



New York State and Local
Employees' Retirement System
Police and Fire Retirement System
Public Employees' Group Life Insurance Plan

H. Carl McCall
State Comptroller

Actuarial Valuations

**Fiscal Year Beginning
April 1, 2001**

EMPLOYEE'S
RETIREMENT SYSTEM

FISCAL YEAR
BEGINNING 4/1/01
ACTUARIAL VALUATION

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INTEREST AND DISCOUNT FACTORS, AND ASSUMPTIONS

***** INTEREST AND DISCOUNT FACTORS *****

MONTHS	INTEREST FACTORS	DISCOUNT FACTORS
1	1.006434	0.993607
2.5	1.016163	0.984094
3.5	1.022701	0.977803
6	1.039230	0.962250
8.5	1.056027	0.946945
11	1.073096	0.931883

***** ASSUMPTIONS *****

THE VARIOUS MULTIPLE DECREMENT AND SALARY SCALE TABLES ARE THOSE ADOPTED AS A RESULT OF THE 2000 5-YEAR EXPERIENCE STUDY OF THE SYSTEMS.

INFLATION - BOTH THE INTEREST RATE AND THE SALARY SCALE ASSUMPTION REFLECT 3.0% INFLATION.

INTEREST RATE 8.0%

SALARY SCALE (1 year expected increase)

Non-Uniformed Members 5.8%

Uniformed Members 6.7%

TIER 3 POST RETIREMENT BENEFIT INCREASE 3.0%

ACTUARIAL PRESENT VALUE OF PLAN BENEFITS
ERS FYB 4/1/01

PLAN	SERVICE	VESTING	RETURN OF CONTRIBUTIONS	ACCIDENTAL DISABILITY
TIER 1				
Contributory	\$1,079,856	\$20,161		\$3,358
75-c	37,618,666	758,706		62,247
75-e	11,983,822	238,219		20,315
75-g	227,884,999	4,475,564		314,257
75-h & i	12,519,832,313	283,610,286		17,418,588
75-h w/ 3/4 dis	31,591,783	843,123		457,554
80-a	60,448,578	3,927		674,143
89	328,324,277	967,529		5,060,887
89-a	6,803,609	3,181		119,451
89-b	34,849,000	18,817		506,962
89-b(m)	16,787,530	48,801		285,163
89-d	4,481,204	0		105,803
89-d(m)	5,893,081	0		88,552
89-e,...	120,687,687	391,326		2,123,806
551	1,366,142	0		24,217
552	3,043,487	0		62,533
553	18,838,813	0		340,131
89-sa,-sp	<u>47,919,084</u>	<u>56,572</u>		<u>729,091</u>
TIER 1 TOTALS	\$13,479,433,931	\$291,436,212		\$28,397,058
TIER 2				
Contributory	\$680,141	\$24,154		\$4,350
75-c & e	35,499,617	1,273,845		110,823
75-g	112,849,497	4,581,021		322,973
75-h & i	5,474,438,232	237,944,030		15,594,218
75-h w/ 3/4 dis	4,080,910	149,186		115,998
U.C.P.O.	144,201,567	5,369,964		371,783
80-a	2,459,476	0		48,839
89	206,613,986	709,064		4,355,784
89-a	1,513,511	152,636		55,701
89-b	9,993,020	542,992		261,179
89-b(m)	1,979,852	171,314		74,547
89-d	1,094,133	0		28,110
89-d(m)	1,279,846	0		8,975
89-e,...	74,638,406	195,312		1,849,355
551	5,329,512	22,694		157,925
551-e	2,821,155	4,994		70,885
552	6,409,436	371		179,870
553	23,132,436	16,031		600,929
89-sa,-sp	<u>10,634,057</u>	<u>0</u>		<u>224,132</u>
TIER 2 TOTALS	\$6,119,648,790	\$251,157,608		\$24,436,376
TIER 3 and 4				
ART 14 Corr. Officers	\$3,136,889,619	\$189,426,320	\$10,784,628	\$116,235,917
ART 14 & 15 Regular	31,944,568,940	2,112,902,552	213,545,174	178,946,418
ART 14 & 15 Reg w/ 3/4 dis	42,907,822	3,168,855	218,460	1,435,750
U.C.P.O.	658,034,697	49,289,475	4,003,355	49,947,645
89-e,...	1,166,207,756	72,437,685	3,799,030	10,263,874
551	41,434,052	1,736,577	109,187	4,638,826
551-e	27,252,935	1,045,244	57,098	2,787,618
552	67,644,282	694,212	132,792	4,777,405
553	179,600,004	2,342,453	367,489	13,158,717
604pr, rs	6,917,016	147,138	18,365	24,639
89-sa,-sp	<u>27,196,121</u>	<u>1,185,647</u>	<u>67,617</u>	<u>193,050</u>
TIER 3 and 4 TOTALS	\$37,298,653,244	\$2,434,376,158	\$233,103,195	\$382,409,859
GRAND TOTAL	\$56,897,735,965	\$2,976,969,978	\$233,103,195	\$435,243,293

ACTUARIAL PRESENT VALUE OF PLAN BENEFITS
ERS FYB 4/1/01

PLAN	ORDINARY DISABILITY	ACCIDENTAL DEATH	COLA	TOTAL PVB
TIER 1				
Contributory	\$14,605	\$93	\$84,799	\$1,202,872
75-c	274,915	1,713	2,074,010	40,790,257
75-e	87,595	556	632,406	12,962,913
75-g	1,420,281	8,644	9,383,360	243,487,105
75-h & i	85,189,447	475,328	409,035,040	13,315,561,002
75-h w/ 3/4 dis	251,831	1,221	801,151	33,946,663
80-a	1,743	3,543	1,098,439	62,230,373
89	807,311	26,356	8,883,046	344,069,406
89-a	2,170	604	199,346	7,128,361
89-b	16,563	2,540	961,369	36,355,251
89-b(m)	47,242	1,568	447,491	17,617,795
89-d	0	673	57,257	4,644,937
89-d(m)	0	456	86,368	6,068,457
89-e,...	284,161	11,157	2,750,201	126,248,338
551	0	118	47,377	1,437,854
552	0	356	94,763	3,201,139
553	0	1,818	391,237	19,571,999
89-sa,-sp	<u>39,167</u>	<u>3,624</u>	<u>987,270</u>	<u>49,734,808</u>
TIER 1 TOTALS	\$88,437,031	\$540,368	\$438,014,930	\$14,326,259,530
TIER 2				
Contributory	20,097	123	52,987	781,852
75-c & e	507,397	3,121	1,882,591	39,277,394
75-g	1,580,318	9,028	4,385,642	123,728,479
75-h & i	78,209,895	434,860	171,840,343	5,978,461,578
75-h w/ 3/4 dis	50,870	309	114,859	4,512,132
U.C.P.O.	1,761,912	10,187	3,014,902	154,730,315
80-a	0	345	41,161	2,549,821
89	549,771	28,825	5,639,133	217,896,563
89-a	97,477	390	62,758	1,882,473
89-b	446,720	1,507	362,367	11,607,785
89-b(m)	143,283	501	77,018	2,446,515
89-d	0	175	24,506	1,146,924
89-d(m)	0	38	33,447	1,322,306
89-e,...	186,366	12,624	1,812,408	78,694,471
551	5,736	925	186,310	5,703,102
551-e	1,425	458	92,439	2,991,356
552	163	1,250	200,345	6,791,435
553	4,991	3,879	477,721	24,235,987
89-sa,-sp	<u>0</u>	<u>1,395</u>	<u>231,539</u>	<u>11,091,123</u>
TIER 2 TOTALS	\$83,566,421	\$509,940	\$190,532,476	\$6,669,851,611
TIER 3 and 4				
ART 14 Corr. Officers	129,876,801	3,667,297	92,231,316	3,679,111,898
ART 14 & 15 Regular	864,976,073	8,459,439	1,334,547,094	36,657,945,690
ART 14 & 15 Reg w/ 3/4 d	1,443,856	10,789	1,392,792	50,578,324
U.C.P.O.	20,673,193	182,765	19,474,256	801,605,386
89-e,...	35,308,198	1,045,923	25,545,766	1,314,608,232
551	614,651	40,040	1,150,731	49,724,064
551-e	369,754	24,141	676,863	32,213,653
552	400,725	55,235	1,881,718	75,586,369
553	1,166,445	135,571	3,216,139	199,986,818
604pr, rs	69,989	3,140	110,897	7,291,184
89-sa, -sp	<u>713,061</u>	<u>26,275</u>	<u>431,957</u>	<u>29,813,728</u>
TIER 3 and 4 TOTALS	\$1,055,612,746	\$13,650,615	\$1,480,659,529	\$42,898,465,346
GRAND TOTAL	\$1,227,616,198	\$14,700,923	\$2,109,206,935	\$63,894,576,487

PLAN MEMBERS AND THEIR COMPENSATION
ERS FYB 4/1/01

PLAN	MEMBERS	4/1/00-3/31/01 SALARY	PROJECTED COMPENSATION (4/1/01-3/31/02)	PRESENT VALUE PROJECTED COMPENSATION
TIER 1				
Contributory	20	\$460,718	\$364,280	\$1,595,384
75-c	276	8,174,050	6,426,892	29,268,540
75-e	81	2,682,428	2,153,702	9,528,758
75-g	1,053	41,260,356	33,420,792	147,389,944
75-h & i	43,529	2,136,077,074	1,775,361,721	8,105,807,703
75-h w/ 3/4 dis	82	5,175,007	4,498,664	20,726,424
80-a	126	9,167,599	6,227,991	26,220,979
89	945	55,335,380	45,082,521	196,565,213
89-a	22	1,136,116	984,906	4,738,670
89-b	96	5,877,896	4,774,940	20,309,282
89-b(m)	47	2,792,704	2,393,526	11,626,659
89-d	7	800,104	714,737	4,379,837
89-d(m)	9	944,013	792,033	3,489,940
89-e,...	303	20,555,105	17,536,072	83,622,813
551	5	236,577	204,662	944,664
552	11	522,252	463,009	2,540,151
553	43	2,993,038	2,641,478	13,643,331
89-sa, -sp	<u>104</u>	<u>7,628,749</u>	<u>6,401,062</u>	<u>28,241,826</u>
TIER 1 TOTALS	46,759	\$2,301,819,166	\$1,910,442,988	\$8,710,640,118
TIER 2				
Contributory	11	\$349,744	\$312,425	\$2,181,139
75-c & e	299	8,942,979	7,873,997	55,637,477
75-g	638	24,590,536	22,178,053	160,702,001
75-h & i	24,420	1,142,771,039	1,045,741,564	7,739,301,935
75-h w/ 3/4 dis	15	842,694	795,567	5,503,597
U.C.P.O.	398	28,390,087	26,479,383	181,419,299
80-a	5	373,732	328,346	2,025,744
89	668	37,954,763	32,882,647	178,106,863
89-a	8	349,518	317,294	2,355,988
89-b	40	2,202,808	1,848,436	10,899,718
89-b(m)	10	459,424	435,783	3,176,125
89-d	3	219,128	195,090	1,153,407
89-d(m)	3	225,588	124,086	317,703
89-e,...	222	14,113,138	12,481,116	76,716,756
551	23	1,067,081	955,618	5,809,211
551-e	11	538,863	478,905	2,773,689
552	26	1,257,076	1,131,413	7,570,771
553	61	4,044,096	3,699,928	24,422,715
89-sa, -sp	<u>27</u>	<u>1,861,609</u>	<u>1,639,738</u>	<u>9,120,548</u>
TIER 2 TOTALS	26,888	\$1,270,553,903	\$1,159,899,389	\$8,469,194,686
TIER 3 and 4				
ART 14 Corr. Officers	22,021	\$1,029,896,138	\$993,780,093	\$12,497,762,556
ART 14 & 15 Regular	397,060	13,237,885,471	12,129,045,555	132,000,023,853
ART 14 & 15 Reg w/ 3/4 dis	333	15,212,246	14,271,678	161,570,871
U.C.P.O.	5,066	266,216,622	247,751,356	2,844,328,786
89-e,...	7,076	369,210,904	357,264,447	4,846,854,193
551	287	12,627,287	12,307,836	170,916,241
551-e	161	7,765,637	7,579,275	102,851,017
552	442	17,953,399	17,425,544	231,917,821
553	790	44,648,002	43,183,664	586,251,028
604pr, rs	21	1,802,692	1,531,824	15,547,853
89-sa, -sp	<u>133</u>	<u>7,717,563</u>	<u>7,576,655</u>	<u>117,192,066</u>
TIER 3 and 4 TOTALS	433,390	\$15,010,935,961	\$13,831,717,927	\$153,575,216,285
GRAND TOTAL	507,037	\$18,583,309,030	\$16,902,060,304	\$170,755,051,089

PRESENT VALUE OF ORDINARY DEATH BENEFITS OVER \$50,000
AND SICK LEAVE BENEFITS
ERS FYB 4/1/01

***** DEATH BENEFITS OVER \$50,000 *****

TIER 1		
CONTRIBUTORY		\$11,578
SEC 75-c		623,735
SEC 75-e		199,629
SEC 75-g		3,678,473
SEC 75-h,i		201,153,709
RGD75		506,245
SEC 80-a		1,588,407
SEC 89		2,587,288
SEC 89-a		145,481
SEC 89-b		501,755
SEC 89-b(m)		348,342
SEC 89-d		113,117
SEC 89-d(m)		131,436
SEC 89-e,...		2,818,565
SEC 551		29,646
SEC 552		67,134
SEC 553		487,944
SEC 89-sa,-sp		<u>1,216,699</u>
SUB-TOTAL		\$216,209,183
	TIER 2	TIERS 3 & 4
DEATH BEN 1	15,761,507	41,480,611
DEATH BEN 2	61,748,078	762,581,642
DEATH BEN 0	<u>1,557,305</u>	<u>73,994,838</u>
SUB-TOTAL	\$79,066,890	\$878,057,091
	TOTAL	\$1,173,333,164

***** POST RETIREMENT DEATH BENEFITS *****

	TIER 2	TIERS 3 & 4
SERVICE	5,330,324	49,186,427
ORD. DIS	247,533	3,569,155
ACC. DIS	<u>54,209</u>	<u>665,021</u>
SUB TOTAL	\$5,632,066	\$53,420,603
	TOTAL	\$59,052,669

***** SICK LEAVE BENEFITS *****

TIER 1	\$107,498,533
TIER 2	48,292,364
TIERS 3 & 4	<u>262,966,672</u>
TOTAL	\$418,757,569

PRESENT VALUE OF INACTIVE,
PENDING RETIREMENT AND PENDING DEATH BENEFITS
ERS FYB 4/1/01

	MEMBERS	LIABILITY	SALARY BASE
INACTIVES			
TIER 1	10,016	\$599,068,555	\$193,598,847
TIER 2	5,054	237,918,990	129,877,577
TIER 3 & 4	<u>60,336</u>	<u>801,634,226</u>	<u>1,128,759,573</u>
TOTAL	75,406	\$1,638,621,771	\$1,452,235,997
 PENDING RETIREMENTS			
TIER 1			
STATE SERVICE	1,703	\$576,365,719	\$81,445,079
NON-STATE SERV	2,136	701,986,802	99,636,439
ACC DISABILITY	3	897,314	172,504
ORD DISABILITY	<u>25</u>	<u>4,327,916</u>	<u>797,477</u>
SUB TOTAL	3,867	\$1,283,577,751	\$182,051,499
 TIER 2			
STATE SERVICE	333	\$87,251,424	\$16,679,339
NON-STATE SERV	599	132,221,205	25,204,671
ACC DISABILITY	2	573,891	103,113
ORD DISABILITY	<u>15</u>	<u>2,507,435</u>	<u>545,593</u>
SUB TOTAL	949	\$222,553,955	\$42,532,716
 TIERS 3 & 4			
STATE SERVICE	993	\$121,292,325	\$37,247,963
NON-STATE SERV	2,172	236,884,928	78,371,552
ACC DISABILITY	13	1,827,275	525,622
ORD DISABILITY	<u>92</u>	<u>9,274,447</u>	<u>2,738,710</u>
SUB TOTAL	3,270	\$369,278,975	\$118,883,847
 TOTAL	 8,086	 \$1,875,410,681	 \$343,468,062
 PENDING DEATHS (excess of \$50,000) - included in MISC. LIABILITIES PAYABLE			
TIER 1	80	\$11,470,381	\$3,478,057
TIER 2	23	1,459,753	952,138
TIERS 3&4	<u>264</u>	<u>15,805,708</u>	<u>10,541,966</u>
TOTAL	367	\$28,735,842	\$14,972,161

PRESENT VALUE OF DEFICIENCY CONTRIBUTIONS, AND RATES AND
PRESENT VALUE OF LATE START CONTRIBUTIONS
ERS FYB 4/1/01

***** PRESENT VALUE OF FUTURE DEFICIENCY CONTRIBUTIONS *****

PRESENT VALUE OF FUTURE DEFICIENCY CONTRIBUTIONS AS OF
12/15/01 BILLING (INCLUDING 12/15/01 PAYMENT):

TOWNS	\$4,065,787
VILLAGES	1,253,378
MISCELLANEOUS	4,853,375
SCHOOLS	<u>960,864</u>
TOTAL	\$11,133,404

PRESENT VALUE OF FUTURE DEFICIENCY PAYMENTS =
(PRESENT VALUE CONTRIBUTIONS AS OF 12/15/01)(8.5 MO. DISCOUNT)

= \$11,133,404 * 0.946945 = \$10,542,721

***** PRESENT VALUE OF LATE START CHARGES *****

PV LATE START CHARGE = LATE START RATE * PV PROJ COMP * 3.5 MO INT

PLAN	LATE START RATE	PV PROJECTED COMPENSATION	PV LATE START CHARGES
TIER 2 89-d	0.071	1,153,407	83,751
TIER 2 89-d(m)	0.076	317,703	24,694
TIER 2 89-e,..	0.035	61,346,903	2,195,884
TIER 4 89-e,..	0.007	4,391,101,163	<u>31,435,485</u>
		TOTAL	\$33,739,814

FIVE YEAR MOVING AVERAGE VALUE OF INVESTMENTS
ERS FYB 4/1/01

FISCAL YEAR ENDED	MARKET VALUE	PURCHASES	SALES
3/31/97	50,944,541,000		
3/31/98	69,416,275,000	19,106,210,000	19,958,024,000
3/31/99	72,649,451,000	23,861,347,000	26,687,298,000
3/31/00	91,847,934,000	31,455,841,000	30,507,216,000
3/31/01	76,613,252,533	26,302,218,082	24,710,884,000

AVERAGE MARKET VALUE OF INVESTMENTS FOR ERS ONLY =

$$\text{ERS MV}_{01} - .8 \times \text{ERS UG}_{01} - .6 \times \text{ERS UG}_{00} - .4 \times \text{ERS UG}_{99} - .2 \times \text{ERS UG}_{98} = 70,731,735,145$$

WHERE ERS MV = TOTAL MARKET VALUE * 2001 % OF INVESTMENTS FOR ERS

$$= 64,714,218,442$$

$$\text{UG} = (\text{AG} - \text{EG}) \times \% \text{ OF INVESTMENTS FOR ERS,}$$

$$\text{AG} = \text{ACTUAL GAIN} = \text{MV}_T - \text{MV}_{T-1} - (\text{PURCHASES}_T - \text{SALES}_T) \text{ AND}$$

EG = EXPECTED GAIN, ASSUMING A 7% INCREASE IN MARKET VALUE, OMITTING ANY DIVIDEND PAYMENTS

$$= .07 \times \text{MV}_{T-1} - (\text{SALES}_T - \text{PURCHASES}_T) \times (1.07 - 1)^{1/2}$$

	% OF INVESTMENTS	AG	EG	UG
3/31/98	84.1620	19,323,548,000	3,536,808,617	13,286,435,600
3/31/99	84.1885	6,059,127,000	4,761,903,806	1,092,112,749
3/31/00	84.2761	18,249,858,000	5,118,101,900	11,066,931,903
3/31/01	84.4687	(16,826,015,549)	6,484,110,072	(19,689,760,080)

THIS ERS ACTUARIAL MARKET VALUE OF INVESTMENTS IS FURTHER CONSTRAINED TO BE WITHIN + OR - 20% OF THE 2001 ERS MARKET VALUE OF INVESTMENTS.

80% OF 2001 ERS MARKET VALUE = \$51,771,374,754

120% OF 2001 ERS MARKET VALUE = \$77,657,062,130

ERS ACTUARIAL VALUE OF INVESTMENTS, CONSTRAINED TO BE WITHIN + OR - 20% OF 2001 ERS MARKET VALUE, IS \$70,731,735,145 .

ERS ACTUARIAL VALUE OF INVESTMENTS	70,731,735,145
- ERS MARKET VALUE OF INVESTMENTS	- 64,714,218,442
= SMOOTHING ADJUSTMENT	6,017,516,703

ERS PENSION ACCUMULATION FUND	62,345,505,500
+ SMOOTHING ADJUSTMENT	<u>6,017,516,703</u>
= ERS PENSION ACCUMULATION FUND FOR VALUATION BALANCE SHEET	68,363,022,203

PENSIONERS AND BENEFICIARIES
ERS FYB 4/1/01

ANNUAL ALLOWANCE				ORDINARY DEATH BENEFIT
	<u>NUMBER</u>	<u>ANNUITY</u>	<u>PENSION</u>	
<u>SERVICE BENEFITS</u>				
PENSIONERS	232,494	26,429,073	2,650,834,813	
BENEFICIARIES	<u>19,534</u>	<u>3,877,633</u>	<u>112,018,620</u>	
SUB TOTAL	252,028	30,306,706	2,762,853,433	
<u>DISABILITY BENEFITS</u>				
PENSIONERS	17,422	445,493	169,670,664	
BENEFICIARIES	<u>2,385</u>	<u>89,095</u>	<u>13,621,784</u>	
SUB TOTAL	19,807	534,588	183,292,448	
ACCIDENTAL DEATH BENEFICIARIES	192	0	1,865,744	
DESIGNATED ANNUITANTS	1,120	0	0	5,276,185
GRAND TOTAL	273,147	30,841,294	2,948,011,625	5,276,185

RESERVES

	<u>COLA</u>	<u>ANNUITY</u>	<u>PENSION</u>	<u>SPECIAL RESERVE FUND</u>
<u>SERVICE BENEFITS</u>				
PENSIONERS	4,326,365,980	186,912,363	24,154,703,942	
BENEFICIARIES	<u>284,826,760</u>	<u>24,201,081</u>	<u>885,224,687</u>	
SUB TOTAL	4,611,192,740	211,113,444	25,039,928,629	
<u>DISABILITY BENEFITS</u>				
PENSIONERS	381,307,455	3,096,302	1,580,301,885	
BENEFICIARIES	<u>26,940,813</u>	<u>696,145</u>	<u>130,015,584</u>	
SUB TOTAL	408,248,268	3,792,447	1,710,317,469	
ACCIDENTAL DEATH BENEFICIARIES	8,176,041	0	19,965,866	
DESIGNATED ANNUITANTS	0	0	0	42,582,196
SUB TOTAL	5,027,617,049	214,905,891	26,770,211,964	42,582,196
POST RETIREMENT DEATH BENEFIT			78,582	
GRAND TOTAL	5,027,617,049	214,905,891	26,770,290,546	42,582,196

ACTUARIAL PRESENT VALUE OF BENEFITS
ERS FYB 4/1/01

PENSIONERS AND BENEFICIARIES

ANNUITY RESERVE FUND	\$214,905,891	
PENSION RESERVE FUND	26,770,290,546	
SPECIAL RESERVE FOR D. A.	42,582,196	
COLA	5,027,617,049	
 TOTAL P.V. OF PENSIONER BENEFITS		 \$32,055,395,682

ACTIVE MEMBERS

ANNUITY SAVINGS FUND	\$35,506,854
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BENEFITS:

MEMBER SERVICE BENEFITS	56,897,735,965
VESTING BENEFITS	2,976,969,978
ACCIDENTAL DISABILITY BENEFITS	435,243,293
ORDINARY DISABILITY BENEFITS	1,227,616,198
ACCIDENTAL DEATH BENEFITS	14,700,923
DEATH BENEFITS OVER \$50,000	1,173,333,164
POST RETIREMENT DEATH BENEFITS	59,052,669
WITHDRAWAL OF TIERS 3 & 4	233,103,195
MEMBER CONTRIBUTIONS	
SICK LEAVE BENEFITS	418,757,569
PENDING RETIREMENTS	1,875,410,681
VESTED INACTIVES	1,638,621,771
COLA - ACTIVE BILLABLES	2,109,206,935
RESTORATIONS	8,599,140
PENDING TRANSFER-IN RESERVES	9,203,000
TIER 3 AND 4 NON-VESTED INACTIVE	29,849,618
MEMBER CONTRIBUTIONS	
PUBLIC SERVICE BILL	300,000,000
MILITARY BILL	300,000,000

TOTAL PV BENEFITS FOR ACTIVE MEMBERS	\$69,742,910,953
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MISCELLANEOUS (ALL OTHER FUNDS)

LIABILITIES PAYABLE	\$263,937,676
LOAN INSURANCE RESERVE	1,292,366

TOTAL MISCELLANEOUS LIABILITY	\$265,230,042
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TOTAL ACTUARIAL PRESENT VALUE OF BENEFITS	\$102,063,536,677
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***** ACTUARIAL BALANCE SHEET *****

ACTUARIAL PRESENT VALUE OF ASSETS
ERS FYB 4/1/01

PRESENT ASSETS OF SYSTEM *

TIERS 3 & 4 MEMBER CONTRIBUTIONS		\$5,328,626,126
ANNUITY SAVINGS FUND		35,506,854
ANNUITY RESERVE FUND		214,905,891
PENSION RESERVE FUND		26,770,290,546
SPECIAL RESERVE FOR DESIGNATED ANNUITANTS		42,582,196
PENSION ACCUMULATION FUND		68,363,022,203
ALL OTHER FUNDS		
LIABILITIES PAYABLE	263,937,676	
LOAN INSURANCE RESERVE	1,292,366	
TOTAL OTHER FUNDS		\$265,230,042
TOTAL PRESENT VALUATION ASSETS		\$101,020,163,858

ACTUARIAL PRESENT VALUE OF PROSPECTIVE CONTRIBUTIONS
PAYABLE BY EMPLOYERS TO PENSION ACCUMULATION FUND

NORMAL CONTRIBUTIONS	\$263,909,665	
DEFICIENCY CONTRIBUTIONS	10,542,721	
LATE START CONTRIBUTIONS	33,739,814	
TOTAL CONTRIBUTIONS		\$308,192,200
APV OF FUTURE TIERS 3 & 4 MEMBER CONTRIBUTIONS		\$735,180,619
TOTAL PROSPECTIVE CONTRIBUTIONS		\$1,043,372,819
TOTAL ACTUARIAL PRESENT VALUE OF ASSETS		\$102,063,536,677

* SEE PAGE 32

CALCULATION OF INDICES
ERS FYB 4/1/01

$$\text{PLAN NEW ENTRANT RATE} = \frac{\text{PLAN PV BENEFITS} * 3.5 \text{ MO. DISCOUNT}}{\text{PLAN PV COMPENSATION}}$$

$$\text{PLAN INDEX} = \frac{\text{PLAN NEW ENTRANT RATE}}{\text{TIER 1 CONTRIBUTORY NEW ENTRANT RATE}}$$

PLAN	PRESENT VALUE OF BENEFITS	PRESENT VALUE OF COMPENSATION	NEW ENTRANT RATE	INDEX
TIER 1				
Contributory	672,078,825	8,560,177,952	0.076770	1.000000
75-c	1,269,479,547	8,560,177,952	0.145009	1.888876
75-e	1,269,479,547	8,560,177,952	0.145009	1.888876
75-g	1,341,518,046	8,560,177,952	0.153238	1.996066
75-h & i	1,396,050,958	8,560,177,952	0.159467	2.077205
RGD75	1,446,322,408	8,410,060,432	0.168158	2.190413
80-a	280,320,736	1,247,707,107	0.219682	2.861561
89	224,877,406	1,289,137,030	0.170568	2.221805
89-a	223,630,637	1,329,887,850	0.164425	2.141787
89-b	225,445,463	1,247,674,368	0.176682	2.301446
89-b(m)	240,442,384	1,302,810,531	0.180460	2.350658
89-d	225,430,048	1,257,363,326	0.175308	2.283548
89-d(m)	240,191,587	1,311,918,624	0.179020	2.331900
89-e,...	227,347,231	1,301,551,222	0.170797	2.224788
551	217,576,753	1,325,351,225	0.160521	2.090934
551-e			0.163483	2.129517
551-ee	222,093,948	1,320,386,905	0.164470	2.142373
552	232,336,655	1,257,363,326	0.180679	2.353510
553			0.185285	2.413508
553b	250,655,963	1,311,918,624	0.186820	2.433503
89-sa,p	231,294,123	1,301,551,222	0.173762	2.263410
Sick leave	7,970,240	8,560,177,952	0.000910	0.011854
TIER 2				
Contributory	668,223,762	9,762,823,645	0.066926	0.871773
75-c & e	1,216,052,977	9,762,823,645	0.121795	1.586492
75-g	1,304,660,338	9,762,823,645	0.130669	1.702084
75-h & i	1,359,576,748	9,762,823,645	0.136169	1.773727
RGD75	1,418,196,101	9,554,203,050	0.145142	1.890608
U.C.P.O.	1,359,576,748	9,762,823,645	0.136169	1.773727
80-a	280,320,736	1,247,707,107	0.219682	2.861561
89	224,877,406	1,289,137,030	0.170568	2.221805
89-a	213,413,401	1,356,491,025	0.153835	2.003843
89-b	197,926,048	1,344,473,866	0.143947	1.875042
89-b(m)	204,946,126	1,343,412,590	0.149170	1.943077
89-d	221,296,580	1,257,363,326	0.172094	2.241683
89-d(m)	235,871,329	1,311,918,624	0.175800	2.289957
89-e,...	222,339,490	1,301,551,222	0.167035	2.175785
551	212,676,636	1,325,351,225	0.156906	2.043845
551-e			0.160130	2.085841
551-ee	217,683,425	1,320,386,905	0.161204	2.099831
552	228,294,036	1,257,363,326	0.177535	2.312557
553			0.182056	2.371447
553b	246,286,970	1,311,918,624	0.183563	2.391077
89-sa,p	229,876,895	1,301,551,222	0.172697	2.249538
Sick leave	7,889,456	9,762,823,645	0.000790	0.010290
TIER 3 and 4				
ART. 14 & 15 REGULAR	1,066,178,675	9,785,883,070	0.106532	1.387677
RGD75	1,102,523,776	9,699,686,805	0.111143	1.447740
U.C.P.O.	1,141,909,885	9,575,663,150	0.116604	1.518875
ART. 14 CORR OFF	175,713,760	1,337,478,864	0.128461	1.673323
89-e,...	179,818,330	1,363,858,016	0.128919	1.679289
551	192,761,499	1,325,351,225	0.142213	1.852455
551-e			0.146001	1.901798
551-ee	198,857,842	1,320,386,905	0.147263	1.918236
552	210,051,953	1,257,363,326	0.163349	2.127771
553			0.169038	2.201876
553b	229,341,986	1,311,918,624	0.170934	2.226573
89-sa	186,669,334	1,363,858,016	0.133831	1.743272
604p, q	220,364,435	1,344,249,958	0.160292	2.087951
County 75% IPOD	3,910,361	1,353,899,892	0.002824	0.036787
Sick leave	7,533,128	9,785,883,070	0.000753	0.009809

INDEXED PRESENT VALUE PROJECTED FYE 3/31/02 COMPENSATION
ERS FYB 4/1/01

PLAN	PRESENT VALUE 2002 PROJ. COMP.	INDEX	INDEXED P.V. PROJ. COMP.
TIER 1			
Contributory	\$1,595,384	1.000000	\$1,595,384
75-c	29,268,540	1.888876	55,284,643
75-e	9,528,758	1.888876	17,998,642
75-g	147,389,944	1.996066	294,200,056
75-h & i	8,105,807,703	2.077205	16,837,424,290
RGD75	20,726,424	2.190413	45,399,429
80-a	26,220,979	2.861561	75,032,931
89	196,565,213	2.221805	436,729,573
89-a	4,738,670	2.141787	10,149,222
89-b	20,309,282	2.301446	46,740,716
89-b(m)	11,626,659	2.350658	27,330,299
89-d	4,379,837	2.283548	10,001,568
89-d(m)	3,489,940	2.331900	8,138,191
89-e,...	83,622,813	2.224788	186,043,031
551	944,664	2.090934	1,975,230
552	2,540,151	2.353510	5,978,271
553, -b	13,643,331	2.433503	33,201,087
89-sa,-sp	28,241,826	2.263410	63,922,831
Sick Leave	<u>7,310,191,170</u>	0.011854	<u>86,655,006</u>
TIER 1 TOTAL	\$8,710,640,118 *		\$18,243,800,400
TIER 2			
Contributory	\$2,181,139	0.871773	\$1,901,458
75-c & e	55,637,477	1.586492	88,268,412
75-g	160,702,001	1.702084	273,528,305
75-h & i	7,739,301,935	1.773727	13,727,408,803
RGD75	5,503,597	1.890608	10,405,145
UCPO	181,419,299	1.773727	321,788,309
80-a	2,025,744	2.861561	5,796,790
89	178,106,863	2.221805	395,718,719
89-a	2,355,988	2.003843	4,721,030
89-b	10,899,718	1.875042	20,437,429
89-b(m)	3,176,125	1.943077	6,171,455
89-d	1,153,407	2.241683	2,585,573
89-d(m)	317,703	2.289957	727,526
89-e,...	76,716,756	2.175785	166,919,167
551	5,809,211	2.043845	11,873,127
551-e, -ee	2,773,689	2.099831	5,824,278
552	7,570,771	2.312557	17,507,839
553, -b	24,422,715	2.391077	58,396,592
89-sa,-sp	9,120,548	2.249538	20,517,019
Sick Leave	<u>7,153,444,275</u>	0.010290	<u>73,608,942</u>
TIER 2 TOTAL	\$8,469,194,686 *		\$15,214,105,918
TIERS 3 and 4			
ART. 14 & 15 Regular	\$132,000,023,853	1.387677	\$183,173,397,100
RGD75	161,570,871	1.447740	233,912,613
UCPO	2,844,328,786	1.518875	4,320,179,885
ART. 14 Corr. Officers	12,497,762,556	1.673323	20,912,793,533
89-e,...	4,846,854,193	1.679289	8,139,268,931
551	170,916,241	1.852455	316,614,645
551-e, -ee	102,851,017	1.918236	197,292,523
552	231,917,821	2.127771	493,468,014
553, -b	586,251,028	2.226573	1,305,330,710
604pr, -rs	15,547,853	2.087951	32,463,155
89-sa,-sp	117,192,066	1.743272	204,297,647
County 75% IPOD	840,965,762	0.036787	30,936,607
Sick Leave	<u>106,839,649,984</u>	0.009809	<u>1,047,990,127</u>
TIERS 3 & 4 TOTAL	\$153,575,216,285 *		\$220,407,945,490

* DOES NOT INCLUDE SICK LEAVE

INDEXED PROJECTED FYE 3/31/02 COMPENSATION *
ERS FYB 4/1/01

PLAN	PROJECTED 2002 COMPENSATION	INDEX	INDEXED PROJECTED COMPENSATION
TIER 1			
71-a	\$364,280	1.000000	\$364,280
75-c	6,426,892	1.888876	12,139,602
75-e	2,153,702	1.888876	4,068,076
75-g	33,420,792	1.996066	66,710,107
75-h & i	1,775,361,721	2.077205	3,687,790,244
RGD75	4,498,664	2.190413	9,853,932
80-a	6,227,991	2.861561	17,821,776
89	45,082,521	2.221805	100,164,571
89-a	984,906	2.141787	2,109,459
89-b	4,774,940	2.301446	10,989,267
89-b(m)	2,393,526	2.350658	5,626,361
89-d	714,737	2.283548	1,632,136
89-d(m)	792,033	2.331900	1,846,942
89-e,...	17,536,072	2.224788	39,014,043
551	204,662	2.090934	427,935
552	463,009	2.353510	1,089,696
553, -b	2,641,478	2.433503	6,428,045
89-sa,-sp	6,401,062	2.263410	14,488,228
Sick Leave	<u>1,605,425,667</u>	0.011854	<u>19,030,716</u>
TIER 1 TOTAL	\$1,910,442,988 **		\$4,001,595,416
TIER 2			
71-a	\$312,425	0.871773	\$272,364
75-c & e	7,873,997	1.586492	12,492,033
75-g	22,178,053	1.702084	37,748,909
75-h & i	1,045,741,564	1.773727	1,854,860,047
RGD75	795,567	1.890608	1,504,105
UCPO	26,479,383	1.773727	46,967,197
80-a	328,346	2.861561	939,582
89	32,882,647	2.221805	73,058,830
89-a	317,294	2.003843	635,807
89-b	1,848,436	1.875042	3,465,895
89-b(m)	435,783	1.943077	846,760
89-d	195,090	2.241683	437,330
89-d(m)	124,086	2.289957	284,152
89-e,...	12,481,116	2.175785	27,156,225
551	955,618	2.043845	1,953,135
551-e, -ee	478,905	2.099831	1,005,620
552	1,131,413	2.312557	2,616,457
553, -b	3,699,928	2.391077	8,846,813
89-sa,-sp	1,639,738	2.249538	3,688,653
Sick Leave	<u>965,911,164</u>	0.010290	<u>9,939,226</u>
TIER 2 TOTAL	\$1,159,899,389 **		\$2,088,719,140
TIERS 3 and 4			
ART. 14 & 15 Regular	\$12,129,045,555	1.387677	\$16,831,197,549
RGD75	14,271,678	1.447740	20,661,679
UCPO	247,751,356	1.518875	376,303,341
ART. 14 Corr. Officers	993,780,093	1.673323	1,662,915,087
89-e,...	357,264,447	1.679289	599,950,256
551	12,307,836	1.852455	22,799,712
551-e, -ee	7,579,275	1.918236	14,538,838
552	17,425,544	2.127771	37,077,567
553, -b	43,183,664	2.226573	96,151,580
604pr, -rs	1,531,824	2.087951	3,198,373
89-sa,sp	7,576,655	1.743272	13,208,171
County 75% IPOD	69,453,258	0.036787	2,554,977
Sick Leave	<u>9,761,053,853</u>	0.009809	<u>95,746,177</u>
TIERS 3 & 4 TOTAL	\$13,822,609,448 **		\$19,776,303,307
TOTAL ERS	\$16,892,951,825		\$25,866,617,863

* PROJECTED COMPENSATION EQUALS THE COMPENSATION FOR 3/31/02
ATTRIBUTABLE TO THE MEMBERS ON ROLL AS OF 3/31/01.

** DOES NOT INCLUDE SICK LEAVE

BASIC PLAN'S NORMAL RATE
ERS FYB 4/1/01

	INDEXED P.V. PROJECTED COMP.
TIER 1	\$18,243,800,400
TIER 2	15,214,105,918
TIER 3 and 4	<u>220,407,945,490</u>
TOTAL	\$253,865,851,808
P. V. FUTURE NORMAL CONTRIBUTIONS	\$263,909,665

BASIC PLAN'S NORMAL RATE

$$\text{BASIC RATE} = \frac{\text{P.V.FUTURE NORMAL CONTRIBUTIONS (3.5 MO. DISCOUNT)}}{\text{INDEXED PRESENT VALUE PROJECTED COMPENSATION}}$$

$$= \frac{\$263,909,665 * 0.977803}{\$253,865,851,808}$$

$$= 0.001016$$

NORMAL RATES
ERS FYB 4/1/01

PLAN	BASIC RATE (1)	INDEX (2)	REGULAR NORMAL RATE (1) * (2) = (3)	LATE START RATE (4)	BILLING NORMAL RATE (3) + (4)
TIER 1					
Contributory	0.001016	1.000000	0.001016		0.001016
75-c	0.001016	1.888876	0.001919		0.001919
75-e	0.001016	1.888876	0.001919		0.001919
75-g	0.001016	1.996066	0.002028		0.002028
75-h & i	0.001016	2.077205	0.002110		0.002110
RGD75	0.001016	2.190413	0.002225		0.002225
80-a	0.001016	2.861561	0.002907		0.002907
89	0.001016	2.221805	0.002257		0.002257
89-a	0.001016	2.141787	0.002176		0.002176
89-b	0.001016	2.301446	0.002338		0.002338
89-b(m)	0.001016	2.350658	0.002388		0.002388
89-d	0.001016	2.283548	0.002320		0.002320
89-d(m)	0.001016	2.331900	0.002369		0.002369
89-e,...	0.001016	2.224788	0.002260		0.002260
551	0.001016	2.090934	0.002124		0.002124
551-e	0.001016	2.129517	0.002164		0.002164
551-ee	0.001016	2.142373	0.002177		0.002177
552	0.001016	2.353510	0.002391		0.002391
553	0.001016	2.413508	0.002452		0.002452
553b	0.001016	2.433503	0.002472		0.002472
89-as,p	0.001016	2.263410	0.002300		0.002300
Sick Leave	0.001016	0.011854	0.000012		0.000012
TIER 2					
Contributory	0.001016	0.871773	0.000886		0.000886
75-c & e	0.001016	1.586492	0.001612		0.001612
75-g	0.001016	1.702084	0.001729		0.001729
75-h & i	0.001016	1.773727	0.001802		0.001802
RGD75	0.001016	1.890608	0.001921		0.001921
UCPO	0.001016	1.773727	0.001802		0.001802
80-a	0.001016	2.861561	0.002907		0.002907
89	0.001016	2.221805	0.002257		0.002257
89-a	0.001016	2.003843	0.002036		0.002036
89-b	0.001016	1.875042	0.001905		0.001905
89-b(m)	0.001016	1.943077	0.001974		0.001974
89-d	0.001016	2.241683	0.002278	0.071	0.073278
89-d(m)	0.001016	2.289957	0.002327	0.076	0.078327
89-e,....pre 4/1/98 elections	0.001016	2.175785	0.002211	0.035	0.037211
89-e,....post 3/31/98 elections			0.002211		0.002211
551	0.001016	2.043845	0.002077		0.002077
551-e	0.001016	2.085841	0.002119		0.002119
551-ee	0.001016	2.099831	0.002133		0.002133
552	0.001016	2.312557	0.002350		0.002350
553	0.001016	2.371447	0.002409		0.002409
553b	0.001016	2.391077	0.002429		0.002429
89-as,p	0.001016	2.249538	0.002286		0.002286
Sick Leave	0.001016	0.010290	0.000010		0.000010
TIER 3 and 4					
ART. 14 & 15 Regular	0.001016	1.387677	0.001410		0.001410
RGD75	0.001016	1.447740	0.001471		0.001471
UCPO	0.001016	1.518875	0.001543		0.001543
ART. 14 Correction Officer	0.001016	1.673323	0.001700		0.001700
89-e,....pre 4/1/98 elections	0.001016	1.679289	0.001706	0.007	0.008706
89-e,....post 3/31/98 elections			0.001706		0.001706
551	0.001016	1.852455	0.001882		0.001882
551-e	0.001016	1.901798	0.001932		0.001932
551-ee	0.001016	1.918236	0.001949		0.001949
552	0.001016	2.127771	0.002162		0.002162
553	0.001016	2.201876	0.002237		0.002237
553b	0.001016	2.226573	0.002262		0.002262
604q	0.001016	2.087951	0.002121		0.002121
89-sa	0.001016	1.743272	0.001771		0.001771
County 75% IPOD	0.001016	0.036787	0.000037		0.000037
Sick Leave	0.001016	0.009809	0.000010		0.000010

ADMINISTRATIVE AND GROUP LIFE INSURANCE RATES
ERS FYB 4/1/01

***** ADMINISTRATIVE RATE *****

ADMINISTRATIVE EXPENSES FOR 4/1/01-3/31/02 = \$48,287,144
(THE ADMINISTRATIVE EXPENSES FOR 4/1/01-3/31/02
ARE ASSUMED TO BE THE SAME AS THOSE FOR
4/1/00-3/31/01)

$$\text{ADMINISTRATIVE RATE} = \frac{\text{ADMINISTRATIVE EXPENSES}}{\text{ESTIMATED BILLING SALARY}} =$$

$$\frac{48,287,144}{18,675,382,885} = 0.002586 = 0.3 \%$$

ESTIMATED BILLING SALARY IS ESTIMATED SALARY USED IN THE 12/15/01 NON-STATE BILLING AND THE 9/1/01 STATE BILLING.

WE ALWAYS ROUND THE RATE TO THE NEXT HIGHEST TENTH OF A PERCENT SINCE THE ADMINISTRATIVE EXPENSE MUST BE PAID.

***** GROUP LIFE INSURANCE RATES *****

2.00 PROJECTED LOSS RATIO

$$\text{GROUP LIFE RATE} = \frac{\text{GROUP LIFE LIABILITY} * 3.5 \text{ MO DISCOUNT FACTOR}}{\text{PROJECTED COMPENSATION} * \text{PROJECTED LOSS RATIO}}$$

	LIABILITY	PROJECTED COMPENSATION	UNROUNDED RATE	BILLING RATE
TIER 1				
AGE 55 PLANS & 80-A	7,081,287	1,828,454,042	0.001893	0.2 %
89 (Correction Officers)	153,755	45,082,521	0.001667	0.2 %
All Others	91,003	36,906,425	0.001206	0.1 %

TIERS 2-4

DEATH BENEFIT 1	1,983,562			
DEATH BENEFIT 2	37,180,716			
POST-RETIREMENT DB2 FOR RETIREES	16,518,237			
TOTAL DB 0,1&2	55,682,515	13,964,954,576	0.001949	0.2 %
STATE CORRECTION OFFICERS	1,390,825	1,026,662,740	0.000662	0.1 %

ERS TIER 1 FINAL RATES
(as a percent)
FYB 4/1/01

RETIREMENT PLAN	NORMAL RATE	ADMN RATE	GROUP LIFE RATE	SICK LEAVE RATE	TOTAL FINAL RATE
CONTRIBUTORY	0.1	0.3	0.2		0.6
SEC 75-c	0.2	0.3	0.2		0.7
SEC 75-e	0.2	0.3	0.2		0.7
SEC 75-g	0.2	0.3	0.2		0.7
SEC 75-h	0.2	0.3	0.2	0.1	0.8
SEC 75-i	0.2	0.3	0.2		0.7
RGD75	0.2	0.3	0.2	0.1	0.8
SEC 80-a	0.3	0.3	0.2	0.1	0.9
SEC 89	0.2	0.3	0.2	0.1	0.8
SEC 89-a	0.2	0.3	0.1		0.6
SEC 89-b	0.2	0.3	0.1		0.6
SEC 89-b(m)	0.2	0.3	0.1		0.6
SEC 89-d	0.2	0.3	0.1		0.6
SEC 89-d(m)	0.2	0.3	0.1		0.6
SEC 89-e,....-ts	0.2	0.3	0.1		0.6
SEC 551	0.2	0.3	0.1		0.6
SEC 551-e	0.2	0.3	0.1		0.6
SEC 551-ee	0.2	0.3	0.1		0.6
SEC 552	0.2	0.3	0.1		0.6
SEC 553	0.2	0.3	0.1		0.6
SEC 553b	0.2	0.3	0.1		0.6
SEC 89-sa,p	0.2	0.3	0.1		0.6

OPTIONS - ADDITIONAL RATES (NON-STATE ONLY)

OPTION	RATES
SICK LEAVE	0.1
5% ITHP	0.1
8% ITHP	0.1

ERS TIER 2 FINAL RATES
(as a percent)
FYB 4/1/01

RETIREMENT PLAN	NORMAL RATE	ADMN RATE	GROUP LIFE RATE	SICK LEAVE RATE	TOTAL FINAL RATE
CONTRIBUTORY	0.1	0.3	0.2		0.6
SEC 75-c,-e	0.2	0.3	0.2		0.7
SEC 75-g	0.2	0.3	0.2		0.7
SEC 75-h	0.2	0.3	0.2	0.1	0.8
SEC 75-i	0.2	0.3	0.2		0.7
RGD75	0.2	0.3	0.2	0.1	0.8
U.C.P.O.	0.2	0.3	0.2	0.1	0.8
SEC 80-a	0.3	0.3	0.2	0.1	0.9
SEC 89	0.2	0.3	0.1	0.1	0.7
SEC 89-a	0.2	0.3	0.2		0.7
SEC 89-b	0.2	0.3	0.2		0.7
SEC 89-b(m)	0.2	0.3	0.2		0.7
SEC 89-d	7.3	0.3	0.2		7.8
SEC 89-d(m)	7.8	0.3	0.2		8.3
SEC 89-e,...	3.7	0.3	0.2		4.2
SEC 89-p post 3/31/98 elections	0.2	0.3	0.2		0.7
SEC 89-ts	0.2	0.3	0.2		0.7
SEC 551	0.2	0.3	0.2		0.7
SEC 551-e	0.2	0.3	0.2		0.7
SEC 551-ee	0.2	0.3	0.2		0.7
SEC 552	0.2	0.3	0.2		0.7
SEC 553	0.2	0.3	0.2		0.7
SEC 553b	0.2	0.3	0.2		0.7
SEC 89-sa,p	0.2	0.3	0.2		0.7
TEACHERS & COM. COL.(ADD'L RATE)	0.1	N/A	N/A		0.1

OPTIONS - ADDITIONAL RATES (NON-STATE ONLY)

OPTION	RATES
SICK LEAVE	0.1
5% ITHP	0.1
8% ITHP	0.1

ERS TIERS 3 & 4 FINAL RATES
(as a percent)
FYB 4/1/01

RETIREMENT PLAN	NORMAL RATE	ADMN RATE	GROUP LIFE RATE	SICK LEAVE RATE	TOTAL FINAL RATE
TIER 3					
ARTICLE 14 & 15 REGULAR STATE	0.1	0.3	0.2	0.1	0.7
ARTICLE 14 & 15 REGULAR NON-STATE	0.1	0.3	0.2		0.6
RGD75	0.1	0.3	0.2	0.1	0.7
U.C.P.O.	0.2	0.3	0.2	0.1	0.8
ARTICLE 14 CORRECTION OFFICER	0.2	0.3	0.1		0.6
SEC 89-e,...	0.9	0.3	0.2		1.4
SEC 89-p post 3/31/98 elections	0.2	0.3	0.2		0.7
SEC 89-ts	0.2	0.3	0.2		0.7
SEC 551	0.2	0.3	0.2		0.7
SEC 551-e	0.2	0.3	0.2		0.7
SEC 551-ee	0.2	0.3	0.2		0.7
SEC 552	0.2	0.3	0.2		0.7
SEC 553	0.2	0.3	0.2		0.7
SEC 553b	0.2	0.3	0.2		0.7
SEC 604p, r	0.2	0.3	0.2		0.7
SEC 89-sa	0.2	0.3	0.2		0.7
TEACHERS & COM. COL. (ADD'L RATE)	0.1	N/A	N/A		0.1

OPTIONS - ADDITIONAL RATES (NON-STATE ONLY)

OPTION	RATES
SICK LEAVE	0.1
COUNTY 75% IPOD	0.1

CALCULATION OF FUNDS FOR STUDY PURPOSES

THE 2001 FUNDS WERE ATTRIBUTED TO EACH PLAN BY THE FORMULA

(3.5/12)

PLAN LIABILITIES - (NORMAL RATE)(PV PROJ COMP)(1+i) - PV MEMBER CONTRIBS
 (does not include ord death benefits) (Tiers 3 & 4 only)

	TIER 1	TIER 2	TIERS 3 & 4
Contributory	1,201,214	779,876	
75-c	40,732,816		
75-e	12,944,212	39,185,670	
75-g	243,181,413	123,444,318	
75-h & i	13,298,069,487	5,964,198,763	
RGD75	33,899,500	4,501,320	50,335,258
U.C.P.O.		154,395,976	797,116,957
80-a	62,152,418	2,543,798	
Correction officers	343,615,687	217,485,450	3,657,383,392
89-a	7,117,816	1,877,567	
89-b	36,306,690	11,586,550	
89-b(m)	17,589,400	2,440,103	
89-d	4,634,545	1,144,237	
89-d(m)	6,060,002	1,321,550	
89-e,...	126,055,060	78,521,000	1,306,151,790
551	1,435,802	5,689,966	49,395,098
551-e, -ee		2,985,464	32,010,434
552	3,194,928	6,775,028	75,124,100
553, -b	19,537,786	24,182,711	198,690,570
89-sa,sp	49,663,409	11,069,203	29,559,521
604pr, rs			7,291,184
County 75% IPOD			29,813,728
REGULAR			36,467,600,545
Sick Leave	107,408,819	48,219,206	261,874,022
GRAND TOTAL	64,079,495,358		

ERS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ----- STATE

	NUMBER	SALARIES	NUMBER	SALARIES
	TIER 1		TIER 2	
AGE 55 CONTRIBUTORY				
AGE 60 CONTRIBUTORY				
AGE 55 75-C				
AGE 55 75-E				
AGE 55 75-G				
AGE 55 75-H	23,096	\$1,227,277,199.84	11,231	\$578,840,119.13
AGE 55 75-I	3	75,312.84		
REG CO/SHTA 3/4 DIS	82	5,280,972.79	15	857,130.57
CORR OFF 89	946	56,427,092.95	668	38,673,303.18
C.O./SHER 89A,E-T				
SHERIFFS 89-B				
SHERIFFS 89-B(M)				
INVESTIGATORS 89-D				
INVESTIGA. 89-D(M)				
AMBUL TECHS 89-SA				
PEACE OFFIC 89-SP				
SHERIFFS - 551				
SHERIFFS - 551E				
SHERIFFS - 552				
SHERIFFS - 553				
LEGISLATORS 80-A	113	8,555,619.11	5	373,732.23
UNIFIED CRT PC OFF			398	28,959,410.86
OMH SAFETY OFFICERS	70	3,585,944.99	46	2,420,728.73
SUB-TOTAL	24,310	1,301,202,142.52	12,363	650,124,424.70
INACTIVE NON-VESTED	3	20,943.26	6	24,313.00
INACTIVE VESTED	5,261	104,227,404.04	2,275	62,612,583.16
PENDING RETIREMENTS	1,720	82,445,427.02	344	17,189,962.23
PENDING DEATHS	42	1,747,797.73	10	467,150.95
SUB-TOTAL	7,026	188,441,572.05	2,635	80,294,009
GRAND TOTAL	31,336	\$1,489,643,714.57	14,998	\$730,418,434.04
TIER 3 & 4				
ARTICLE 14 & 15	128,288	\$4,788,946,894.79		
REG CO/SHTA 3/4 DIS	334	15,332,030.30		
ART 14 CORR OFFICER	22,022	1,003,450,123.12		
SHERIFFS - 551				
SHERIFFS - 551E				
SHERIFFS - 552				
SHERIFFS - 553				
UNIFIED CRT PC OFF	5,067	264,791,178.55		
C.O./SHERIFF 89E-T				
AMBUL TECHS 89-SA				
INVEST 603OR/604PR				
OMH SAFETY OFFICERS	451	18,734,142.48		
SUB-TOTAL	156,162	6,091,254,369.24		
INACTIVE NON-VESTED	8,380	118,437,032.35		
INACTIVE VESTED	10,305	324,184,979.96		
PENDING RETIREMENTS	1,040	38,953,544.77		
PENDING DEATHS	122	4,024,306.96		
SUB-TOTAL	19,847	485,599,864.04		
GRAND TOTAL	176,009	\$6,576,854,233.28		

ERS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ——— CITIES

	NUMBER	SALARIES	NUMBER	SALARIES
	TIER 1		TIER 2	
AGE 55 CONTRIBUTORY				
AGE 60 CONTRIBUTORY				
AGE 55 75-C				
AGE 55 75-E				
AGE 55 75-G	125	5,313,905.08	97	3,917,469.56
AGE 55 75-H				
AGE 55 75-I	1,454	62,444,228.88	853	35,742,463.40
REG CO/SHTA 3/4 DIS				
CORR OFF 89				
C.O./SHER 89A,E-T				
SHERIFFS 89-B				
SHERIFFS 89-B(M)				
INVESTIGATORS 89-D				
INVESTIGA. 89-D(M)				
AMBUL TECHS 89-SA				
PEACE OFFIC 89-SP				
SHERIFFS - 551				
SHERIFFS - 551E				
SHERIFFS - 552				
SHERIFFS - 553				
LEGISLATORS 80-A	0	18,009.03		
UNIFIED CRT PC OFF				
OMH SAFETY OFFICERS				
SUB-TOTAL	1,579	67,776,142.99	950	39,659,932.96
INACTIVE NON-VESTED	1	17,971.14	1	28,602.42
INACTIVE VESTED	478	9,364,845.00	317	8,283,878.42
PENDING RETIREMENTS	184	7,794,262.27	37	1,426,139.82
PENDING DEATHS	5	104,083.92	2	99,337.56
SUB-TOTAL	668	17,281,162.33	357	9,837,958.22
GRAND TOTAL	2,247	\$85,057,305.32	1,307	\$49,497,891.18

TIER 3 & 4

ARTICLE 14 & 15	13,546	\$440,608,857.11		
REG CO/SHTA 3/4 DIS				
ART 14 CORR OFFICER				
SHERIFFS - 551				
SHERIFFS - 551E				
SHERIFFS - 552				
SHERIFFS - 553				
UNIFIED CRT PC OFF				
C.O./SHERIFF 89E-T				
AMBUL TECHS 89-SA				
INVEST 603OR/604PR				
OMH SAFETY OFFICERS				
SUB-TOTAL	13,546	440,608,857.11		
INACTIVE NON-VESTED	1,101	13,131,084.90		
INACTIVE VESTED	1,222	32,536,910.59		
PENDING RETIREMENTS	114	3,742,574.20		
PENDING DEATHS	14	400,258.91		
SUB-TOTAL	2,451	49,810,828.60		
GRAND TOTAL	15,997	\$490,419,685.71		

ERS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ——— TOWNS

	NUMBER	SALARIES	NUMBER	SALARIES
	TIER 1		TIER 2	
AGE 55 CONTRIBUTORY	13	\$297,309.02	6	\$140,165.44
AGE 60 CONTRIBUTORY	3	42,975.20	1	3,685.72
AGE 55 75-C	126	3,232,485.84	118	3,086,570.92
AGE 55 75-E	15	414,031.38	15	453,482.81
AGE 55 75-G	100	3,599,802.14	68	2,277,145.99
AGE 55 75-H				
AGE 55 75-I	2,566	125,841,527.16	1,666	76,235,903.96
REG CO/SHTA 3/4 DIS				
CORR OFF 89				
C.O./SHER 89A,E-T	1	50,288.00		
SHERIFFS 89-B				
SHERIFFS 89-B(M)				
INVESTIGATORS 89-D				
INVESTIGA. 89-D(M)				
AMBUL TECHS 89-SA				
PEACE OFFIC 89-SP				
SHERIFFS - 551				
SHERIFFS - 551E				
SHERIFFS - 552				
SHERIFFS - 553				
LEGISLATORS 80-A	1	58,638.45		
UNIFIED CRT PC OFF				
OMH SAFETY OFFICERS				
SUB-TOTAL	2,825	133,537,057.19	1,874	82,196,954.84
INACTIVE NON-VESTED	2	0.00	3	11,058.36
INACTIVE VESTED	525	9,775,908.45	332	7,356,411.99
PENDING RETIREMENTS	197	7,783,961.64	79	2,655,118.98
PENDING DEATHS	6	254,187.33	1	6,451.60
SUB-TOTAL	730	17,814,057.42	415	10,029,040.93
GRAND TOTAL	3,555	\$151,351,114.61	2,289	\$92,225,995.77
	TIER 3 & 4			
ARTICLE 14 & 15	27,510	\$840,016,980.55		
REG CO/SHTA 3/4 DIS				
ART 14 CORR OFFICER				
SHERIFFS - 551				
SHERIFFS - 551E				
SHERIFFS - 552				
SHERIFFS - 553				
UNIFIED CRT PC OFF				
C.O./SHERIFF 89E-T	3	115,629.74		
AMBUL TECHS 89-SA				
INVEST 603OR/604PR				
OMH SAFETY OFFICERS				
SUB-TOTAL	27,513	840,132,610.29		
INACTIVE NON-VESTED	1,941	17,604,598.19		
INACTIVE VESTED	1,558	37,142,807.30		
PENDING RETIREMENTS	244	8,195,091.88		
PENDING DEATHS	21	589,342.36		
SUB-TOTAL	3,764	63,531,839.73		
GRAND TOTAL	31,277	\$903,664,450.02		

ERS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ——— VILLAGES

	NUMBER	SALARIES	NUMBER	SALARIES
	TIER 1		TIER 2	
AGE 55 CONTRIBUTORY	3	28,234.37	2	92,680.84
AGE 60 CONTRIBUTORY	1	29,019.24		
AGE 55 75-C	52	1,735,955.94	53	1,741,219.33
AGE 55 75-E	5	116,727.23	1	36,825.18
AGE 55 75-G	56	2,188,443.18	32	1,309,763.08
AGE 55 75-H				
AGE 55 75-I	679	32,182,724.46	404	17,530,614.08
REG CO/SHTA 3/4 DIS				
CORR OFF 89				
C.O./SHER 89A,E-T				
SHERIFFS 89-B				
SHERIFFS 89-B(M)				
INVESTIGATORS 89-D				
INVESTIGA. 89-D(M)				
AMBUL TECHS 89-SA				
PEACE OFFIC 89-SP				
SHERIFFS - 551				
SHERIFFS - 551E				
SHERIFFS - 552				
SHERIFFS - 553				
LEGISLATORS 80-A				
UNIFIED CRT PC OFF				
OMH SAFETY OFFICERS				
SUB-TOTAL	796	36,281,104.42	492	20,711,102.51
INACTIVE NON-VESTED	1	0.00	2	33,743.60
INACTIVE VESTED	187	3,481,565.26	97	1,996,321.09
PENDING RETIREMENTS	79	3,477,806.80	10	357,901.83
PENDING DEATHS	2	31,932.89	1	42,543.55
SUB-TOTAL	269	6,991,304.95	110	2,430,510.07
GRAND TOTAL	1,065	\$43,272,409.37	602	\$23,141,612.58
TIER 3 & 4				
ARTICLE 14 & 15	8,816	\$262,742,027.94		
REG CO/SHTA 3/4 DIS				
ART 14 CORR OFFICER				
SHERIFFS - 551				
SHERIFFS - 551E				
SHERIFFS - 552				
SHERIFFS - 553				
UNIFIED CRT PC OFF				
C.O./SHERIFF 89E-T				
AMBUL TECHS 89-SA				
INVEST 603OR/604PR				
OMH SAFETY OFFICERS				
SUB-TOTAL	8,816	262,742,027.94		
INACTIVE NON-VESTED	813	7,321,142.41		
INACTIVE VESTED	589	13,728,757.77		
PENDING RETIREMENTS	79	2,632,323.78		
PENDING DEATHS	5	139,786.13		
SUB-TOTAL	1,486	23,822,010.09		
GRAND TOTAL	10,302	\$286,564,038.03		

ERS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ——— MISCELLANEOUS

	NUMBER	SALARIES	NUMBER	SALARIES
	TIER 1		TIER 2	
AGE 55 CONTRIBUTORY	0	\$8,651.72	1	\$88,448.69
AGE 60 CONTRIBUTORY	3	65,953.67	1	4,694.77
AGE 55 75-C	19	1,042,523.73	17	719,019.98
AGE 55 75-E	9	473,296.54	7	227,001.80
AGE 55 75-G	281	13,253,146.06	117	6,647,660.55
AGE 55 75-H	306	17,049,270.65	211	11,797,149.26
AGE 55 75-I	3,235	186,995,730.83	1,851	100,403,173.66
REG CO/SHTA 3/4 DIS				
CORR OFF 89				
C.O./SHER 89A,E-T				
SHERIFFS 89-B				
SHERIFFS 89-B(M)				
INVESTIGATORS 89-D				
INVESTIGA. 89-D(M)				
AMBUL TECHS 89-SA				
PEACE OFFIC 89-SP				
SHERIFFS - 551				
SHERIFFS - 551E				
SHERIFFS - 552				
SHERIFFS - 553				
LEGISLATORS 80-A	3	219,011.51		
UNIFIED CRT PC OFF				
OMH SAFETY OFFICERS				
SUB-TOTAL	3,856	219,107,584.71	2,205	119,887,148.71
INACTIVE NON-VESTED	1	87,506.23	3	31,163.31
INACTIVE VESTED	877	20,352,665.06	403	13,016,360.58
PENDING RETIREMENTS	407	24,218,191.65	87	4,765,229.05
PENDING DEATHS	4	142,385.81	2	98,227.66
SUB-TOTAL	1,289	44,800,748.75	495	17,910,980.60
GRAND TOTAL	5,145	\$263,908,333.46	2,700	\$137,798,129.31
	TIER 3 & 4			
ARTICLE 14 & 15	52,589	\$1,926,267,546.58		
REG CO/SHTA 3/4 DIS				
ART 14 CORR OFFICER				
SHERIFFS - 551				
SHERIFFS - 551E				
SHERIFFS - 552				
SHERIFFS - 553				
UNIFIED CRT PC OFF				
C.O./SHERIFF 89E-T				
AMBUL TECHS 89-SA				
INVEST 603OR/604PR				
OMH SAFETY OFFICERS				
SUB-TOTAL	52,589	1,926,267,546.58		
INACTIVE NON-VESTED	5,303	72,907,763.64		
INACTIVE VESTED	3,789	132,116,928.80		
PENDING RETIREMENTS	408	18,597,754.07		
PENDING DEATHS	34	1,267,415.09		
SUB-TOTAL	9,534	224,889,861.60		
GRAND TOTAL	62,123	\$2,151,157,408.18		

ERS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ——— TOTAL

	NUMBER	SALARIES	NUMBER	SALARIES
	TIER 1		TIER 2	
AGE 55 CONTRIBUTORY	16	334,195.11	11	381,097.98
AGE 60 CONTRIBUTORY	7	137,948.11	2	8,380.49
AGE 55 75-C	285	8,240,121.64	247	7,112,231.46
AGE 55 75-E	84	2,691,720.66	59	1,932,418.45
AGE 55 75-G	1,069	41,436,219.51	646	24,679,523.77
AGE 55 75-H	23,402	1,244,326,470.49	11,442	590,637,268.39
AGE 55 75-I	20,091	910,119,507.48	12,960	559,729,174.71
REG CO/SHTA 3/4 DIS	82	5,280,972.79	15	857,130.57
CORR OFF 89	946	56,427,092.95	668	38,673,303.18
C.O./SHER 89A,E-T	258	18,214,769.63	185	12,108,447.24
SHERIFFS 89-B	96	5,877,897.56	40	2,202,808.49
SHERIFFS 89-B(M)	47	2,792,703.94	10	459,424.01
INVESTIGATORS 89-D	8	882,134.58	3	219,128.53
INVESTIGA. 89-D(M)	9	944,013.54	3	225,588.27
AMBUL TECHS 89-SA	11	746,528.55	9	625,515.52
PEACE OFFIC 89-SP	93	6,882,223.70	18	1,236,093.93
SHERIFFS - 551	5	236,576.93	23	1,067,081.31
SHERIFFS - 551E	0	0.00	11	538,862.83
SHERIFFS - 552	11	522,251.70	26	1,257,076.30
SHERIFFS - 553	43	2,993,039.02	61	4,044,097.21
LEGISLATORS 80-A	126	9,232,105.27	5	373,732.23
UNIFIED CRT PC OFF	0	0.00	398	28,959,410.86
OMH SAFETY OFFICERS	70	3,585,944.99	46	2,420,728.73
SUB-TOTAL	46,759	2,321,904,438.15	26,888	1,279,748,524.46
INACTIVE NON-VESTED	11	132,159.13	24	228,389.07
INACTIVE VESTED	10,005	193,490,870.35	5,030	129,672,623.49
PENDING RETIREMENTS	3,867	184,396,372.14	949	42,947,276.27
PENDING DEATHS	94	3,247,752.48	23	947,154.87
SUB-TOTAL	13,977	381,267,154.10	6,026	173,795,443.70
GRAND TOTAL	60,736	2,703,171,592.25	32,914	1,453,543,968.16

TIER 3 & 4

ARTICLE 14 & 15	397,057	\$12,643,448,195.09
REG CO/SHTA 3/4 DIS	334	15,332,030.30
ART 14 CORR OFFICER	22,022	1,003,450,123.12
SHERIFFS - 551	287	12,568,768.94
SHERIFFS - 551E	161	7,765,637.97
SHERIFFS - 552	442	17,697,698.27
SHERIFFS - 553	790	44,324,778.62
UNIFIED CRT PC OFF	5,067	264,791,178.55
C.O./SHERIFF 89E-T	6,625	341,558,701.37
AMBUL TECHS 89-SA	133	7,717,563.36
INVEST 603OR/604PR	21	1,802,692.73
OMH SAFETY OFFICERS	451	18,734,142.48
SUB-TOTAL	433,390	14,379,191,510.80
INACTIVE NON-VESTED	33,698	368,131,847.54
INACTIVE VESTED	26,638	760,712,534.45
PENDING RETIREMENTS	3,270	119,613,494.56
PENDING DEATHS	313	9,761,986.00
SUB-TOTAL	63,919	1,258,219,862.55
GRAND TOTAL	497,309	\$15,637,411,373.35

ERS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ——— GRAND TOTAL

	NUMBER	SALARIES
AGE 55 CONTRIBUTORY	27	\$715,293.09
AGE 60 CONTRIBUTORY	9	146,328.60
AGE 55 75-C	532	15,352,353.10
AGE 55 75-E	143	4,624,139.11
AGE 55 75-G	1,715	66,115,743.28
AGE 55 75-H	34,844	1,834,963,738.88
AGE 55 75-I	33,051	1,469,848,682.19
REG CO/SHTA 3/4 DIS	431	21,470,133.66
CORRECTION OFFICERS	23,636	1,098,550,519.25
OMH SAFETY OFFICERS	567	24,740,816.20
C.O./SHER 89A,E-T	7,068	371,881,918.24
SHERIFFS 89-B	136	8,080,706.05
SHERIFFS 89-B(M)	57	3,252,127.95
INVESTIGATORS 89-D	11	1,101,263.11
INVESTIGA. 89-D(M)	12	1,169,601.81
AMBUL TECHS 89-SA	153	9,089,607.43
PEACE OFFIC 89-SP	111	8,118,317.63
INVEST 603OR/604PR	21	1,802,692.73
SHERIFFS - 551	315	13,872,427.18
SHERIFFS - 551E	172	8,304,500.80
SHERIFFS - 552	479	19,477,026.27
SHERIFFS - 553	894	51,361,914.85
LEGISLATORS 80-A	131	9,605,837.50
UNIFIED CRT PC OFF	5,465	293,750,589.41
ARTICLE 14 & 15	397,057	12,643,448,195.09
SUB-TOTAL	507,037	17,980,844,473.41
INACTIVE NON-VESTED	33,733	368,492,395.74
INACTIVE VESTED	41,673	1,083,876,028.29
PENDING RETIREMENTS	8,086	346,957,142.97
PENDING DEATHS	430	13,956,893.35
SUB-TOTAL	83,922	1,813,282,460.35
GRAND TOTAL	590,959	\$19,794,126,933.76

NUMBER OF ACTIVE MEMBERS

	<u>TIER 1</u>	<u>TIER 2</u>	<u>TIER 3&4</u>	<u>TOTAL</u>
STATE	24,310	12,363	156,162	192,835
COUNTIES	8,337	5,476	87,075	100,888
CITIES	1,579	950	13,546	16,075
TOWNS	2,825	1,874	27,513	32,212
VILLAGES	796	492	8,816	10,104
MISC	3,856	2,205	52,589	58,650
SCHOOLS	5,056	3,528	87,689	96,273
TOTAL	46,759	26,888	433,390	507,037

ACTIVE MEMBERS SALARIES

	<u>TIER 1</u>	<u>TIER 2</u>	<u>TIER 3 & 4</u>	<u>TOTAL</u>
STATE	1,301,202,142.52	650,124,424.70	6,091,254,369.24	8,042,580,936.46
COUNTIES	399,328,751.17	252,953,082.98	2,946,037,723.96	3,598,319,558.11
CITIES	67,776,142.99	39,659,932.96	440,608,857.11	548,044,933.06
TOWNS	133,537,057.19	82,196,954.84	840,132,610.29	1,055,866,622.32
VILLAGES	36,281,104.42	20,711,102.51	262,742,027.94	319,734,234.87
MISC	219,107,584.71	119,887,148.71	1,926,267,546.58	2,265,262,280.00
SCHOOLS	164,671,655.15	114,215,877.76	1,872,148,375.68	2,151,035,908.59
TOTAL	2,321,904,438.15	1,279,748,524.46	14,379,191,510.80	17,980,844,473.41

INCENTIVE AND AMORTIZATION PAYMENT AMOUNTS AND PRESENT VALUES

THE PRESENT VALUES SHOWN BELOW, MINUS ANY CREDITS DUE TO ADVANCE PAYMENTS, ARE INCLUDED IN THE "PRESENT ASSETS" OF THE SYSTEM, DESPITE THE FACT THAT THEY HAVE NOT YET BEEN RECEIVED.

	CHAPTER/ LAWS OF	ANNUAL PAYMENT	LAST PAYMENT DATE	PRESENT VALUE AS OF 4/1/01
LOCAL				
Amortization of 1988 & 1989 Bills		88,368,857	12/15/2005	294,998,090
Incentives	30/1996	6,672,551	12/15/2001	6,287,642
	41/1997	5,114,248	12/15/2002	9,250,707
	47/1998	5,111,053	12/15/2003	13,368,071
	70/1999	10,847,371	12/15/2004	36,506,439
	86/2000	11,676,267	12/15/2005	68,500,000
Misc. Amortizations				21,021,699
STATE				
Incentives	30/1996	2,149,220	by 3/1/2002	2,077,393
	41/1997	6,514,100	by 3/1/2003	12,099,528
	47/1998	9,080,000	by 3/1/2004	16,865,525
	70/1999	6,880,000	by 3/1/2005	18,544,554
	86/2000	5,795,519	by 3/1/2006	34,000,000
Misc. Amortizations				3,960,661

COMPARISON OF ACCOUNTING'S NET ASSETS AVAILABLE
FOR BENEFITS WITH ACTUARIAL ASSETS

	ERS	PFRS	GLIP	TOTAL
ACCOUNTING'S NET ASSETS AVAILABLE FOR BENEFITS	96,399,617,273	17,577,740,224	66,153,795	114,043,511,292
PLUS LIABILITIES PAYABLE FROM ACCOUNTING'S BALANCE SHEETS	263,937,676	43,188,112	23,345,834	330,471,622
SUBTOTAL - ACCOUNTING'S BALANCE SHEET ASSETS	96,663,554,949 <i>195597</i>	17,620,928,336 <i>(17,334)</i>	89,499,629	114,373,982,914 <i>117,453 (102)</i>
DIFFERENCE BETWEEN MARKET VALUE AND AMORTIZED VALUE OF BONDS AND MORTGAGE LOANS	-1,628,812,295	-299,490,490		
NON-MEMBER CONTRIBUTIONS IN THE PA FUND	-32,095,500	-30,906		
5-YEAR SMOOTHING ADJUSTMEN	6,017,516,703	1,087,102,854		
TOTAL - ACTUARIAL ASSETS	101,020,163,857	18,408,509,794	89,499,629	119,518,173,280

Minras, Omegas and Retirement Assumptions

ERS – Tier 1

Plan or Group		Minra	Assumed Omega	Retirement Assumption
75-a	(1025)	55	70	T1E55
75-c	(1030)	55	70	T1E55
75-e	(1035)	55	70	T1E55
75-g	(1040)	55	70	T1E55
75 h & i	(1065,1066,1098)	55	70	T1E55
RGD75	(1082)	55	70	T1E55
80-a	(1095)	MIN(20 YRS, MAX(55, 10YRS))	70	YR25W70
89	(1080)	MIN(60, 25 YRS)	70	OR25C70
89-a	(1085)	MAX(50, MIN (65, 25 YRS))	65	YR25W70
89-b	(1090)	MIN (60, 20 YRS)	60	YR20W62
89-b(m)	(1091)	MIN (60, 20 YRS)	60	OR20E62
89-d	(1087)	MIN (62, 20 YRS)	62	YR20W62
89-d(m)	(1088)	MIN (62, 20 YRS)	62	OR20E62
89-e	(1086)	MIN (60, 25 YRS)	70	YR25W70
89-sa,-sp	(1084)	MIN (60, 25 YRS)	70	YR25W70
SICK LEAVE	(1145,1146)	55	70	T1E55
PEND ST RET	(1010,1011)	N/A	N/A	T1E55
PEND N-ST RET	(1015,1016)	N/A	N/A	T1E55
PEND ACC DIS	(1012)	N/A	N/A	T1E55
PEND ORD DIS	(1013)	N/A	N/A	T1E55
INACTIVE VEST	(1006,1008)	55	N/A	T1E55
SEC. 551	(1096)	MIN (60,25 YRS)	7062	YR25W70
SEC. 551-e	(1097)	MIN (60,25 YRS)	62	YR25W70
SEC. 552	(1092)	MIN (62, 20 YRS)	62	YR20W62
SEC. 553	(1093)	MIN (62, 20 YRS)	62	OR20E62

Minras, Omegas and Retirement Assumptions

ERS -- TIER 2

PLAN OR GROUP		MINRA	ASSUMED OMEGA	RETIREMENT ASSUMPTION
71-a	(3025)	MAX (55, 5 YRS)	70	T2E55
75-c & e	(3030)	MAX (55, 5 YRS)	70	T2E55
75-g	(3035)	MAX (55, 5 YRS)	70	T2E55
75h & i	(3055, 3056, 3099)	MAX (55, 5 YRS)	70	T2E55
RGD75	(3061)	MAX (55, 5 YRS)	70	T2E55
PEACE OFF	(3057)	MAX (55, 5 YRS)	70	T2E55
PEACE OFF (DIS)	(3078)	MAX (55, 5 YRS)	70	T2E55
80-a	(3073)	MIN (20 YRS, MAX (55, 10 YRS))	70	YR25W70
89	(3060)	MIN (60, 25 YRS)	70	YR25C70
89-a	(3065)	MAX (55, MIN (65, 25 YRS))	65	YR25W70
89-b	(3070)	MIN (60, MAX (55, 20 YRS))	60	YR20W62
89-b(m))	(3071)	MIN (60, MAX (55, 20 YRS))	60	OR20E62
89-d	(3067)	MIN (62, 20 YRS)	62	YR20W62
89-d(m)	(3068)	MIN (62, 20 YRS)	62	OR20E62
89-e	(3066)	MIN (60, 25 YRS)	70	YR25W70
89-sa,-sp	(3064)	MIN (60, 25 YRS)	70	YR25W70
DTH BENEFIT 1	(3087)	MAX (55, 5 YR)	70	T2E55
DTH BENEFIT 2	(3085)	MAX (55, 5 YR)	70	T2E55
SICK LEAVE	(3095, 3096)	MAX (55, 5 YR)	70	T2E55
PEND ST RET	(3010, 3011)	N/A	N/A	T2E55
PEND NON-ST RET	(3015, 3016)	N/A	N/A	T2E55
PEND ACC DIS	(3012)	N/A	N/A	T2E55
PEND ORD DIS	(3013)	N/A	N/A	T2E55
INACTIVE VEST	(3006, 3008)	MAX (55, 5 YR)	N/A	T2E55
TEACHERS	(3098)	MAX (55, 5 YR)	70	T2E55
COMM. COLL.	(3097)	MAX (55, 5 YR)	70	T2E55
SEC. 551	(3076)	MIN (60, 25 YRS)	70	YR25W70
SEC. 551-e	(3077)	MIN (60, 25 YRS)	62	YR25W70
SEC. 552	(3074)	MIN (62, 20 YRS)	62	YR20W62
SEC. 553	(3075)	MIN (62, 20 YRS)	62	OR20E62

Minras, Omegas and Retirement Assumptions

ERS – Tiers 3 and 4

Plan or Group		Minra	Assumed Omega	Retirement Assumption
REGULAR TIER 3 and 4	(5205,5204,5206,5404,5405,5406)	MAX(55,5YRS)	70	T34E55
RGD75	(5303,5402,5403)	MAX(55,5YRS)	70	T34E55
PEACE OFF	(5505,5314,5605,5604,5415,5416)	MAX(55,5YRS)	70	T34E55
STATE CORR OFF	(5304,5305)	MIN(60,25YRS)	70	YR25W70
89e	(5704,5705)	MIN(60,25YRS)	70	YR25W70
89-sa	(5707,5706)	MIN(60,25YRS)	70	YR25W70
DEATH BENEFIT 0	(5496,5495)	MIN(60,25YRS)	70	YR25W70
DEATH BENEFIT 1	(5497,5472)	MAX(55,5YRS)	70	T34E55
DEATH BENEFIT 2	(5498,5490)	MAX(55,5YRS)	70	T34E55
SICK LEAVE	(5096,5098,5097,5099)	MAX(55,5YRS)	70	T34E55
PEND STATE RET	(5040,5041,5060,5061)	N/A	N/A	T34E55
PEND NON-STATE RET	(5050,5051,5065,5066)	N/A	N/A	T34E55
PEND ACC DISABILITY	(5042,5062)	N/A	N/A	T34E55
PEND ORD DISABILITY	(5043,5063)	N/A	N/A	T34E55
INACTIVE VESTED	(5027,5029,5037,5039)	MAX(55,5YRS)	N/A	T34E55
TEACHERS	(5100,5101)	MAX(55,5YRS)	70	T34E55
COMMUNITY COLLEGES	(5102,5103)	MAX(55,5YRS)	70	T34E55
SEC. 551	(5308,5409,5413)	MIN(60,25YRS)	70	YR25W70
SEC. 551-e	(5309,5410,5414)	MIN(60,25YRS)	62	YR25W70
SEC. 552	(5306,5409,5413)	MIN62,20YRS)	62	YR20W62
SEC. 553	(5307,5407,5411)	MIN62,20YRS)	62	YR20W62
604-PR	(5418,5420)	MIN62,20YRS)	62	YR20W62

ERS**Service Retirement Benefit Formulas
Special Groups****Unified Court Peace Officers**

75-h benefits or tier 3 and 4 regular benefits

80-a Legislators (Tier 1 or 2 only)

1/40 * FAS * Yrs, Maximum .75 * FAS (can retire at 20 yrs of service)

89 (State Correction Officers & Security Hospital Treatment Assistants (SHTA's)

- Tier 1: 1/50 * FAS * Yrs if Yrs < 25 and age ≥ 60
.5 * FAS + 1/60 FAS * (Yrs - 25) if Yrs ≥ 25
- Tier 2: Same as Tier 1
- Tier 3: (1) .5 * FAS if Yrs ≥ 25
1/50 * FAS * Yrs if Yrs < 25 and age = 70
(2) 1/60 * FAS * Yrs * T3 reductions if Yrs < 20
1/50 * FAS * Minimum (30, Yrs) * T3 reduction, if Yrs ≥ 20
Defer the above benefit (2) to age 65 to eliminate the reductions
and to receive a 3% annually escalated benefit.

89-a (Sheriffs)

- Tier 1: .5 * FAS if Yrs ≥ 25 and age ≥ 50
1/50 * FAS * Yrs < 25 and age = 65
Assume reversion to 75-i if age ≥ 55 and benefit is greater
- Tier 2: Same as Tier 1 except: (a) retirement cannot occur before age 55;
and (b) age reductions also apply prior to age 62 if Yrs < 30.

89-e, . . . (Non-State Correction Officers & Sheriffs)

- Tier 1 & 2: 75-i regular plan benefits or .5 * FAS if years ≥ 25 and benefit is greater
Tier 3 & 4: Tier 4 regular plan benefits, or .5 * FAS if years ≥ 25 and benefit is greater

89-b (Sheriffs) **

- Tier 1: .5 * FAS if Yrs ≥ 20
1/40 * FAS * Yrs if Yrs < 20 and age = 60
Assume reversion to 75-i if age ≥ 55 and benefit is greater (no reversion to 75-g)
- Tier 2: Same as Tier 1 except retirement cannot occur before age 55 and 89-b reductions
apply if retirement before age 60 and Yrs < 30. 75-i benefits use the 75-i
reductions below age 62 if yrs < 30.

89-b Reductions: .5% per month that retirement precedes age 60

89-b(m) (Sheriffs) **

- Tier 1: .5 * FAS + 1/60 * (Yrs - 20) * FAS, Maximum of 2/3 * FAS if Yrs ≥ 20
1/40 * FAS * Yrs if Yrs < 20 and age = 60
Assume reversion to 75-i or 75-g if age ≥ 55 and benefit is greater
- Tier 2: Same as Tier 1 except: (a) retirement cannot occur before age 55;
(b) 89-b reductions apply if retirement before age 60 and Yrs. < 30. 75-i benefits
use 75-i reductions below age 62 if Yrs < 30

89-d (Various Investigators) **

- Tier 1: Same as 89-b (Sheriffs) except omega = 62.
Tier 2: Same as Tier 1 except the 75-i reversion uses the 75-i reductions below age 62 if
Yrs < 30.

ERS**Service Retirement Benefit Formulas
Special Groups (Cont'd)****89-d(m) (Various Investigators) ****

Tier 1: Same as 89-b(m) except omega = 62.

Tier 2: Same as Tier 1 except 75-i benefits use 75-i reductions below age 62 if Yrs < 30.

89-sa, 89-sp (Nassau County Ambulance Medical Technicians and Peace Officers) **Tier 1: $.5 * \text{FAS} + 1/60 (\text{YRS} - 25) * \text{FAS}$, maximum $3/4 * \text{FAS}$, if YRS ≥ 25
Assume reversion to 75-i if age ≥ 55 and benefit is greater

Tier 2: Same as Tier 1 except the 75-i reversion includes service reductions if Yrs < 30.

Tier 4: Same as Tier 1 except the reversion is to Article 15 except no $1/60 (\text{Yrs} - 25) * \text{FAS}$ under 89-sp**551 (14-b Sheriffs 25 Year) ****Tier 1: $.5 * \text{FAS}$ if YRS 25
Assume reversion to 75-i if age ≥ 55 and benefit is greater

Tier 2: Same as Tier 1 except the 75-i reversion includes the service reductions if Yrs < 30.

Tier 3 & 4: Same as Tier 1 except reversion is to Article 15

551e (14-b Sheriffs 25 year with additional 60ths)Tier 1: $.5 * \text{FAS} + 1/60 (\text{IYRS} - 25) * \text{FAS}$ if YRS ≥ 25
Assume reversion to 75-i if age ≥ 55 and benefit is greater

Tier 2: Same as Tier 1 except the 75-i reversion includes service reductions if Yrs < 30.

Tier 3 & 4: Same as Tier 1 except the reversion is to Article 15

NOTE: IYRS = integer years of service

552 (14-b Sheriffs 20 year) **Tier 1: $.5 * \text{FAS}$ if YRS ≥ 20
Assume reversion to 75-i if age ≥ 55 and benefit is greater (no reversion to 75-g)

Tier 2: Same as Tier 1 except the 75-i reversion includes service reductions if Yrs < 30.

Tier 3 & 4: Same as Tier 1 except the reversion is to Article 15

553 (14-b Sheriffs 20 Years with additional 60th) **Tier 1: $.5 * \text{FAS} + 1/60 (\text{YRS}-20) * \text{FAS}$, Maximum of $.75 * \text{FAS}$ if YRS ≥ 20
Assume reversion to 75-i if age ≥ 55 and benefit is greater (no reversion to 75-g)

Tier 2: Same as Tier 1 except the 75-i reversion includes service reductions if Yrs < 30.

Tier 3 & 4: Same as Tier 1 except the reversion is to Article 15

604pr (Rockland County Investigators)Tier 4: $5 * \text{FAS} + 1/60 (\text{YRS}-20) * \text{FAS}$, Maximum of $.75 * \text{FAS}$ if YRS 20
Assume reversion to article 15 if age ≥ 55 and benefit is greater

** No Article 15 service unless reverted.

ERS

Vested Benefit Formulas

<u>Plans Covered</u>	<u>Benefit</u>
89 Tier 1 and Tier 2; 89-d and 89-d(m) Tier 1; and 89-b and 89-b(m) Tier 1; Sec. 552 and 553 Tier 1	$1/60 * FAS * Yrs$ if Yrs ≥ 5
89-b and 89-b(m) Tier 2; 89-d and 89-d(m) Tier 2; Sec. 552 and 553 Tier 2	$1/60 * FAS * Yrs * .73$ if Yrs ≥ 5
89-a Tier 1, 89-e Tier 1 Sec. 551 & 551-e Tier 1 89-sa,-sp Tier 1 & 2	$1/60 * FAS * Yrs$ if Yrs ≥ 5 and < 20 $1/50 * FAS * Yrs$ if Yrs ≥ 20
89-a Tier 2, 89-e Tier 2 Sec. 551 & 551-e Tier 2	$1/60 * FAS * Yrs * .73$ if Yrs ≥ 5 and < 20 $1/50 * FAS * Yrs * .73$ if Yrs ≥ 20
Sec. 552 and 553 Tier 3 & 4 604pr and 89-sa Tier 4	$1/60 * FAS * Yrs * Tier 4$ reductions if Yrs. ≥ 5
Sec. 551 and 551-e Tier 3 & 4	$1/50 * FAS * Yrs * Tier 4$ reductions if Yrs >20 , else same as above benefit
All Other Plans	Service Benefit Formula if Yrs ≥ 5

Age to Begin Receiving a vested benefit: 55.

For Tier 3 and 4 members with 5 to 9 years of service:

Greater of vested benefit or the refund of employee contributions

To be eligible for Article 19, must be active between 6/99 -10/00. We do not

Assume any extra service for vesteds.

Disability Benefit Formulas

Accidental

All Tier 1 & Tier 2 & Peace Officers (dis) all Tiers

.75 * FAS - .18 * FAS = .57 * FAS (.18 * FAS is the assumed average workers' compensation offset)

Tier 3 and 4 (except Peace Officers (dis) Tier 3 State Corrections & SHTAs - regular or special plan)

Maximum of: 1/60 * FAS * Yrs or 1/3 * FAS

Tier 3&4 State Correction & SHTA - regular or special; .75 * FAS - .18 * FAS

14-b Sheriff Plans (551, 551-e, 552 & 553)

Maximum of regular Tier benefit and .5 * FAS

NOTE: 14-b plans use P&F disability rates - special plans and SHTA disability in Tier 1 and 2 also use the P&F rates. Tier 3&4 State Correction Officer and SHTA (regular or special) use .5 of P&F rates.

Ordinary

Disability Requires 10 years of service.

Maximum of: { 1/60 * FAS * Yrs } { 1/3 * FAS }
Minimum of: { 1/60 * FAS * Projected Service to age 60 }

Tier 3 State Correction Officers and SHTA's
..... will receive a 3% annually escalated benefit.

IPOD All 14-b plans .5 * FAS
(in performance of duty)

ERS**Death Benefit Formulas** (con't)**Death Benefit 0****Tiers 2, 3, and 4**

Tier 2 3 * SAL

Tier 3 & 4 3 * SAL OR Maximum of: 3 * SAL and $1/12 * Yrs * Sal$ if entry year ≤ 1986

NOTE:

IYrs = integer years of service

Entry Year = Val Year - Current Service

Death Benefit 1**Tiers 2, 3, and 4**

The better of the following benefits or Death Benefit 2:

$1/12 * IYrs * SAL$, Maximum of 3 * SAL

Tier 2 If eligible to retire, without a reduction, compare with:
 $1/60 * Yrs * FAS$, apply the FAS restrictions and multiply by a 4% annuity.

Tier 3 & 4 If eligible to retire without a reduction, compare with:
 $1/60 * Yrs * FAS * 7\%$ annuity
 Also, if entry Year ≤ 1986 compare with:
 $1/12 * Yrs * SAL$, Maximum of 3 * SAL

ERS
Death Benefit Formulas (con't)

Death Benefit 2

*Active Death
Benefit*

SAL * Yrs (limited to 3) * Death Reductions

Tier 3 & 4

if entry Year \geq 1986 compare with:
 $1/12 * Yrs * SAL$, maximum of $3 * SAL$

Death Reductions:

1 if age $<$ 61

1 - .04 * (age - 60) if age \geq 61 & $<$ 70 and not 89-e

1 - .03 * (age - 60) if age \geq 61 & $<$ 70 and 89-e

.7 if age \geq 70 and 89-e

.6 if age \geq 70 and not 89-e

Post-Retirement**Death Benefit.. (Service, Ordinary Disability, and Accidental Disability)**

**Tiers 2, 3, and 4 for those
who have Death Benefit 1 or 2**

If death occurs within the first year after retirement—benefit is .50 of the Tier 2 active death benefit at retirement.

If death occurs in the second year after retirement—benefit is .25 of the Tier 2 active death benefit at retirement.

If death occurs after the second year in retirement— benefit is .1 of the Tier 2 active death benefit at age 60 or retirement, if earlier and if EA $<$ 60.

If EA \geq 60, the death benefit after the second year of retirement is 0.

EA = Entry Age

Active Ordinary

Death Benefit &... First \$50,000 is paid from group term life insurance; remainder is included in the valuation.

Post-Retirement**Death Benefit**

If a member has 10 years of service, terminates and dies prior to applying for a vested benefit, one-half of the ordinary death benefit is payable in addition to a refund of member contributions with 5% interest.

Other Benefit Formulas

Contributions

Tiers 3 and 4 Members

All Tier 3 and 4 members contribute 3% of their annual salary. These contributions end after 10 years of membership or the attainment of 10 years of service, whichever occurs first, but not before October, 2000.

Refunds

Tiers 3 and 4 Contributions

For termination in a non-vested status (less than 10 years or less than MINRA), contributions with 5% interest are refunded.

For termination in vested status and death prior to 55, contributions with 5% interest are refunded.

For ordinary deaths, contributions with 5% interest are refunded.

Sick Leave

Assumes 3 days are credited for each year of service, maximum of 165 days.

Tier 1 and 2: Assume 75-i formula with reversion to 75-g.

Tier 3 and 4: Assume Tier 4 regular member service formula.

Pending Retirements

Tier 1 and Tier 2: Assume 75-i benefits

Tier 3 and Tier 4: Assume Regular Tier 4 benefits

Inactive Members

(Vested Only)

Tier 1 and Tier 2 --- Assume 75-i benefits (no 75-g reversion) starting at 55 or current age, if greater

Tier 3 and Tier 4 --- Assume Regular Tier 4 benefits starting at age 55 current age, if greater. Refund contributions if death prior to 55.

COLA

Eligibility: Pensioners age 62 and retired 5 years
 Pensioners age 55 and retired 10 years
 Disability Pensioners retired 5 years
 Accidental Death beneficiaries receiving a benefit for 5 years

Benefit: 50% of the rate of inflation times the first \$18,000 of the single-life allowance.
 Maximum 3%. Minimum 1%

POLICE AND FIRE
RETIREMENT SYSTEM

FISCAL YEAR
BEGINNING 4/1/01
ACTUARIAL VALUATION

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INTEREST AND DISCOUNT FACTORS, AND ASSUMPTIONS
PFRS FYB 4/1/01

***** INTEREST AND DISCOUNT FACTORS *****

MONTHS	INTEREST FACTORS	DISCOUNT FACTORS
1	1.006434	0.993607
2.5	1.016163	0.984094
3.5	1.022701	0.977803
6	1.039230	0.962250
8.5	1.056027	0.946945
11	1.073096	0.931883

***** ASSUMPTIONS *****

THE VARIOUS MULTIPLE DECREMENT AND SALARY SCALE TABLES ARE THOSE ADOPTED AS A RESULT OF THE 2000 5-YEAR EXPERIENCE STUDY OF THE SYSTEMS.

INFLATION - BOTH THE INTEREST RATE AND THE SALARY SCALE ASSUMPTION REFLECT 3.0% INFLATION.

INTEREST RATE	8.0%
SALARY SCALE (1 year expected increase)	6.7%

ACTUARIAL PRESENT VALUE OF PLAN BENEFITS
PFRS FYB 4/1/01

PLAN	SERVICE	VESTING	ACCIDENTAL DISABILITY	COLA
TIER 1				
Contributory	\$83,963	\$511	\$2,769	\$7,414
375-c	1,503,309	34,866	30,196	85,421
375-e	0	0	0	0
375-g	1,830,565	33,340	25,184	50,236
375-h, i&j	47,348,401	829,752	674,364	978,871
384	6,197,371	0	119,598	189,944
384(f)	30,069,009	32,719	484,608	793,105
384-d	319,169,474	146,073	6,679,189	7,167,876
384-e	1,240,498,012	110,665	24,888,169	19,671,476
381-b	79,320,250	0	541,025	1,860,872
383-a,b&c	<u>15,419,292</u>	<u>17,389</u>	<u>353,264</u>	<u>375,166</u>
TIER 1 TOTALS	\$1,741,439,646	\$1,205,315	\$33,798,366	\$31,180,381
TIER 2				
Contributory	\$748,009	\$107,367	\$322,952	\$105,421
375-c&e	13,479,500	2,136,150	3,025,125	1,060,141
375-g	9,611,308	1,556,982	1,842,938	463,811
375-h, i&j	24,663,076	3,996,810	4,618,901	923,942
384	13,886,814	687,266	1,155,755	506,853
384(f)	40,518,065	2,083,188	3,122,837	1,102,876
384-d	1,912,466,613	28,625,536	137,643,842	44,131,779
384-e	3,972,486,621	51,894,990	269,137,594	59,451,634
381-b	1,107,257,188	9,744,787	43,496,130	19,637,278
383-a,b&c	<u>93,519,680</u>	<u>5,629,169</u>	<u>5,823,327</u>	<u>2,757,107</u>
TIER 2 TOTALS	\$7,188,636,874	\$106,462,245	\$470,189,401	\$130,140,842
GRAND TOTAL	\$8,930,076,520	\$107,667,560	\$503,987,767	\$161,321,223

ACTUARIAL PRESENT VALUE OF PLAN BENEFITS
PFRS FYB 4/1/01

PLAN	ORDINARY DISABILITY	IPOD DISABILITY	ACCIDENTAL DEATH	ORDINARY DEATH	TOTAL PLANS PVB
TIER 1					
Contributory	\$202	\$472	\$24	\$234	\$95,589
375-c	6,858	15,729	277	42,107	1,718,763
375-e	0	0	0	0	0
375-g	5,577	14,027	229	68,609	2,027,767
375-h,i&j	137,663	313,438	6,231	1,584,456	51,873,176
384	0	0	1,315	148,223	6,656,451
384(f)	8,155	26,535	4,636	553,513	31,972,280
384-d	47,923	200,278	67,200	6,480,095	339,958,108
384-e	31,002	114,800	252,749	30,714,397	1,316,281,270
381-b	0	0	6,507	201,453	81,930,107
383-a,b&c	<u>5,210</u>	<u>12,156</u>	<u>3,831</u>	<u>197,096</u>	<u>16,383,404</u>
TIER 1 TOTALS	\$242,590	\$697,435	\$342,999	\$39,990,183	\$1,848,896,915
TIER 2					
Contributory	\$78,047	\$241,963	\$7,647	87,432	\$1,698,838
375-c&e	759,130	2,264,340	74,411	1,214,996	24,013,793
375-g	493,438	1,436,558	43,341	932,611	16,380,987
375-h, i&j	1,208,822	3,531,661	111,065	2,422,842	41,477,119
384	198,823	647,382	25,967	449,981	17,558,841
384(f)	570,328	1,849,708	67,104	1,266,064	50,580,170
384-d	11,531,143	39,350,833	3,465,990	52,876,466	2,230,092,202
384-e	20,071,847	68,408,456	6,176,010	140,766,759	4,588,393,911
381-b	6,281,835	14,962,489	1,647,900	24,640,586	1,227,668,193
383-a,b&c	<u>2,167,944</u>	<u>5,131,342</u>	<u>166,539</u>	<u>3,199,023</u>	<u>118,394,131</u>
TIER 2 TOTALS	\$43,361,357	\$137,824,732	\$11,785,974	\$227,856,760	\$8,316,258,185
GRAND TOTAL	\$43,603,947	\$138,522,167	\$12,128,973	\$267,846,943	\$10,165,155,100

PLAN MEMBERS AND THEIR COMPENSATION
PFRS FYB 4/1/01

PLAN	MEMBERS	4/1/00-3/31/01 SALARY	PROJECTED COMPENSATION (4/1/01-3/31/02)	PRESENT VALUE PROJECTED COMPENSATION
TIER 1				
Contributory	4	\$34,444	\$21,628	\$82,023
375-c	11	362,831	287,010	953,407
375-e	0	0	0	0
375-g	7	315,442	227,498	798,940
375-h,i&j	111	8,235,625	5,963,707	21,305,784
384	21	1,084,153	835,692	3,825,893
384(f)	79	5,035,481	3,955,081	15,245,045
384-d	764	55,139,508	46,714,004	216,580,456
384-e	2,085	195,461,810	168,983,203	804,018,662
381-b	153	11,579,797	7,543,232	20,587,846
383-a,b&c	<u>43</u>	<u>2,667,505</u>	<u>2,307,536</u>	<u>11,422,810</u>
TIER 1 TOTALS	3,278	\$279,916,596	\$236,838,591	\$1,094,820,866
TIER 2				
Contributory	86	933,347	900,331	15,147,075
375-c&e	573	8,209,153	7,982,882	144,760,543
375-g	194	5,018,584	4,896,201	85,119,542
375-h, i&j	376	12,661,373	12,352,892	216,636,273
384	127	4,513,429	4,266,585	50,805,186
384(f)	217	11,968,152	11,492,611	132,065,278
384-d	9,640	539,778,307	519,162,890	6,421,731,894
384-e	13,037	973,206,202	939,456,712	11,886,612,156
381-b	4,088	251,412,124	243,041,757	2,945,521,064
383-a,b&c	<u>604</u>	<u>29,045,093</u>	<u>27,822,491</u>	<u>329,649,053</u>
TIER 2 TOTALS	28,942	\$1,836,745,764	\$1,771,375,352	\$22,228,048,064
 GRAND TOTAL	 32,220	 \$2,116,662,360	 \$2,008,213,943	 \$23,322,868,930

PRESENT VALUE OF INACTIVE,
PENDING RETIREMENT AND PENDING DEATH BENEFITS
PFRS FYB 4/1/01

	MEMBERS	LIABILITY	SALARY BASE
INACTIVES			
TIER 1	221	\$11,260,637	\$4,998,861
TIER 2	<u>2,482</u>	<u>21,546,598</u>	<u>38,500,362</u>
TOTAL	2,703	\$32,807,235	\$43,499,223
PENDING RETIREMENTS			
TIER 1			
SEC 384-d	96	\$43,625,170	\$6,397,030
SEC 384-e	256	189,054,258	24,222,300
SEC 381-b	66	34,327,254	4,691,749
ACC DISABILITY	1	797,852	97,374
ORD DISABILITY	0	0	0
IPOD DISABILITY	<u>2</u>	<u>692,429</u>	<u>120,503</u>
SUB TOTAL	421	\$268,496,963	\$35,528,956
TIER 2			
SEC 384-d	85	\$32,725,929	\$5,732,501
SEC 384-e	69	34,367,218	5,504,360
SEC 381-b	65	28,977,627	4,475,341
ACC DISABILITY	10	4,253,474	625,251
ORD DISABILITY	2	509,051	112,250
IPOD DISABILITY	<u>15</u>	<u>5,720,497</u>	<u>935,751</u>
SUB TOTAL	246	\$106,553,796	\$17,385,454
TOTAL	667	\$375,050,759	\$52,914,410
PENDING DEATHS (EXCESS OF \$50,000) - INCLUDED IN MISC. LIABILITIES PAYABLE			
TIER 1	7	\$5,109,355	\$599,521
TIER 2	<u>9</u>	<u>2,077,396</u>	<u>623,530</u>
TOTAL	16	\$7,186,751	\$1,223,051

LATE START RATES, PRESENT VALUE OF LATE START CONTRIBUTIONS
AND ONE-YEAR-FAS AND SICK LEAVE LIABILITIES
PFRS FYB 4/1/01

***** LATE START RATES AND P. V. OF LATE START CHARGES *****

PV LATE START CHARGE = LATE START RATE * PV PROJ. COMP. * 3.5 MO INT

PLAN	LATE START RATE	PV PROJECTED COMPENSATION	PV LATE START CHARGES
TIER 1 384-e			
1990 ELECTIONS	0.054	796,981	\$44,014
1991 ELECTIONS	0.082	526,165,882	44,125,051
1992 ELECTIONS	0.093	114,309,108	10,872,076
1993 ELECTIONS	0.119	14,020,979	1,706,373
1994 ELECTIONS	0.089	96,504,501	8,783,877
1995 ELECTIONS	0.127	21,632,686	2,809,719
1996 ELECTIONS	0.141	1,890,093	272,553
1997 ELECTIONS	0.121	432,992	53,581
1998 ELECTIONS	0.136	9,365,361	1,302,603
TIER 1 383-b	0.001	<u>4,614,177</u>	<u>4,719</u>
SUBTOTAL TIER 1		\$789,732,759	\$69,974,566
TIER 2 384-e			
1990-1993 ELECTIONS	0.014	8,648,373,718	123,825,806
1994 ELECTIONS	0.030	1,894,941,826	58,138,767
1995 ELECTIONS	0.030	472,849,154	14,507,499
1996 ELECTIONS	0.021	54,136,175	1,162,668
1997 ELECTIONS	0.022	25,040,335	563,393
1998 ELECTIONS	0.024	<u>151,423,323</u>	<u>3,716,659</u>
SUBTOTAL TIER 2		\$11,246,764,530	\$201,914,792
GRAND TOTAL			\$271,889,358

***** ONE YEAR FAS LIABILITY *****		
	TIER 1 LIABILITY	TIER 2 LIABILITY
55 YEAR PLANS	\$2,521,931	\$85,013
384	351,549	144,412
384(f)	2,312,951	83,862
384-d	26,613,870	4,027,099
384-e	<u>119,628,306</u>	<u>48,278,630</u>
SUBTOTAL	\$151,428,607	\$52,619,016
GRAND TOTAL	\$204,047,623	

***** SICK LEAVE LIABILITY *****		
	LIABILITY	PV SALARIES
TIER 1	1,311,274	47,549,641
TIER 2	<u>9,017,692</u>	<u>3,648,656,803</u>
TOTAL	\$10,328,966	\$3,696,206,444

7
 FIVE YEAR MOVING AVERAGE VALUE OF INVESTMENTS
 PFRS FYB 4/1/01

FISCAL YEAR ENDED	MARKET VALUE	PURCHASES	SALES
3/31/97	50,944,541,000		
3/31/98	69,416,275,000	19,106,210,000	19,958,024,000
3/31/99	72,649,451,000	23,861,347,000	26,687,298,000
3/31/00	91,847,934,000	31,455,841,000	30,507,216,000
3/31/01	76,613,252,533	26,302,218,082	24,710,884,000

AVERAGE MARKET VALUE OF INVESTMENTS FOR PFRS ONLY =

$$\text{PFRS MV}_{01} - .8 * \text{PRS UG}_{01} - .6 * \text{PRS UG}_{00} - .4 * \text{PRS UG}_{99} - .2 * \text{PRS UG}_{98} = 12,986,136,945$$

WHERE PFRS MV = TOTAL MARKET VALUE * 2001 % OF INVESTMENTS FOR PFRS
 01

$$= 11,899,034,091$$

UG = (AG - EG) * % OF INVESTMENTS FOR PFRS,
 T T T

AG = ACTUAL GAIN = MV - MV - (PURCHASES - SALES) AND
 T T T-1 T T

EG = EXPECTED GAIN, ASSUMING A 7% INCREASE IN MARKET VALUE,
 OMITTING ANY DIVIDEND PAYMENTS

$$= .07 * \text{MV}_{T-1} - (\text{SALES}_T - \text{PURCHASES}_T) * (1.07^{-1})^{1/2}$$

	% OF INVESTMENTS	AG	EG	UG
3/31/98	15.7244	19,323,548,000	3,536,808,617	2,482,370,048
3/31/99	15.6966	6,059,127,000	4,761,903,806	203,619,936
3/31/00	15.6271	18,249,858,000	5,118,101,900	2,052,112,658
3/31/01	15.5313	-16,826,015,549	6,484,110,072	-3,620,365,541

THIS PFRS ACTUARIAL MARKET VALUE OF INVESTMENTS IS FURTHER CONSTRAINED TO BE WITHIN + OR - 20% OF THE 2001 PFRS MARKET VALUE OF INVESTMENTS.

80% OF 2001 PFRS MARKET VALUE = \$9,519,227,273

120% OF 2001 PFRS MARKET VALUE = \$14,278,840,909

PFRS ACTUARIAL VALUE OF INVESTMENTS, CONSTRAINED TO BE WITHIN + OR - 20% OF 2001 PFRS MARKET VALUE, IS \$12,986,136,945 .

PFRS ACTUARIAL VALUE OF INVESTMENTS	12,986,136,945
- PFRS MARKET VALUE OF INVESTMENTS	- 11,899,034,091
= SMOOTHING ADJUSTMENT	1,087,102,854

PFRS PENSION ACCUMULATION FUND	11,232,783,839
+ SMOOTHING ADJUSTMENT	1,087,102,854
= PFRS PENSION ACCUMULATION FUND FOR VALUATION BALANCE SHEET	\$12,319,886,693

PENSIONERS AND BENEFICIARIES
PFRS FYB 4/1/01

ANNUAL ALLOWANCE

	<u>NUMBER</u>	<u>ANNUITY</u>	<u>PENSION</u>	<u>ORDINARY DEATH BENEFIT</u>
<u>SERVICE BENEFITS</u>				
PENSIONERS	19,149	2,559,403	474,878,280	
BENEFICIARIES	<u>855</u>	<u>209,315</u>	<u>8,061,585</u>	
SUB TOTAL	20,004	2,768,718	482,939,865	
<u>DISABILITY BENEFITS</u>				
PENSIONERS	4,529	172,641	119,853,170	
BENEFICIARIES	<u>170</u>	<u>21,001</u>	<u>1,231,256</u>	
SUB TOTAL	4,699	193,642	121,084,426	
ACCIDENTAL DEATH BENEFICIARIES	137		1,333,056	
DESIGNATED ANNUITANTS	91			761,181
GRAND TOTAL	24,931	2,962,360	605,357,347	761,181

RESERVES

	<u>COLA</u>	<u>ANNUITY</u>	<u>PENSION</u>	<u>RESERVE FUND</u>
<u>SERVICE BENEFITS</u>				
PENSIONERS	\$839,456,744	\$17,715,008	\$4,656,646,332	
BENEFICIARIES	<u>22,098,460</u>	<u>1,402,919</u>	<u>68,561,885</u>	
SUB TOTAL	861,555,204	19,117,927	4,725,208,217	
<u>DISABILITY BENEFITS</u>				
PENSIONERS	257,837,917	1,296,586	1,255,767,329	
BENEFICIARIES	<u>5,147,438</u>	<u>146,427</u>	<u>11,743,054</u>	
SUB TOTAL	262,985,355	1,443,013	1,267,510,383	
ACCIDENTAL DEATH BENEFICIARIES	0	0	14,109,487	
DESIGNATED ANNUITANTS	0	0	0	7,225,049
SUB TOTAL	1,124,540,559	20,560,940	6,006,828,087	7,225,049
POST RETIREMENT DEATH BENEFIT			2	
GRAND TOTAL	\$1,124,540,559	\$20,560,940	\$6,006,828,089	\$7,225,049

***** ACTUARIAL BALANCE SHEET *****

ACTUARIAL PRESENT VALUE OF BENEFITS
PFRS FYB 4/1/01

PENSIONERS AND BENEFICIARIES

ANNUITY RESERVE FUND	\$20,560,940	
PENSION RESERVE FUND	6,006,828,089	
SPECIAL RESERVE FOR D. A.	7,225,049	
COLA	1,124,540,559	
SPECIAL ACC DTH BENEFITS-SEC 361-a	36,128,800	
TOTAL P.V. OF PENSIONER BENEFITS		\$7,195,283,437

ACTIVE MEMBERS

ANNUITY SAVINGS FUND	\$10,722,571	
BENEFITS:		
MEMBER SERVICE BENEFITS	\$8,930,076,520	
VESTING BENEFITS	107,667,560	
ACCIDENTAL DISABILITY BENEFITS	503,987,767	
ORDINARY DISABILITY BENEFITS	43,603,947	
IPOD DISABILITY BENEFITS	138,522,167	
ACCIDENTAL DEATH BENEFITS	12,128,973	
DEATH BENEFITS OVER \$50,000	267,846,943	
SICK LEAVE	10,328,966	
ONE YEAR FAS BENEFITS	204,047,623	
PENDING RETIREMENTS	375,050,759	
INACTIVES	32,807,235	
COLA - ACTIVE BILLABLES	161,321,223	
RESTORATIONS	998,808	
PENDING TRANSFER-IN RESERVES	15,550,000	
MILITARY BILL	40,000,000	
TOTAL PV BENEFITS FOR ACTIVE MEMBERS		\$10,854,661,062

MISCELLANEOUS (ALL OTHER FUNDS)

LIABILITIES PAYABLE	43,188,112	
LOAN INSURANCE RESERVE	98,339	
TOTAL MISCELLANEOUS LIABILITY		\$43,286,451

TOTAL ACTUARIAL PRESENT VALUE OF BENEFITS		\$18,093,230,950
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***** ACTUARIAL BALANCE SHEET *****

ACTUARIAL PRESENT VALUE OF ASSETS
PFRS FYB 4/1/01

PRESENT ASSETS OF SYSTEM *

ANNUITY SAVINGS FUND		10,722,571
ANNUITY RESERVE FUND		20,560,940
PENSION RESERVE FUND		6,006,828,089
SPECIAL RESERVE FOR DESIGNATED ANNUITANTS		7,225,049
PENSION ACCUMULATION FUND		12,319,886,693
ALL OTHER FUNDS		
LIABILITIES PAYABLE	43,188,112	
LOAN INSURANCE RESERVE	98,339	
TOTAL OTHER FUNDS		\$43,286,451
TOTAL PRESENT VALUATION ASSETS		\$18,408,509,793

ACTUARIAL PRESENT VALUE OF PROSPECTIVE CONTRIBUTIONS
PAYABLE BY EMPLOYERS TO PENSION ACCUMULATION FUND

NORMAL CONTRIBUTIONS	(587,168,201)	
LATE START CONTRIBUTIONS	271,889,358	
TOTAL PROSPECTIVE CONTRIBUTIONS		(315,278,843)
TOTAL ACTUARIAL PRESENT VALUE OF ASSETS		\$18,093,230,950

* SEE PAGE 30

CALCULATION OF INDICES
PFRS FYB 4/1/01

$$\text{PLAN NEW ENTRANT RATE} = \frac{\text{PLAN PV BENEFITS} * 3.5 \text{ MO. DISCOUNT}}{\text{PLAN PV COMPENSATION}}$$

$$\text{PLAN INDEX} = \frac{\text{PLAN NEW ENTRANT RATE}}{\text{TIER 1 CONTRIBUTORY NEW ENTRANT RATE}}$$

PLAN	BENEFITS	PRESENT VALUE OF COMPENSATION	NEW ENTRANT RATE	INDEX
TIER 1				
Contributory	75,335,099	800,808,752	0.091986	1.000000
375-c & e	117,943,856	800,808,752	0.144012	1.565586
375-g	128,871,973	800,808,752	0.157355	1.710641
375-h, i&j	133,150,520	800,808,752	0.162579	1.767432
384	132,147,978	802,821,084	0.160951	1.749734
384(f)	134,669,498	800,109,828	0.164578	1.789164
384-d	143,523,394	762,117,244	0.184142	2.001848
384-e	154,964,658	794,619,509	0.190689	2.073022
381-b	151,825,541	745,752,716	0.199068	2.164112
383-a,b&c	134,795,748	802,821,084	0.164176	1.784793
Sick Leave	878,832	745,752,716	0.001152	0.012524
TIER 2				
Contributory	70,014,728	859,005,652	0.079698	0.866414
375-c & e	102,566,865	859,005,652	0.116751	1.269226
375-g	112,325,115	859,005,652	0.127859	1.389983
375-h, i&j	115,030,050	859,005,652	0.130938	1.423456
384	123,271,264	802,821,084	0.150139	1.632194
384(f)	130,787,840	800,109,828	0.159834	1.737591
384-d	135,808,321	762,117,244	0.174243	1.894234
384-e	150,612,547	794,619,509	0.185333	2.014796
381-b	151,008,941	745,752,716	0.197997	2.152469
383-a,b&c	127,966,857	802,821,084	0.155858	1.694367
Sick Leave	621,184	745,752,716	0.000814	0.008849
One Year FAS				
55 Yr. Plans	12,357,063	859,005,652	0.014066	0.152915
384	13,148,987	802,821,084	0.016015	0.174103
384,f	13,971,858	800,109,828	0.017075	0.185626
384-d	14,558,774	762,117,244	0.018679	0.203064
384-e	16,206,671	794,619,509	0.019943	0.216805

INDEXED PRESENT VALUE PROJECTED FYE 3/31/02 COMPENSATION
PFRS FYB 4/1/01

PLAN	P.V. PROJECTED 2001 COMPENSATION	INDEX	INDEXED PV PROJ COMPENSATION
TIER 1			
Contributory	\$82,023	1.000000	\$82,023
375-c	953,407	1.565586	1,492,641
375-e	0	1.565586	0
375-g	798,940	1.710641	1,366,700
375-h, i&j	21,305,784	1.767432	37,656,524
384	3,825,893	1.749734	6,694,295
384(f)	15,245,045	1.789164	27,275,886
384-d	216,580,456	2.001848	433,561,153
384-e	804,018,662	2.073022	1,666,748,375
381-b	20,587,846	2.164112	44,554,405
383-a,b&c	11,422,810	1.784793	20,387,351
Sick Leave	<u>47,549,641</u>	0.012524	<u>595,512</u>
TIER 1 TOTAL	\$1,094,820,866 *		\$2,240,414,865
TIER 2			
Contributory	\$15,147,075	0.866414	\$13,123,638
375-c&e	144,760,543	1.269226	183,733,845
375-g	85,119,542	1.389983	118,314,716
375-h & i	216,636,273	1.423456	308,372,203
384	50,805,186	1.632194	82,923,920
384(f)	132,065,278	1.737591	229,475,438
384-d	6,421,731,894	1.894234	12,164,262,892
384-e	11,886,612,156	2.014796	23,949,098,625
381-b	2,945,521,064	2.152469	6,340,142,779
383-a,b&c	329,649,053	1.694367	558,546,477
Sick Leave	3,648,656,803	0.008849	32,286,964
1 YR Fas - 55 yr plan	2,591,215	0.152915	396,236
1 YR Fas - 384	2,687,725	0.174103	467,941
1 YR Fas - 384 1/60	753,295	0.185626	139,831
1 YR Fas - 384D	88,375,663	0.203064	17,945,916
1 YR Fas - 384E	1,180,766,992	0.216805	<u>255,996,188</u>
TIER 2 TOTAL	\$22,228,048,064 *		\$44,255,227,609

* DOES NOT INCLUDE SICK LEAVE OR 1 YR FAS.

INDEXED PROJECTED FYE 3/31/02 COMPENSATION *
PFRS FYB 4/1/01

PLAN	PROJECTED 2001 COMPENSATION	INDEX	INDEXED PROJECTED COMPENSATION
TIER 1			
Contributory	21,628	1.000000	\$21,628
375-c	287,010	1.565586	449,339
375-e	0	1.565586	0
375-g	227,498	1.710641	389,167
375-h, i&j	5,963,707	1.767432	10,540,447
384	835,692	1.749734	1,462,239
384(f)	3,955,081	1.789164	7,076,289
384-d	46,714,004	2.001848	93,514,335
384-e	168,983,203	2.073022	350,305,897
381-b	7,543,232	2.164112	16,324,399
383-a,b&c	2,307,536	1.784793	4,118,474
Sick Leave	<u>15,660,469</u>	0.012524	<u>196,132</u>
TIER 1 TOTAL	\$236,838,591 **		\$484,398,346
TIER 2			
Contributory	900,331	0.866414	780,059
375-c&e	7,982,882	1.269226	10,132,081
375-g	4,896,201	1.389983	6,805,636
375-h, i&j	12,352,892	1.423456	17,583,798
384	4,266,585	1.632194	6,963,894
384(f)	11,492,611	1.737591	19,969,457
384-d	519,162,890	1.894234	983,415,998
384-e	939,456,712	2.014796	1,892,813,626
381-b	243,041,757	2.152469	523,139,848
383-a,b&c	27,822,491	1.694367	47,141,511
Sick Leave	91,785,280	0.008849	812,208
1 YR Fas - 55 yr plan	34,996	0.152915	5,351
1 YR Fas - 384	80,624	0.174103	14,037
1 YR Fas - 384D	1,321,846	0.203064	268,419
1 YR Fas - 384E	<u>70,375,449</u>	0.216805	<u>15,257,749</u>
TIER 2 TOTAL	\$1,771,375,352 **		\$3,525,103,672

* PROJECTED COMPENSATION EQUALS THE COMPENSATION FOR 3/31/02
ATTRIBUTABLE TO THE MEMBERS ON ROLL AS OF 3/31/01.

** DOES NOT INCLUDE SICK LEAVE OR 1 YR FAS.

BASIC PLAN'S NORMAL RATE
PFRS FYB 4/1/01

	INDEXED P.V. PROJ. COMP.
TIER 1	\$2,240,414,865
TIER 2	<u>44,255,227,609</u>
TOTAL	\$46,495,642,474
P. V. FUTURE NORMAL CONTRIBUTIONS	(587,168,201)

$$\begin{aligned}
 & \text{BASIC PLAN'S NORMAL RATE} \\
 & \text{P.V.FUTURE NORMAL CONTRIBUTIONS (3.5 MO. DISCOUNT)} \\
 \text{BASIC RATE} = & \frac{\text{-----}}{\text{INDEXED PRESENT VALUE PROJECTED COMPENSATION}} \\
 & \\
 = & \frac{(587,168,201) * \quad \quad \quad 0.977803}{\text{-----}} \\
 & \quad \quad \quad \$46,495,642,474 \\
 = & \quad \quad \quad -0.012348
 \end{aligned}$$

NORMAL RATES
PFRS FYB 4/1/01

PLAN	BASIC RATE (1)	INDEX (2)	REGULAR NORMAL RATE (1) * (2) = (3)	LATE START RATE (4)	BILLING * NORMAL RATE (3) + (4)
TIER 1					
Contributory	-0.012348	1.000000	-0.012348		0.000000
375-c	-0.012348	1.565586	-0.019332		0.000000
375-e	-0.012348	1.565586	-0.019332		0.000000
375-g	-0.012348	1.710641	-0.021123		0.000000
375-h,i&j	-0.012348	1.767432	-0.021824		0.000000
384	-0.012348	1.749734	-0.021606		0.000000
384(f)	-0.012348	1.789164	-0.022093		0.000000
384-d	-0.012348	2.001848	-0.024719		0.000000
384-e	-0.012348	2.073022	-0.025598		0.000000
1990 ELECTIONS			-0.025598	0.054	0.054000
1991 ELECTIONS			-0.025598	0.082	0.082000
1992 ELECTIONS			-0.025598	0.093	0.093000
1993 ELECTIONS			-0.025598	0.119	0.119000
1994 ELECTIONS			-0.025598	0.089	0.089000
1995 ELECTIONS			-0.025598	0.127	0.127000
1996 ELECTIONS			-0.025598	0.141	0.141000
1997 ELECTIONS			-0.025598	0.121	0.121000
1998 ELECTIONS			-0.025598	0.136	0.136000
1999 ELECTIONS			-0.025598		0.000000
381-b	-0.012348	2.164112	-0.026722		0.000000
383-a	-0.012348	1.784793	-0.022039		0.000000
383-b			-0.022039	0.001	0.001000
383-c			-0.022039		0.000000
Sick Leave	-0.012348	0.012524	-0.000155		0.000000
TIER 2					
Contributory	-0.012348	0.866414	-0.010698		0.000000
375-c & e	-0.012348	1.269226	-0.015672		0.000000
375-g	-0.012348	1.389983	-0.017164		0.000000
375-h, i&j	-0.012348	1.423456	-0.017577		0.000000
384	-0.012348	1.632194	-0.020154		0.000000
384(f)	-0.012348	1.737591	-0.021456		0.000000
384-d	-0.012348	1.894234	-0.023390		0.000000
384-e	-0.012348	2.014796	-0.024879		0.000000
1990-1993 ELECTIONS			-0.024879	0.014 1.5	0.014000
1994 ELECTIONS			-0.024879	0.030 2.1	0.030000
1995 ELECTIONS			-0.024879	0.030 2.8	0.030000
1996 ELECTIONS			-0.024879	0.021 1.9	0.021000
1997 ELECTIONS			-0.024879	0.022 1.9	0.022000
1998 ELECTIONS			-0.024879	0.024 2.2	0.024000
1999 ELECTIONS			-0.024879		0.000000
381-b	-0.012348	2.152469	-0.026579		0.000000
383-a,b&c	-0.012348	1.694367	-0.020922		0.000000
Sick Leave	-0.012348	0.008849	-0.000109		0.000000
One-year-fas					
Age 55 plans	-0.012348	0.152915	-0.001888		0.000000
25 year plans	-0.012348	0.174103	-0.002150		0.000000
25 year w/ 1/60 plans	-0.012348	0.185626	-0.002292		0.000000
20 year plans	-0.012348	0.203064	-0.002507		0.000000
20 year w/ 1/60 plans	-0.012348	0.216805	-0.002677		0.000000

* BILLING NORMAL RATES CAN NOT BE LESS THAN ZERO, NOR CAN THEY BE LESS THAN THE LATE START RATE.

CALCULATION OF NORMAL RATES (CONTINUED)
PFRS FYB 4/1/01

RATES FOR PLANS NOT INDEPENDENTLY VALUED

PLAN	NON-CONTRIB RATE	RATIO	REGULAR NORMAL RATE	BILLING NORMAL RATE
TIER 1				
384 1/2	-0.021606 *	0.603145 =	-0.013032	0.000000
384 3/4	-0.021606 *	0.736658 =	-0.015916	0.000000
384 4/4	-0.021606 *	0.870171 =	-0.018801	0.000000
384-d 1/2	-0.024719 *	0.562781 =	-0.013911	0.000000
384-d 4/4	-0.024719 *	0.811937 =	-0.020070	0.000000
TIER 2				
384 1/2	-0.020154 *	0.610620 =	-0.012306	0.000000
384 3/4	-0.020154 *	0.745790 =	-0.015031	0.000000
384 4/4	-0.020154 *	0.880960 =	-0.017755	0.000000
384-d 1/2	-0.023390 *	0.583308 =	-0.013644	0.000000
384-d 4/4	-0.023390 *	0.841556 =	-0.019684	0.000000

ADMINISTRATIVE AND GROUP LIFE INSURANCE RATES
PFRS FYB 4/1/01

***** ADMINISTRATIVE RATE *****

ADMINISTRATIVE EXPENSES FOR 4/1/01-3/31/02 = \$8,550,787
(THE ADMINISTRATIVE EXPENSES FOR 4/1/01-3/31/02
ARE ASSUMED TO BE THE SAME AS THOSE FOR
4/1/00-3/31/01)

$$\text{ADMINISTRATIVE RATE} = \frac{\text{ADMINISTRATIVE EXPENSES}}{\text{ESTIMATED BILLING SALARY}} =$$

$$\frac{8,550,787}{2,193,131,504} = 0.003899 = 0.4 \%$$

ESTIMATED BILLING SALARY IS ESTIMATED SALARY USED IN THE 12/15/01 NON-STATE BILLING AND THE 9/1/01 STATE BILLING.

WE ALWAYS ROUND THE RATE TO THE NEXT HIGHEST TENTH OF A PERCENT SINCE THE ADMINISTRATIVE EXPENSE MUST BE PAID. HOWEVER, LEGISLATION WAS ENACTED ALLOWING THE ADMINISTRATIVE EXPENSES TO BE PAID FROM THE PENSION ACCUMULATION FUND IF SUCH PAYMENT WOULD NOT EFFECT THE NORMAL CONTRIBUTIONS FOR THE YEAR. THEREFORE, THE ADMINISTRATIVE RATE WILL NOT BE CHARGED FOR THE FISCAL YEAR ENDING 2002.

***** GROUP LIFE INSURANCE RATES *****

5.00 PROJECTED LOSS RATIO

$$\text{GROUP LIFE RATE} = \frac{\text{GROUP LIFE LIABILITY} * 3.5 \text{ MO DISCOUNT FACTOR}}{\text{PROJECTED COMPENSATION} * \text{PROJECTED LOSS RATIO}}$$

	LIABILITY	PROJECTED COMPENSATION	UNROUNDED RATE	BILLING RATE
TIER 1				
A. AGE 55 PLANS	49,765	6,499,843	0.001497	0.1 %
B. 25 YEAR PLANS	18,043	4,790,773	0.000737	0.1 %
C. 381-b STATE POLICE	17,798	7,543,232	0.000461	0.1 %
D. 20 YEAR PLANS	385,885	215,697,207	0.000350	0.1 %
E. 383-a,b&c ENCON/PARK POLICE & FOREST RANGERS	5,185	2,307,536	0.000439	0.1 %
TIER 2				
A. REGULAR PLANS	40,037	26,132,306	0.000300	0.1 %
B. SPECIAL PLANS	1,103,054	1,745,243,046	0.000124	0.1 %

PFRS TIER 1 FINAL RATES
(as a percent)
FYB 4/1/01

RETIREMENT PLAN	NORMAL RATE	ADMN RATE	GROUP LIFE RATE	SICK LEAVE RATE	TOTAL FINAL RATE
CONTRIBUTORY	0.0	0.0	0.1		0.1
SEC 375-c	0.0	0.0	0.1		0.1
SEC 375-e	0.0	0.0	0.1		0.1
SEC 375-g	0.0	0.0	0.1		0.1
SEC 375-h	0.0	0.0	0.1	0.0	0.1
SEC 375-i	0.0	0.0	0.1		0.1
SEC 375-j	0.0	0.0	0.1		0.1
25 YR CONT (384 1/2)	0.0	0.0	0.1		0.1
25 YR CONT (384 3/4)	0.0	0.0	0.1		0.1
25 YR CONT (384 4/4)	0.0	0.0	0.1		0.1
25 YR (384 NON-CONTRIBUTORY)	0.0	0.0	0.1		0.1
25 YR ADDL 1/60 (384(f)) 20 YR CONT (384	0.0	0.0	0.1		0.1
20 YR CONT (384-d 1/2)	0.0	0.0	0.1		0.1
20 YR CONT (384-d 4/4)	0.0	0.0	0.1		0.1
20 YR (384-d NON-CONTRIBUTORY)	0.0	0.0	0.1		0.1
20 YR ADDL 1/60 (384-e)					
1990 ELECTIONS	5.4	0.0	0.1		5.5
1991 ELECTIONS	8.2	0.0	0.1		8.3
1992 ELECTIONS	9.3	0.0	0.1		9.4
1993 ELECTIONS	11.9	0.0	0.1		12.0
1994 ELECTIONS	8.9	0.0	0.1		9.0
1995 ELECTIONS	12.7	0.0	0.1		12.8
1996 ELECTIONS	14.1	0.0	0.1		14.2
1997 ELECTIONS	12.1	0.0	0.1		12.2
1998 ELECTIONS	13.6	0.0	0.1		13.7
1999 & LATER ELECTIONS	0.0	0.0	0.1		0.1
381-b STATE POLICE	0.0	0.0	0.1	0.0	0.1
383-a PARK POLICE	0.0	0.0	0.1	0.0	0.1
383-b ENCON POLICE	0.1	0.0	0.1	0.0	0.2
383-c FOREST RANGERS	0.0	0.0	0.1	0.0	0.1

OPTIONS - ADDITIONAL RATES (NON-STATE ONLY)

OPTION	RATES
SICK LEAVE	0.0
5% ITHP	0.0
8% ITHP	0.0
ONE YEAR FAS	0.0

PFRS TIER 2 FINAL RATES

(as a percent)

FYB 4/1/01

RETIREMENT PLAN	NORMAL RATE	ADMN RATE	GROUP LIFE RATE	SICK LEAVE RATE	TOTAL FINAL RATE
CONTRIBUTORY	0.0	0.0	0.1		0.1
SEC 375-c	0.0	0.0	0.1		0.1
SEC 375-e	0.0	0.0	0.1		0.1
SEC 375-g	0.0	0.0	0.1		0.1
SEC 375-h	0.0	0.0	0.1	0.0	0.1
SEC 375-i	0.0	0.0	0.1		0.1
SEC 375-j	0.0	0.0	0.1		0.1
25 YR CONT (384 1/2)	0.0	0.0	0.1		0.1
25 YR CONT (384 3/4)	0.0	0.0	0.1		0.1
25 YR CONT (384 4/4)	0.0	0.0	0.1		0.1
25 YR (384 NON-CONTRIBUTORY)	0.0	0.0	0.1		0.1
25 YR ADDL 1/60 (384(f))	0.0	0.0	0.1		0.1
20 YR CONT (384-d 1/2)	0.0	0.0	0.1		0.1
20 YR CONT (384-d 4/4)	0.0	0.0	0.1		0.1
20 YR (384-d NON-CONTRIBUTORY)	0.0	0.0	0.1		0.1
20 YR ADDL 1/60 (384-e)					
1990-1993 ELECTIONS	1.4	0.0	0.1		1.5
1994 ELECTIONS	3.0	0.0	0.1		3.1
1995 ELECTIONS	3.0	0.0	0.1		3.1
1996 ELECTIONS	2.1	0.0	0.1		2.2
1997 ELECTIONS	2.2	0.0	0.1		2.3
1998 ELECTIONS	2.4	0.0	0.1		2.5
1999 & LATER ELECTIONS	0.0	0.0	0.1		0.1
381-b STATE POLICE	0.0	0.0	0.1	0.0	0.1
383-a&b ENCONIPARK POLICE	0.0	0.0	0.1	0.0	0.1
383-c FOREST RANGERS	0.0	0.0	0.1	0.0	0.1

OPTIONS - ADDITIONAL RATES (NON-STATE ONLY)

OPTION	RATES
SICK LEAVE	0.0
5% ITHP	0.0
8% ITHP	0.0
ONE YEAR FAS	
AGE 55 PLANS	0.0
25 YEAR PLANS	0.0
25 YEAR W/ 1/60 PLANS	0.0
20 YEAR PLANS	0.0
20 YEAR W/ 1/60 PLANS	0.0

CALCULATION OF FUNDS FOR STUDY PURPOSES

THE 2001 FUNDS WERE ATTRIBUTED TO EACH PLAN BY THE FORMULA

(3.5/12)

PLAN LIABILITIES - (NORMAL RATE)(PV SALARY)(1+i)

(does not include
death benefits)

PLAN	TIER 1	TIER 2
Contributory	96,391	1,864,560
375-c	1,737,613	
375-c&e		26,333,982
375-g	2,045,026	17,875,145
375-h,i&j	52,348,709	45,371,376
384	6,740,990	18,606,013
384(f)	32,316,735	53,478,088
384-d	345,433,294	2,383,706,299
384-e	1,337,329,755	4,890,834,234
381-b	82,492,744	1,307,734,436
383-a,b&c	16,640,866	125,447,615
Sick Leave	1,318,812	9,424,424
One Year FAS - 55 Yr		85,013
One Year FAS - 384		144,412
		83,862
One Year FAS - 384D		4,027,099
One Year FAS - 384E		48,278,630
GRAND TOTAL	10,811,796,121	

PFRS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ----- STATE

	TIER 1		TIER 2	
	NUMBER	SALARIES	NUMBER	SALARIES
AGE 55 CONTRIBUTORY				
AGE 60 CONTRIBUTORY				
AGE 55 375-C				
AGE 55 375-E				
AGE 55 375-G				
AGE 55 375-H	40	2,953,814.12	7	429,678.72
AGE 55 375-I				
AGE 55 375-J				
STATE POLICE 381-B	153	11,579,800.60	4,088	245,384,247.98
REG PARK POL 383-A	26	1,533,499.35	255	9,794,783.34
ENCON POLICE 383-B	15	1,072,961.63	254	14,361,513.65
FOREST RANGER 383-C	2	113,422.85	95	4,501,552.45
25 YR CONTRIBUTORY				
25 YR NON-CONTRIB				
25 YR 384(F) CONTRB				
25 YR 384(F) NON-CN				
20 YR CONTRIBUTORY				
20 YR NON-CONTRIB				
384-E CONTRIBUTORY				
384-E NON-CONTRIB				
SUB-TOTAL	236	17,253,498.55	4,699	274,471,776.14
INACTIVE NON-VESTED			258	1,974,230.73
INACTIVE VESTED	21	460,769.36	184	4,606,031.92
PENDING RETIREMENTS	66	4,738,348.93	69	4,748,109.71
PENDING DEATHS			1	59,886.84
SUB-TOTAL	87	5,199,118.29	512	11,388,259.20
GRAND TOTAL	323	\$22,452,616.84	5,211	\$285,860,035.34

PFRS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ----- COUNTIES

	TIER 1		TIER 2	
	NUMBER	SALARIES	NUMBER	SALARIES
AGE 55 CONTRIBUTORY				
AGE 60 CONTRIBUTORY				
AGE 55 375-C				
AGE 55 375-E				
AGE 55 375-G				
AGE 55 375-H				
AGE 55 375-I	14	1,584,640.71		
AGE 55 375-J				
STATE POLICE 381-B				
REG PARK POL 383-A				
ENCON POLICE 383-B				
FOREST RANGER 383-C				
25 YR CONTRIBUTORY				
25 YR NON-CONTRIB	1	83,761.38	7	199,706.39
25 YR 384(F) CONTRB				
25 YR 384(F) NON-CN	4	226,988.10	13	685,379.30
20 YR CONTRIBUTORY				
20 YR NON-CONTRIB	26	2,445,142.31	211	17,303,026.18
384-E CONTRIBUTORY				
384-E NON-CONTRIB	1,097	117,345,720.17	4,384	395,535,161.89
SUB-TOTAL	1,142	121,686,252.67	4,615	413,723,273.76
INACTIVE NON-VESTED			173	1,124,568.01
INACTIVE VESTED	33	1,309,889.67	39	1,670,521.13
PENDING RETIREMENTS	151	16,071,334.33	21	2,024,483.86
PENDING DEATHS	2	218,873.59		
SUB-TOTAL	186	17,600,097.59	233	4,819,573.00
GRAND TOTAL	1,328	\$139,286,350.26	4,848	\$418,542,846.76

PFRS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ——— CITIES

	TIER 1		TIER 2	
	NUMBER	SALARIES	NUMBER	SALARIES
AGE 55 CONTRIBUTORY				
AGE 60 CONTRIBUTORY				
AGE 55 375-C				
AGE 55 375-E				
AGE 55 375-G	2	114,722.36	51	2,253,908.77
AGE 55 375-H				
AGE 55 375-I	29	1,805,984.54	80	3,445,345.08
AGE 55 375-J			1	64,487.09
STATE POLICE 381-B				
REG PARK POL 383-A				
ENCON POLICE 383-B				
FOREST RANGER 383-C				
25 YR CONTRIBUTORY				
25 YR NON-CONTRIB	17	898,048.22	33	1,823,835.14
25 YR 384(F) CONTRB				
25 YR 384(F) NON-CN	61	3,886,373.74	62	3,250,810.40
20 YR CONTRIBUTORY				
20 YR NON-CONTRIB	418	26,644,257.05	5,095	259,564,810.60
384-E CONTRIBUTORY				
384-E NON-CONTRIB	646	45,747,180.93	5,427	321,718,244.01
SUB-TOTAL	1,173	79,096,566.84	10,749	592,121,441.09
INACTIVE NON-VESTED			290	3,624,602.84
INACTIVE VESTED	82	1,518,205.79	266	8,266,054.88
PENDING RETIREMENTS	134	9,848,064.90	80	5,315,065.43
PENDING DEATHS	4	371,880.45	3	205,662.15
SUB-TOTAL	220	11,738,151.14	639	17,411,385.30
GRAND TOTAL	1,393	\$90,834,717.98	11,388	\$609,532,826.39

PFRS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ——— TOWNS

	TIER 1		TIER 2	
	NUMBER	SALARIES	NUMBER	SALARIES
AGE 55 CONTRIBUTORY	3	27,186.89	20	145,153.79
AGE 60 CONTRIBUTORY	0	327.80	24	222,811.50
AGE 55 375-C	4	92,892.87	194	2,662,818.82
AGE 55 375-E			18	287,249.02
AGE 55 375-G	2	20,178.33	65	975,981.27
AGE 55 375-H				
AGE 55 375-I	8	495,416.36	61	2,471,006.80
AGE 55 375-J				
STATE POLICE 381-B				
REG PARK POL 383-A				
ENCON POLICE 383-B				
FOREST RANGER 383-C				
25 YR CONTRIBUTORY				
25 YR NON-CONTRIB	1	7,197.52	29	956,214.62
25 YR 384(F) CONTRB				
25 YR 384(F) NON-CN	3	210,294.15	4	221,574.85
20 YR CONTRIBUTORY				
20 YR NON-CONTRIB	141	12,013,941.15	1,834	112,014,607.78
384-E CONTRIBUTORY				
384-E NON-CONTRIB	128	9,833,278.79	1,171	77,821,314.92
SUB-TOTAL	290	22,700,713.86	3,420	197,778,733.37
INACTIVE NON-VESTED			179	1,746,611.50
INACTIVE VESTED	29	590,110.10	197	4,969,691.19
PENDING RETIREMENTS	33	2,774,959.18	31	2,273,929.15
PENDING DEATHS			1	81,492.03
SUB-TOTAL	62	3,365,069.28	408	9,071,723.87
GRAND TOTAL	352	\$26,065,783.14	3,828	\$206,850,457.24

PFRS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ----- VILLAGES

	TIER 1		TIER 2	
	NUMBER	SALARIES	NUMBER	SALARIES
AGE 55 CONTRIBUTORY	1	6,929.42	24	175,333.72
AGE 60 CONTRIBUTORY			18	172,466.51
AGE 55 375-C	4	89,152.59	303	3,088,911.42
AGE 55 375-E			44	487,942.46
AGE 55 375-G	3	50,136.81	78	1,486,969.76
AGE 55 375-H				
AGE 55 375-I	17	1,162,812.25	210	4,827,975.69
AGE 55 375-J			3	130,267.81
STATE POLICE 381-B				
REG PARK POL 383-A				
ENCON POLICE 383-B				
FOREST RANGER 383-C				
25 YR CONTRIBUTORY				
25 YR NON-CONTRIB	2	95,145.63	50	1,075,824.99
25 YR 384(F) CONTRB				
25 YR 384(F) NON-CN	4	272,623.28	37	3,241,857.84
20 YR CONTRIBUTORY			6	54,226.83
20 YR NON-CONTRIB	165	12,942,062.45	2,276	125,717,095.28
384-E CONTRIBUTORY				
384-E NON-CONTRIB	63	5,803,202.31	592	41,158,124.98
SUB-TOTAL	259	20,422,064.74	3,641	181,616,997.29
INACTIVE NON-VESTED			465	3,504,190.53
INACTIVE VESTED	42	786,755.95	340	5,396,805.59
PENDING RETIREMENTS	25	1,892,464.85	30	2,179,477.26
PENDING DEATHS			3	171,691.26
SUB-TOTAL	67	2,679,220.80	838	11,252,164.64
GRAND TOTAL	326	\$23,101,285.54	4,479	\$192,869,161.93

PFRS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ----- MISCELLANEOUS

	TIER 1		TIER 2	
	NUMBER	SALARIES	NUMBER	SALARIES
AGE 55 CONTRIBUTORY				
AGE 60 CONTRIBUTORY				
AGE 55 375-C	3	180,785.32	14	438,484.63
AGE 55 375-E				
AGE 55 375-G	1	130,405.00		
AGE 55 375-H				
AGE 55 375-I	3	293,464.67	13	483,442.82
AGE 55 375-J			1	46,222.62
STATE POLICE 381-B				
REG PARK POL 383-A				
ENCON POLICE 383-B				
FOREST RANGER 383-C				
25 YR CONTRIBUTORY				
25 YR NON-CONTRIB			8	225,922.92
25 YR 384(F) CONTRB				
25 YR 384(F) NON-CN	7	439,203.05	101	4,545,699.42
20 YR CONTRIBUTORY				
20 YR NON-CONTRIB	12	891,991.99	218	12,961,951.82
384-E CONTRIBUTORY				
384-E NON-CONTRIB	152	16,776,524.97	1,463	122,828,157.22
SUB-TOTAL	178	18,712,375.00	1,818	141,529,881.45
INACTIVE NON-VESTED			56	698,034.35
INACTIVE VESTED	14	333,129.90	35	919,186.17
PENDING RETIREMENTS	12	1,510,067.92	15	1,775,690.22
PENDING DEATHS	1	149,811.70	1	40,627.68
SUB-TOTAL	27	1,993,009.52	107	3,433,538.42
GRAND TOTAL	205	\$20,705,384.52	1,925	\$144,963,419.87

PFRS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 ——— TOTAL

	TIER 1		TIER 2	
	NUMBER	SALARIES	NUMBER	SALARIES
AGE 55 CONTRIBUTORY	4	34,116.31	44	320,487.51
AGE 60 CONTRIBUTORY	0	327.80	42	395,278.01
AGE 55 375-C	11	362,830.78	511	6,190,214.87
AGE 55 375-E	0	0.00	62	775,191.48
AGE 55 375-G	8	315,442.50	194	4,716,859.80
AGE 55 375-H	40	2,953,814.12	7	429,678.72
AGE 55 375-I	71	5,342,318.53	364	11,227,770.39
AGE 55 375-J	0	0.00	5	240,977.52
STATE POLICE 381-B	153	11,579,800.60	4,088	245,384,247.98
REG PARK POL 383-A	26	1,533,499.35	255	9,794,783.34
ENCON POLICE 383-B	15	1,072,961.63	254	14,361,513.65
FOREST RANGER 383-C	2	113,422.85	95	4,501,552.45
25 YR CONTRIBUTORY	0	0.00	0	0.00
25 YR NON-CONTRIB	21	1,084,152.75	127	4,281,504.06
25 YR 384(F) CONTRB	0	0.00	0	0.00
25 YR 384(F) NON-CN	79	5,035,482.32	217	11,945,321.81
20 YR CONTRIBUTORY	0	0.00	6	54,226.83
20 YR NON-CONTRIB	762	54,937,394.95	9,634	527,561,491.66
384-E CONTRIBUTORY	0	0.00	0	0.00
384-E NON-CONTRIB	2,086	195,505,907.17	13,037	959,061,003.02
SUB-TOTAL	3,278	279,871,471.66	28,942	1,801,242,103.10
INACTIVE NON-VESTED	0	0.00	1,421	12,672,237.96
INACTIVE VESTED	221	4,998,860.77	1,061	25,828,290.88
PENDING RETIREMENTS	421	36,835,240.11	246	18,316,755.63
PENDING DEATHS	7	740,565.74	9	559,359.96
SUB-TOTAL	649	42,574,666.62	2,737	57,376,644.43
GRAND TOTAL	3,927	\$322,446,138.28	31,679	\$1,858,618,747.53

PFRS DISTRIBUTION SCHEDULE OF MEMBERSHIP
AS OF MARCH 31, 2001 — GRAND TOTAL

	NUMBER	SALARIES
AGE 55 CONTRIBUTORY	48	\$354,603.82
AGE 60 CONTRIBUTORY	42	395,605.81
AGE 55 375-C	522	6,553,045.65
AGE 55 375-E	62	775,191.48
AGE 55 375-G	202	5,032,302.30
AGE 55 375-H	47	3,383,492.84
AGE 55 375-I	435	16,570,088.92
AGE 55 375-J	5	240,977.52
STATE POLICE 381-B	4,241	256,964,048.58
REG PARK POL 383-A	281	11,328,282.69
ENCON POLICE 383-B	269	15,434,475.28
FOREST RANGER 383-C	97	4,614,975.30
25 YR CONTRIBUTORY	0	0.00
25 YR NON-CONTRIB	148	5,365,656.81
25 YR 384(F) CONTRB	0	0.00
25 YR 384(F) NON-CN	296	16,980,804.13
20 YR CONTRIBUTORY	6	54,226.83
20 YR NON-CONTRIB	10,396	582,498,886.61
384-E CONTRIBUTORY	0	0.00
384-E NON-CONTRIB	15,123	1,154,566,910.19
SUB-TOTAL	32,220	2,081,113,574.76
INACTIVE NON-VESTED	1,421	12,672,237.96
INACTIVE VESTED	1,282	30,827,151.65
PENDING RETIREMENTS	667	55,151,995.74
PENDING DEATHS	16	1,299,925.70
SUB-TOTAL	3,386	99,951,311.05
GRAND TOTAL	35,606	\$2,181,064,885.81

NUMBER OF ACTIVE MEMBERS

	<u>TIER 1</u>	<u>TIER 2</u>	<u>TOTAL</u>
STATE	236	4,699	4,935
COUNTIES	1,142	4,615	5,757
CITIES	1,173	10,749	11,922
TOWNS	290	3,420	3,710
VILLAGES	259	3,641	3,900
MISC	178	1,818	1,996
TOTAL	3,278	28,942	32,220

ACTIVE MEMBERS SALARIES

STATE	17,253,498.55	274,471,776.14	291,725,274.69
COUNTIES	121,686,252.67	413,723,273.76	535,409,526.43
CITIES	79,096,566.84	592,121,441.09	671,218,007.93
TOWNS	22,700,713.86	197,778,733.37	220,479,447.23
VILLAGES	20,422,064.74	181,616,997.29	202,039,062.03
MISC	18,712,375.00	141,529,881.45	160,242,256.45
TOTAL	279,871,471.66	1,801,242,103.10	2,081,113,574.76

AMORTIZATION PAYMENT AMOUNTS AND PRESENT VALUES

THE ANNUAL LOCAL PAYMENT FOR THE AMORTIZATION OF THE 1988 & 1989 BILLS IS \$27,048,196, WITH LAST PAYMENT DUE 12/15/2005, AND PRESENT VALUE AS OF 4/1/01 OF \$108,516,757.

PAYMENTS FOR LOCAL MISCELLANEOUS AMORTIZATIONS, DUE TO SUCH ITEMS AS CHARTERED LAWS AND PRIOR YEAR ADJUSTMENTS, HAVE A PRESENT VALUE AS OF 4/1/01 OF \$27,365,684.

THE ABOVE PRESENT VALUES, MINUS ANY CREDITS DUE TO ADVANCE PAYMENTS, HAVE BEEN INCLUDED IN THE "PRESENT ASSETS" OF THE SYSTEM, DESPITE THE FACT THAT THEY HAVE NOT YET BEEN RECEIVED.

COMPARISON OF ACCOUNTING'S NET ASSETS AVAILABLE
FOR BENEFITS WITH ACTUARIAL ASSETS

	ERS	PFRS	GLIP	TOTAL
ACCOUNTING'S NET ASSETS AVAILABLE FOR BENEFITS	96,399,617,273	17,577,740,224	66,153,795	114,043,511,292
PLUS LIABILITIES PAYABLE FROM ACCOUNTING'S BALANCE SHEETS	263,937,676	43,188,112	23,345,834	330,471,622
SUBTOTAL - ACCOUNTING'S BALANCE SHEET ASSETS	96,663,554,949	17,620,928,336	89,499,629	114,373,982,914
DIFFERENCE BETWEEN MARKET VALUE AND AMORTIZED VALUE OF BONDS AND MORTGAGE LOANS	-1,628,812,295	-299,490,490		
NON-MEMBER CONTRIBUTIONS IN THE PA FUND	-32,095,500	-30,906		
5-YEAR SMOOTHING ADJUSTMEN	6,017,516,703	1,087,102,854		
TOTAL - ACTUARIAL ASSETS	101,020,163,857	18,408,509,794	89,499,629	119,518,173,280

Minras, Omegas and Retirement Assumptions

PFRS -- TIER 1

PLAN OR GROUP		MINRA	ASSUMED OMEGA	RETIREMENT ASSUMPTION
371-a	(2020)	55	70	T1P55
375-c	(2025)	55	70	T1P55
375-e	(2030)	55	70	T1P55
375-g	(2035)	55	70	T1P55
375-h & i	(2050)	55	70	T1P55
375-j	(2038)	55	70	T1P55
384	(2060)	MIN (60, 25 YRS)	70	YR25W70
384(f)	(2105)	MIN (60, 25 YRS)	62	YR25W70
384-d	(2075, 2039, 2108)	MIN (62, 20 YRS)	62	YR20W62
384-e	(2106)	MIN (62, 20 YRS)	62	OR20E62
381-b	(2095)	MIN (20 YRS, W)	57	OR20S57
383-a	(2100)	MIN (60, 25 YRS)	70	YR25W70
383-b	(2101)	MIN (60, 25 YRS)	70	YR25W70
SEC 375-h	(2040)	55	70	T1P55
NON-SEC 375-h	(2045)	55	70	T1P55
1 YR FAS - REG	(2155)	55	70	T1P55
1 YR FAS - 384	(2160)	MIN (60, 25 YRS)	70	YR25W70
1 YR FAS - 384(f)	(2170)	MIN (60, 25 YRS)	62	YR25W70
1 YR FAS - 384-d	(2165, 2166)	MIN (62, 20 YRS)	62	YR20W62
1 YR FAS - 384-e	(2167)	MIN (62, 20 YRS)	62	OR20E62
SICK LEAVE	(2152, 2153)	MIN (20 YRS, W)	57	OR20S57
PEND SERV 384-d	(2004, 2011)	N/A	N/A	T1P55
PEND SERV 384-e	(2003)	N/A	N/A	T1P55
PEND SERV 381-b	(2010)	N/A	N/A	T1P55
PEND ACC DIS	(2012)	N/A	N/A	T1P55
PEND ORD DIS	(2013)	N/A	N/A	T1P55
PEND IPOD	(2014)	N/A	N/A	T1P55
INACTIVE VEST	(2006, 2008)	55	N/A	T1P55

Minras, Omegas and Retirement Assumptions

PFRS -- TIER 2

PLAN OR GROUP		MINRA	ASSUMED OMEGA	RETIREMENT ASSUMPTION
371-a	(4020, 4021)	MAX (55, 5 YRS)	70	T2P55
375-c & e	(4025, 4026)	MAX (55, 5 YRS)	70	T2P55
375-g	(4030, 4031)	MAX (55, 5 YRS)	70	T2P55
375-h & i	(4034, 4035)	MAX (55, 5 YRS)	70	T2P55
375-j	(4036, 4038)	MAX (55, 5 YRS)	70	T2P55
384	(4048, 4049)	MIN (60, 25 YRS)	70	YR25W70
384(f)	(4089, 4090)	MIN (60, 25 YRS)	62	YR25W70
384-d	(4060, 4037, 4061)	MIN (62, 20 YRS)	62	YR20W62
384-e	(4091, 4092)	MIN (62, 20 YRS)	62	OR20E62
381-b	(4080, 4081)	MIN (20 YRS. W)	57	OR20S57
383-a	(4085, 4086)	MIN (60, 25 YRS)	70	YR25W70
DTH BENEFIT 0	(4115)	MIN (62, 20 YRS)	62	OR20E62
DTH BENEFIT 1	(4105)	MAX (55, 5 YRS)	70	T2P55
DTH BENEFIT 2	(4110)	MAX (55, 5 YRS)	70	T2P55
SICK LEAVE	(4120, 4121)	MIN (20 YRS. W)	57	OR20S57
PEND SERV 384-d	(4004, 4011)	N/A	N/A	T2P55
PEND SERV 384-e	(4003)	N/A	N/A	T2P55
PEND SERV 381-b	(4010)	N/A	N/A	T2P55
PEND ACC DIS	(4012)	N/A	N/A	T2P55
PEND ORD DIS	(4013)	N/A	N/A	T2P55
PEND IPOD	(4014)	N/A	N/A	T2P55
INACTIVE VEST	(4006, 4008)	MAX (55, 5 YRS)	N/A	T2P55

PFRS**Service Retirement Benefit Formulas****Tier 1
Plans**

371-a	.....	$1/120 * FAS * \text{Years of Service (Yrs)}$
375-c	.....	$1/120 * FAS * \text{Yrs prior to 1960} + 1/60 * FAS * \text{Yrs after 4/1/60}$
375-e	.....	$1/60 * FAS * \text{Yrs}$
375-g	.....	$1/60 * FAS * \text{Yrs if Yrs} < 25$ $.5 * FAS + 1/60 * FAS * (\text{Yrs} - 25) \text{ if Yrs} \geq 25$
375h & i & j	.....	$1/60 * FAS * \text{Yrs if Yrs} < 20$ $1/50 * FAS * \text{Yrs up to } .75 * FAS \text{ or 375-g benefit if greater, if Yrs} \geq 20$

Tier 2 limits for the above plans:

Yrs is limited to a maximum of 30 years and if retirement is age < 62, then age reductions apply.

If retire age ≥ 60 .5%/ month reduction in benefit

If retire age ≥ 55 and < 60: 12% + .25%/month reduction for each month retire prior to age 60.

(Therefore, an age 55, 375-i retiree with 35 years of service: $.6 * FAS * .73 = .438 * FAS$.)

384

Tier 1: $.5 * FAS$ if Yrs ≥ 25
 $1/50 * FAS * \text{Yrs at age} \geq 60$ if Yrs < 25
Assume reversion to 375-g if age ≥ 55 and benefit is greater.

Tier 2: Same as Tier 1 except 375-g reversion includes the 30 year limit and age reductions if age < 62.

384(f)

Tier 1: $.5 * FAS + 1/60 * (I\text{Yrs} - 25) * FAS$ if Yrs ≥ 25
 $1/50 * FAS * \text{Yrs at age} \geq 60$ if Yrs < 25
Assume reversion to 375-g if age ≥ 55 and benefit is greater.

Tier 2: Same as Tier 1 except Yrs is limited to 30 and the 375-g reversion includes age reductions if age < 62.

NOTE: IYrs = integer years of service

383-a*

Tier 1: $.5 * FAS + 1/60 * (\text{Yrs} - 25) * FAS$ if Yrs ≥ 25
 $1/50 * FAS * \text{Yrs at age} \geq 60$ if Yrs < 25

Tier 2: Same as Tier 1 except Yrs is limited to 30.

***383-b members are included in the 383-a sorts.**

PFRS
Service Retirement Benefit Formulas (con't)

384-d

- Tier 1: .5 * FAS if Yrs ≥ 20
1/40 * FAS * Yrs at age 62 if Yrs < 20
Assume reversion to 375-i if age ≥ 55 and benefit is greater (no reversion to 375-g).
- Tier 2: Same as Tier 1 except 375-i reversion includes the 30 year limit and age reductions if age < 62.

384-e

- Tier 1: [.5 + 1/60 * (Yrs - 20)] * FAS, Maximum of .75 * FAS if Yrs ≥ 20
1/40 * FAS * Yrs age @ 62 if Yrs < 20
- Tier 2: Same as Tier 1 except that the maximum is 2/3 * FAS (30 year limit).

381-b

- Tier 1: [.5 + 1/60 * (Yrs - 20)] * FAS, Maximum of .75 * FAS if Yrs ≥ 20
1/40 * FAS * Yrs age 57 if Yrs < 20
- Tier 2: Same as Tier 1 except that the maximum is 2/3 * FAS (30 year limit).

Vested Benefit Formulas

371-a and

All 375 plans . . . Service Retirement Benefit if Yrs ≥ 5

- All other plans** . . . Tier 1: 1/60 * FAS * Yrs if Yrs ≥ 5
- Tier 2: 1/60 * FAS * Yrs, maximum of .5 * FAS, if Yrs ≥ 5

Benefit is payable at age 55.

Disability Benefit Formulas

**Ordinary
Disability**

Tier 1 plans except 381-b requires 10 years of service Maximum of: $\left\{ \begin{array}{l} 1/60 * FAS * Yrs \end{array} \right.$

Minimum of: $\left\{ \begin{array}{l} 1/3 * FAS \\ 1/60 * FAS * Projected \text{ Service to age } 60 \end{array} \right.$

Tier 2 plans except 381-b Same as above except maximum of .5 * FAS for 371-a & 375-c & e, Maximum of (1/2 + 5/60) * FAS for 375-g, and maximum of .6 * FAS for 375-h & i

Tier 1 & 2 381-b requires 5 years of service .5 * FAS

PFRS

Disability Benefit Formulas(con't)

Accidental Reduce benefits by .05 * FAS for assumed workers compensation offset where appropriate.

Tier 1:

(All plans except 381-b entry ≥1972) .75 * FAS - .05 * FAS = .70 * FAS
(381-b with entry ≥1972) .5 * FAS

Tier 2:

Same as Tier 1 except:

383-a (1/2 + 5/60 - .05) * FAS if entry < 1985
5 * FAS if entry ≥1985

In 1985 the IPOD disability benefit was created.

IPOD (In performance of duty) .5 * FAS

Death Benefit Formulas

Accidental

Death: .5 * FAS * 1.9
(The 1.9 represent the additional cost for the 361-a special accidental death benefit.)

Ordinary Death

Tier 1

.....if ineligible to retire,...

371a 1/12 * Salary (SAL) for each of the first 12 years of service +
1/24 * SAL for each of the first 24 years above 12, but ≥36,
i.e., Maximum of 2 * SAL

375 c, e, g, i, & j 1/12 * SAL * Yrs up to 36

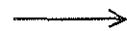
375 h, non-security

384, 384(f), 384-d, 384-e

375-h Security,

381-b & 383--a.....3 * SAL

..... If eligible to retire, then the greater of the above and



PFRS
Death Benefit Formulas (con't)

Ordinary Death (con't)

- 371-a $1/120 * FAS * Yrs * 4\%$ annuity value
- 375-c, e, g, i, & $[1/120 * FAS * Yrs \text{ prior to } 1960 + 1/60 * FAS * Yrs \geq 1960 * 4\%$ annuity value
- 375-h, non-Security
- 384 $[1/50 * FAS * Yrs, \text{ Maximum of } .5 * FAS]$ * 4% annuity value OR
375-c benefit if age ≥ 55 and benefit is greater
- 384(f) $[.5 * FAS + 1/60 * (Yrs - 25) * FAS]$ * 4% annuity value if Yrs ≥ 25
 $1/50 * FAS * Yrs * 4\%$ annuity at age ≥ 60 and Yrs < 25
- 384-d $[1/40 * FAS * Yrs, \text{ Maximum of } 0.5 * FAS]$ * 4% annuity value OR
375-c benefit if age ≥ 55 and benefit is greater
- 384-e $[.5 * FAS + 1/60 * (Yrs - 20) * FAS, \text{ Max. of } .75 * FAS]$ * 4% annuity value if Yrs ≥ 20
 $1/40 * FAS * Yrs * 4\%$ annuity value if age ≥ 62 and Yrs < 20
- 375-h, Security..... 375-c benefit if entry year ≥ 1969 ?
- 381-b $[1/50 * FAS * Yrs, \text{ Maximum of } .5 * FAS]$ * 4% annuity value if Yrs ≥ 25 OR
age = omega and entry year ≥ 1969
- 383-a $[1/50 * FAS * Yrs, \text{ Maximum of } .5 * FAS]$ * 4% annuity value if entry year ≥ 1970 ?

Tier 2

Benefit 0

..... $3 * SAL$

Death Benefit 1

The better of the following benefits or Death Benefit 2:

..... $1/12 * IYrs * SAL$, maximum of $3 * SAL$

. If eligible to retire and age ≥ 62 , compare with:

$1/60 * Yrs * FAS * 4\%$ annuity value if entry year < 1989 , OR

$1/60 * Yrs * FAS * 7\%$ annuity value if entry year ≥ 1989 (Yrs cannot exceed 30)

Death Benefit 2

Active Death

Benefit..... $SAL * IYrs$ (limited to 3) * 3% Death Reductions

. 3% Death Reductions:

$$\left\{ \begin{array}{l} 1 \text{ if age } < 61 \\ 1 - .03 * (\text{age} - 60) \text{ if age } \geq 61 \text{ \& } < 70 \\ .7 \text{ if age } \geq 70 \end{array} \right\}$$

PFRS
Death Benefit Formulas (con't)

Post-Retirement
Death Benefit ..(Service, Ordinary Disability, and Accidental Disability)

**For those who have Death
Benefit 1 or 2**

If death occurs within the first year after retirement---benefit is .50 of the active death benefit at retirement.

If death occurs in the second year after retirement---benefit is .25 of the active death benefit at retirement.

If death occurs after the second year in retirement--- benefit is .1 of the active death benefit at age 60 or retirement, if earlier and if Entry Age (EA) < 60.

If EA =60, the death benefit after the second year of retirement is 0.

Active Ordinary

Death Benefit. First \$50,000 is paid from group term life insurance, remainder is included in the valuation.
..... If a member has 10 years of service, terminates and dies prior to applying for a vested benefit, one-half of the ordinary death benefit is payable.

Other Benefit Formulas

Sick LeaveAssumes 4 days are credited for each year of service, maximum of 165 days.

..... Tier 1:.. $1/60 * \frac{\text{Minimum (165, 4 * Yrs)}}{260}$ * FAS if $20 < \text{Yrs} < 35$

..... Tier 2:.. $1/60 * \frac{\text{Minimum (164, 4 * Yrs)}}{260}$ * FAS if $20 < \text{Yrs} < 30$

1 Year FASApplied to the following 5 groups: (1) Regular---assume 375-i benefits; (2) 384; (3) 384(f); (4) 384-d; and (5) 384-e.

Calculate service benefits, vesting, ordinary disability, IPOD, accidental disability and ordinary death benefits as indicated previously (except no reduction for workers' compensation in accidental disability).

Multiply all results by 0.07 to calculate the additional liability due to the 1year FAS option.

Pending Retirements

..... If accidental, ordinary or in-performance-of-duty disability---assume the member is in 384-d .. (with 1 year FAS, if Tier 1).

.. Tier 1 384-d & e service retirements assume a 1 year FAS.

.. Use 384-d, 384-e and 381-b service formulae for their respective groups.

Inactive Members

..... Tier 1 & 2 - $1/60 * \text{Yrs} * \text{FAS}$
Benefit begins at 55.

COLA

Eligibility: Pensioners age 62 and retired 5 years

..... Pensioners age 55 and retired 10 years

..... Disability Pensioners retired 5 years

Accidental Death beneficiaries receiving a benefit for 5 years

Benefit: 50% of the rate of inflation times the first \$18,000 of the single-life allowance.

..... Maximum 3%. Minimum 1%