1% of FAS times service credit in excess of 25 years (H.B. 628). Maximum allowance is 90% of FAS or the limits under IRC Section 415(b). A retiring member's age and service allowance under eligibility (iii) above is equal to 1.5% of FAS times years of service credit. Minimum allowance for all law members is based upon twice the member's savings fund balance at retirement together with interest credits.

AGE & SERVICE BENEFITS - LAW MEMBERS (LAW ENFORCEMENT) ELIGIBLE TO RETIRE UNDER OHIO REVISED CODE SECTION 145.33(B)(2)(A)

Age and service eligibility. A law member whose primary duties are to preserve the peace, to protect life and property, and to enforce the laws of the state and who (i) has attained age 48 and has 25 or more years of credited service, or (ii) has attained age 62 and has 15 or more years of credited service, or (iii) has attained age 52 and has 15 or more years of credited service, may retire with an age and service allowance.

Age and service allowance. A retiring member's age and service allowance under eligibility (i) or (ii) above is equal to 2.5% of FAS times the first 25 years of service credit plus 2.1% of FAS times service credit in excess of 25 years (H.B. 628). Maximum allowance is 90% of FAS or the limits under IRC Section 415(b). A retiring member's age and service allowance under eligibility (iii) above is equal to 1.5% of FAS times years of service credit. Minimum allowance for all law members is based upon twice the member's savings fund balance at retirement together with interest credits.

DISABILITY RETIREMENT

The disability program was revised in order to comply with the Older Workers Benefit Protection Act. Employees becoming members after July 29, 1992 are covered by the post July 29, 1992 program. Other members were able to elect coverage under the pre July 29, 1992 program (original plan) or elect to be covered by the post July 29, 1992 program (revised plan).

Features of the original plan are:

- a) Upon becoming permanently disabled after completion of at least 5 years or 60 contributing months of service but before attaining age 60, a member is eligible for a disability allowance. The service requirement is waived for Law Enforcement members with an on-duty illness or injury.
- b) The amount of the allowance is the service the member would have had if employment had continued to age 60 times (i) 2.2% of FAS (H.B. 628), or (ii) \$86, whichever produces the greater benefit.
- c) Maximum allowance is 75% of FAS, minimum allowance is 30% of FAS.

Features of the revised plan are:

- a) A member may apply at any age after completion of 5 years or 60 contributing months of service. The service requirement is waived for Law Enforcement members with an on-duty illness or injury.
- b) A disability benefit equal to the greater of 45% of FAS or the actual service credit times 2.2% of FAS (H.B. 628) with no early retirement reduction (maximum 60% of FAS). The disability benefit period is to age 65 if the member is disabled prior to age 60. The benefit period declines gradually from 60 months for members disabled at ages 60 and 61 to 12 months for members disabled at age 69 or older.
- c) After the disability benefit ends, a service retirement benefit equal to the greater of (i) the accrued benefit based on actual service, or (ii) 2.2% of FAS (H.B. 628) times service credit including the period of disability (maximum 45% of FAS). In addition, an amount equal to the cost-of-living increases the member would have received had the member retired on the basis of age and service is paid.

SURVIVOR BENEFITS

Death while eligible to retire. If a member dies in service after becoming eligible to retire with an age and service allowance and leaves a surviving spouse or other sole dependent beneficiary, the survivor receives the same amount that would have been paid had the member retired the last day of the month of death and elected the 100% joint and survivor form of payment.

Survivor (death-in-service) allowances. If a deceased member had at least 1-1/2 years of contributing service credit, with at least ½ year of such service occurring within the 2-1/2 years prior to death, or was receiving a disability benefit, qualified survivors may receive the following monthly benefits. The benefit paid will be the greater of the applicable benefits paid under the following two schedules (H.B. 628):

Schedule 1

Number of Qualified Survivors <u>Affecting the Benefit</u>	Annual Benefit as a % of Deceased Member's FAS	Minimum Monthly Benefit
1	25%	\$250
2	40%	\$400
3	50%	\$500
4	55%	\$500
5 or more	60%	\$500

Schedule 2

¥7	Annual Benefit as a % of
Years of Service	Deceased Member's FAS
20	29%
21	33%
22	37%
23	41%
24	45%
25	48%
26	51%
27	54%
28	57%
29 or more	60%

Qualifying survivors who are paid benefits under Schedule 2 share equally in the benefits, except that if there is a surviving spouse, the spouse receives the greater of 25% of FAS or \$250.

A *qualified spouse* is the surviving spouse of a deceased member who is age 62 or at any age if the deceased member had 10 or more years of Ohio service credit or if the surviving spouse is caring for a qualified child or is adjudged physically or mentally incompetent.

A *qualified child* is a child who has never been married and under the age of 18 (or 22 if attending an approved school), or regardless of age is adjudged physically or mentally incompetent at the time of the member's death.

A *qualified parent* is a dependent parent aged 65 or older (earlier if mentally or physically incompetent) who received at least one-half support from the member during the 12-month period immediately preceding the member's death.

Qualified survivors of disability benefit recipients have the FAS used in calculating their benefits adjusted for each year between the effective date of the disability benefit and the recipient's date of death. The FAS is adjusted by the lesser of (1) 3% or (2) the actual average percentage change in the CPI.

BENEFITS AT RETIREMENT

Optional Benefit Forms. Retiring members may elect to have benefits paid in straight life form, in a form that guarantees a minimum number of monthly payments, or in a form that provides a continuation of all or a portion of the monthly benefit to a beneficiary after the death of the retiree. If a retiring member elects benefits in other than straight life form, the monthly amount is adjusted. The adjustment is based upon interest and mortality assumptions (with a blend of male and female mortality rates to produce unisex election factors consistent with the gender distribution of members electing optional forms of payment).

PLOP. Effective 01/01/2004, retiring members may also elect to receive a Partial Lump Sum Option Payment (PLOP) (S.B.247). The PLOP is an option that allows a retiree to initially receive a partial lump sum benefit payment along with a reduced monthly retirement allowance. The lump sum payment cannot be less than 6 times or more than 36 times the monthly amount that would be payable to the member under the plan of payment selected and shall not result in a monthly allowance that is less than 50% of the monthly benefit. The total amount paid as a lump sum and monthly benefit shall be the actuarial equivalent of the amount that would have been paid had the lump sum not been selected.

QEBA. Qualified Excess Benefit Arrangement was established 01/01/2004 (H.B.190). The QEBA is operated in accordance with Internal Revenue Code Section 415(m). Under this arrangement the recipient may be paid the portion of his/her retirement benefit that was previously limited due to IRC Section 415(b).

Post-retirement increases. Each July after June 30, 1971 or the annual anniversary established 12 months after the initial date of retirement, each allowance is increased by 3.0% of the corresponding base allowance, except that no allowance shall exceed the limits established by Section 415 of the Internal Revenue Code.

Post-retirement death benefit. Upon the death of an age and service or disability retiree, a death benefit in the following amount is payable:

Service Credit	Amount of
at Retirement	Death Benefit
5 to 9 years	\$ 500
10 to 14 years	1,000
15 to 19 years	1,500
20 to 24 years	2,000
25 or more years	2,500

Deferred benefits. A member with at least 5 years of service credit who leaves service before being eligible for an immediate allowance and who does not withdraw accumulated contributions will be entitled to a deferred allowance at age 60. For law members, the age at which benefits commence depends on the amount of service credit. The amount of the allowance will be based on credited service and final average salary at time of leaving service.

REFUND OF MEMBERS ACCUMULATED CONTRIBUTIONS

In the event a member leaves service prior to retirement, the member may elect to receive a refund of contributions with interest and may be eligible to receive an additional amount as described below. These refund provisions are available to all members. If a member dies prior to retirement and survivor benefits are not payable, the member's contributions with interest are paid to a designated beneficiary or other survivor. Interest is credited annually to member contribution balances. The rate of interest credited is determined by the OPERS Board and will not be greater than 6%. At the present time, 1% interest is credited to member contribution balances.

If the member has, or had at the time of death, at least 5 years but less than 10 years of qualified service, an additional 33% of the member's eligible contributions will be paid to the member or survivor. If the member has, or had at the time of death, at least 10 years of qualified service credit, an additional 67% of the member's eligible contributions will be paid to the member or survivor. The additional amount is not paid if the member is a re-employed retiree, or in the case of a deceased member, was receiving disability benefits at the time of death.

SUPPLEMENTAL BENEFITS

Health Care Coverage. Health care coverage is available to persons being paid a monthly allowance from OPERS. Members retiring with a normal or early service retirement allowance after June 13, 1986 must have 10 or more years of qualified service credit to be eligible for this benefit.

Medicare premiums. Medicare part B premiums are paid for those eligible, upon proof of coverage. Members retiring with a normal or early service retirement allowance after June 13, 1986 must have 10 or more years of qualified service credit to be eligible for this benefit.

AGE & SERVICE BENEFITS - STATE AND LOCAL GOVERNMENT MEMBERS*

Eligibility. A member who (i) has attained age 60 years and has 5 or more years of service credit in the Plan or 60 contributing months in the Plan, or (ii) has attained age 55 years and has 25 or more years of service credit, or (iii) has 30 or more years of service credit, may retire under the Combined Plan with an age and service retirement allowance under the defined benefit portion of the Plan and with a retirement benefit under the defined contribution portion of the Plan.

Age and service retirement allowance (Defined Benefit portion of the Plan). A retiring member's age and service retirement allowance is equal to Ohio service credit in the Plan times 1.0% of FAS for the first 30 years of service plus 1.25% for years of service over 30 years. The allowance is then adjusted by factors based on attained age or years of service (whichever yields the higher percentage) as determined in the following schedule:

Attained		Years of	Percentage of
Age	OR	Service Credit	Base Amount
58		25	75%
59		26	80
60		27	85
61		N/A	88
N/A		28	90
62		N/A	91
63		N/A	94
N/A		29	95
64		N/A	97
65		30 or more	100

Maximum allowance is 100% of FAS or the limits under IRC Section 415(b).

Retirement benefit (Defined Contribution portion of the Plan). The member's retirement benefit under this portion of the Combined Plan is based on the amounts credited to the Participant Contribution Account, Rollover Account, and Miscellaneous Account and the gains and losses on the amounts in those Accounts.

^{*}Law Enforcement and Public Safety members must contribute to the Traditional Pension Plan only.

COMBINED PLAN

DISABILITY RETIREMENT

A Combined Plan member may apply after completion of 5 years in the Plan or 60 contributing months of service in the Plan. Combined Plan members may be covered under the original or revised disability plan. Combined Plan members who apply for disability may:

- Take a lump sum distribution of the Participant Contribution Account, Rollover Account, and Miscellaneous Account and any additional amount they are entitled to from the Employers' Accumulation Fund, or
- 2) Transfer all service credit and the Participant's Accounts (as listed above) in the Combined Plan to the Traditional Pension Plan to be paid a disability benefit under the Traditional Pension Plan guidelines.

SURVIVOR BENEFITS

Combined Plan members are eligible for the same survivor benefits as those listed under the Traditional Pension Plan and must qualify for survivor benefits under the same guidelines as those members in the Traditional Pension Plan.

BENEFITS AT RETIREMENT

Optional Benefit Forms under the Defined Benefit portion of the Plan. Retiring members may elect to have their age and service retirement allowance in straight life form, in a form that guarantees a minimum number of monthly payments, or in a form that provides a continuation of all or a portion of the monthly benefit to a beneficiary after the death of the retiree. If a retiring member elects benefits in other than straight life form, the monthly amount is adjusted. The adjustment is based upon interest and mortality assumptions (with a blend of male and female mortality rates to produce unisex election factors consistent with the gender distribution of members electing optional forms of payment).

Optional Benefit Forms under the Defined Contribution portion of the Plan. Retiring members may elect to have retirement benefits paid in a partial lump sum, subject to any rules adopted by the Board; monthly annuity payments (with joint and survivor options) similar to those offered under the defined benefit portion of the Plan; periodic payments over a period certain; periodic payments of a specific monthly amount; payments with a deferred start date; or a combination of these options.

PLOP. Effective 01/01/2004, retiring members may also elect to receive a Partial Lump Sum Option Payment (PLOP) (S.B.247). The PLOP is an option that allows a retiree to initially receive a partial lump sum benefit payment along with a reduced monthly retirement allowance. The lump sum payment cannot be less than 6 times or more than 36 times the monthly amount that would be payable to the member under the plan of payment selected and shall not result in a monthly allowance that is less than 50% of the monthly benefit. The total amount paid as a lump sum and monthly benefit shall be the actuarial equivalent of the amount that would have been paid had the lump sum not been selected. The PLOP is available to Combined Plan members for the age and service retirement allowance under the defined benefit portion of the Plan and for the monthly annuity under the defined contribution portion of the Plan.

QEBA. Qualified Excess Benefit Arrangement was established 01/01/2004 (H.B.190). The QEBA is operated in accordance with Internal Revenue Code Section 415(m). Under this arrangement the recipient may be paid the portion of his/her retirement benefit that was previously limited due to IRC Section 415(b). The QEBA is available to Combined Plan members for the age and service retirement allowance under the defined benefit portion of the Plan.

Post-retirement increases. Each July after June 30, 1971 or the annual anniversary established 12 months after the initial date of retirement, each age and service retirement allowance under the defined benefit portion of the plan is increased by 3.0% of the corresponding base allowance, except that no allowance shall exceed the limits established by Section 415 of the Internal Revenue Code.

Post-retirement death benefit. Upon the death of an age and service retiree, a death benefit in the following amount is payable:

Service Credit at Retirement	Amount of Death Benefit	
5 to 9 years	\$ 500	
10 to 14 years	1,000	
15 to 19 years	1,500	
20 to 24 years	2,000	
25 or more years	2,500	

REFUNDS AND VESTING

A participant in the Combined Plan shall at all times be 100% vested in the Participant Contribution Account, Miscellaneous Contribution Account, and the Rollover Account.

If the member has at least 5 years but less than 10 years of qualified service credit in the Plan, an additional 33% of the member's eligible contributions will be paid from the Employers' Accumulation Fund. If the member has at least 10 years of qualified service credit in the Plan, an additional 67% of the member's eligible contributions will be paid to the member. Amounts paid to purchase service credit earn interest at the same rates as the Traditional Pension Plan and are payable as a refund.

In the event a member leaves service prior to retirement, the member may elect to receive a refund of their Participant Contribution Account, the Rollover Account, the Miscellaneous Account, and any additional amounts they are entitled to from the Employers' Accumulation Fund (as described above).

SUPPLEMENTAL BENEFITS

Health Care Coverage. Health care coverage is available to persons being paid a monthly allowance from OPERS. Members retiring with a normal or early service retirement allowance after June 13, 1986 must have 10 or more years of qualified service credit to be eligible for this benefit.

COMBINED PLAN

Medicare premiums. Medicare part B premiums are paid for those eligible, upon proof of coverage. Members retiring with a normal or early service retirement allowance after June 13, 1986 must have 10 or more years of qualified service credit to be eligible for this benefit. [Although it is not mentioned under the Traditional Pension Plan either, Combined Plan members are eligible for the Medicare Part-A equivalent coverage under R.C. 145.325.]

MEMBER-DIRECTED PLAN

AGE & SERVICE BENEFITS - STATE AND LOCAL GOVERNMENT MEMBERS. (Law Enforcement and Public Safety members must contribute to the Traditional Pension Plan Only.)

Eligibility. A participant who has attained age fifty-five (55) may retire under the Member-Directed Plan.

Retirement benefits. The member's retirement benefit is based on the value of the Participant Contribution Account, the Rollover Account, the Miscellaneous Account, and any vested portion of the Employer Contribution Account.

DISABILITY RETIREMENT

Not available under the Member-Directed Plan. Members may:

- 1) If age fifty-five (55), terminate employment and begin receiving retirement benefits, or
- Take a lump sum distribution of their Participant Contribution Account, Rollover Account,
 Miscellaneous Account and any vested portion of the Employer Contribution Account.

SURVIVOR BENEFITS

Not available under the Member-Directed Plan. Survivors must take a lump sum distribution of the member's Participant Contribution Account, Rollover Account, Miscellaneous Account and any vested portion of the Employer Contribution Account.

BENEFITS AT RETIREMENT

Optional Benefit Forms. Retiring members may elect to have retirement benefits paid in a partial lump sum, subject to any rules adopted by the Board; monthly annuity payments (with joint and survivor options) similar to those offered under the defined benefit portion of the Combined Plan; periodic payments over a period certain; periodic payments of a specific monthly amount; payments with a deferred start date; or a combination of these options.

PLOP. Effective 01/01/2004, retiring members who elect a monthly annuity under the Member-Directed Plan may also elect to receive a Partial Lump Sum Option Payment (PLOP) (S.B.247). The PLOP is an option that allows a retiree to initially receive a partial lump sum benefit payment along with a reduced monthly annuity. The lump sum payment cannot be less than 6 times nor more than 36 times the monthly amount that would be payable to the member under the plan of payment selected and shall not result in a monthly annuity that is less than 50% of the monthly benefit. The total amount paid as a lump sum and monthly benefit shall be the actuarial equivalent of the amount that would have been paid had the lump sum not been selected. The PLOP is available to Member-Directed Plan members only if they elect a monthly annuity.

REFUNDS AND VESTING.

A participant shall at all times be 100% vested in the Participant Contribution Account, Miscellaneous Contribution Account, and the Rollover Account. A participant shall vest in the Employer Contribution Account according to the Participant's attained years of participation in the Plan as follows:

One year of participation	20%
Two years of participation	40%
Three years of participation	60%
Four years of participation	80%
Five years of participation	100%

In the event a member leaves service prior to retirement, the member may elect to receive a refund of their Participant Contribution Account, Rollover Account, and Miscellaneous Account and any vested amounts in the Employer Contribution Account (as described above).

MEMBER-DIRECTED PLAN

SUPPLEMENTAL BENEFITS

Health Care Coverage. A portion of the employer contribution for Member-Directed participants is credited to a Retiree Medical Account (RMA). Amounts contributed to the RMA may be used after separation from service and a refund or retirement distribution is made to pay qualified health, dental and vision care expenses. Members vest in their RMA based on their attained years of participation in the Plan as follows:

1-2 years	0%
3 years	30%
4 years	40%
5 years	50%
6 years	60%
7 years	70%
8 years	80%
9 years	90%
10 years	100%

SAMPLE BENEFIT COMPUTATION – TRADITIONAL PLAN STATE OR LOCAL MEMBER - NORMAL RETIREMENT RETIRING DECEMBER 31, 2004

UNDER BENEFIT PROVISIONS EVALUATED

Data:

A.	\$32,000	Final Average Earnings
В.	33	Years of Credited Service
C.	59	Age of Retiree
D.	56	Age of Spouse
E.	100%	Percentage of Pension to Continue to Spouse after retiree's death
-		(Retiree makes the choice of 100% Joint and Survivor with Pop-Up)

Computations:

F.	Formula Benefit: (0.022 x 30 years + 0.025 x 3 years) x \$32,000 =	\$ 23,520
G.	Reduction for Line E Election $(1 - 0.81174) \times (F) =$	 4,428
H.	Benefit Payable to Retiree while Spouse is Alive: (F) - (G) =	19,092
	Benefit Payable to Spouse after Retiree's Death Benefit Payable to Retiree after Spouse's Death	19,092 23,520

Year Ended December 31,	Retiree's Benefit (Both Alive)	Spouse's Benefit (After Retiree's Death)	Retiree's Benefit (After Spouse's Death)
2005	\$ 19,092	\$ 19,092	\$ 23,520
2006	19,665	19,665	24,226
2007	20,238	20,238	24,931
2008	20,810	20,810	25,637
2009	21,383	21,383	26,342
2010	21,956	21,956	27,048
2011	22,529	22,529	27,754
2012	23,101	23,101	28,459
2013	23,674	23,674	29,165
2014	24,247	24,247	29,870

SAMPLE BENEFIT COMPUTATION – TRADITIONAL PLAN STATE OR LOCAL MEMBER - EARLY RETIREMENT RETIRING DECEMBER 31, 2004 UNDER BENEFIT PROVISIONS EVALUATED

lata:

Α.	\$32,000	Final Average Earnings
В.	26	Years of Credited Service
C.	59	Age of Retiree
D.	56	Age of Spouse
E.	100%	Percentage of Pension to Continue to Spouse after retiree's death
		(Retiree makes the choice of 100% Joint and Survivor with Pop-Up)

Computations:

F.	Formula Benefit: 0.022 x 26 years x \$32,000 =	\$ 18,304
G.	Adjustment factor for Early Retirement (from schedule)	80%
H.	Adjusted benefit: (F) x (G) =	14,643
I.	Reduction for Line E Election $(1 - 0.81174) \times (H) =$	 2,757
J.	Benefit Payable to Retiree while Spouse is Alive: (H) - (I)	11,886
	Benefit Payable to Spouse after Retiree's Death Benefit Payable to Retiree after Spouse's Death	11,886 14,643

Year Ended December 31,	Retiree's Benefit (Both Alive)	Spouse's Benefit (After Retiree's Death)	Retiree's Benefit (After Spouse's Death)
2005	\$ 11,886	\$ 11,886	\$ 14,643
2006	12,243	12,243	15,082
2007	12,599	12,599	15,522
2008	12,956	12,956	15,961
2009	13,313	13,313	16,400
2010	13,669	13,669	16,840
2011	14,026	14,026	17,279
2012	14,382	14,382	17,718
2013	14,739	14,739	18,158
2014	15,095	15,095	18,597

SAMPLE BENEFIT COMPUTATION – TRADITIONAL PLAN SECTION 145.33 (B)(2)(a) LAW MEMBER - NORMAL RETIREMENT RETIRING DECEMBER 31, 2004

UNDER BENEFIT PROVISIONS EVALUATED

Data:

Α	\$38,000	Final Average Earnings
В	28	Years of Credited Service
C	49	Age of Retiree
D	46	Age of Spouse
E	100%	Percentage of Pension to Continue to Spouse after retiree's death
		(Retiree makes the choice of 100% Joint and Survivor with Pop-Up)

Computations:

F.	Formula Benefit: $(0.025 \times 25 \text{ years} + 0.021 \times 3 \text{ years}) \times \$38,000 =$	\$ 26,144
G.	Reduction for Line E Election (1 - 0.87869) x (F) =	3,172
H.	Benefit Payable to Retiree while Spouse is Alive: (F) - (G) =	22,972
	Benefit Payable to Spouse after Retiree's Death Benefit Payable to Retiree after Spouse's Death	22,972 26,144

Year Ended December 31,	Retiree's Benefit (Both Alive)	Spouse's Benefit (After Retiree's Death)	Retiree's Benefit (After Spouse's Death)
2005	\$ 22,972	\$ 22,972	\$ 26,144
2006	23,661	23,661	26,928
2007	24,350	24,350	27,713
2008	25,039	25,039	28,497
2009	25,729	25,729	29,281
2010	26,418	26,418	30,066
2011	27,107	27,107	30,850
2012	27,796	27,796	31,634
2013	28,485	28,485	32,419
2014	29,174	29,174	33,203

SAMPLE BENEFIT COMPUTATION – TRADITIONAL PLAN STATE OR LOCAL MEMBER – TERMINATION BENEFIT RETIRING DECEMBER 31, 2004 UNDER BENEFIT PROVISIONS EVALUATED

)ata:

Α.	\$32,000	Final Average Earnings
В.	15	Years of Credited Service
C.]	45	Age of Member
D.	42	Age of Spouse
E.]	60:57	Ages at Which Benefits are Payable
F.	100%	Percentage of Pension to Continue to Spouse after retiree's death
		(Retiree makes the choice of 100% Joint and Survivor with Pop-Up)
G.	\$44,000	Accumulated Contributions with Interest at Temination Date

Computations:

H.	Formula Benefit: $(0.022 \times 15 \text{ years} + 0.025 \times 0 \text{ years}) \times \$32,000 =$	\$ 10,560
I.	Adjustment factor for Early Retirement (from schedule)	85%
J.	Adjusted benefit: (H) x (I) =	8,976
K.	Reduction for Line F Election: (1 - 0.80366) x (J) =	 1,762
L.	Benefit Payable to Retiree while Spouse is Alive: $(J) - (K) =$	7,214
	Benefit Payable to Spouse after Retiree's Death Benefit Payable to Retiree after Spouse's Death	7,214 8,976
O.	In lieu of a lifetime benefit, terminee may elect to receive a refund of accumulated contributions with interest plus an additional 67% of eligible accumulated contributions because terminee had more than 10 years of service.	73,480

Year Ended December 31,	Retiree's Benefit (Both Alive)	Spouse's Benefit (After Retiree's Death)	Retiree's Benefit (After Spouse's Death)
2005	\$ 7,214	\$ 7,214	\$ 8,976
2006	7,430	7,430	9,245
2007	7,647	7,647	9,515
2008	7,863	7,863	9,784
2009	8,080	8,080	10,053
2010	8,296	8,296	10,322
2011	8,513	8,513	10,592
2012	8,729	8,729	10,861
2013	8,945	8,945	11,130
2014	9,162	9,162	11,400

SAMPLE BENEFIT COMPUTATION – TRADITIONAL PLAN SECTION 145.33 (B)(2)(a) LAW MEMBER – TERMINATION BENEFIT RETIRING DECEMBER 31, 2004 UNDER BENEFIT PROVISIONS EVALUATED

Data:

A.	\$38,000	Final Average Earnings
B.	15	Years of Credited Service
C.	37	Age of Retiree
D.	34	Age of Spouse
E.	52:49	Ages at Which Benefits are Payable
F.	100%	Percentage of Pension to Continue to Spouse after retiree's death
		(Retiree makes the choice of 100% Joint and Survivor with Pop-Up)
G.	\$46,000	Accumulated Contributions at Temination Date

Computations:

H.	Formula Benefit: (0.015 x 15 years) x \$38,000 =	\$ 8,550
I.	Reduction for Line F Election: $(1 - 0.86085) \times (H) =$	1,190
J.	Benefit Payable to Retiree while Spouse is Alive: (H) - (I) =	7,360
	Benefit Payable to Spouse after Retiree's Death Benefit Payable to Retiree after Spouse's Death	7,360 8,550
M.	In lieu of a lifetime benefit, terminee may elect to receive a refund of accumulated contributions with interest plus an additional 67% of eligible accumulated contributions because terminee had more than 10 years of service.	76,820

Year Ended December 31,	Retiree's Benefit (Both Alive)	Spouse's Benefit (After Retiree's Death)	Retiree's Benefit (After Spouse's Death)
2005	\$ 7,360	\$ 7,360	\$ 8,550
2006	7,581	7,581	8,807
2007	7,802	7,802	9,063
2008	8,022	8,022	9,320
2009	8,243	8,243	9,576
2010	8,464	8,464	9,833
2011	8,685	8,685	10,089
2012	8,906	8,906	10,346
2013	9,126	9,126	10,602
2014	9,347	9,347	10,859

SECTION IV



Recommendations for Reserve Transfers

DECEMBER 31, 2004 RETIRED LIFE VALUATION RESERVE TRANSFERS

Reserve transfers from the Employer Accumulation Fund to the A & PR Fund and/or Survivor Benefit Funds are recommended in the following instances.

- Whenever the December 31 valuation shows unfunded accrued liabilities or assets in excess of computed liabilities in any of the retired life funds.
- To adjust retired life reserves for the payment of health insurance premiums and Medicare reimbursements for the previous 12 month period if this has not already been done.
- To cover the cost of ad-hoc post retirement benefit increases.
- To adjust retired life reserves for any changes in computed liabilities resulting from assumption changes.

By making these annual adjustments in addition to the regular transfers when allowances are added to the rolls, the ratio of assets to liabilities for retired members and beneficiaries will stay at 100%. Year to year changes in this ratio before recommended transfers will normally be isolated to mortality experience within the retired life group.

In 1992, PERS began making interim benefit payments for certain retirements to shorten the delay between the retirement effective date and receipt of the first monthly check. However, reserve transfers are not made until benefit amounts are final. Transfers for these cases have been accrued based upon supplemental information supplied by PERS staff and are shown on the following page. The accruals, when added to other assets, are intended to put retired life reserves in the same position they would have been in if reserve transfers for the interim benefit cases had been coincident with benefit commencement.

It is recommended that the transfers shown on the following page be made from the Employer Accumulation Fund to the Annuity & Pension Reserve Fund and Survivor Benefit Funds as indicated. The Accrued Transfers is an estimate of pending future transfers for interim cases, and does not require a year end transfer. Any accrued transfers that have been made prior to OPERS' extract date and hence are not included in the "Accrued Transfers" column on page IV-2 should be netted off the "Other" column on page IV-2.

RESERVE TRANSFERS AFFECTING THE EMPLOYER ACCUMULATION FUND **DECEMBER 31, 2004**

State Before Transfer A&PR FUND \$ 8,145,525,162 BD&DR 1,622,007,632 TOTAL A&PR 9,767,532,794 SBF 101,030,130 S-1 321,933,020 TOTAL SBF 422,963,150 TOTAL STATE \$ 10,190,495,944 Local 422,963,150 BD&DR \$ 10,778,049,045 BD&DR \$ 10,778,049,045 BD&DR \$ 10,778,049,045 TOTAL A&PR \$ 12,939,779,617 SBF 157,300,118 S-1 \$ 556,877,629 TOTAL LOCAL \$ 13,653,957,364 Law Enforcement \$ 506,031,619 A&PR EUND \$ 506,031,619 BD&DR \$ 401,019,232 TOTAL A&PR \$ 907,050,850	8,145,525,162 1,622,007,632 9,767,532,794 101,030,130 321,933,020 422,963,150 0,190,495,944 0,778,049,045 2,161,730,572 2,939,779,617	Accrued \$154,561,021 144,665,168 299,226,189 2,247,911 12,772,058 15,019,969 \$314,246,158	Other \$75,554,005 (45,093,359)	Transfers	Liabilities	Ratio
\$ 8,14 1,62 9,76 10 32 42 42 10,17 \$ 10,77 \$ 10,77 \$ 15,93 15,55 \$ 50 \$ 50 \$ 50 \$ 50 \$ 50	,525,162 ,007,632 ,532,794 ,030,130 ,933,020 ,963,150 ,963,150 ,495,944 ,959,44 ,779,617 ,779,617	\$154,561,021 144,665,168 299,226,189 2,247,911 12,772,058 15,019,969 \$314,246,158	\$75,554,005 (45,093,359)			
\$ 8 8 10 8 10 8 10 8 13 8 13 8 13 8 13 8	,525,162 ,007,632 ,532,794 ,030,130 ,963,150 ,495,944 ,959,44 ,959,44 ,779,617 ,779,617	\$154,561,021 144,665,168 299,226,189 2,247,911 12,772,058 15,019,969 \$314,246,158	\$75,554,005 (45,093,359)			
\$ 8 10 \$ 10 \$ 10 \$ 13 \$ 13	,525,162 ,007,632 ,532,794 ,030,130 ,933,020 ,963,150 ,963,150 ,963,150 ,963,150 ,963,150 ,963,118	\$154,561,021 144,665,168 299,226,189 2,247,911 12,772,058 15,019,969 \$314,246,158	\$75,554,005 (45,093,359)			
\$ 10 \$ 10 \$ 13 \$ 13	,532,794 ,532,794 ,030,130 ,933,020 ,963,150 ,963,150 ,963,150 ,963,118	144,665,168 299,226,189 2,247,911 12,772,058 15,019,969 \$314,246,158	(45,093,359)	\$ 8.375.640.188	\$ 8 375 640 188	
\$ 10 \$ 10 \$ 13 \$ 13	,532,794 (030,130 (030,130 (93,150 (495,944 (495,944 (730,572 (779,617	299,226,189 2,247,911 12,772,058 15,019,969 \$314,246,158			1.721.579.441	
\$ 10, \$ 12, \$ 13, \$ \$ 13, \$ \$ 13, \$ \$ 13, \$ \$ \$ 13, \$ \$ \$ \$ \$,030,130 ,933,020 ,963,150 ,495,944 ,495,944 ,730,572 ,779,617	2,247,911 12,772,058 15,019,969 \$314,246,158	30,460,646	10,097,219,629	10,097,219,629	100.0%
\$ 10, \$ 10, \$ 13, \$ 13, \$ \$ 13, \$ \$ 13, \$ \$ \$ 13, \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$,030,130 933,020 963,150 495,944 049,045 779,617 300,118	2,247,911 12,772,058 15,019,969 \$314,246,158			`	
\$ 10, 2, 2, 12, 12, 8	933,020 963,150 495,944 049,045 779,617 300,118	12,772,058 15,019,969 \$314,246,158	(1,652,033)	101,626,008	101,626,008	
\$ 10 \$ 10 \$ 13 \$ 13	963,150 495,944 049,045 779,617 300,118	15,019,969 \$314,246,158	7,370,778	342,075,856	342,075,856	
		\$314,246,158	5,718,745	443,701,864	443,701,864	100.0%
	049,045 730,572 779,617 300,118		\$36,179,391	\$ 10,540,921,493	\$ 10.540,921.493	100.0%
	049,045 730,572 779,617 300,118			11	и —	
	049,045 730,572 779,617 300,118					
	730,572 779,617 300,118	\$230 351 970	\$108 070 274	£ 11 116 471 780	¢ 11 116 471 700	
\$13	300,118	181 180 883	(48.269.714)		4 11,110,4/1,269	
\$13	300,118	411 527 852	50 900 550	12 411 112 020	12 411 112 020	, 00
\$13	300,118	600,200,111	000,000,60	050,511,115,61	13,411,113,030	100.0%
\$13	200,118	104 104 4	40000			
\$ \$13		4,557,497	(2,303,464)	159,534,151	159,534,151	
\$13	67,1/8	15,331,146	14,686,067	586,894,842	586,894,842	
, , , , , , , , , , , , , , , , , , ,	177,747	19,868,643	12,382,603	746,428,993	746,428,993	100.0%
8	957,364	\$431,401,496	\$72,183,163	\$14,157,542,023	\$14,157,542,023	100.0%
R FUND JR,SR,MP \$ &DR AL A&PR						
JR,SR,MP \$ &DR AL A&PR						
&DR AL A&PR	031,619	\$ 17,900,338	\$ 20,686,201	\$ 544,618,158	\$ 544,618,158	
AL A&PR	401,019,232	30,341,432	(22,785,160)	408,575,504	408,575,504	
	058,050	48,241,770	(2,098,958)	953,193,662	953,193,662	100.0%
	7,447,437	230,691	178,356	7,856,484	7,856,484	
	1,028,833	895,453	(1,059,426)	20,864,860	20,864,860	
	28,476,270	1,126,144	(881,070)	28,721,344	28,721,344	100.0%
ENFORCEMENT \$	935,527,120	\$ 49,367,914	\$ (2,980,028)	\$ 981,915,006	\$ 981,915,006	100.0%
Public Safety						
A&PR FUND						
8, MP \$ 4]	1,919,405	\$ 136,465	\$(39,517,050)	\$ 2,538,820	\$ 2,538,820	
	7,152,768	841,055	(1,737,139)	6,256,684	6,256,684	
TOTAL A&PR 49,07	49,072,173	977,520	(41.254.189)	8.795.504	8 795 504	100 0%
SBF		•				
S-1 86	860,519	0	(860,519)	0	0	
S-2 5,45	5,455,970	1,275,712	1,521,800	8,253,482	8,253,482	
,	6,316,489	1,275,712	661,281	8,253,482	8,253,482	100.0%
SAFETY S S	,388,662	\$ 2,253,232	\$ (40,592,908)	\$ 17,048,986	\$ 17,048,986	100.0%
GRAND TOTAL \$24,835,36	5,369,090	\$797,268,800	\$64,789,618	\$25,697,427,508	\$25,697,427,508	100.0%

Ohio Public Employees Retirement System

SECTION V



State Division

Data on active, inactive, retired and money purchase members that was used in the valuation is tabulated briefly below.

Defined Benefit Active Members in Valuation December 31, 2004

		Annual		Average	
Groups	Number	Payroll	Pay	Age	Service
Men	50,521	\$2,016,267,513	\$39,909	41.9 yrs.	10.3 yrs.
Women	59,686	2,148,908,899	36,004	42.4	10.2
Totals	110,207	\$4,165,176,412	\$37,794	42.2 yrs.	10.3 yrs.

Also included in the valuation were 84,008 inactive members eligible for deferred retirement allowances or contribution refunds and 2,933 members active in the money purchase plan.

Retired Members in Valuation December 31, 2004

Fund / Type of Allowance	Number	Current Monthly Benefits	Actuarial Liabilities
A & PR Fund			
Superannuation Retirement	40,351	\$66,565,151	\$8,367,397,883
Disability Retirement	7,262	12,564,635	1,721,579,441
Money Purchase	241	85,945	8,242,305
Total A & PR Fund	47,854	79,215,731	10,097,219,629
Total SBF	4,785	4,000,704	443,701,864
Grand Total	52,639	\$83,216,435	\$10,540,921,493

STATE DIVISION EMPLOYER CONTRIBUTIONS TO SUPPORT DEFINED BENEFIT RETIREMENT ALLOWANCES

EXPRESSED AS PERCENTS OF ACTIVE MEMBER PAYROLL

Valuation Date December 31	2004	2003
Contributions for	2006	2005
Normal Cost		
Age and Service Allowances	8.20 %	8.16 %
Disability Allowances	2.17 %	2.17 %
Survivor's Benefits	0.41 %	0.41 %
Separation Benefits	3.89 %	3.46 %
Total Normal Cost	14.67 %	14.20 %
(Member Contributions)	9.00 %	8.50 %
Employer Normal Cost	5.67 %	5.70 %
Unfunded Actuarial Accrued Liabilities		
Total Available Contribution	3.37 %	3.61 %
Amortization Years - HCPP	27	35
Total Pension Employer Contribution Rate	9.04 %	9.31 %

The term "Amortization Years" refers to the period sufficient to produce the Total Employer Contribution Rate for retirement allowances and survivor benefits.

COMPARATIVE STATEMENT STATE DIVISION

	Contribution					Compute	Computed Employer		Contributions as % of Davroll	f Davied I
Valuation	Rate	Defined Benefit		Active Members in Valuation	n Valuation		Unfunded		O O' CED CITO	1 4 4 3 1 1011
Date	Effective		1	Annual Payrol	IIc	Normal	Accrued	Pension	Refire	Grand
December 31	January 1	No.	Total	Average	Increase	Cost	Liability	Total	Health	Total
			(\$Millions)							
1990@	1992	98,939	\$ 2,501	\$ 25,281	5.7 %	6.51 %	2.78 %	9.29 %	4 42 %	13.71 %
1991&	1993	107,025	2,693	25,163	(0.5)%		2.45 %	9.02 %		
1992	1994	109,701	2,767	25,224	0.2 %	6.41 %			4 29 %	
1993	1995	112,748	2,894	25,673	1.8 %		2.62 %			3 =
1994	1996	115,238	3,063	26,580	3.5 %					13.31 %
1005	ti o	2								
5661	/661	114,596	3,204	27,962	5.2 %	% 19.9	2.35 %	9.02 %	4.29 %	13.31 %
1996@	1998	115,712	3,319	28,684	2.6 %	6.21 %	2.81 %	9.02 %	4.29 %	13.31 %
1997	1999	114,036	3,405	29,858	4.1 %	6.21 %	2.90 %	9.11 %		
1998	2000	112,323	3,500	31,159	4.4 %	6.21 %	2.90 %	9.11%		
1999#	2001	112,761	3,592	31,851	2.2 %	7.68 %				13.31 %
2000	2002	113 000	3 0 20	100 70						
7000	7007	113,032	2,000	24,201	% 4.7	% 60./	1.32 %	% 10.6	4.30 %	13.31 %
2001	2003	109,219	3,996	36,589	7.0 %	6.17 %	2.14 %	8.31 %	5.00 %	13.31 %
2002	2004	110,011	4,129	37,531	2.6 %	5.95 %			4.00 %	13.31 %
2003##	2005	108,249	4,079	37,679	0.4 %	5.70 %	3.61 %	9.31 %	4.00 %	
2004	2006	110,207	4,165	37,794	0.3 %	5.67 %			4.50 %	13.54 %

After benefit changes. Revised actuarial assumptions. # 60 #

Reflects inclusion of part-time, seasonal, and temporary employees in compliance with OBRA 90 and revised actuarial assumptions. Combined Plan members are included beginning with the December 31, 2003 valuation.

STATE DIVISION DEVELOPMENT OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES DECEMBER 31, 2004

		Allocation by	y Entry Age
	(1)	(2)	(3)
	Total	Portion	Actuarial
	Actuarial	Covered By	Accrued
	Present	Future Normal	Liabilities
Actuarial Present Value	Value	Cost Contributions	(1)-(2)
Allowances currently being paid from the Annuity & Pension Reserve Fund	\$ 10,097,219,629	\$ -	\$ 10,097,219,629
Allowances currently being paid from the Survivors Benefit Fund	443,701,864	-	443,701,864
Age and service allowances based on service rendered before and likely to be rendered after valuation date	13,041,777,668	2,712,726,953	10,329,050,715
Disability allowances likely to be paid present active members who become permanently disabled	1,760,848,654	733,222,622	1,027,626,032
Survivor benefits likely to be paid to spouses and children of present active members who die before retiring	360,564,594	138,182,619	222,381,975
Separation benefits (refunds of contributions and deferred allowances) likely to be paid to present active and inactive members	2,212,587,777	1,350,371,798	862,215,979
Total	\$27,916,700,186	\$4,934,503,992	\$22,982,196,194
Actuarial Value of Assets			20,204,957,192
Unfunded Actuarial Accrued Liability			\$ 2,777,239,002

DEVELOPMENT OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES COMPARATIVE STATEMENT

(\$ IN MILLIONS EXCEPT AVERAGES)

		. 	Active and	Inactive Me	nber Accrue	d Liabilities	
	Defined	d Benefit			nt Allowance		
	Active	Payroll	Computed	Valuation		Amort.	Unfunded
Dec. 31	Total	Average	Total	Assets	Unfunded	Years	/Payroll
		W			_		
1990@	\$2,501	\$25,281	\$ 5,091	\$3,391	\$1,700	34	0.68
1991&	2,693	25,163	5,528	4,030	1,498	32	0.56
1992	2,767	25,224	5,934	4,552	1,382	25	0.50
1993	2,894	25,673	6,671	5,357	1,314	22	0.45
1994	3,063	26,580	7,182	5,956	1,226	21	0.40
to.							
1995	3,204	27,962	7,811	6,706	1,105	17	0.34
1996@	3,319	28,684	8,104	7,387	717	8	0.22
1997	3,405	29,858	8,591	8,268	323	3	0.09
1998	3,500	31,159	9,223	9,666	(443)	-	_
1999#	3,592	31,851	10,298	10,474	(176)	-	-
						_	
2000	3,868	34,201	11,273	11,558	(285)	-	-
2001@	3,996	36,589	11,352	11,863	(511)	_	_
2002	4,129	37,531	11,822	8,965	2,857	38	0.69
2003##	4,079	37,679	12,230	9,030	3,200	43	0.78
2004	4,165	37,794	12,441	9,664	2,777	34	0.67

[#] After benefit changes.

While no one or two numeric indices can fully describe the financial condition of a retirement plan, the ratio of unfunded actuarial accrued liabilities divided by active member payroll ("UNFUNDED / PAYROLL" above) is significant. Unfunded actuarial accrued liabilities represent plan debt, while active member payroll represents the plan's capacity to collect contributions to pay toward debt --- thus the ratio is a relative index of condition. The lower the ratio, the greater the financial strength, and vice-versa.

[@] Revised actuarial assumptions.

[&]amp; Reflects inclusion of part-time seasonal, and temporary employees in compliance with OBRA 90 and revised actuarial assumptions.

^{##} Combined Plan members are included beginning with the December 31, 2003 valuation.

MALE ACTIVE MEMBERS IN DEFINED BENEFIT VALUATION DECEMBER 31, 2004

BY ATTAINED AGE AND YEARS OF SERVICE

ttained			Years of	Service To Valua	tion Date			
Ages	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total
15-19	862	•						862
ot. Pay	\$5,904,632							\$5,904,632
vg. Pay	\$6,850		i i					\$6,850
20-24	4,589	29						4.610
ot. Pay	\$54,695,724	\$798,213						4,618 \$55,493,937
vg. Pay	\$11,919	\$27,525	_ =					\$33,493,937
			= "- ,	·				\$12,017
25-29	3,640	659	8					4,307
ot. Pay	\$84,144,927	\$24,883,537	\$346,003					\$109,374,467
.vg. Pay	\$23,117	\$37,760	\$43,250					\$25,395
30-34	2,528	1,732	531	7				4,798
ot. Pay	\$72,267,133	\$72,612,346	\$24,181,424	\$330,212				\$169,391,115
.vg. Pay	\$28,587	\$41,924	\$45,539	\$47,173				\$35,305
35-39	1.002	1.510	1 700	cma	_ ا			
ot. Pay	1,962 \$58,939,162	1,518 \$66,066,021	1,792	573	7.			5,852
vg. Pay	\$38,939,162	\$43,522	\$90,006,544 \$50,227	\$28,766,956	\$295,803			\$244,074,486
.vg. 1 ay	\$30,040	343,322	\$30,227	\$50,204	\$42,258			\$41,708
40-44	1,833	1,290	1,498	1,799	830	62		7,312
ot. Pay	\$55,355,392	\$55,736,170	\$74,643,191	\$97,800,751	\$42,110,234	\$3,097,277		\$328,743,015
.vg. Pay	\$30,199	\$43,206	\$49,829	\$54,364	\$50,735	\$49,956	П	\$44,959
45-49	1,495	1,081	1,128	1,429	1,600	984	24	7,741
ot. Pay	\$45,152,839	\$48,438,206	\$57,046,270	\$75,063,036	\$88,274,986	\$51,004,715	\$1,246,875	\$366,226,927
vg. Pay	\$30,203	\$44,809	\$50,573	\$52,528	\$55,172	\$51,834	\$51,953	\$47,310
				·			951,555	
50-54	1,177	912	978	1,119	1,198	1,336	364	7,084
ot. Pay	\$36,580,518	\$41,653,935	\$47,930,125	\$59,313,026	\$66,019,864	\$78,639,899	\$21,874,658	\$352,012,025
vg. Pay	\$31,079	\$45,673	\$49,008	\$53,005	\$55,108	\$58,862	\$60,095	\$49,691
55-59	841	665	761	804	741	661	478	4,951
fot. Pay	\$25,517,452	\$29,575,744	\$39,328,727	\$41,945,227	\$41,368,844	\$41,142,060	\$32,122,872	\$251,000,926
vg. Pay	\$30,342	\$44,475	\$51,680	\$52,171	\$55,828	\$62,242	\$67,203	\$50,697
60-64	367	298	365	349	262	10.	177	
fot. Pay	\$9,157,713	\$12,623,574	\$19,004,517	\$18,957,400	\$13,778,522	191 \$11,816,345	171 \$12,154,872	2,003 \$97,492,943
vg. Pay	\$24,953	\$42,361	\$52,067	\$54,319	\$52,590	\$61,866	\$71,081	\$97,492,943 \$48,673
				Ψ51,517	432, 390	\$01,000	\$71,001	376,075
65-69	185	101	95	80	68	43	49	621
Tot. Pay	\$3,024,815	\$3,630,105	\$4,902,274	\$4,649,528	\$4,115,521	\$2,860,721	\$3,477,437	\$26,660,401
vg. Pay	\$16,350	\$35,942	\$51,603	\$58,119	\$60,522	\$66,528	\$70,968	\$42,931
0 & Over	163	69	47	29	21	20	23	372
Tot. Pay	\$1,417,936	\$1,026,192	\$2,273,577	\$1,316,575	\$1,091,440	\$1,395,045	\$1,371,874	\$9,892,639
lvg. Pay	\$8,699	\$14,872	\$48,374	\$45,399	\$51,973	\$69,752	\$59,647	\$26,593
Totals	19,642	8,354	7,203	6,189	4,727	3,297	1,109	50,521
Tot. Pay	\$452,158,243	\$357,044,043	\$359,662,652	\$328,142,711	\$257,055,214	\$189,956,062	\$72,248,588	\$2,016,267,513
vg. Pay	\$23,020	\$42,739	\$49,932	\$53,020	\$54,380	\$57,615	\$65,148	\$39,909

FEMALE ACTIVE MEMBERS IN DEFINED BENEFIT VALUATION DECEMBER 31, 2004

BY ATTAINED AGE AND YEARS OF SERVICE

ttained				Service To Valus				
Ages	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total
15-19	905							905
ot. Pay	\$5,497,113							\$5,497,113
vg. Pay	\$6,074					_		\$6,074
20-24	5,730	39						5,769
ot. Pay	\$65,623,721	\$891,867						\$66,515,588
vg. Pay	\$11,453	\$22,868						\$11,530
					4			
25-29 ot. Pay	4,119 \$102,569,348	755	15					4,889
vg. Pay	\$102,369,348	\$26,894,318 \$35,622	\$494,478 \$32,965					\$129,958,144
vg. 1 4y	\$24,502	\$33,022	\$32,903					\$26,582
30-34	2,792	1,760	563	14				5,129
ot. Pay	\$79,456,905	\$68,584,716	\$24,129,610	\$529,830				\$172,701,061
vg. Pay	\$28,459	\$38,969	\$42,859	\$37,845				\$33,671
35-39	2,388	1,591	1,620	702	30			6,331
ot. Pay	\$70,057,294	\$62,118,887	\$73,750,788	\$31,343,021	\$1,352,221			\$238,622,211
vg. Pay	\$29,337	\$39,044	\$45,525	\$44,648	\$45,074			\$37,691
40-44	2,298	1,516	1,552	1,820	861	111		0.160
ot. Pay	\$66,710,411	\$57,860,819	\$69,555,316	\$87,388,251	\$41,838,582	\$5,558,316		8,158 \$328,911,695
vg. Pay	\$29,030	\$38,167	\$44,817	\$48,016	\$48,593	\$50,075		\$40,318
45-49	2,109	1,520	1,477	1,603	1,592	1,188	40	9,529
ot. Pay	\$60,117,974	\$58,226,630	\$64,998,544	\$74,955,799	\$80,343,644	\$57,775,381	\$1,994,546	\$398,412,518
.vg. Pay	\$28,505	\$38,307	\$44,007	\$46,760	\$50,467	\$48,632	\$49,864	\$41,811
50-54	1,649	1,330	1,455	1,473	1,178	1,460	376	8,921
ot. Pay	\$48,847,993	\$52,124,030	\$64,144,907	\$69,769,114	\$59,369,244	\$76,747,195	\$18,949,970	\$389,952,453
.vg. Pay	\$29,623	\$39,191	\$44,086	\$47,365	\$50,398	\$52,567	\$50,399	\$43,712
55-59	945	891	1,073	1,231	933	768	391	6,232
ot. Pay	\$26,538,103	\$34,145,250	\$47,019,170	\$55,030,404	\$45,218,218	\$37,733,644	\$20,354,919	\$266,039,708
vg. Pay	\$28,083	\$38,322	\$43,820	\$44,704	\$48,465	\$49,132	\$52,059	\$42,689
60-64	377	366	384	502	460			
Fot. Pay	\$10,059,032	\$13,040,176	\$16,157,360	583 \$25,936,285	460 \$20,869,789	349 \$16,892,740	145 \$7,387,740	2,664 \$110,343,122
vg. Pay	\$26,682	\$35,629	\$42,076	\$44,488	\$45,369	\$48,403	\$7,387,740	\$110,343,122
I								
65-69	124	110	136	159	141	112	61	843
Fot. Pay	\$2,164,158	\$3,462,207	\$5,577,227	\$6,749,927	\$6,189,795	\$4,999,111	\$2,885,102	\$32,027,527
vg. Pay	\$17,453	\$31,475	\$41,009	\$42,452	\$43,899	\$44,635	\$47,297	\$37,992
) & Over	77	32	31	53	30	41	52	316
Fot. Pay	\$789,013	\$747,475	\$968,054	\$1,980,447	\$1,216,488	\$1,901,773	\$2,324,509	\$9,927,759
vg. Pay	\$10,247	\$23,359	\$31,228	\$37,367	\$40,550	\$46,385	\$44,702	\$31,417
Totals	23,513	9,910	8,306	7,638	5,225	4,029	1,065	59,686
ot. Pay	\$538,431,065	\$378,096,375	\$366,795,454	\$353,683,078	\$256,397,981	\$201,608,160	\$53,896,786	\$2,148,908,899
vg. Pay	\$22,899	\$38,153	\$44,160	\$46,306	\$49,071	\$50,039	\$50,607	\$36,004

STATE DIVISION INACTIVE MEMBERS IN DEFINED BENEFIT VALUATION DECEMBER 31, 2004 BY ATTAINED AGE AND YEARS OF SERVICE

Attained		Ye	ears of Ser	vice to Va	luation Da	ite		Total
Ages	0-4	5-9	10-14	15-19	20-24	25-29	30+	Number
15-19 20-24 25-29	633 8,999 17,628	48						633 8,999 17,676
30-34 35-39 40-44 45-49	15,915 8,590 6,213 5,901	289 650 784 742	20 215 505 626	15 125 245	8 59	2		16,224 9,470 7,635 7,575
50-54 55-59 60-64 65-69 70 & Over	5,160 3,453 1,666 714 663	712 644 277 53 27	635 582 177 30	338 288 62 8	127 106 19 3	16 17 3 2	1	6,988 5,090 2,204 811 703
Totals	75,535	4,226	2,796	1,083	325	42	1	84,008

LOCAL GOVERNMENT DIVISION

Data on active, inactive, retired and money purchase members that was used in the valuation is tabulated briefly below.

Defined Benefit Active Members in Valuation December 31, 2004

		Annual		Average		
Groups	Number	Payroll	Pay	Age	Service	
Men	108,751	\$3,400,687,714	\$31,270	43.6 yrs.	9.3 yrs.	
Women	128,156	3,495,772,525	27,277	42.7	8.8	
Totals	236,907	\$6,896,460,239	\$29,110	43.1 yrs.	9.0 yrs.	

Also included in the valuation were 190,255 inactive members eligible for deferred retirement allowances or contribution refunds and 10,891 members active in the money purchase plan.

Retired Members in Valuation December 31, 2004

		Current	Actuarial
Fund / Type of Allowance	Number	Monthly Benefits	Liabilities
A & PR Fund			
Superannuation Retirement	72,534	\$ 89,485,632	\$11,096,878,561
Disability Retirement	10,728	17,223,863	2,294,641,741
Money Purchase	713	202,086	19,592,728
Total A & PR Fund	83,975	106,911,581	13,411,113,030
Total SBF	9,649	6,751,583	746,428,993
Grand Total	93,624	\$113,663,164	\$14,157,542,023

LOCAL GOVERNMENT DIVISION EMPLOYER CONTRIBUTIONS TO SUPPORT

DEFINED BENEFIT RETIREMENT ALLOWANCES EXPRESSED AS PERCENTS OF ACTIVE MEMBER PAYROLL

Valuation Date December 31	2004	2003
Contributions for	2006	2005
Normal Cost		
Age and Service Allowances	8.31 %	8.29 %
Disability Allowances	2.06 %	2.06 %
Survivor's Benefits	0.47 %	0.47 %
Separation Benefits	3.73 %	3.34 %
Total Normal Cost	14.57 %	14.16 %
(Member Contributions)	9.00 %	8.50 %
Employer Normal Cost	5.57 %	5.66 %
Unfunded Actuarial Accrued Liabilities		
Total Available Contribution	3.63 %	3.89 %
Amortization Years - HCPP	21	25
Total Pension Employer Contribution Rate	9.20 %	9.55 %

The term "Amortization Years" refers to the period sufficient to produce the Total Employer Contribution Rate for retirement allowances and survivor benefits.

LOCAL GOVERNMENT DIVISION COMPARATIVE STATEMENT

	Contribution					Compute	Computed Employer Contributions as % of Payroll	· Contribut	ions as % o	f Pavroll
Valuation	Rate	Defined Benefit		Active Members in Valuation	n Valuation		Unfunded			1016
Date	Effective		A	Annual Payroll	IIC	Normal	Accrued	Pension	Refire	Grand
December 31	January 1	No.	Total	Average	Increase	Cost	Liability	Total	Health	Total
	ii		(\$millions)							
1990@	1992	173,220	\$3,379	\$19,506	4.4 %	6.02 %	2.67 %	8.69 %	2.26 %	13 95 %
1991&	1993	211,835	3,789	17,884	(8.3)%	5.95 %		8.44 %		13.55 %
1992	1994	218,295	3,953	18,109	1.3 %	5.80 %		8.44 %		13 55 %
1993	1995	220,410	4,159	18,869	4.2 %	5.85 %	2.59 %	8.44 %	5.11%	13.55 %
1994	1996	221,987	4,366	19,666	4.2 %			4		
1005	1001		i i							
5661	1997	223,431	4,555	20,384	3.7 %	6.17 %	2.27 %	8.44 %	5.11 %	13.55 %
1996@	8661	229,954	4,792	20,839	2.2 %	6.16 %	2.28 %	8.44 %	5.11 %	13.55 %
1997	1999	231,668	4,976	21,481	3.1 %	6.15 %	3.20 %	9.35 %		13.55 %
1998	2000	234,601	5,240	22,334	4.0 %	6.17 %	3.18 %		4.20 %	13.55 %
1999#	2001	240,005	5,586	23,276	4.2 %	7.68 %			30	
2000	2002	245 831	2 000	24.401	70 0 4			i d		
()	7007	100,027	2,777	74,401	4.0 %			% 57.6	4.30 %	13.55 %
2001(@	2003	243,202	6,451	26,526	8.7 %	6.14 %		8.55 %	2.00 %	13.55 %
2002	2004	247,377	6,721	27,171	2.4 %	5.92 %	3.63 %	9.55 %	4.00 %	13.55 %
7003##	2005	237,082	6,702	28,269	4.0 %	2.66 %	3.89 %	9.55 %	4.00 %	13.55 %
2004	2006	236,907	968'9	29,110	3.0 %	5.57 %	3.63 %	9.20 %	4.50 %	13.70 %

After benefit changes. Revised actuarial assumptions. # @ & #

Reflects inclusion of part-time, seasonal and temporary employees in compliance with OBRA 90 and revised actuarial assumptions. Combined Plan members are included beginning with the December 31, 2003 valuation.

LOCAL GOVERNMENT DIVISION DEVELOPMENT OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES DECEMBER 31, 2004

		Allocation b	y Entry Age
	(1)	(2)	(3)
	Total	Portion	Actuarial
	Actuarial	Covered By	Accrued
	Present	Future Normal	Liabilities
Actuarial Present Value	Value	Cost Contributions	(1)-(2)
Allowances currently being paid from			
the Annuity & Pension Reserve Fund	\$13,411,113,030	\$ -	Ø12 411 112 020
are Aminary & Tension Reserve Faind	\$15,411,115,050	-	\$13,411,113,030
Allowances currently being paid from			
the Survivors Benefit Fund	746,428,993	_	746,428,993
	, 10, 120,550		740,420,773
Age and service allowances based on			
service rendered before and likely			
to be rendered after valuation date	19,999,784,851	4,785,326,171	15,214,458,680
Disability allowances likely to be paid			
present active members who become			
permanently disabled	2,593,378,894	1,221,621,721	1,371,757,173
Survivor benefits likely to be paid to			
spouses and children of present active	(51.055.005		
members who die before retiring	674,275,387	269,643,922	404,631,465
Separation benefits (refunds of contributions			
and deferred allowances) likely to be paid			
to present active and inactive members	2 551 402 950	2 272 570 002	1 277 021 040
to present deave and macuve memoris	3,551,492,850	2,273,570,902	1,277,921,948
Total	\$40,976,474,005	\$8,550,162,716	\$32,426,311,289
	4 . 0,5 / 0, 1 / 1,005	Ψ0,550,102,710	ΨJ2,720,J11,209
Actuarial Value of Assets			28,380,481,841
Unfunded Actuarial Accrued Liability			\$ 4,045,829,448

LOCAL GOVERNMENT DIVISION

DEVELOPMENT OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES COMPARATIVE STATEMENT

(\$ IN MILLIONS EXCEPT AVERAGES)

			Active and	Inactive Mei	mber Accrue	d Liabilities	
	Define	d Benefit		or Retireme	nt Allowance	s	
	Active	Payroll Payroll	Computed	Valuation		Amort.	Unfunded
Dec. 31	Total	Average	Total	Assets	Unfunded	Years	/Payroll
1990@	\$ 3,379	\$19,506	\$ 6,666	\$ 4,335	\$2,331	37	0.69
1991&	3,789	17,884	7,479	5,181	2,298	36	0.61
1992	3,953	18,109	8,147	6,046	2,101	27	0.53
1993	4,159	18,869	9,291	7,147	2,144	26	0.52
1994	4,366	19,666	9,894	7,814	2,080	28	0.48
			1				
1995	4,555	20,384	10,630	8,856	1,774	21	0.39
1996@	4,792	20,839	11,286	9,940	1,346	15	0.28
1997	4,976	21,481	11,973	11,218	755	5	0.15
1998	5,240	22,334	12,912	13,135	(223)	<u>-</u>	~
1999#	5,586	23,276	14,643	14,498	145	2	0.03
						L	
2000	5,999	24,401	15,881	16,131	(250)	-	-
2001@	6,451	26,526	15,983	16,651	(668)		_
2002	6,721	27,171	16,710	12,682	4,028	25	0.60
2003##	6,702	28,269	17,645	13,148	4,497	27	0.67
2004	6,896	29,110	18,269	14,223	4,046	23	0.59

[#] After benefit changes.

While no one or two numeric indices can fully describe the financial condition of a retirement plan, the ratio of unfunded actuarial accrued liabilities divided by active member payroll ("UNFUNDED / PAYROLL" above) is significant. Unfunded accrued liabilities represent plan debt, while active member payroll represents the plan's capacity to collect contributions to pay toward debt --- thus the ratio is a relative index of condition. The lower the ratio, the greater the financial strength, and viceversa.

[@] Revised actuarial assumptions.

[&]amp; Reflects inclusion of part-time, seasonal, and temporary employees in compliance with OBRA 90 and revised actuarial assumptions.

^{##} Combined Plan members are included beginning with the December 31, 2003 valuation..

LOCAL GOVERNMENT DIVISION MALE ACTIVE MEMBERS IN DEFINED BENEFIT VALUATION DECEMBER 31, 2004

BY ATTAINED AGE AND YEARS OF SERVICE

ttained			Years of	Service To Valua	ntion Date			
Ages	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total
15-19 ot. Pay vg. Pay	5,124 \$32,226,143 \$6,289							5,124 \$32,226,143 \$6,289
20-24 ot. Pay vg. Pay	7,708 \$97,771,102 \$12,684	195 \$3,950,977 \$20,261						7,903 \$101,722,079 \$12,871
25-29 ot. Pay vg. Pay	5,506 \$122,977,605 \$22,335	1,479 \$48,974,196 \$33,113	48 \$1,655,323 \$34,486	-		9		7,033 \$173,607,124 \$24,685
30-34 ot. Pay vg. Pay	4,882 \$121,672,512 \$24,923	3,014 \$113,300,629 \$37,591	995 \$39,787,420 \$39,987	32 \$1,240,947 \$38,780				8,923 \$27 6,001,508 \$30,93 1
35-39 ot. Pay vg. Pay	4,254 \$104,893,406 \$24,658	3,102 \$120,789,825 \$38,939	2,428 \$105,168,382 \$43,315	922 \$40,715,093 \$44,160	31 \$1,528,473 \$49,306		-	10,737 \$373,095,179 \$34,749
40-44 ot. Pay vg. Pay	4,225 \$98,290,456 \$23,264	3,038 \$113,905,012 \$37,493	2,600 \$110,372,598 \$42,451	2,546 \$118,547,587 \$46,562	1,102 \$51,992,817 \$47,180	111 \$5,256,643 \$47,357		13,622 \$498,365,113 \$36,585
45-49 ot. Pay vg. Pay	4,049 \$89,608,688 \$22,131	2,995 \$105,698,103 \$35,292	2,539 \$103,472,770 \$40,753	2,561 \$117,908,320 \$46,040	2,196 \$109,609,423 \$49,913	1,707 \$85,829,825 \$50,281	94 \$4,927,585 \$52,421	16,141 \$617,054,714 \$38,229
50-54 ot. Pay	3,580 \$75,422,391 \$21,068	2,446 \$81,619,169 \$33,368	2,283 \$86,999,392 \$38,107	2,096 \$92,977,160 \$44,359	1,863 \$93,206,179 \$50,030	2,353 \$127,021,952 \$53,983	827 \$47,098,670 \$56,951	15,448 \$604,344,913 \$39,121
55-59 'ot. Pay vg. Pay	3,022 \$61,069,720 \$20,208	1,820 \$57,395,925 \$31,536	1,747 \$64,531,895 \$36,939	1,615 \$70,062,274 \$43,382	1,263 \$60,290,656 \$47,736	1,223 \$64,716,251 \$52,916	870 \$52,582,762 \$60,440	11,560 \$430,649,483 \$37,253
60-64 'ot. Pay vg. Pay	1,924 \$26,908,316 \$13,986	1,180 \$32,218,872 \$27,304	882 \$30,495,534 \$34,575	801 \$32,447,865 \$40,509	613 \$27,234,106 \$44,428	473 \$23,062,797 \$48,759	340 \$19,925,302 \$58,604	6,213 \$192,292,792 \$30,950
65-69 'ot. Pay .vg. Pay	1,403 \$12,389,128 \$8,830	607 \$10,276,051 \$16,929	398 \$10,778,009 \$27,080	289 \$9,716,460 \$33,621	205 \$7,822,594 \$38,159	149 \$7,105,759 \$47,690	129 \$6,752,847 \$52,348	3,180 \$64,840,848 \$20,390
& Over ot. Pay vg. Pay	1,344 \$9,342,306 \$6,951	711 \$7,139,475 \$10,041	360 \$5,641,734 \$15,671	192 \$4,742,898 \$24,703	106 \$2,968,548 \$28,005	57 \$2,038,461 \$35,762	97 \$4,614,396 \$47,571	2,867 \$36,487,818 \$12,727
Totals ot. Pay vg. Pay	47,021 \$852,571,773 \$18,132	20,587 \$695,268,234 \$33,772	14,280 \$558,903,057 \$39,139	11,054 \$488,358,604 \$44,179	7,379 \$354,652,796 \$48,062	6,073 \$315,031,688 \$51,874	2,357 \$135,901,562 \$57,659	108,751 \$3,400,687,714 \$31,270

LOCAL GOVERNMENT DIVISION FEMALE ACTIVE MEMBERS IN DEFINED BENEFIT VALUATION DECEMBER 31, 2004

BY ATTAINED AGE AND YEARS OF SERVICE

tained			Years of	Service To Valua	tion Date			
Ages	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total
15-19	5,925							5,925
ot. Pay	\$32,538,238							\$32,538,238
vg. Pay	\$5,492							\$5,492
20-24	8,321	217						8,538
ot. Pay	\$100,153,761	\$4,056,668						\$104,210,429
vg. Pay	\$12,036	\$18,694						\$12,205
25-29	7,536	1,913	93					9,542
ot. Pay	\$170,077,293	\$56,383,815	\$2,691,721					\$229,152,829
vg. Pay	\$22,569	\$29,474	\$28,943					\$24,015
30-34	6,281	4,276	1,287	55				11,899
ot. Pay	\$146,071,159	\$141,294,596	\$43,835,085	\$1,871,073				\$333,071,913
vg. Pay	\$23,256	\$33,044	\$34,060	\$34,020				\$27,992
35-39	5,809	3,736	2,731	1,236	59			13,571
ot. Pay	\$129,856,102	\$123,755,337	\$101,452,097	\$45,591,746	\$2,263,150			\$402,918,432
vg. Pay	\$22,354	\$33,125	\$37,148	\$36,887	\$38,358			\$29,690
40-44	6,107	3,969	2,822	2,520	1,189	146		16,753
ot. Pay	\$127,951,420	\$122,870,268	\$101,647,552	\$101,521,903	\$46,043,873	\$5,744,842		\$505,779,858
vg. Pay	\$20,952	\$30,957	\$36,020	\$40,286	\$38,725	\$39,348		\$30,190
45-49	5,892	4,312	3,185	2,507	1,985	1,611	66	19,558
ot. Pay	\$121,518,416	\$127,047,756	\$108,999,992	\$99,703,159	\$85,998,852	\$67,200,907	\$2,880,348	\$613,349,430
vg. Pay	\$20,624	\$29,464	\$34,223	\$39,770	\$43,324	\$41,714	\$43,642	\$31,361
50-54	4,643	3,477	3,171	2,507	1,716	1,757	552	17,823
ot. Pay	\$94,763,076	\$101,492,271	\$103,972,242	\$94,938,602	\$70,335,595	\$80,531,973	\$25,672,026	\$571,705,785
vg. Pay	\$20,410	\$29,190	\$32,788	\$37,869	\$40,988	\$45,835	\$46,507	\$32,077
55-59	3,087	2,442	2,574	2,398	1,563	1,131	522	13,717
ot. Pay	\$58,214,646	\$65,212,798	\$80,374,779	\$84,794,933	\$62,218,752	\$48,201,223	\$25,819,056	\$424,836,187
vg. Pay	\$18,858	\$26,705	\$31,226	\$35,361	\$39,807	\$42,618	\$49,462	\$30,972
60-64	1,363	1,240	1,196	1,170	846	613	251	6,679
ot. Pay	\$20,504,115	\$30,253,818	\$34,111,232	\$39,751,179	\$31,482,284	\$24,861,380	\$11,482,700	\$192,446,708
vg. Pay	\$15,043	\$24,398	\$28,521	\$33,975	\$37,213	\$40,557	\$45,748	\$28,814
65-69	735	489	417	363	267	216	137	2,624
ot. Pay	\$6,517,526	\$8,962,881	\$10,120,667	\$11,608,014	\$9,254,877	\$8,402,242	\$6,011,545	\$60,877,752
vg. Pay	\$8,867	\$18,329	\$24,270	\$31,978	\$34,662	\$38,899	\$43,880	\$23,200
& Over	506	294	225	168	130	110	94	1,527
ot. Pay	\$3,473,166	\$3,167,940	\$3,082,785	\$4,198,880	\$4,080,015	\$3,381,231	\$3,500,947	\$24,884,964
vg. Pay	\$6,864	\$10,775	\$13,701	\$24,993	\$31,385	\$30,738	\$37,244	\$16,297
Totals	56,205	26,365	17,701	12,924	7,755	5,584	1,622	128,156
ot. Pay vg. Pay	\$1,011,638,918 \$17,999	\$784,498,148 \$29,755	\$590,288,152	\$483,979,489	\$311,677,398	\$238,323,798	\$75,366,622	\$3,495,772,525
vg. ray	#11/JU	347,133	\$33,348	\$37,448	\$40,191	\$42,680	\$46,465	\$27,277

LOCAL GOVERNMENT DIVISION INACTIVE MEMBERS IN DEFINED BENEFIT VALUATION DECEMBER 31, 2004 BY ATTAINED AGE AND YEARS OF SERVICE

Attained		Ye	ears of Ser	vice to Va	luation Da	ite		Total
Ages	0-4	5-9	10-14	15-19	20-24	25-29	30+	Number
15-19	4,701							4,701
20-24	26,693	16		- 4				26,709
25-29	31,128	180						31,308
30-34	24,966	718	53	1				25,738
35-39	17,227	1,173	372	19	1			18,792
40-44	15,487	1,258	770	183	20			17,718
45-49	17,001	1,510	1,027	386	125	8		20,057
50-54	14,986	1,660	1,131	456	189	58		18,480
55-59	10,355	1,403	1,096	474	198	23	3	13,552
60-64	5,639	645	362	162	53	8		6,869
65-69	2,972	227	60	21	5	5	1	3,291
70 & Over	2,879	119	23	12	3	3	1	3,040
Totals	174,034	8,909	4,894	1,714	594	105	5	190,255

SECTION VII

Law Division

LAW DIVISION

This Benefit Group consists of Law Enforcement Members and Public Safety Members. Data on active, inactive, retired and money purchase members that was used in the valuation is tabulated briefly below.

Active Members in Valuation December 31, 2004

		Annual		Average	
Groups	Number	Payroll	Pay	Age	Service
Men	7,189	\$348,779,210	\$48,516	39.8 yrs.	12.6 yrs.
Women	984	43,892,464	44,606	39.1	11.0
Totals	8,173	\$392,671,674	\$48,045	39.7 yrs.	12.4 yrs.

Also included in the valuation were 696 inactive members eligible for deferred retirement allowances or contribution refunds and 16 members active in the money purchase plan.

Retired Members in Valuation December 31, 2004

Fund / Type of Allowance	Number	Current Monthly Benefits	Actuarial Liabilities
A & PR Fund		Tradelly Delicites	Liubilities
Superannuation Retirement	1,541	\$3,650,321	\$547,156,978
Disability Retirement	1,165	2,796,681	414,832,188
Money Purchase	0	0	0
Total A & PR Fund	2,706	6,447,002	961,989,166
Total SBF	327	275,615	36,974,827
Grand Total	3,033	\$6,722,617	\$998,963,993

LAW DIVISION EMPLOYER CONTRIBUTIONS TO SUPPORT RETIREMENT ALLOWANCES

EXPRESSED AS PERCENTS OF ACTIVE MEMBER PAYROLL

Valuation Date December 31	2004@	2003@
Contributions for	2006	2005
Normal Cost		
Age and Service Allowances	11.38 %	11.37 %
Disability Allowances	4.68 %	4.69 %
Survivor's Benefits	0.53 %	0.54 %
Separation Benefits	2.13 %	2.13 %
Total Normal Cost	18.72 %	18.73 %
(Member Contributions)	10.09 %	10.08 %
Employer Normal Cost	8.63 %	8.65 %
Unfunded Actuarial Accrued Liabilities		
Total Available Contribution	3.80 %	4.05 %
Amortization Years - HCPP	41	43
Total Pension Employer Contribution Rate	12.43 %	12.70 %

[@] Weighted average between Public Safety and Law Enforcement.

The term "Amortization Years" refers to the period sufficient to produce the Total Employer Contribution Rate for retirement allowances and survivor benefits.

COMPARATIVE STATEMENT LAW DIVISION

	Contribution					Compute	Computed Employer Contributions as % of Payroll	r Contribut	ions as % o	f Pavroll
Valuation	Rate	Ac	Active Member	Members in Valuation	ion		Unfunded			
Date	Effective		An	Annual Payroll		Normal	Accrued	Pension	Retiree	Grand
December 31	January 1	No.	Total	Average	Increase	Cost	Liability	Total	Health	Total
			(\$thousands)							
1990@	1992	5,804	\$156,339	\$26,936		9.52 %	1.29 %	10.81 %	2.19 %	16 00 %
1991	1993	880'9	169,008	27,761						16.70 %
1992	1994	5,852	169,337	28,937	4.2 %	9.65 %	1.16 %	10.81 %	5.89 %	16.70 %
1993	1995	6,032	182,576	30,268						16.70 %
1994	1996	6,252	196,467	31,425	3.8 %					16.70 %
1995	1997	6,605	214,273	32,441	3.2 %	% 69.6	1.12 %	10.81 %	5.89 %	16.70 %
1996@	1998	6,742	229,138	33,987	4.8 %	10.50 %	0.74 %	11.24 %	5.46 %	16.70 %
1997	1999	7,256	258,897	35,680	5.0 %	10.49 %	2.01 %		4.20 %	16.70 %
1998	2000	7,507	277,239	36,931	3.5 %	10.48 %				16.70 %
1999#	2001	7,766	299,040	38,506	4.3 %	11.54 %		40		16.70 %
0000	0000	2700	010	000						
2000	7007	0,045	324,918	40,387		11.59 %	% 18.0	12.40 %	4.30 %	16.70 %
2001	2003	7,892	335,432	42,503		8.88 %	2.82 %	11.70 %	5.00 %	16.70 %
2002	2004	8,030	356,694	44,420	4.5 %	8.77 %	3.93 %	12.70 %	4.00 %	16.70 %
2003	2005	8,253	384,388	46,576	4.9 %	8.65 %	4.05 %	12.70 %	4.00 %	16.70 %
2004	2006	8,173	392,672	48,045	3.2 %	8.63 %	3.80 %	12.43 %	4.50 %	

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After benefit changes. Revised actuarial assumptions.

LAW DIVISION DEVELOPMENT OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES DECEMBER 31, 2004

		Allocation by	y Entry Age
Actuarial Present Value	(1) Total Actuarial Present Value	(2) Portion Covered By Future Normal Cost Contributions	(3) Actuarial Accrued Liabilities (1)-(2)
Allowances currently being paid from the Annuity & Pension Reserve Fund	\$ 961,989,166	\$ -	\$ 961,989,166
Allowances currently being paid from the Survivors Benefit Fund	36,974,825	-	36,974,825
Age and service allowances based on service rendered before and likely to be rendered after valuation date	1,381,260,871	440,655,910	940,604,961
Disability allowances likely to be paid present active members who become permanently disabled	380,359,701	178,933,741	201,425,960
Survivor benefits likely to be paid to spouses and children of present active members who die before retiring	46,149,949	19,958,632	26,191,317
Separation benefits (refunds of contributions and deferred allowances) likely to be paid to present active and inactive members	110,938,162	82,655,259	28,282,903
Total	\$2,917,672,674	\$722,203,542	\$2,195,469,132
Actuarial Value of Assets			1,866,844,519
Unfunded Actuarial Accrued Liability			\$ 328,624,613

LAW DIVISION

DEVELOPMENT OF UNFUNDED ACTUARIAL ACCRUED LIABILITIES COMPARATIVE STATEMENT (\$ IN MILLIONS EXCEPT AVERAGES)

	Active and Inactive Member Accrued Liabilities						
			f				
		Payroll	Computed	Valuation		Amort.	Unfunded
Dec. 31	Total	Average	Total	Assets	Unfunded	Years	/Payroll
10000							
1990@	\$156	\$26,936	\$ 388	\$ 341	\$ 47	32	0.30
1991	169	27,761	438	399	39	19	0.23
1992	169	28,937	467	452	15	8	0.09
1993	183	30,268	533	512	21	10	0.11
1994	196	31,425	580	555	25	13	0.13
1995	214	32,441	638	612	26	12	0.12
1996@	229	33,987	711	676	35	30	0.15
1997	259	35,680	821	773	48	10	0.19
1998	277	36,931	914	895	19	5	0.07
1999#	299	38,506	1,080	1,038	42	20	0.14
2000	325	40,387	1,175	1,137	38	18	0.12
2001@	335	42,503	1,071	1,149	(78)		0.12
2002	357	44,420	1,135	854	281	36	0.79
2003	384	46,576	1,170	838	332	41	0.79
2004	393	48,045	1,197	868	329	43	0.84

[#] After benefit changes.

While no one or two numeric indices can fully describe the financial condition of a retirement plan, the ratio of unfunded actuarial accrued liabilities divided by active member payroll ("UNFUNDED / PAYROLL" above) is significant. Unfunded accrued liabilities represent plan debt, while active member payroll represents the plan's capacity to collect contributions to pay toward debt --- thus the ratio is a relative index of condition. The lower the ratio, the greater the financial strength, and viceversa.

[@] Revised actuarial assumptions.

LAW DIVISION MALE ACTIVE MEMBERS IN VALUATION DECEMBER 31, 2004 BY ATTAINED AGE AND YEARS OF SERVICE

ttained			Years of	Service To Valua	ation Date			T
Ages	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total
15-19			- ' ' ' '					7000
ot. Pay						•		
vg. Pay								
20.24								
20-24	133	4			Ì			137
ot. Pay	\$4,041,689	\$149,372						\$4,191,061
vg. Pay	\$30,389	\$37,343						\$30,592
25-29	491	303	6					800
ot. Pay	\$19,074,773	\$13,428,641	\$301,712					\$32,805,126
vg. Pay	\$38,849	\$44,319	\$50,285					\$32,803,120
20.24	242	0.54						
30-34 ot. Pay	342 \$13,401,347	\$56 \$39,791,394	332	3				1,533
vg. Pay	\$13,401,347		\$16,714,091	\$136,383				\$70,043,215
vg. Fay	\$39,183	\$46,485	\$50,344	\$45,461				\$45,690
35-39	167	415	593	197	3			1,375
ot. Pay	\$6,547,011	\$19,099,405	\$30,636,299	\$10,385,079	\$214,368			\$66,882,162
vg. Pay	\$39,204	\$46,023	\$51,663	\$52,716	\$71,456			\$48,642
40-44	79	163	202					
ot. Pay	\$3,115,213	162 \$7,464,536	293 \$14,641,187	411	169	3		1,117
vg. Pay	\$39,433	\$46,077	\$49,970	\$21,829,731	\$9,202,349	\$143,398		\$56,396,414
· · · · · · · · · · · · · · · · · · ·	\$37,433	\$ +0,0 //	\$49,970	\$53,114	\$54,452	\$47,799		\$50,489
45-49	43	88	136	207	337	181	3	995
ot. Pay	\$1,513,717	\$4,005,740	\$6,551,724	\$10,920,595	\$19,547,399	\$10,585,977	\$165,668	\$53,290,820
vg. Pay	\$35,203	\$45,520	\$48,174	\$52,756	\$58,004	\$58,486	\$55,223	\$53,559
50-54	24	53	79	119	104	204		
ot. Pay	\$845,783	\$2,290,670	\$3,747,683	\$6,058,913	184 \$10,061,648	204	60	723
vg. Pay	\$35,241	\$43,220	\$47,439	\$50,915	\$10,061,648	\$12,397,953	\$3,913,264	\$39,315,914
			ψ+7, 1 32	\$30,913	\$24,003	\$60,774	\$65,221	\$54,379
55-59	19	20	54	41	77	68	57	336
ot. Pay	\$665,478	\$685,216	\$2,423,662	\$2,063,027	\$3,980,025	\$3,921,425	\$3,711,215	\$17,450,048
vg. Pay	\$35,025	\$34,261	\$44,883	\$50,318	\$51,689	\$57,668	\$65,109	\$51,935
60-64	5	11	15	27	20	- 10		
ot. Pay	\$213,359	\$575,203	\$627,070	\$1,245,339	\$1,083,479	19 \$1,098,103	23 \$1,340,137	120
vg. Pay	\$42,672	\$52,291	\$41,805	\$46,124	\$54,174	\$57,795		\$6,182,690
1		, , ,	112,000	7 10,124	Ψ	Ψυ1,190	\$58,267	\$51,522
65-69	7	6	6	8	6	6	8	47
ot. Pay	\$93,372	\$206,608	\$236,942	\$ 308,1 <i>55</i>	\$327,653	\$337,182	\$463,149	\$1,973,061
vg. Pay	\$13,339	\$34,435	\$39,490	\$38,519	\$54,609	\$56,197	\$57,894	\$41,980
& Over	1	1	1	ł	,	ł	ا ۾	
ot. Pay	\$8,763	\$9,930	\$36,647		\$46,464	ŀ	\$146,895	6240 600
g. Pay	\$8,763	\$9,930	\$36,647		\$46,464	ļ	\$73,448	\$248,699 \$41,450
otals	1,311	1,919		10101				
ot. Pay	\$49,520,505	\$87,706,715	1,515 \$75,917,017	1,013 \$52,947,222	797	481	153	7,189
g. Pay	\$37,773	\$45,704	\$50,110	\$52,947,222	\$44,463,385 \$55,788	\$28,484,038 \$59,218	\$9,740,328	\$348,779,210
		Ţ. Ţ ,,,,	450,110	ψJ2,200	ا 70/,00	#37,416 <u> </u>	\$63,662	\$48,516

LAW DIVISION FEMALE ACTIVE MEMBERS IN VALUATION DECEMBER 31, 2004 BY ATTAINED AGE AND YEARS OF SERVICE

ttained			Years of S	ervice To Valuat	ion Date			
Ages	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total
15-19								
ot. Pay								
vg. Pay								
20-24	28	2						30
ot. Pay	\$779,362	\$55,833						\$835,195
vg. Pay	\$27,834	\$27,917						\$27,840
25-29	83	55						138
ot. Pay	\$3,014,769	\$2,516,038						\$5,530,807
vg. Pay	\$36,323	\$45,746						\$40,078
30-34	52	97	40		20			189
ot. Pay	\$1,989,573	\$4,410,086	\$1,981,063					\$8,380,722
vg. Pay	\$38,261	\$45,465	\$49,527					\$44,342
35-39	30	63	60	23	1			177
ot. Pay	\$1,040,428	\$2,804,584	\$2,980,178	\$1,087,291	\$42,471			\$7,954,952
vg. Pay	\$34,681	\$44,517	\$49,670	\$47,274	\$42,471			\$44,943
40-44	26	26	40	47	21			160
ot. Pay	\$965,020	\$1,120,253	\$1,740,393	\$2,464,055	\$1,103,946			\$7,393,667
.vg. Pay	\$37,116	\$43,087	\$43,510	\$52,427	\$52,569			\$46,210
45-49	13	20	38	26	35	16		148
ot. Pay	\$383,237	\$875,350	\$1,788,152	\$1,225,520	\$1,953,207	\$845,534		\$7,071,000
vg. Pay	\$29,480	\$43,768	\$47,057	\$47,135	\$55,806	\$52,846		\$47,777
50-54	7	11	10	13	24	16	4	85
Cot. Pay	\$269,455	\$442,921	\$442,311	\$653,399	\$1,126,969	\$851,599	\$224,573	\$4,011,227
.vg. Pay	\$38,494	\$40,266	\$44,231	\$50,261	\$46,957	\$53,225	\$56,143	\$47,191
55-59	1	3	8	14	10	6	2	44
Tot. Pay	\$19,604	\$119,606	\$308,549	\$680,341	\$497,738	\$349,467	\$148,415	\$2,123,720
vg. Pay	\$19,604	\$39,869	\$38,569	\$48,596	\$49,774	\$58,245	\$74,208	\$48,266
60-64			1	2	5	3	1	12
Tot. Pay			\$39,100	\$87,253	\$246,358	\$135,693	\$29,182	\$537,586
lvg. Pay			\$39,100	\$43,627	\$49,272	\$45,231	\$29,182	\$44,799
65-69		_ i						
Гot. Pay								
lvg. Pay					ì	= "-		
0 & Over		1				1		1
Tot. Pay						\$53,588		\$53,588
Avg. Pay						\$53,588		\$53,588
Totals	240	277	197	125	96	42	7	984
ot. Pay	\$8,461,448	\$12,344,671	\$9,279,746	\$6,197,859	\$4,970,689	\$2,235,881	\$402,170	\$43,892,464
vg. Pay	\$35,256	\$44,566	\$47,105	\$49,583	\$51,778	\$53,235	\$57,453	\$44,606

LAW DIVISION INACTIVE MEMBERS IN VALUATION DECEMBER 31, 2004 BY ATTAINED AGE AND YEARS OF SERVICE

Attained		Yea	rs of Serv	vice to V	aluation	Date		Total
Ages	0-4	5-9	10-14	15-19	20-24	25-29	30+	Number
15-19								
20-24	8							8
25-29	72	2						74
30-34	109	19	1					129
35-39	111	22	12					145
40-44	48	12	16	6				82
45-49	39	12	12	11	6			80
50-54	49	10	9	9	7	3		87
55-59	36	3	8	2				49
60-64	18	2		1				21
65-69	14	1		1				16
70 & Over	5							5
Totals	509	83	58	30	13	3		696

SECTION VIII



Allowances Being Paid to Retirees & Beneficiaries

MONTHLY ALLOWANCES OF RETIRED LIVES BY YEAR OF RETIREMENT AS OF DECEMBER 31, 2004

Year of			Post-Ret.		
Retirement	No.	Initial	Increase	Total	Average
2004	8,250	\$ 14,247,161	\$ 54,264	\$ 14,301,425	\$1,734
2003	8,349	14,457,745	482,302	14,940,047	1,789
2002	9,477	15,793,326	1,006,918	16,800,244	1,773
2001	7,931	12,422,067	1,160,304	13,582,371	1,713
2000	7,724	11,225,629	1,331,853	12,557,482	1,626
1999	6,811	9,427,883	1,276,671	10,704,554	1,572
1998	6,811	8,686,536	1,336,836	10,023,372	1,472
1997	6,529	8,457,856	1,521,748	9,979,604	1,529
1996	6,504	7,801,022	1,625,597	9,426,619	1,449
1995	5,902	6,850,168	1,604,701	8,454,869	1,433
1990-1994	24,375	23,811,072	7,744,780	31,555,852	1,295
1985-1989	22,305	17,877,461	8,823,367	26,700,828	1,197
1980-1984	15,458	8,072,837	5,909,568	13,982,405	905
1975-1979	8,843	3,278,601	4,225,217	7,503,818	849
1970-1974	2,890	685,483	1,446,135	2,131,618	738
1965-1969	796	164,961	484,865	649,826	816
1960-1964	271	58,558	182,574	241,132	890
Before 1960	70	13,454	52,696	66,150	945
TOTAL	149,296	\$163,331,820	\$40,270,396	\$203,602,216	\$1,364

MONTHLY ALLOWANCES OF RETIRED LIVES BY YEARS OF SERVICE AS OF DECEMBER 31, 2004

Years of			Post-Ret.		
Service	No.	Initial	Increase	Total	Average
<5 or n/a	4,753	\$ 1,177,605	\$ 395,503	\$ 1,573,108	\$331
5	4,139	1,178,879	314,200	1,493,079	361
6	3,214	981,760	279,820	1,261,580	393
7	3,051	946,214	294,359	1,240,573	407
8	2,764	880,198	284,441	1,164,639	421
9	2,166	745,777	256,528	1,002,305	463
10	8,122	2,965,439	787,623	3,753,062	462
11	4,751	1,873,850	559,186	2,433,036	512
12	4,762	2,004,665	610,811	2,615,476	549
13	4,394	2,095,584	638,989	2,734,573	622
14	4,219	2,138,725	658,395	2,797,120	663
15	4,661	2,619,209	776,628	3,395,837	729
16	4,613	2,787,846	817,001	3,604,847	781
17	4,168	2,807,452	823,924	3,631,376	871
18	4,200	3,016,493	886,987	3,903,480	929
19	4,064	3,059,690	883,646	3,943,336	970
20	4,779	3,951,075	1,138,547	5,089,622	1,065
21	4,155	3,763,584	1,049,057	4,812,641	1,158
22	3,863	3,769,392	1,012,346	4,781,738	1,238
23	3,745	3,927,922	1,017,831	4,945,753	1,321
24	3,580	4,009,752	1,044,327	5,054,079	1,412
25	6,570	8,369,247	2,008,113	10,377,360	1,580
26	4,331	6,009,428	1,467,175	7,476,603	1,726
27	4,255	6,464,242	1,519,163	7,983,405	1,876
28	4,412	7,725,357	1,604,219	9,329,576	2,115
29	3,863	7,018,285	1,454,420	8,472,705	2,193
30	13,970	27,390,318	5,331,607	32,721,925	2,342
31	4,829	9,422,808	2,122,701	11,545,509	2,391
32	3,880	7,729,097	1,838,270	9,567,367	2,466
33	2,968	6,129,037	1,487,363	7,616,400	2,566
34	2,515	5,239,957	1,299,523	6,539,480	2,600
35	2,383	5,044,751	1,310,309	6,355,060	2,667
36	1,750	3,752,574	941,932	4,694,506	2,683
37	1,369	2,954,628	782,513	3,737,141	2,730
38	1,078	2,322,603	614,834	2,937,437	2,725
39	905	1,970,029	516,553	2,486,582	2,748
40 & Over	2,055	5,088,348	1,441,552	6,529,900	3,178
TOTAL	149,296	\$163,331,820	\$40,270,396	\$203,602,216	\$1,364

ANNUITY AND PENSION RESERVE FUND ANNUAL ALLOWANCE, REPORTED ASSETS AND ACTUARIAL LIABILITIES COMPARATIVE STATEMENT

(\$ MILLIONS)

	Į .	Annual Allov	vances		1	Ratio of	Ratio of
Valuation		\$	% of DB	Reported	Actuarial	Assets to	DB Active
Date	No.	Millions	Payroll#	Assets*	Liabilities	Liabilities	to Retired
6/30/1976	48,675	\$ 129	5.5 %	\$ 1,294	\$ 1,253	103.2 %	4.9
6/30/1977	52,240	150	5.6 %	1,513	1,478	102.3 %	5.2
6/30/1978	55,827	169	5.5 %	1,724	1,698	101.5 %	4.9
6/30/1979	59,303	190	5.9 %	2,007	1,973	101.7 %	4.4
12/31/1979	60,887	207	6.4 %	2,209	2,154	102.6 %	4.3
12/31/1980	64,231	231	6.7 %	2,477	2,424	102.2 %	4.0
12/31/1981@	68,089	272	8.2 %	3,084	2,994	103.0 %	3.7
12/31/1982@	71,253	299	8.2 %	3,173	3,068	103.4 %	3.5
12/31/1983	74,442	333	8.7 % **	3,554	3,428	103.7 %	3.3
12/31/1984	77,493	386	9.5 % **	3,993	3,993	100.0 %	3.2
12/31/1985	80,999	429	10.0 % **	4,498	4,456	100.9 %	3.1
12/31/1986	84,892	474	10.4 % **	4,965	4,935	100.6 %	3.0
12/31/1987	86,924	518	10.6 % **	5,485	5,437	100.9 %	3.0
12/31/1988	89,972	581	10.9 % **	6,182	6,173	100.1 %	2.9
12/31/1989@	92,504	661	12.4 % **	6,985	6,911	101.1 %	2.9
12/31/1990	94,088	706	11.7 % **	7,438	7,338	101.4 %	3.0
12/31/1991	95,843	762	11.5 % **	8,014	7,904	101.4 %	3.4
12/31/1992	98,609	835	12.1 % **	8,814	8,692	101.4 %	3.4
12/31/1993	100,651	901	12.5 % **	9,390	9,356	100.4 %	3.4
12/31/1994	102,587	958	12.6 % **	9,964	9,893	100.7 %	3.3
12/31/1995	104,806	1,036	13.0 % **	10,808	10,737	100.7 %	3.3
12/31/1996@	107,617	1,141	13.7 % **	11,819	11,762	100.5 %	3.3
12/31/1997	110,470	1,233	14.3 % **	12,843	12,755	100.7 %	3.2
12/13/1998	113,000	1,327	14.7 % **	13,885	13,751	101.0 %	3.1
12/31/1999+	115,431	1,530	16.1 % **	14,978	16,139	92.8 %	3.1
12/31/2000	118,620	1,641	16.1 % **	16,980	16,980	100.0 %	3.1
12/31/2001@	121,875	1,775	16.5 % **	18,001	18,001	100.0 %	3.0
12/31/2002	126,409	1,958	17.5 % **	20,085	20,085	100.0 %	2.9
12/31/2003	130,433	2,136	19.1 % **	22,535	22,535	100.0 %	2.7
12/31/2004	134,535	2,311	20.2 % **	24,470	24,470	100.0 %	2.6

^{*} Including certain recommended transfers and accrued transfers.

[#] Through 1979, June allowances are compared to December payroll.

[@] Revised actuarial assumptions.

^{**} Excluding health insurance and Medicare payments.

⁺ Including estimated effect of legislated benefit changes.

TYPE OF BENEFIT, MONTHLY AMOUNT AND ACTUARIAL LIABILITIES RETIREES AND BENEFICIARIES DECEMBER 31, 2004 ANNUITY AND PENSION RESERVE FUND

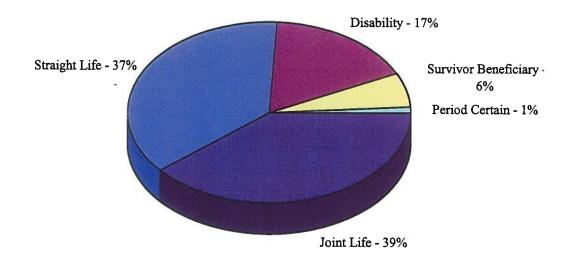
Type of Allowance	Number	Current Total \$	Actuarial Liabilities
Superanniation Retirement			
Plan A - Joint & 50%	17,456	\$ 29,690,314	\$ 3.951.136.001
Plan B - Straight Life	54,331	71,559,679	8,034,430,762
Plan C - Special Joint & Survivor	10,244	18,956,075	2,732,502,689
Plan D - Joint & 100%	16,114	25,879,010	4,023,113,972
Plan E - Life & 0 to 5 Years Guaranteed	322	347,750	35,637,944
- Life & 6 to 10 Years Guaranteed	446	543,040	54,279,878
- Life & 11 to 15 Years Guaranteed	658	738,148	68,577,872
- Life & 16 to 20 Years Guaranteed	22	30,395	4,561,955
Money Purchase	054	288 031	27 835 033
Survivor Beneficiary - Life Benefit	14,739	11.858.320	1.103.533.053
Survivor Beneficiary - Temporary Benefit	94	98,373	3,659,296
Total Superannuation	115,380	\$159,989,135	\$20,039,268,455
Disability Retirement	19,155	\$ 32,585,179	\$ 4,431,053,371
Total from A & PR	134,535	\$192,574,314	9.

TYPE OF BENEFIT AND AMOUNT BY GENDER OF RECIPIENT RETIREES AND BENEFICIARIES DECEMBER 31, 2004 ANNUITY AND PENSION RESERVE FUND

	N	Men	M	Women		Total
Type of Allowance	Number	Monthly Allowances	Number	Monthly Allowances	Number	Monthly Allowances
Superannuation Retirement						
Plan A - Joint & 50%	13,041	\$23,596,679	4,415	\$ 6,093,635	17,456	\$ 29,690,314
Plan B - Straight Life	16,674	26,243,087	37,657	45,316,592	54,331	71,559,679
Plan C - Special Joint & Survivor	4,590	10,547,283	5,654	8,408,792	10,244	18,956,075
Plan D - Joint & 100%	13,862	23,247,674	2,252	2,631,336	16,114	25,879,010
Plan E - Life & 0 to 5 Years Guaranteed	157	188,170	165	159,580	322	347,750
- Life & 6 to 10 Years Guaranteed	268	352,657	178	190,383	446	543,040
- Life & 11 to 15 Years Guaranteed	453	549,384	205	188,764	658	738,148
- Life & 16 to 20 Years Guaranteed	14	20,368	∞	10,027	22	30,395
Monory Durohago	707	042 640	070	46 202	054	100 800
IVIOLICY FUICITIASE	1460	747,043	007	40,00	426	700,007
Survivor Beneficiary - Life Benefit	975	514,281	13,764	11,344,039	14,739	11,858,320
Survivor Beneficiary - Temporary Benefit	25	23,333	69	75,040	94	98,373
Total Superannuation	50,753	\$85,525,565	64,627	\$74,463,570	115,380	\$159,989,135
Disability Retirement	10,009	\$18,834,507	9,146	\$13,750,672	19,155	\$ 32,585,179
Total from A & PR	60,762	\$104,360,072	78/1/8	\$88,214,242 134,535	134,535	\$192,574,314

ANNUITIES BEING PAID BY TYPE DECEMBER 31, 2004

Annuity and Pension Reserve Fund



ANNUITY AND PENSION RESERVE FUND RETIREES AND BENEFICIARIES DECEMBER 31, 2004 CURRENT MONTHLY TOTAL \$ BY ATTAINED AGES

	Supe	rannuation	D	isability		Totals
Attained		Monthly		Monthly		Monthly
Ages	No.	Total \$	No.	Total \$	No.	Total \$
Under 20	10	\$ 3,334			10	\$ 3,334
20-24	6	3,941	=, ===			
25-29	7	3,399	17	\$ 20.597	6	3,941
30-34	18	12,379	138	1,,	24	23,996
35-39	26	17,598	492	216,798	156	229,177
40-44	64	42,862		935,718	518	953,316
10 11	07	42,002	1,326	2,728,391	1,390	2,771,253
45-49	581	1,255,059	2,604	5,334,963	3,185	6,590,022
50-54	3,864	10,015,155	3,607	7,029,549	7,471	17,044,704
55-59	8,389	22,270,100	3,951	7,048,997	12,340	29,319,097
60-64	14,515	25,155,398	3,114	4,658,742	17,629	29,814,140
65-69	19,425	27,957,683	1,654	2,255,534	21,079	30,213,217
70-74	19,101	24 692 404	224			
75-7 4	· ·	24,682,494	981	1,126,011	20,082	25,808,505
80-84	18,697	21,262,917	738	736,896	19,435	21,999,813
85-89	15,216	14,794,886	366	356,834	15,582	15,151,720
	8,769	7,261,261	138	114,526	8,907	7,375,787
90-94	3,437	2,603,556	28	20,901	3,465	2,624,457
95 & Over	853	699,749	1	722	854	700,471
Period						
Certain	2,402	1,947,364			2,402	1,947,364
Totals	115,380	\$159,989,135	19,155	\$32,585,179	134,535	\$192,574,314

ANNUITY AND PENSION RESERVE FUND PERCENT OF RECIPIENTS BY AGE GROUPS AND YEAR

Attained Age Group	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995
Under 30	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
30-39	0.5%	0.5%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	0.5%
40-49	3.4%	3.5%	3.5%	3.3%	3.2%	3.1%	2.9%	2.8%	2.7%	2.4%
50-59	14.7%	13.7%	12.9%	11.7%	10.7%	9.8%	9.2%	8.6%	7.9%	7.6%
60-69	28.8%	28.6%	28.3%	28.1%	28.2%	28.9%	29.1%	29.4%	29.9%	30.5%
70-79	29.4%	30.4%	31.5%	32.7%	34.0%	35.5%	36.3%	37.1%	37.7%	38.2%
80-89	18.2%	18.3%	18.4%	18.7%	18.5%	18.7%	18.6%	18.4%	18.2%	17.9%
90 & Over	3.2%	3.2%	3.1%	3.1%	3.0%	3.1%	3.0%	2.9%	2.8%	2.7%
Period Certain	1.8%	1.8%	1.7%	1.8%	1.8%	0.3%	0.3%	0.2%	0.2%	0.2%
TOTALS	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Average Age	70.4	70.6	70.7	71.0	71.2	71.4	71.5	71.6	71.6	71.8

STATE DIVISION SURVIVOR BENEFIT FUND TABULATED BY TYPE OF BENEFIT BEING PAID AND MONTHLY AMOUNT DECEMBER 31, 2004

Group	Number	Current Total	Actuarial Liabilities
Group	Number	1 0 0 0 0	
S-1 - Survivo	Benefit to Beneficia	ry of Deceased Me	mber
	oint and Survivor C	•	
		· -	
Men	96	\$ 86,617	\$ 8,077,574
Women	783	915,562	93,548,434
Totals	879	\$1,002,179	\$101,626,008
S-2 - Survivor	· Benefit to Beneficia	ry of Deceased Me	mber
	Fixed Rate Am	ount	
Widower - no child	473	\$ 375,603	\$ 43,973,975
Widower - child	55	43,613	6,982,125
Child's record	124	57,925	3,817,440
Parent	2	1,868	122,511
Other	0	0	0
Child only	125	82,341	5,124,420
Subtotals - male	779	561,350	\$ 60,020,471
Widower - no child	2,218	\$1,867,590	\$220,855,699
Widower - child	231	190,748	34,209,910
Child's record	311	137,199	8,001,775
Parent	4	3,543	297,315
Other	1	601	42,221
Child only	108	72,147	4,908,886
Subtotals - female	2,873	2,271,828	268,315,806
Totals	3,652	\$2,833,178	\$328,336,277
Total Benef	its Being Paid from	Survivor Benefit F	und
Men	875	647,967	68,098,045
Women	3,656	3,187,390	361,864,240
Totals	4,531	\$3,835,357	\$429,962,285

LOCAL GOVERNMENT DIVISION SURVIVOR BENEFIT FUND TABULATED BY TYPE OF BENEFIT BEING PAID AND MONTHLY AMOUNT DECEMBER 31, 2004

		Current	Actuarial
Group	Number	Total	Liabilities
S_1 _ Survivo	r Benefit to Beneficia	ary of Deceased Me	mher
	oint and Survivor C		Moci
		, om paration	
Men	135	\$ 102,194	\$ 9,280,124
Women	1,465	1,423,648	150,254,027
Totals	1,600	\$1,525,842	\$159,534,151
S-2 - Survivo	Benefit to Beneficia	ary of Deceased Me	mber
	Fixed Rate An	nount	
Widower - no child	782	\$ 480,632	\$ 54,517,828
Widower - child	104	58,541	9,524,472
Child's record	243	85,552	5,800,904
Parent	1	842	55,825
Other	1	453	58,255
Child only	218	131,591	10,187,021
Subtotals - male	1,349	757,611	80,144,305
Widower - no child	4,835	\$3,428,452	\$393,401,851
Widower - child	454	324,352	57,653,176
Child's record	642	253,755	17,632,656
Parent	5	4,371	330,628
Other	2	1,794	115,985
Child only	179	109,407	6,787,015
Subtotals - female	6,117	4,122,131	475,921,311
Totals	7,466	\$4,879,742	\$556,065,616
Total Benef	its Being Paid from	Survivor Benefit F	und
Men	1,484	859,805	89,424,429
Women	7,582	5,545,779	626,175,338
Totals	9,066	\$6,405,584	\$715,599,767

LAW
SURVIVOR BENEFIT FUND TABULATED BY
TYPE OF BENEFIT BEING PAID AND MONTHLY AMOUNT
DECEMBER 31, 2004

		Current	Actuarial							
Group	Number	Total	Liabilities							
	r Benefit to Beneficia oint and Survivor C	•	mber							
Men	0	\$ 0	\$ 0							
Women Totals	42	61,028 \$ 61,028	7,856,484 \$ 7,856,484							
S-2 - Survivo	S-2 - Survivor Benefit to Beneficiary of Deceased Member Fixed Rate Amount									
	Pixeu Nate All	iount .								
Widower - no child	5	\$ 4,619	\$ 589,008							
Widower - child	3	2,415	410,554							
Child's record	21	9,994	762,369							
Other	0	0	0							
Child only	9	5,819	371,860							
Subtotals - male	38	22,847	2,133,791							
Widower - no child	133	\$ 121,085	\$18,772,235							
Widower - child	36	31,054	5,732,251							
Child's record	48	18,875	981,773							
Other	9	7,339	444,283							
Child only	0	0	0							
Subtotals - female	226	178,353	25,930,542							
Totals	264	\$201,200	\$28,064,333							
Total Benef	its Being Paid from	Survivor Benefit Fu	ınd							
Men	38	22,847	2,133,791							
Women	268	239,381	33,787,026							
Totals	306	\$262,228	\$35,920,817							

STATE DIVISION DEFERRED SURVIVOR BENEFICIARIES TABULATED BY GENDER AND DEFERRED AGE DECEMBER 31, 2004

Group	Number	Current Total	Actuarial Liabilities
337: 1			
Widowers			
Deferred to age 50	0	\$ 0	\$ 0
Deferred to age 62	88	54,399	3,642,112
Deferred to age 65	1	171	13,677
Total	89	54,570	3,655,789
Widows			
Deferred to age 50	4	2,906	387,557
Deferred to age 62	160	107,083	9,674,835
Deferred to age 65	1	788	21,395
Total	165	110,777	10,083,787
Totals	254	\$165,347	*\$13,739,576

LOCAL GOVERNMENT DIVISION

DEFERRED SURVIVOR BENEFICIARIES TABULATED BY GENDER AND DEFERRED AGE DECEMBER 31, 2004

Group	Number	Current Total	Actuarial Liabilities
Widowers			
Deferred to age 50	3	\$ 2,144	\$ 57,259
Deferred to age 62	125	58,673	4,543,785
Deferred to age 65	0	0	0
Total	128	60,817	4,601,044
Widows			
Deferred to age 50	5	4,149	647,586
Deferred to age 62	450	281,033	25,580,597
Deferred to age 65	0	0	0
Total	455	285,182	26,228,183
Totals	583	\$345,999	\$30,829,227

LAW DIVISION

DEFERRED SURVIVOR BENEFICIARIES TABULATED BY GENDER AND DEFERRED AGE DECEMBER 31, 2004

Group	Number	Current Total	Actuarial Liabilities
Widowers			
Deferred to age 50	0	\$ 0	\$ 0
Total	0	0	0
Widows			
Deferred to age 50	0	\$ 0	\$ 0
Deferred to age 62	21	13,387	1,054,009
Total	21	13,387	1,054,009
Totals	21	\$13,387	\$1,054,009

SURVIVOR BENEFIT FUND REPORTED ASSETS AND LIABILITIES DIVISIONS COMBINED

		Monthly A	llowances		\$ Mil	lions	Ratio of
Valuation	C	urrent	De	ferred	Reported	Actuarial	Assets to
Date	No.	Amount	No.	Amount	Assets+	Liabilities	Liabilities
6/30/1974	6,826	\$ 1,136,949	1,037	\$ 106,479	\$ 181.7	\$ 157.5	115 %
6/30/1975	7,346	1,422,944	1,054	113,690	205.3	177.9	115 %
6/30/1976	7,847	1,557,217	991	118,986	224.8	189.4	119 %
6/30/1977	8,153	1,659,897	1,003	125,094	257.0	204.6	126 %
6/30/1978	8,559	1,799,580	1,004	135,944	301.2	224.5	134 %
6/30/1979	8,824	1,914,251	1,039	146,549	355.2	245.1	145 %
12/31/1979	8,971	2,033,403	1,044	155,890	383.0	259.5	148 %
12/31/1980	9,389	2,220,641	1,022	170,246	429.4	285.4	150 %
12/31/1981@	9,629	2,468,950	1,045	191,228	460.6	336.0	137 %
12/31/1982@	9,913	2,654,686	1,006	199,239	499.7	330.6	151 %
12/31/1983	10,132	2,812,639	1,020	225,475	454.7	352.8	129 %
12/31/1984*	11,819	3,119,531	990	248,373	492.2	451.1	109 %
12/31/1985	11,889	3,278,253	979	259,842	532.8	469.6	113 %
12/31/1986	12,054	3,489,915	960	268,931	575.5	451.2	128 %
12/31/1987	12,153	3,656,420	933	279,327	626.1	472.9	132 %
12/31/1988	12,237	3,822,085	941	283,026	490.8	490.8	100 %
12/31/1989@	12,198	4,177,540	941	320,792	525.3	522.1	101 %
12/31/1990	12,182	4,330,622	907	321,218	542.5	537.1	101 %
12/31/1991	12,268	4,528,326	860	314,414	567.9	557.1	102 %
12/31/1992	12,318	4,750,848	852	329,509	589.8	583.3	101 %
12/31/1993	12,437	4,985,681	862	345,937	620.7	607.7	102 %
12/31/1994	12,569	5,207,186	845	347,178	641.5	628.5	102 %
12/31/1995	12,608	5,408,577	866	376,573	668.9	652.4	103 %
12/31/1996@	12,724	5,822,113	878	395,594	711.6	710.6	100 %
12/31/1997	12,856	6,074,566	932	433,430	743.0	740.5	100 %
12/13/1998	13,079	6,337,739	1,060	500,514	780,2	779.6	100 %
12/31/1999#	13,236	7,345,740	989	550,153	801.4	910.9	88 %
12/31/2000	13,317	9,026,315	666	348,886	1,037.4	1,037.4	100 %
12/31/2001@	13,588	9,449,543	993	490,441	1,086.4	1,086.4	100 %
12/31/2002	13,708	9,764,826	902	470,284	1,120.2	1,120.2	100 %
12/31/2003	13,988	10,246,174	842	493,329	1,193.1	1,193.1	100 %
12/31/2004	13,903	10,503,169	858	524,733	1,227.1	1,227.1	100 %

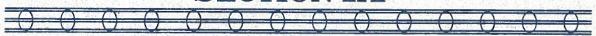
[@] Revised actuarial assumptions.

^{*} Benefits increased.

[#] After benefit changes.

⁺ Includes certain recommended transfers and accrued transfers.

SECTION IX



Actuarial Methods and Assumptions

NON-ECONOMIC ASSUMPTIONS

The post-retirement mortality rates used in evaluating age and service survivor benefit allowances to be paid were 90% of rates in the 1971 Group Annuity Mortality Male and Female Tables, projected to 1984. Related values are shown on page IX-8. The mortality rates for disability allowances were 300% of rates in the 1983 Group Annuity Mortality Table for Males, and 400% of rates in the 1983 Group Annuity Mortality Table for Females.

The probabilities of unreduced and reduced age and service retirement are shown on page IX-3 and IX-4.

The probabilities of withdrawal from service, disability and death-in-service are shown for sample ages on pages IX-5, IX-6 & IX-7. For withdrawal from service it was assumed that members terminating before age 35, members terminating with less than 5 years of service, and a percentage of all other members would withdraw their contributions and forfeit their entitlement to an employer financed benefit. The percentage is 100% at age 35 and is reduced for each year of age after 35, becoming 0% at age 55 (age 45 for law members).

For purposes of death and disability benefits, it is assumed that Combined Plan members will take a benefit from the Traditional Plan, unless a Lump Sum distribution from the combined plan would have a greater value.

Defined Contribution Accounts under the Combined Plan are assumed to earn 8% per year.

The Funding Value of Defined Benefit Assets recognizes assumed investment return fully each year. Differences between actual and assumed investment return are phased in over a closed 4 year period. Funding value is not permitted to deviate from market value by more than 12%. Traditional and Combined Plan retiree health funding value of assets are developed independently beginning with the December 31, 2004 valuation.

Present assets (cash & investments) at funding value are shown on pages II-2 and II-3.

The actuarial valuation computations were made by or under the supervision of a Member of the American Academy of Actuaries (M.A.A.A.). Great care was taken in the production of this report, but there may be cases where schedules do not add, or where they do not exactly balance to other related schedules due to rounding.

Probabilities of Unreduced Age and Service Retirement

			Retiring Wit	le Active Mem hin Next Year	•	
	St	ate	Local Go	vernment	Public	Law
Ages	Men	Women	Men	Women	Safety	Enforcement
40						2224
48						22%
49						22%
50	40%	30%	35%	30%		22%
51	40%	30%	35%	30%		22%
52	40%	30%	35%	30%	22%	22%
53	40%	30%	35%	30%	22%	22%
54	40%	30%	35%	30%	22%	22%
55	25%	30%	30%	30%	15%	15%
56	25%	30%	25%	30%	15%	15%
57	25%	30%	25%	30%	15%	15%
58	25%	30%	25%	30%	18%	18%
59	25%	40%	25%	40%	18%	18%
60	30%	50%	25%	50%	18%	18%
61	25%	35%	25%	30%	18%	18%
62	25%	35%	40%	30%	30%	30%
63	30%	35%	40%	30%	25%	25%
64	40%	35%	30%	30%	15%	15%
65	50%	50%	25%	25%	20%	20%
66	25%	25%	20%	25%	20%	20%
67	25%	25%	20%	15%	15%	15%
68	25%	25%	20%	15%	15%	15%
69	25%	20%	20%	15%	15%	15%
70	25%	20%	20%	15%	100%	100%
71	25%	20%	20%	15%	100%	100%
72	25%	20%	20%	15%	100%	100%
73	25%	20%	20%	15%	100%	100%
74	25%	20%	20%	15%	100%	100%
75	25%	20%	20%	15%	100%	100%
76	25%	20%	20%	15%	100%	100%
77	25%	20%	20%	15%	100%	100%
78	25%	20%	20%	15%	100%	100%
78 79	25%	20%	20%	15%	100%	100%
80	100%	100%	100%	100%	100%	100%
Ref	751	752	753	754	755	755

Probabilities of Reduced Retirement

			Eligible Activ g Within Ne		
	St	tate	Local G	overnment	Public
Ages	Men	Women	Men	Women	Safety
48					3%
49					3%
50					7%
51					7%
52					
53		=======================================			
54		L =			
55	12%	14%	10%	12%	
56	12%	14%	10%	12%	
57	12%	14%	10%	12%	
58	12%	14%	10%	12%	
59	12%	14%	10%	18%	
60	12%	20%	10%	18%	
61	12%	14%	10%	15%	
62	18%	14%	15%	15%	
63	18%	14%	15%	15%	
64	15%	14%	12%	12%	
Ref	756	757	758	759	515

SEPARATIONS FROM ACTIVE EMPLOYMENT BEFORE AGE & SERVICE RETIREMENT & Individual Pay Increase Assumptions STATE

			Pe	rcent of Ac	Percent of Active Members	irs		Pay Inc	Pay Increase Assumptions	nptions
			Sepai	rating With	Separating Within the Next Year	Year		For An I	For An Individual Employee	Imployee
Sample	Years of	Dea	Death	Withd	Withdrawal	Disa	Disability	Merit &	Base	Increase
Ages	Service	Men	Women	Men	Women	Men	Women	Seniority	Seniority (Economy) Next Year	Next Year
120	0			38.00%	36.00%					
ł	-			18.00%	19.00%					
	2			14.00%	15.00%					
	3			10.00%	12.00%					
	4			8.00%	%00.6					
25	5 & Over	0.03%	0.02%	%00.9	7.80%	0.09%	0.07%	4.30%	4.00%	8.30%
30		0.04%	0.05%	5.20%	7.00%	0.13%	0.14%	3.00%	4.00%	7.00%
35		0.05%	0.03%	4.30%	2.60%	0.24%	0.25%	2.20%	4.00%	6.20%
40		0.07%	0.04%	3.50%	4.20%	0.41%	0.36%	1.80%	4.00%	2.80%
ļ		è	2000	200	7 406)	7075	1 400	, OO 7	7007 2
45		0.13%	0.00%	7.70%	3.40%	0.01%	0.30%	1.40%	4.00%	5.40%
50		0.23%	0.10%	2.20%	3.10%	%98.0	0.88%	1.20%	4.00%	5.20%
55		0.37%	0.15%	2.10%	2.80%	1.31%	1.30%	%06:0	4.00%	4.90%
09		0.55%	0.25%	2.10%	2.70%	1.86%	1.56%	0.70%	4.00%	4.70%
Ref		#30x0.6sb0	#31x0.6sb0	371	372	#331x1	#332x1	301		
				#571x1	#572x1					

The pay increase assumptions are age based only, and not service based.

9-XI

SEPARATIONS FROM ACTIVE EMPLOYMENT BEFORE AGE & SERVICE RETIREMENT & Individual Pay Increase Assumptions LOCAL GOVERNMENT

			Pe	rcent of Ac	Percent of Active Members	:rs		Pay Inc	Pay Increase Assumptions	nptions
			Sepa	rating With	Separating Within the Next Year	Year		For An	For An Individual Employee	mployee
Sample	Years of	De	Death	Withc	Withdrawal	Disa	Disability	Merit &	Base	Increase
Ages	Service	Men	Women	Men	Women	Men	Women	Seniority	Seniority (Economy) Next Year	Next Year
ė	•			24.000/	70000					
)			34.00%	32.00%			4		
	_			17.00%	18.00%					
	7			12.00%	13.00%					
	ĸ			10.00%	10.00%					
	4			%00.6	%00.6					
25	5 & Over	0.03%	0.02%	6.40%	8.00%	0.13%	0.12%	4.30%	4.00%	8.30%
30		0.04%	0.02%	5.40%	%06.9	0.17%	0.13%	3.00%	4.00%	7.00%
35		0.05%	0.03%	4.10%	5.40%	0.28%	0.21%	2.20%	4.00%	6.20%
40		0.07%	0.04%	3.20%	4.20%	0.44%	0.33%	1.80%	4.00%	2.80%
45		0.13%	0.06%	2.70%	3.40%	0.62%	0.45%	1.40%	4.00%	5.40%
50		0.23%	0.10%	2.50%	3.00%	0.90%	0.66%	1.20%	4.00%	5.20%
55		0.37%	0.15%	2.50%	2.90%	1.34%	0.98%	0.90%	4.00%	4.90%
09		0.55%	0.25%	2.50%	2.80%	1.54%	1.35%	0.70%	4.00%	4.70%
Ref		#30x0.6sb0	#31x0.6sb0	373	374	#333x1	#334x1	301		
				#573x1	#574x1					

The pay increase assumptions are age based only, and not service based.

1X-7

SEPARATIONS FROM ACTIVE EMPLOYMENT BEFORE AGE & SERVICE RETIREMENT & Individual Pay Increase Assumptions LAW

			Pe	rcent of Ac	Percent of Active Members	irs		Pay Inc	Pay Increase Assumptions	mptions
			Separ	rating With	Separating Within the Next Year	Year		For An	For An Individual Employee	Employee
Sample	Years of	De	Death	Withc	Withdrawal	Disa	Disability	Merit &	Base	Increase
Ages	Service	Men	Women	Men	Women	Men	Women	Seniority	Seniority (Economy) Next Year	Next Year
3	0			15.00%	15.00%					
	-			%00.6	%00.6					
	2			7.00%	7.00%					
	3			2.00%	2.00%					
	4	ı		2.00%	2.00%					
25	5 & Over	0.03%	0.02%	3.80%	3.80%	0.27%	0.27%	6.30%	4.00%	10.30%
30		0.04%	0.02%	7.90%	2.90%	0.37%	0.37%	4.00%	4.00%	8.00%
35		0.05%	0.03%	2.30%	2.30%	0.67%	0.67%	1.60%	4.00%	2.60%
40		0.07%	0.04%	1.50%	1.50%	0.95%	0.95%	0.85%	4.00%	4.85%
45		0.13%	0.06%	1.30%	1.30%	1.47%	1.47%	0.60%	4.00%	4.60%
20		0.23%	0.10%	1.20%	1.20%	2.03%	2.03%	0.50%	4.00%	4.50%
55		0.37%	0.15%	1.20%	1.20%	2.50%	2.50%	0.50%	4.00%	4.50%
09		0.55%	0.25%	1.20%	1.20%	2.88%	2.88%	0.50%	4.00%	4.50%
Ref		#30x0.6sb0	#31x0.6sb0	375	375	#335x1	#335x1	303		
				#575x1	#575x1					

The pay increase assumptions are age based only, and not service based.

Single Life Retirement Values

Sample Attained	Monthly Increasing 3.	alue of \$1 of for Life of Annually of After 1 Year)		re Life 1cy (years)
Ages	Males	Females	Males	Females
50	\$165.46	\$181.30	28.55	34.58
55	152.90	171.13	24.26	29.89
60	138.21	158.37	20.19	25.31
65	121.58	142.99	16.40	20.92
70	104.05	124.89	13.02	16.76
75	87.04	105.31	10.17	13.03
80	70.51	86.11	7.75	9.89
Ref:	:#68x0.9sb0	:#69x0.9sb0		

MISCELLANEOUS AND TECHNICAL ASSUMPTIONS DECEMBER 31, 2004

Marriage Assumption: 80% of males and 80% of females are assumed to be

married for purposes of death-in-service benefits for State and Local members. 90% of males and 90% of females are assumed to be married for purposes of death-in-service benefits for Law Enforcement members. Male spouses are assumed to be three years older than female spouses for active member valuation purposes. In retired or inactive cases where spouse information is needed, but not available, the three year age difference is also

assumed.

Pay Increase Timing: Beginning of year. This is equivalent to assuming that

reported pays represent amounts paid to members during

the year ended on the valuation date.

Final Average Salary: For present value of future benefit purposes, final

average salary was calculated in accordance with pay increase assumptions, but was not permitted to fall below

the final average salary reported in the data.

Decrement Timing: Decrements are assumed to occur mid-year.

Eligibility Testing: Eligibility for benefits is determined based upon the age

nearest birthday and service nearest whole year on the

date the decrement is assumed to occur.

Decrement Relativity: Decrement rates are used directly from the experience

study, without adjustment for multiple decrement table

effects.

Decrement Operation: Disability and mortality decrements do not operate

during the first 5 years of service.

Death after Disability: Death after disability benefits were approximated by

assuming that the disability benefit would be paid as a joint and 35% survivor benefit for people in the original disability plan and as a joint and 20% survivor benefit

for people in the post 1992 plan.

Service Credit Accruals: It is assumed that members accrue one year of service

credit per year. A (0.80)% factor is applied to State active member liabilities (other than for refunds) and a (1.00)% factor is applied to Local active member liabilities (other than for refunds) to recognize that a

portion of the membership is part time.

MISCELLANEOUS AND TECHNICAL ASSUMPTIONS DECEMBER 31, 2004 (CONCLUDED)

Miscellaneous Loads: A 0.85% factor is applied to unreduced retirement and

reduced retirement liabilities to recognize subsidized service purchases. Law active accrued liabilities for retirement are reduced by 10% to recognize that total service reported is not entirely Law service, and that non-Law service cannot be used to satisfy Law eligibility

conditions.

Incidence of Contributions: Contributions are assumed to be received continuously

throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll

payable at the time contributions are made.

Benefit Service: Exact fractional service is used to determine the amount

of benefit payable.

Normal Form of Benefit: The assumed normal form of benefit is a straight life

benefit, except where otherwise noted.



Financial Principles

FINANCIAL PRINCIPLES AND OPERATIONAL TECHNIQUES OF PERS

Promises Made, and To Be Paid For. As each year is completed, OPERS in effect hands an "IOU" to each member then acquiring a year of service credit --- the "IOU" says: "The Ohio Public Employees Retirement System owes you one year's worth of retirement benefits, payments in cash commencing when you qualify for retirement."

The related key financial questions are:

Which generation of taxpayers contributes the money to cover the IOU?

The present taxpayers, who receive the benefit of the member's present year of service? Or the future taxpayers, who happen to be in Ohio at the time the IOU becomes a cash demand, years and often decades later?

The law governing OPERS financing intends that this year's taxpayers contribute the money to cover the IOUs being handed out this year. With this financial objective, the employer contribution rate is expected to remain approximately level from generation to generation of taxpayers.

There are systems which have a design for deferring contributions to future taxpayers. Lured by a lower contribution rate now, they put aside the consequence that the contribution rate must then relentlessly grow to a level much higher than would be required if a level contribution pattern were followed.

An inevitable by-product of the level-cost design is the accumulation of reserve assets, for decades, and the income produced when the assets are invested. *Investment income* becomes the 3rd and largest contributor for benefits to employees, and is interlocked with the contribution amounts required from employees and employers.

Translated to actuarial terminology, this level-cost objective means that the contribution rates must total at least the following:

Normal Cost (the cost of members' service being rendered this year) ... plus ...

Interest on Unfunded Actuarial Accrued Liabilities (unfunded actuarial accrued liabilities are the difference between: liabilities for service already rendered; and the accrued assets of PERS).

Computing Contributions to Support Fund Benefits. From a given schedule of benefits and from employee and asset data, the actuary calculates the contribution rates to support the benefits by means of an actuarial valuation and a funding method.

An actuarial valuation has a number of ingredients such as: the rate of investment return which plan assets will earn; the rates of withdrawal of active members who leave covered employment; the rates of mortality; the rates of disability; the rates of pay increases; and the assumed age or ages at actual retirement.

In an actuarial valuation, assumptions must be made as to what the above rates will be for the next year and for decades in the future. The assumptions are established by the Retirement Board after receiving the advice of the actuary.

Reconciling Differences Between Assumed Experience and Actual Experience. Once actual experience has occurred and has been observed, it will not coincide exactly with assumed experience, regardless of the skill of the actuary and the many calculations made. The future can not be predicted with 100% precision.

PERS copes with these continually changing differences by having annual actuarial valuations. Each actuarial valuation is a complete recalculation of assumed future experience, taking into account all past differences between assumed and actual experience. The result is *continuing adjustments in financial position*.

THE ACTUARIAL VALUATION PROCESS

The financing diagram on the opposite page shows the relationship between the two fundamentally different philosophies of paying for retirement benefits: the method where contributions match cash benefit payments (or barely exceed cash benefit payments, as in the Federal Social Security program) which is thus an increasing contribution method; and, the level contribution method which attempts to equalize contributions between the generations.

The actuarial valuation is the mathematical process by which the level contribution rate is determined. The activity constituting the valuation may be summarized as follows:

A. Census Data, including:

Retired lives now receiving benefits

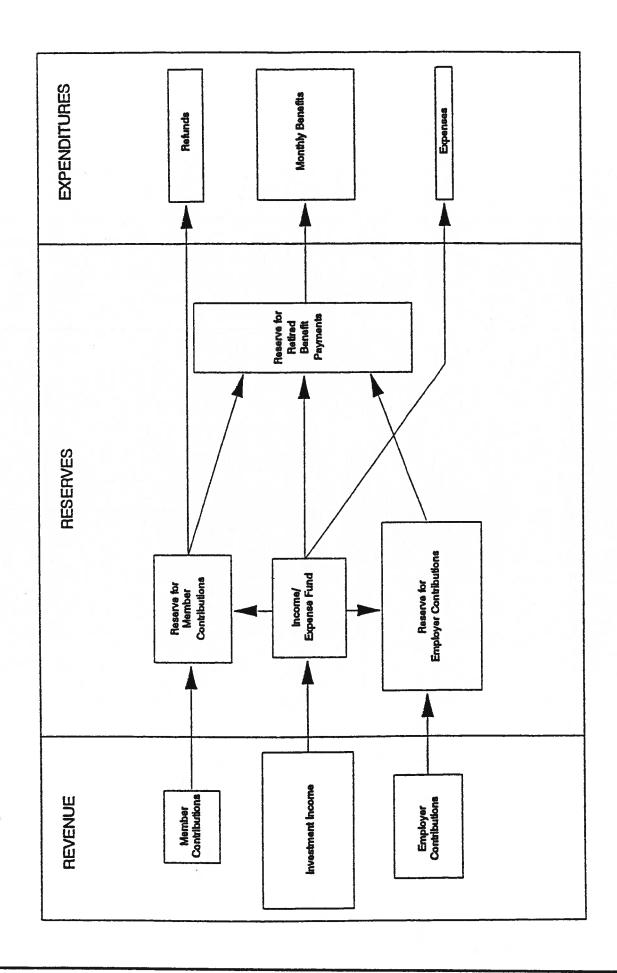
Former employees with vested benefits not yet payable

Active employees

- B. + Asset data (cash & investments)
- C. + Benefit provisions that establish eligibility and amounts of payments to members
- D. + Assumptions concerning future experience in various risk areas
- E. + *The funding method* for employer contributions (the long-term, planned pattern for employer contributions)
- F. + Mathematically combining the assumptions, the funding method, and the data
- G. = Determination of:

Plan Financial Position; and/or New Employer Contribution Rate

Flow of Money Through the Retirement System



GLOSSARY

Accrued Service. The service credited under the plan which was rendered before the date of the actuarial valuation.

Accumulated Benefit Obligation. The actuarial present value of vested and non-vested benefits based on service to date and past and current salary levels.

Actuarial Accrued Liability. The difference between (i) the actuarial present value of future plan benefits, and (ii) the actuarial present value of future normal cost. Sometimes referred to as "accrued liability" or "past service liability."

Actuarial Assumptions. Estimates of future plan experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and salary increases. Decrement assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation.

Actuarial Cost Method. A mathematical budgeting procedure for allocating the dollar amount of the "actuarial present value of future plan benefits" between the actuarial present value of future normal cost and the actuarial accrued liability. Sometimes referred to as the "actuarial funding method."

Actuarial Equivalent. A single amount or series of amounts of equal value to another single amount or series of amounts, computed on the basis of the rate(s) of interest and mortality tables used by the plan.

Actuarial Present Value. The amount of funds presently required to provide a payment or series of payments in the future. It is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

Actuary. A person who is trained in the applications of probability and compound interest to problems in business and finance that involve payment of money in the future, contingent upon the occurrence of future events. Most actuaries in the United States are Members of the American Academy of Actuaries. The Society of Actuaries is an international research, education and membership organization for actuaries in the life and health insurance, employee benefits, and pension fields. It administers a series of examinations leading initially to Associateship and the designation A.S.A. and ultimately to Fellowship with the designation F.S.A.

Amortization. Paying off an interest-bearing liability by means of periodic payments of interest and principal, as opposed to paying it off with a lump sum payment.

Experience Gain (Loss). A measure of the difference between actual experience and that expected based upon a set of actuarial assumptions during the period between two actuarial valuation dates, in accordance with the actuarial cost method being used.

Funding Value of Assets. The value of current plan assets recognized for valuation purposes. Generally based on a phased-in recognition of all or a portion of market related investment return. Sometimes referred to as Actuarial Value of Assets.

Normal Cost. The annual cost assigned, under the actuarial funding method, to current and subsequent plan years. Sometimes referred to as "current service cost." Any payment toward the unfunded actuarial accrued liability is not part of the normal cost.

Plan Termination Liability. The actuarial present value of future plan benefits based on the assumption that there will be no further accruals for future service and salary. The termination liability will generally be less than the liabilities computed on a "going concern" basis and is not normally determined in a routine actuarial valuation.

Reserve Account. An account used to indicate that funds have been set aside for a specific purpose and are not generally available for other uses.

Unfunded Actuarial Accrued Liability. The difference between the actuarial accrued liability and valuation assets. Sometimes referred to as "unfunded accrued liability."

"Actuarial accrued liabilities" are the present value of the portions of promised benefits that are not covered by future normal cost contributions --- a liability has been established ("accrued") because the service has been rendered but the resulting monthly cash benefit may not be payable until years in the future.

If "actuarial accrued liabilities" at any time exceed the plan's accrued assets (cash & investments), the difference is "unfunded actuarial accrued liabilities." This is the common condition. If the plan's assets equaled the plan's "actuarial accrued liabilities", the plan would be termed "fully funded." This is an unusual condition.

Each time a plan adds a new benefit which applies to service already rendered, an "actuarial accrued liability" is created, which is also an "unfunded actuarial accrued liability" because the plan can't print instant cash to cover the value of the new benefit promises. Payment for such unfunded actuarial accrued liabilities is spread over a period of years, commonly in the 15-40 year range.

Unfunded actuarial accrued liabilities can occur in another way: if actual plan experience is less favorable than assumed, the difference is added to unfunded actuarial accrued liabilities. For example, in plans where benefits are directly related to an employee's pay near time of retirement, unfunded actuarial accrued liabilities increased rapidly during the 1970's because unexpected rates of pay increase created additional actuarial accrued liabilities which could not be matched by reasonable investment results. Most of the unexpected pay increases were the direct result of inflation, which is a very destructive force on financial stability.

The existence of unfunded actuarial accrued liabilities is not bad but the changes from year to year in amount of unfunded actuarial accrued liabilities are important--- "bad" or "good" or somewhere in between.

Nor are unfunded actuarial accrued liabilities a bill payable immediately, but it is important that policy-makers prevent the amount from becoming unreasonably high and it is vital for plans to have a sound method for making payments toward them so that they are controlled.



SCHEDULE OF DEFINED BENEFIT FUNDING PROGRESS FOR COMPLIANCE WITH GASB STATEMENT NO. 25 (\$ AMOUNTS IN MILLIONS)

The schedule below measures the funding progress with respect to the *retirement allowance* portion of OPERS benefits for compliance with GASB Statement No. 25. Assets and liabilities related to post-employment health care benefits are specifically excluded from the schedule. Assets do, however, include market value adjustments.

Valuation Year	Actuarial Accrued Liabilities (AAL)	Valuation Assets	Unfunded Actuarial Accrued Liabilities (UAAL)	Ratio of Assets to AAL	Active Member Payroll	UAAL as a % of Active Member Payroll
1000	410.410					101 11
1989	\$18,310	\$14,629	\$3,681	80 %	\$5,597	66 %
1990	20,125	16,245	3,880	81 %	6,036	64 %
1991	22,027	18,108	3,919	82 %	6,651	59 %
1992	23,961	20,364	3,597	85 %	6,889	52 %
1993	26,506	23,063	3,443	87 %	7,236	48 %
1994	28,260	25,066	3,194	89 %	7,625	42 %
1995	30,556	27,651	2,905	90 %	7,973	36 %
1995*	30,224	27,651	2,573	91 %	7,973	32 %
1996	32,631	30,534	2,097	94 %	8,340	25 %
1997	34,971	33,846	1,125	97 %	8,640	13 %
1998	37,714	38,360	(646)	102 %	9,017	0 %
1999	43,070	43,060	10	100 %	9,477	0 %
2000	46,347	46,844	(497)	101 %	10,192	0 %
2001	49,095	48,748	347	99 %	10,782	3 %
2001*	47,492	48,748	(1,256)	103 %	10,782	0 %
2002	50,872	43,706	7,166	86 %	11,207	64 %
2003	54,774	46,746	8,028	85 %	11,165	72 %
2004	57,604	50,452	7,152	88 %	11,454	62 %

^{*} Revised actuarial assumptions.

SCHEDULE OF EMPLOYER CONTRIBUTIONS* FOR COMPLIANCE WITH GASB STATEMENT No. 25

Traditional Plan

Year Ended December 31	Annual Required Contributions	Percentage Contributed
1989	\$571,866,966	100%
1990	558,119,779	100%
1991	607,811,880	100%
1992	646,170,989	100%
1993	663,680,518	100%
1994	693,802,578	100%
1995	725,893,573	100%
1996	777,781,045	100%
1997	811,485,028	100%
1998	886,684,171	100%
1999	935,429,955	100%
2000	718,807,713	100%
2001	977,289,238	100%
2002	1,109,983,204	100%
2003	1,026,594,836	100%
2004	1,113,946,023	100%

Combined Plan

Year Ended	Annual Required	Percentage
December 31	Contributions	Contributed
2003	\$8,451,494	100%
2004	\$12,166,934	100%

^{*} The amounts reported in this schedule do not include contributions for post-employment healthcare benefits.

SCHEDULE OF UNFUNDED ACTUARIAL ACCRUED LIABILITY@ FOR COMPLIANCE WITH GASB STATEMENT NO. 25

		December 31, 2004	r 31,	2004	
	State	Local		Law	
	Group	Group		Group	Total
Accrued Liabilities					
Active and Inactive Members	\$ 12,441,274,701	\$ 18,268,769,266	↔	1,196,505,141	\$ 31,906,549,108
Retirees and Beneficiaries	10,540,921,493	14,157,542,023		998,963,991	25,697,427,507
Total Accrued Liabilities	\$ 22,982,196,194	\$ 32,426,311,289	€>	2,195,469,132	\$ 57,603,976,615
Assets					
Active and Inactive Members					
EAF*	\$ 6,979,175,964	\$ 10,037,704,864	€9	619,979,715	\$ 17,636,860,543
ESF	3,574,676,056	5,435,097,337		330,115,721	9,339,889,114
TP EAF Unallocated	361,305,769	507,500,794		33,382,981	902,189,543
Market Value Adjustment	(1,251,122,090)	(1,757,363,177)		(115,597,890)	(3,124,083,157)
Total Active and Inactive Assets	9,664,035,699	14,222,939,818		867,880,527	24,754,856,044
Retirees and Beneficiaries					
A & PR Fund*	10,097,219,629	13,411,113,030		961.989.166	24.470.321.825
SBF Fund*	443,701,864	746,428,993		36,974,826	1,227,105,683
Total R&B Assets	10,540,921,493	14,157,542,023		998,963,992	25,697,427,508
Total Assets	\$ 20,204,957,192	\$ 28,380,481,841	€⁄9	1,866,844,519	\$ 50,452,283,552
Unfunded Actuarial Accrued Liability	\$ 2.777.239.002	\$ 4.045.829.448	69	328.624.613	328.624.613 \$ 7.151.693.063
Unfunded Actuarial Accrued Liability	\$ 2,777,239,002	\$ 4,045,829,448 \$	€9	328,624,613	8

The amounts reported in this schedule do not include contributions for post-employment healthcare benefits. **®***

After reserve transfers.

REQUIRED SUPPLEMENTARY INFORMATION FOR COMPLIANCE WITH GASB STATEMENT No. 25

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest valuation date follows:

Valuation date December 31, 2004

Actuarial cost method Individual entry age

Amortization method for unfunded

actuarial accrued liabilities Level percent open

Equivalent Single Amortization Period 27 years

Asset valuation method 4-year smoothed market

Actuarial assumptions:

Investment rate of return 8.00%

Projected salary increases

including wage inflation at 4.0% 4.5% - 10.3% Cost-of-living adjustments 3.0% simple

Membership of the Traditional and Combined Plans consisted of the following at December 31, 2004, the date of the latest actuarial valuation:

Retirees and beneficiaries receiving benefits	149,296
Terminated plan members entitled to but	
not yet receiving benefits	274,959
Active plan members	_355,287
Total	779,542

The amortization period for GASB purposes was determined by reflecting employer and member contribution rates in the HCPP schedule through 2006. Increasing contribution rates scheduled for years 2007 and later were not reflected in this calculation.