

Municipal Employees' Retirement System of Michigan

Ingham County (3303)

in the

MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN

Annual Actuarial Valuation as of December 31, 2003





GABRIEL, ROEDER, SMITH & COMPANY

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June 25, 2004

The Retirement Board Municipal Employees' Retirement System of Michigan

Ladies and Gentlemen:

This report presents the results of the Annual Actuarial Valuation, prepared as of December 31, 2003. The report includes the determination of liabilities and contribution rates resulting from the participation of Ingham County in the Municipal Employees' Retirement System of Michigan ("MERS").

MERS is an agent multiple-employer public employee pension plan and is a tax-qualified plan under section 401(a) of the Internal Revenue Code. MERS is an independent non-profit corporation pursuant to Public Act 220 of 1996, and is an instrumentality of the participating municipalities and courts. Ingham County is responsible for the employer contributions needed to provide MERS benefits for its employees and former employees under the Michigan Constitution and the MERS Plan Document.

There are no material changes in actuarial assumptions or methods reflected in this valuation, with the following exception:

• For this annual annual actuarial valuation, the Retirement Board adopted a one-time adjustment to the method of calculating the actuarial value of assets. Please refer to page 170 for an explanation of the Board's action.

The valuation utilized information furnished by the MERS administrative staff concerning Retirement System benefits, financial transactions, and individual member information. Data was checked for consistency with the prior year, but was not otherwise audited by us.

To the best of our knowledge, this report is complete and accurate and was made in accordance with generally recognized actuarial methods in compliance with Act No. 220 of the Public Acts of 1996, as amended, and the MERS Plan Document as revised. The actuarial assumptions used for this valuation produce results that we believe are reasonable. The Retirement Board of the Municipal Employees' Retirement System of Michigan confirms that the System provides for payment of the required employer contribution as described in Section 20m of Act No. 314 of 1965 (MCL 38.1140m).

Please contact Laura Kramer at MERS if you would like to receive future annual valuations in electronic format, instead of a printed report (800-767-6377; LKramer@mersofmich.com).

Sincerely,
GABRIEL, ROEDER, SMITH & COMPANY
Alan Sonnanstine, MAAA, ASA
Cathy Nagy, MAAA, FSA
Jim Koss, MAAA, ASA

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Executive Summary

Required Employer Contributions

The computed minimum required employer contributions to the retirement system for the fiscal years beginning January 1, 2005 (2003 Valuation) and January 1, 2004 (2002 Valuation) are as follows:

Executive Summary (continued)

	Minimum Required Monthly Employer Contributions @			
	Percentage	e of Payroll	\$ Based on Val	luation Payroll
Division	2003 Valuation 2002 Valuation 20		2003 Valuation	2002 Valuation
01 - Confidentials	11.40%	12.14%	\$12,836	\$11,925
02 - Sheriff FOP Spvs	22.43%	21.52%	38,459	35,226
04 - MCF *	7.26%	7.02%	19,588	14,879
09 - Judges	29.75%	32.09%	4,081	3,670
10 - Gnrl Mgmt	12.30%	12.75%	58,939	57,294
11 - Gnrl Library	-%	-%	1,375	1,129
12 - Gnrl ICEA Profs *	7.97%	11.69%	38,423	58,491
13 - Gnrl OPEIU Prob *	8.47%	8.57%	12,796	13,163
14 - Gnrl TOPS UAW *	10.35%	10.14%	100,181	95,555
15 - Animal Cntrl FOP	15.94%	16.06%	4,383	4,159
16 - Gnrl Commsnrs *	7.55%	5.82%	1,014	668
17 - ICEA Nurses	8.54%	9.39%	22,112	23,894
18 - ICEA Ct. Prof	11.35%	11.42%	18,308	17,930
19 - Cnstutnl Offcls	9.31%	9.59%	3,876	3,876
21 - FOP Shrf Deputies	9.68%	9.44%	54,786	52,600
40 - ICEA Unit 111	7.23%	6.45%	5,785	4,453
41 - MCF Management	9.07%	9.23%	5,753	6,020
42 - ICEA Unit 11 *	8.51%	8.46%	2,460	2,699
43 - ICEA Unit 1 *	16.39%	14.63%	3,037	2,852
44 - MCF Exec Mgr *	23.01%		2,078	
90 - Asst Pros Attnys	13.63%	13.96%	21,891	21,217
91 - Parks Union Empl	8.02%	9.44%	1,231	1,257
92 - Parks Non Union	12.74%	13.80%	1,980	2,084
93 - Lgl Rsrch Clerks	6.71%	7.16%	1,229	1,354
Total Municipality			\$436,601	\$436,395

[@] The above employer contribution requirements are in addition to the member contributions, if any, shown in Table 1.

Executive Summary (continued)

* The current year's required employer contributions reflect a change in benefit provisions, a change in member contribution rates, or a phase out of the temporary contribution adjustment. Please see Tables 16 and 17 for details.

For additional details see Table 15.

It is important to note that the contribution rates shown above are not expected to remain at present levels indefinitely. If future experience were to match the valuation assumptions exactly, the computed employer rates would trend over time toward the long-term cost of system benefits, known as the Normal Cost (see Table 15). Prospective benefit changes as well as Retirement System gains and losses will also affect future contribution rates.

Contribution rates will change from one year to the next as a result of changes in benefit provisions, changes in the actuarial assumptions, and experience of the plan (investment experience and demographic experience).

There were no changes in actuarial assumptions. For benefit provision changes see Table 1.

2003 System Experience

Calendar year 2003 saw asset return reminiscent of the bull market of the late 1990's. MERS system assets returned over 24% on a market value basis. The Retirement Board adopted a one-time adjustment in the Actuarial Value of Assets to slightly accelerate the recognition of this gain. This resulted in more stable employer contribution requirements and funded ratios. Please refer to page 170 for an explanation of the Board's actions.

The reader should note that, given that the actuarial value of assets is currently 9% higher than the market value, meeting the actuarial assumption will require average future market returns that exceed the 8% investment return assumption.

Demographic experience varied by division. This reflects what actually happened to participants (active members, retirees, and vested former members) compared to what was projected by the actuarial assumptions.

2003 Funded Position

Executive Summary (continued)

The ratio of the Valuation Assets to the Actuarial Accrued Liability for Ingham County in aggregate is 75%; last year's ratio was 75%.

Table 1
Benefit Provisions Evaluated and/or Considered

Division	2003 Valuation	2002 Valuation
1 - Confidentials	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E (2.0%) (01/01/1994) 5.36% Member Contrib. Act 88 Election (09/29/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E (2.0%) (01/01/1994) 5.36% Member Contrib. Act 88 Election (09/29/1965)
2 - Sheriff FOP Spvs	3.20% - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(25) FAC-3 E (2.0%) (01/01/1994) 19.61% Member Contrib. Act 88 Election (09/29/1965)	3.20% - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(25) FAC-3 E (2.0%) (01/01/1994) 19.61% Member Contrib. Act 88 Election (09/29/1965)
4 - MCF	C-1 Old Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1995) 0.00% Member Contrib.	C-1 Old Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1995) 0.00% Member Contrib.
9 - Judges	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 3.14% Member Contrib. Act 88 Election (09/29/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 3.14% Member Contrib. Act 88 Election (09/29/1965)
10 - Gnrl Mgmt	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E (2.0%) (01/01/1994) 6.39% Member Contrib. Act 88 Election (09/29/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E (2.0%) (01/01/1994) 6.39% Member Contrib. Act 88 Election (09/29/1965)

Table 1 (continued)

Division	2003 Valuation	2002 Valuation		
11 - Gnrl Library #	C-1 Old Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1994) 0.00% Member Contrib. Act 88 Election (09/29/1965)	C-1 Old Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1994) 0.00% Member Contrib. Act 88 Election (09/29/1965)		
12 - Gnrl ICEA Profs	B-4 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1994) E-2 (2.5%) (01/01/2003) 13.42% Member Contrib. Act 88 Election (09/29/1965)	B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1994) E-2 (2.5%) (01/01/2003) 6.08% Member Contrib. Act 88 Election (09/29/1965)		
13 - Gnrl OPEIU Prob	B-4 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-3 E (2.0%) (01/01/1994) 9.71% Member Contrib. Act 88 Election (09/29/1965)	B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-3 E (2.0%) (01/01/1994) 7.13% Member Contrib. Act 88 Election (09/29/1965)		
14 - Gnrl TOPS UAW	B-4 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1994) 3.62% Member Contrib. Act 88 Election (09/29/1965)	B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1994) 1.60% Member Contrib. Act 88 Election (09/29/1965)		

Table 1 (continued)

Division	2003 Valuation	2002 Valuation
15 - Animal Cntrl FOP	B-4 - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(25) FAC-3 E (2.0%) (01/01/1994) E-2 (2.5%) (01/01/2001) 15.49% Member Contrib. Act 88 Election (09/29/1965)	B-4 - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(25) FAC-3 E (2.0%) (01/01/1994) E-2 (2.5%) (01/01/2001) 15.49% Member Contrib. Act 88 Election (09/29/1965)
16 - Gnrl Commsnrs	C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1994) 3.56% Member Contrib. Act 88 Election (09/29/1965)	C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1994) 3.56% Member Contrib. Act 88 Election (09/29/1965)
17 - ICEA Nurses	B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E (2.0%) (01/01/1994) E-2 (2.5%) (07/01/1995) 11.87% Member Contrib. Act 88 Election (09/29/1965)	B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E (2.0%) (01/01/1994) E-2 (2.5%) (07/01/1995) 11.87% Member Contrib. Act 88 Election (09/29/1965)
18 - ICEA Ct. Prof	B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(20) FAC-5 E (2.0%) (01/01/1994) 9.84% Member Contrib. Act 88 Election (09/29/1965)	B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(20) FAC-5 E (2.0%) (01/01/1994) 9.84% Member Contrib. Act 88 Election (09/29/1965)

Table 1 (continued)

Division	2003 Valuation	2002 Valuation
19 - Cnstutnl Offcls	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E (2.0%) (01/01/1994) 8.46% Member Contrib. Act 88 Election (09/29/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E (2.0%) (01/01/1994) 8.46% Member Contrib. Act 88 Election (09/29/1965)
21 - FOP Shrf Deputies	3.20% - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1994) 10.96% Member Contrib. Act 88 Election (09/29/1965)	3.20% - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1994) 10.96% Member Contrib. Act 88 Election (09/29/1965)
40 - ICEA Unit 111	C-2 (B-1 Base) Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1995) 3.00% Member Contrib. Act 88 Election (09/29/1965)	C-2 (B-1 Base) Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1995) 3.00% Member Contrib. Act 88 Election (09/29/1965)
41 - MCF Management	C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1995) 0.00% Member Contrib. Act 88 Election (09/29/1965)	C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1995) 0.00% Member Contrib. Act 88 Election (09/29/1965)
42 - ICEA Unit 11	C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-3 E (2.0%) (01/01/1988) 3.95% Member Contrib. Act 88 Election (09/29/1965)	C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-3 E (2.0%) (01/01/1988) 3.95% Member Contrib. Act 88 Election (09/29/1965)

Table 1 (continued)

Division	2003 Valuation	2002 Valuation
43 - ICEA Unit 1	C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 3.51% Member Contrib. Act 88 Election (09/29/1965)	C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 3.50% Member Contrib. Act 88 Election (09/29/1965)
44 - MCF Exec Mgr	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E-2 (2.5%) (09/01/2003) 0.00% Member Contrib. Act 88 Election (09/29/1965)	
90 - Asst Pros Attnys	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1988) 1.40% Member Contrib. Act 88 Election (09/29/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1988) 1.40% Member Contrib. Act 88 Election (09/29/1965)
91 - Parks Union Empl	B-3 - 80% Max Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1988) 0.00% Member Contrib. Act 88 Election (09/29/1965)	B-3 - 80% Max Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1988) 0.00% Member Contrib. Act 88 Election (09/29/1965)
92 - Parks Non Union	B-4 - 80% Max Normal Ret Age: 60 V-10 F55(25) FAC-3 E (2.0%) (01/01/1988) 0.00% Member Contrib. Act 88 Election (09/29/1965)	B-4 - 80% Max Normal Ret Age: 60 V-10 F55(25) FAC-3 E (2.0%) (01/01/1988) 0.00% Member Contrib. Act 88 Election (09/29/1965)

Table 1 (continued)

Division	2003 Valuation	2002 Valuation
93 - Lgl Rsrch Clerks	C-1 Old	C-1 Old
	Normal Ret Age: 60	Normal Ret Age: 60
	V-10	V-10
	FAC-5	FAC-5
	E (2.0%) (01/01/1988)	E (2.0%) (01/01/1988)
	0.00% Member Contrib.	0.00% Member Contrib.
	Act 88 Election (09/29/1965)	Act 88 Election (09/29/1965)

[#] This division is closed to new hires. Please refer to the Amortization of Unfunded Actuarial Accrued Liability on page 167.

Table 2
Membership Summary

	2003 Valuation		200	02 Valuation
Division	Number	Annual Payroll*	Number	Annual Payroll*
1 - Confidentials Active Members Vested Former Members Retirees and Beneficiaries	34	\$1,351,175	32	\$1,178,762
	12	90,266	13	86,215
	22	153,332	36	194,074
2 - Sheriff FOP Spvs Active Members Vested Former Members Retirees and Beneficiaries	32	\$2,057,522	32	\$1,964,293
	2	31,636	1	4,610
	47	1,383,836	49	1,317,123
4 - MCF Active Members Vested Former Members Retirees and Beneficiaries	131	\$3,237,587	115	\$2,543,513
	32	129,925	32	125,436
	66	229,483	68	231,178
9 - Judges Active Members Vested Former Members Retirees and Beneficiaries	6	\$164,604	5	\$137,270
	2	6,745	1	4,348
	6	61,658	5	58,089
10 - Gnrl Mgmt Active Members Vested Former Members Retirees and Beneficiaries	81	\$5,750,099	79	\$5,392,347
	18	213,171	18	235,668
	49	1,039,868	50	1,018,286
11 - Gnrl Library Active Members Vested Former Members Retirees and Beneficiaries	0	0	0	0
	29	227,023	29	227,023
	21	99,871	21	99,871
12 - Gnrl ICEA Profs Active Members Vested Former Members Retirees and Beneficiaries	123	\$5,785,130	132	\$6,004,201
	25	248,517	26	248,517
	29	385,232	20	245,119
13 - Gnrl OPEIU Prob Active Members Vested Former Members Retirees and Beneficiaries	36 7 9	\$1,812,911 57,375 149,388	36 8 6	\$1,843,133 66,086 89,491

Table 2 (continued)

Membership Summary

	2003 Valuation		200	02 Valuation
Division	Number	Annual Payroll*	Number	Annual Payroll*
14 - Gnrl TOPS UAW Active Members Vested Former Members Retirees and Beneficiaries	384	\$11,615,252	386	\$11,308,351
	55	338,759	56	337,265
	161	1,382,335	154	1,296,226
15 - Animal Cntrl FOP Active Members Vested Former Members Retirees and Beneficiaries	9	\$329,988	9	\$310,758
	1	6,172	1	6,172
	4	65,919	4	64,706
16 - Gnrl Commsnrs Active Members Vested Former Members Retirees and Beneficiaries	11	\$161,215	10	\$137,720
	4	8,576	4	8,576
	7	23,016	6	20,098
17 - ICEA Nurses Active Members Vested Former Members Retirees and Beneficiaries	69	\$3,107,037	67	\$3,053,506
	11	79,570	12	81,263
	32	286,201	28	250,711
18 - ICEA Ct. Prof Active Members Vested Former Members Retirees and Beneficiaries	37	\$1,935,719	37	\$1,883,979
	9	60,347	7	51,871
	31	537,997	23	476,523
19 - Cnstutnl Offcls Active Members Vested Former Members Retirees and Beneficiaries	6	\$499,590	6	\$485,039
	0	0	0	0
	7	94,987	7	96,192
21 - FOP Shrf Deputies Active Members Vested Former Members Retirees and Beneficiaries	150	\$6,791,675	153	\$6,686,427
	17	85,877	18	85,877
	68	1,299,340	60	1,217,094
40 - ICEA Unit 111 Active Members Vested Former Members Retirees and Beneficiaries	32	\$960,275	28	\$828,543
	6	33,967	5	33,967
	27	227,321	27	231,422

Table 2 (continued)

Membership Summary

	2003 Valuation		200	2 Valuation
Division	Number	Annual Payroll*	Number	Annual Payroll*
41 - MCF Management Active Members Vested Former Members Retirees and Beneficiaries	19	\$761,154	18	\$782,621
	8	49,857	10	61,523
	9	56,939	8	52,672
42 - ICEA Unit 11 Active Members Vested Former Members Retirees and Beneficiaries	9	\$346,899	10	\$382,838
	2	6,702	2	6,702
	1	10,146	1	10,146
43 - ICEA Unit 1 Active Members Vested Former Members Retirees and Beneficiaries	6	\$222,356	6	\$233,997
	3	17,326	3	17,326
	5	64,714	5	64,714
44 - MCF Exec Mgr Active Members Vested Former Members Retirees and Beneficiaries	1 0 0	\$108,383 0 0		
90 - Asst Pros Attnys Active Members Vested Former Members Retirees and Beneficiaries	32	\$1,927,390	32	\$1,823,812
	16	252,516	15	239,618
	4	92,599	5	97,627
91 - Parks Union Empl Active Members Vested Former Members Retirees and Beneficiaries	6 1 0	\$184,247 8,511 0	5 0 0	\$159,732 0 0
92 - Parks Non Union Active Members Vested Former Members Retirees and Beneficiaries	3	\$186,496	3	\$181,220
	0	0	0	0
	0	0	0	0
93 - Lgl Rsrch Clerks Active Members Vested Former Members Retirees and Beneficiaries	6	\$219,613	6	\$227,014
	0	0	0	0
	0	0	0	0

Table 2 (continued)

Membership Summary

	2003 Valuation		200	2002 Valuation	
Division	Number	Annual Payroll*	Number	Annual Payroll*	
Total Municipality Active Members Vested Former Members Retirees and Beneficiaries Total Participants	1223 260 605 2088	\$49,516,317 1,952,838 7,644,182	1207 261 <u>583</u> 2051	\$47,549,076 1,928,063 7,131,362	

^{*} Annual payroll for active members; annual deferred benefits payable for vested former members; annual benefits being paid for retirees and beneficiaries.

Table 3

Active Members in the Valuation - Comparative Schedule

Valuation			Averag	ge Pay		Average	Average
Date 12/31	Number	Annual Payroll	Annual \$	% Increase	Average Age	Benefit Service	Vesting Service
400					44.0		
1993	1,191	\$ 32,835,580	\$ 27,569	3.3%	41.8	9.4	
1994	1,214	34,660,368	28,550	3.6	42.1	9.5	
1995	1,210	35,260,750	29,141	2.1	41.9	9.7	
1996	1,222	36,804,795	30,118	3.4	42.1	9.7	
1997	1,198	37,104,777	30,972	2.8	42.3	9.9	
1998	1,161	40,831,800	35,169	13.6	42.5	10.0	
1999	1,183	41,422,262	35,014	(0.4)	42.7	9.8	
2000	1,197	43,006,155	35,928	2.6	42.7	9.6	
2001	1,199	44,941,508	37,482	4.3	42.8	9.4	9.6
2002	1,207	47,549,076	39,394	5.1	42.8	9.4	9.7
2003	1,223	49,516,317	40,488	2.8	43.3	9.7	9.9

Table 4
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)		Termination Non-Vested	Net Transfers	New Member	End of Year
2001 2002 2003	(26) (31) (18)	(1) (1) (1)		(53) (16) (16)	(78) (91) (92)		160 147 143	1199 1207 1223

Table 5

Vested Former Members in the Valuation - Comparative Schedule

Valuation Date	N	Annual Deferred	Average	Average Benefit	Average Vesting
12/31	Number	Benefits	Age	Service	Service
1993	159	\$			
1994	164				
1995	169				
1996	193				
1997	221				
1998	218				
1999	227				
2000	236				
2001	286	1,870,506	47.7	11.0	12.5
2002	261	1,928,063	48.9	11.8	13.3
2003	260	1,952,838	49.4	11.9	13.6
		, ,			

Table 6
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Net Transfers	New	End of Year
2001 2002 2003	(10) (11) (10)	(2) (3)	(1)	(15) (29) (6)	(1)	75 18 19	286 261 260

Table 7
Retirees and Beneficiaries in the Valuation - Comparative Schedule

Valuation	Re	tirees	Beneficiaries Total Recipients		Recipients	No. of Actives	Benefits As % of	
Date 12/31	Number	Annual Benefits	Number	Annual Benefits	Number	Annual Benefits	per Recip.	Active Payroll
1993		\$		\$		\$ 1,822,113	3.8	5.5%
1994 1995					327 367	2,222,789 2,727,135	3.7 3.3	6.4 7.7
1996 1997					392 429	3,118,939 3,711,946	3.1 2.8	8.5 10.0
1998					462	4,564,053	2.5	11.2
1999 2000					494 527	5,152,654 5,812,070	2.4 2.3	12.4 13.5
2001 2002	500 522	6,045,922 6,749,230	59 61	344,860 382,132	559 583	6,390,782 7,131,362	2.1 2.1	14.2 15.0
2003	541	7,208,811	64	435,371	605	7,644,182	2.0	15.4

Table 8
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	ls	Ren	Removed from Rolls			Year End	
Ended		Annual	Benefit		Annual	Benefit		Annual	
12/31	Number@	Benefits	Adjust. *	Number	Benefits	Adjust.#	Number	Benefits	
1993	35	\$ 422,897	\$	(13)	\$ (75,065)	\$	312	\$ 1,822,113	
1994	27	439,064		(12)	(38,388)		327	2,222,789	
1995	47	544,633		(7)	(40,287)		367	2,727,135	
1996	33	440,912		(8)	(49,108)		392	3,118,939	
1997	45	656,395		(8)	(63,389)		429	3,711,946	
1998	44	921,125		(11)	(69,017)		462	4,564,053	
1999	47	709,648		(15)	(121,047)		494	5,152,654	
2000	42	741,352		(9)	(81,935)		527	5,812,070	
2001	43	639,794	4,432	(10)	(49,884)	(15,636)	559	6,390,782	
2002	48	970,505	7,588	(24)	(194,125)	(43,388)	583	7,131,362	
				, ,					
2003	60	755,729	10,456	(38)	(211,216)	(42,149)	605	7,644,182	
				, ,					

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Table 9

Retirees and Beneficiaries on the Rolls as of December 31, 2003

Distribution by Type of Benefit Being Paid

	Annual	Benefits
Benefits Being Paid to:	Number	Amount
Age and service retirants	517	\$6,992,515
Non-duty disability retirants	21	205,700
Duty disability retirants	3	10,596
Beneficiaries of deceased retirants	40	287,487
Beneficiaries of deceased members: Non-duty death Duty death	23 <u>1</u>	128,729 <u>19,155</u>
Total Benefits Being Paid	605	\$7,644,182

Table 10
Reported Assets (Market Value)

	2003 Va	luation	2002 Va	luation	
Division	Employer And Retiree*	Employee#	Employer And Retiree*	Employee#	
01 - Confidentials	\$ 3,363,890	\$ 516,218	\$ 2,846,642	\$ 435,973	
02 - Sheriff FOP Spvs	10,220,138	2,814,120	8,592,369	2,448,999	
04 - MCF	4,094,100	51,260	3,323,838	51,357	
09 - Judges	475,846	26,415	386,703	22,843	
10 - Gnrl Mgmt	16,962,348	2,801,794	13,312,215	2,391,199	
11 - Gnrl Library	1,864,227	129,981	1,570,243	128,663	
12 - Gnrl ICEA Profs	8,930,002	2,905,795	6,421,306	2,282,930	
13 - Gnrl OPEIU Prob	4,980,976	1,086,991	3,932,795	1,005,177	
14 - Gnrl TOPS UAW	25,530,489	3,258,334	20,125,185	3,176,714	
15 - Animal Cntrl FOP	695,240	219,940	546,293	171,471	
16 - Gnrl Commsnrs	236,082	52,621	182,267	46,917	
17 - ICEA Nurses	5,904,229	1,943,520	4,376,871	1,612,438	
18 - ICEA Ct. Prof	4,851,891	1,253,455	3,740,772	1,036,965	
19 - Cnstutnl Offels	1,261,035	293,017	989,984	247,046	
21 - FOP Shrf Deputies	14,935,015	4,555,815	11,732,685	3,947,286	
40 - ICEA Unit 111	2,451,251	223,303	2,117,118	196,835	
41 - MCF Management	1,219,994	85,736	965,093	57,301	
42 - ICEA Unit 11	271,241	105,886	202,347	104,255	
43 - ICEA Unit 1	407,742	83,951	366,899	91,365	
44 - MCF Exec Mgr	60,706	0			
90 - Asst Pros Attnys	4,693,704	393,251	3,586,389	363,368	
91 - Parks Union Empl	150,871	0	104,007	0	
92 - Parks Non Union	686,879	53,100	519,754	52,315	
93 - Lgl Rsrch Clerks	126,275	0	83,235	0	
Total Municipality	\$114,374,171	\$ 22,854,503	\$ 90,025,010	\$ 19,871,417	
Combined Reserves	\$137,228,674		\$109,896,427		

^{*} Reserve for Employer Contributions and Benefit Payments

The December 31, 2003 Valuation Assets are equal to 1.095161 times the reported Market Value of assets. The derivation of Valuation Assets is described on page 169.

[#] Reserve for Employee Contributions

Table 11

Flow of Valuation Assets (Actuarial Value)

Year Ended		butions	Investment	Benefit	Member Contrib.	Net	D 1
2001 2002 2003	\$ 3,969,561 4,297,730 4,851,575	Member \$ 2,669,220 3,001,615 3,500,439	\$ 9,655,853 4,906,444 11,281,677	\$ (6,165,634) (6,903,572) (7,468,123)	(216,746)	158,907	Balance \$ 133,055,221 138,299,599 150,287,493

Table 12

Termination Liability and Present Value of Accrued Benefits as of December 31, 2003

Termination Liability*	Division	PVAB* Present Value of Accrued Benefits	Valuation Assets	PVAB Percent Funded	Unfunded (Overfunded) PVAB
\$ 2,458,608 539,132 1,559,987 1,548 \$ 4,559,275	01 - Confidentials Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 2,034,507 539,132 1,559,987 1,548 \$ 4,135,174	\$ 4,249,343	102.8%	\$ (114,169)
\$ 4,388,458 109,842 15,275,182 <u>0</u> \$ 19,773,482	02 - Sheriff FOP Spvs Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 5,538,940 109,842 15,275,182 0 \$ 20,923,964	\$ 14,274,611	68.2%	\$ 6,649,353
\$ 1,696,948 664,357 1,904,964 148 \$ 4,266,417	04 - MCF Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 1,581,269 664,357 1,904,964 148 \$ 4,150,738	\$ 4,539,837	109.4%	\$ (389,099)
\$ 483,058 64,009 642,532 <u>0</u> \$ 1,189,599	09 - Judges Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 364,712 64,009 642,532 0 \$ 1,071,253	\$ 550,057	51.3%	\$ 521,196
\$ 15,114,063 1,214,730 10,272,723 45,776 \$ 26,647,292	10 - Gnrl Mgmt Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 11,717,604 1,214,730 10,272,723 45,776 \$ 23,250,833	\$ 21,644,918	93.1%	\$ 1,605,915
\$ 0 1,556,051 909,935 <u>0</u> \$ 2,465,986	11 - Gnrl Library Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 0 1,556,051 909,935 <u>0</u> \$ 2,465,986	\$ 2,183,979	88.6%	\$ 282,007
\$ 10,160,296 1,651,648 4,005,246 <u>156,867</u> \$ 15,974,057	12 - Gnrl ICEA Profs Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 8,622,660 1,651,648 4,005,246 <u>156,867</u> \$ 14,436,421	\$ 12,962,103	89.8%	\$ 1,474,318

Table 12 (continued)

Termination Liability and Present Value of Accrued Benefits as of December 31, 2003

Termination		PVAB* Present Value of	Valuation	PVAB Percent	Unfunded (Overfunded)
Liability*	Division	Accrued Benefits	Assets	Funded	PVAB
\$ 6,428,780 395,304 1,647,735 <u>0</u> \$ 8,471,819	13 - Gnrl OPEIU Prob Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 4,793,741 395,304 1,647,735 <u>0</u> \$ 6,836,780	\$ 6,645,401	97.2%	\$ 191,379
\$ 15,041,270 1,793,141 13,116,077 142,352 \$ 30,092,840	14 - Gnrl TOPS UAW Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 13,225,938 1,793,141 13,116,077 142,352 \$ 28,277,508	\$ 31,528,396	111.5%	\$ (3,250,888)
\$ 487,136 76,596 865,223 9,623 \$ 1,438,578	15 - Animal Cntrl FOP Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 586,981 76,596 865,223 9,623 \$ 1,538,423	\$ 1,002,269	65.1%	\$ 536,154
\$ 105,869 36,973 177,334 10,572 \$ 330,748	16 - Gnrl Commsnrs Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 88,899 36,973 177,334 10,572 \$ 313,778	\$ 316,176	100.8%	\$ (2,398)
\$ 6,384,665 676,433 3,085,185 32,112 \$ 10,178,395	17 - ICEA Nurses Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 5,229,011 676,433 3,085,185 32,112 \$ 9,022,741	\$ 8,594,549	95.3%	\$ 428,192
\$ 3,402,507 354,835 5,317,531 2,658 \$ 9,077,531	18 - ICEA Ct. Prof Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 3,033,754 354,835 5,317,531 2,658 \$ 8,708,778	\$ 6,686,337	76.8%	\$ 2,022,441
\$ 1,245,794 0 748,313 <u>0</u> \$ 1,994,107	19 - Cnstutnl Offcls Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 984,476 0 748,313 <u>0</u> \$ 1,732,789	\$ 1,701,937	98.2%	\$ 30,852

Table 12 (continued)

Termination Liability and Present Value of Accrued Benefits as of December 31, 2003

Toumin attan		PVAB* Present Value of	Valuetien	PVAB Percent	Unfunded (Overfunded)
Termination Liability*	Division	Accrued Benefits	Valuation Assets	Funded	PVAB
\$ 7,571,298	21 - FOP Shrf Deputies Active Members	\$ 8,273,739			
421,450	Vested Former Members	421,450			
13,713,804 20,920	Retirees and Beneficiaries Pending Refunds	13,713,804 20,920			
\$ 21,727,472	Total	\$ 22,429,913	\$ 21,345,597	95.2%	\$ 1,084,316
	40 - ICEA Unit 111	4 7 . 7 . 7			
\$ 649,906 194,766	Active Members Vested Former Members	\$ 545,626 194,766			
2,015,445	Retirees and Beneficiaries	2,015,445			
<u>39,712</u>	Pending Refunds	<u>39,712</u>			
\$ 2,899,829	Total	\$ 2,795,549	\$ 2,929,067	104.8%	\$ (133,518)
¢ 266 929	41 - MCF Management	¢ 265 429			
\$ 366,828 221,844	Active Members Vested Former Members	\$ 365,438 221,844			
474,104	Retirees and Beneficiaries	474,104			
<u>885</u>	Pending Refunds	<u>885</u>			
\$ 1,063,661	Total	\$ 1,062,271	\$ 1,429,985	134.6%	\$ (367,714)
¢ 202.050	42 - ICEA Unit 11	¢ 227 772			
\$ 282,950 34,139	Active Members Vested Former Members	\$ 237,673 34,139			
97,095	Retirees and Beneficiaries	97,095			
24,407	Pending Refunds	<u>24,407</u>			
\$ 438,591	Total	\$ 393,314	\$ 413,015	105.0%	\$ (19,701)
¢ 226.765	43 - ICEA Unit 1	¢ 106 460			
\$ 226,765 53,451	Active Members Vested Former Members	\$ 186,462 53,451			
596,524	Retirees and Beneficiaries	596,524			
<u>9,505</u>	Pending Refunds	<u>9,505</u>			
\$ 886,245	Total	\$ 845,942	\$ 538,483	63.7%	\$ 307,459
Φ.Ο.	44 - MCF Exec Mgr	Ф 100 042			
\$ 0 0	Active Members Vested Former Members	\$ 122,043 0			
0	Retirees and Beneficiaries	0			
<u>0</u>	Pending Refunds	<u>0</u>			
\$ 0	Total	\$ 122,043	\$ 66,483	54.5%	\$ 55,560
¢ 2 501 204	90 - Asst Pros Attnys	¢ 2.061.670			
\$ 3,521,284 1,464,647	Active Members Vested Former Members	\$ 2,861,679 1,464,647			
965,351	Retirees and Beneficiaries	965,351			
<u>1,463</u>	Pending Refunds	<u>1,463</u>		40	
\$ 5,952,745	Total	\$ 5,293,140	\$ 5,571,035	105.3%	\$ (277,895)

Table 12 (continued)

Termination Liability and Present Value of Accrued Benefits as of December 31, 2003

Termination Liability*	Division	PVAB* Present Value of Accrued Benefits	Valuation Assets	PVAB Percent Funded	Unfunded (Overfunded) PVAB
\$ 52,428 40,069 0 0 0 \$ 92,497	91 - Parks Union Empl Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 56,088 40,069 0 0 0 \$ 96,157	\$ 165,228	171.8%	\$ (69,071)
\$ 986,619 0 0 0 0 \$ 986,619	92 - Parks Non Union Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 724,046 0 0 0 0 0 \$ 724,046	\$ 810,396	111.9%	\$ (86,350)
\$ 111,569 0 0 0 0 \$ 111,569	93 - Lgl Rsrch Clerks Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 96,690 0 0 <u>0</u> \$ 96,690	\$ 138,291	143.0%	\$ (41,601)
\$ 81,167,099 11,563,417 77,390,290 498,548 \$ 170,619,354	Total Municipality Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 71,271,976 11,563,417 77,390,290 498,548 \$ 160,724,231	\$ 150,287,493	93.5%	\$ 10,436,738

^{*} The Termination Liability represents the present value of benefits payable in the event that all active members terminate employment on December 31, 2003, based upon the valuation interest and mortality assumptions. The present value of accrued benefits (PVAB) includes vested and non-vested benefits accrued as of December 31, 2003. For a non-vested active member, the PVAB represents the present value of the non-vested accrued benefit, and may exceed the Termination Liability which represents for that member only the member's accumulated contributions, if any. For some vested active members the Termination Liability may exceed the PVAB, because the Termination Liability assumes that members retire at the earliest possible age for commencement of unreduced deferred benefits, whereas the PVAB assumes continued employment based on actuarial assumptions for retirement, death, disability and withdrawal. Pending refunds represent expected refunds of accumulated member contributions to persons who have terminated membership before becoming eligible for pension benefits.

Table 13

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2003

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
01 -Confidentials Reserve for Employer Contributions and Benefit Payments Active Members Vested Former Members Retirees and Beneficiaries Total Reserve for Employee Contributions Active Members Vested Former Members Pending Refunds Total	\$ 2,852,945 457,762 1,559,987 \$ 4,870,694 \$ 433,297 81,370 1,548 \$ 516,215	\$ 1,715,379 457,762 1,559,987 \$ 3,733,128 \$ 433,297 81,370 1,548 \$ 516,215	60.1% 100.0 100.0 76.6%	\$ 1,137,566 0 0 0 \$ 1,137,566
Division Total 02 -Sheriff FOP Spvs Reserve for Employer Contributions and Benefit Payments Active Members Vested Former Members Retirees and Beneficiaries Total Reserve for Employee Contributions Active Members Vested Former Members Pending Refunds Total Division Total	\$ 5,386,909 \$ 5,538,299 28,084 15,275,182 \$ 20,841,565 \$ 2,732,364 81,758 0 \$ 2,814,122 \$ 23,655,687	\$ 4,249,343 \$ 0 0 11,460,489 \$ 11,460,489 \$ 2,732,364 81,758 0 \$ 2,814,122 \$ 14,274,611	0.0% 0.0 75.0 55.0%	\$ 1,137,566 \$ 5,538,299 28,084 3,814,693 \$ 9,381,076
04 -MCF Reserve for Employer Contributions and Benefit Payments Active Members Vested Former Members Retirees and Beneficiaries Total Reserve for Employee Contributions Active Members Vested Former Members Pending Refunds Total Division Total	\$ 2,945,963 649,166 1,904,964 \$ 5,500,093 \$ 35,921 15,191 148 \$ 51,260 \$ 5,551,353	\$ 1,934,447 649,166 1,904,964 \$ 4,488,577 \$ 35,921 15,191 148 \$ 51,260 \$ 4,539,837	65.7% 100.0 100.0 81.6% 100.0% 81.8%	\$ 1,011,516 0 0 \$ 1,011,516 \$ 0 \$ 1,011,516

Table 13 (continued)

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
09 - Judges Reserve for Employer Contributions				
and Benefit Payments Active Members	\$ 447,190	\$ 0	0.0%	\$ 447,190
Vested Former Members Retirees and Beneficiaries	51,565 642,532	0 523,641	0.0 81.5	51,565 118,891
Total	\$ 1,141,287	\$ 523,641	45.9%	\$ 617,646
Reserve for Employee Contributions Active Members	\$ 13,972	\$ 13,972		
Vested Former Members	12,444	12,444 0		
Pending Refunds Total	\$ 26,416	\$ 26,416	100.0%	\$0
Division Total	\$ 1,167,703	\$ 550,057	47.1%	\$ 617,646
10 -Gnrl Mgmt Reserve for Employer Contributions				
and Benefit Payments Active Members	\$ 14,164,223	\$ 7,624,474	53.8%	\$ 6,539,749
Vested Former Members Retirees and Beneficiaries	945,931 10,272,723	945,931 10,272,723	100.0 100.0	0 0
Total	\$ 25,382,877	\$ 18,843,128	74.2%	\$ 6,539,749
Reserve for Employee Contributions Active Members	\$ 2,487,215	\$ 2,487,215		
Vested Former Members Pending Refunds	268,799 45,776	268,799 <u>45,776</u>		
Total Division Total	\$ 2,801,790 \$ 28,184,667	\$ 2,801,790 \$ 21,644,918	100.0% 76.8%	\$ 0 \$ 6,539,749
11 -Gnrl Library	ψ 20,104,007	Ψ 21,044,710	70.070	Ψ 0,559,749
Reserve for Employer Contributions				
and Benefit Payments Active Members	\$ 0	\$ 0	0.0%	\$0
Vested Former Members Retirees and Beneficiaries	1,426,071 909,935	1,144,064 909,935	80.2 100.0	282,007 <u>0</u>
Total Reserve for Employee Contributions	\$ 2,336,006	\$ 2,053,999	87.9%	\$ 282,007
Active Members	\$0	\$0		
Vested Former Members Pending Refunds	129,980 <u>0</u>	129,980 <u>0</u>		
Total Division Total	\$ 129,980 \$ 2,465,986	\$ 129,980 \$ 2,183,979	100.0% 88.6%	\$ 0 \$ 282,007

Table 13 (continued)

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
12 -Gnrl ICEA Profs Reserve for Employer Contributions				
and Benefit Payments Active Members	\$ 10,958,975	\$ 4,596,604	41.9%	\$ 6,362,371
Vested Former Members	1,465,073	1,465,073	100.0	0
Retirees and Beneficiaries Total	4,005,246 \$ 16,429,294	4,005,246 \$ 10,066,923	100.0 61.3%	\$ 6,362,371
Reserve for Employee Contributions	Ψ 10, π27,27 π	ψ 10,000,723	01.570	Ψ 0,302,371
Active Members	\$ 2,551,738	\$ 2,551,738		
Vested Former Members Pending Refunds	186,575 <u>156,867</u>	186,575 <u>156,867</u>		
Total	\$ 2,895,180	\$ 2,895,180	100.0%	\$ 0
Division Total	\$ 19,324,474	\$ 12,962,103	67.1%	\$ 6,362,371
13 -Gnrl OPEIU Prob Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 5,833,879	\$ 3,591,454	61.6%	\$ 2,242,425
Vested Former Members Retirees and Beneficiaries	357,788 1,647,735	357,788 1,647,735	100.0 100.0	$\begin{array}{c} 0 \\ 0 \end{array}$
Total	\$ 7,839,402	\$ 5,596,977	71.4%	\$ 2,242,425
Reserve for Employee Contributions	¢ 1 010 000	ф 1 010 000		
Active Members Vested Former Members	\$ 1,010,908 37,516	\$ 1,010,908 37,516		
Pending Refunds	<u>0</u>	<u>0</u>		
Total Division Total	\$ 1,048,424 \$ 8,887,826	\$ 1,048,424 \$ 6,645,401	100.0% 74.8%	\$ 0 \$ 2,242,425
14 -Gnrl TOPS UAW Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 19,842,557	\$ 13,694,833	69.0%	\$ 6,147,724
Vested Former Members Retirees and Beneficiaries	1,491,854 13,116,077	1,491,854 <u>13,116,077</u>	100.0 100.0	$0 \\ 0$
Total	\$ 34,450,488	\$ 28,302,764	82.2%	\$ 6,147,724
Reserve for Employee Contributions	\$ 2.781.002	¢ 2 791 002		
Active Members Vested Former Members	\$ 2,781,993 301,287	\$ 2,781,993 301,287		
Pending Refunds	142,352	142,352	100.00/	
Total Division Total	\$ 3,225,632 \$ 37,676,120	\$ 3,225,632 \$ 31,528,396	100.0% 83.7%	\$ 0 \$ 6,147,724

Table 13 (continued)

	Actuarial Accrued	Valuation	Percent	Unfunded (Overfunded) Accrued
Division	Liabilities	Assets	Funded	Liabilities
15 - Animal Cntrl FOP Reserve for Employer Contributions				
and Benefit Payments Active Members	\$ 801,799	\$ 0	0.0%	\$ 801,799
Vested Former Members	76,596	$\begin{bmatrix} & & & & & & & & & & & & & & & & & & &$	0.0	76,596
Retirees and Beneficiaries	865,223	782,328	90.4	82,895
Total	\$ 1,743,618	\$ 782,328	44.9%	\$ 961,290
Reserve for Employee Contributions				
Active Members	\$ 210,318	\$ 210,318		
Vested Former Members	0	0		
Pending Refunds	9,623	9,623	100.0%	Φ.Ω
Total Division Total	\$ 219,941 \$ 1,963,559	\$ 219,941 \$ 1,002,269	51.0%	\$ 0 \$ 961,290
Division Total	\$ 1,903,339	\$ 1,002,209	31.0 /0	\$ 901,290
16 -Gnrl Commsnrs Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 119,531	\$ 57,099	47.8%	\$ 62,432
Vested Former Members	29,125	29,125	100.0	0
Retirees and Beneficiaries	<u>177,334</u>	<u>177,334</u>	100.0	<u>0</u>
Total	\$ 325,990	\$ 263,558	80.8%	\$ 62,432
Reserve for Employee Contributions	¢ 24 100	¢ 24 100		
Active Members	\$ 34,198 7,848	\$ 34,198 7,848		
Vested Former Members Pending Refunds	10,572	10,572		
Total	\$ 52,618	\$ 52,618	100.0%	\$ 0
Division Total	\$ 378,608	\$ 316,176	83.5%	\$ 62,432
17 -ICEA Nurses Reserve for Employer Contributions and Benefit Payments	. ,			,
Active Members	\$ 5,360,379	\$ 3,001,162	56.0%	\$ 2,359,217
Vested Former Members	567,046	567,046	100.0	0
Retirees and Beneficiaries	3,085,185	3,085,185	100.0	0
Total	\$ 9,012,610	\$ 6,653,393	73.8%	\$ 2,359,217
Reserve for Employee Contributions Active Members	\$ 1,799,657	\$ 1,799,657		
Vested Former Members	109,387	109,387		
Pending Refunds	32,112	32,112		
Total	\$ 1,941,156	\$ 1,941,156	100.0%	\$ 0
Division Total	\$ 10,953,766	\$ 8,594,549	78.5%	\$ 2,359,217

Table 13 (continued)

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
18 - ICEA Ct. Prof Reserve for Employer Contributions				
and Benefit Payments Active Members	\$ 2,889,711	\$ 0	0.0%	\$ 2,889,711
Vested Former Members Retirees and Beneficiaries	260,455 5,317,531	165,174 5,317,531	63.4 100.0	95,281 0
Total	\$ 8,467,697	\$ 5,482,705	64.7%	\$ 2,984,992
Reserve for Employee Contributions Active Members	\$ 1,106,594	\$ 1,106,594		
Vested Former Members Pending Refunds	94,380 2,658	94,380 2,658		
Total Division Total	\$ 1,203,632 \$ 9,671,329	\$ 1,203,632 \$ 6,686,337	100.0% 69.1%	\$ 0 \$ 2,984,992
19 - Constitute Officia				
Reserve for Employer Contributions and Benefit Payments	.	h 0 0		A. A. CO. CO.
Active Members Vested Former Members	\$ 1,030,483 0	\$ 660,606 0	64.1% 0.0	\$ 369,877 0
Retirees and Beneficiaries Total	748,313 \$ 1,778,796	748,313 \$ 1,408,919	100.0 79.2%	\$ 369,877
Reserve for Employee Contributions Active Members	\$ 293,018	\$ 293,018	7,51,273	φ 2 03 , 0 7 7
Vested Former Members	0	0		
Pending Refunds Total	\$ 293,018	\$ 293,018	100.0%	\$ 0
Division Total	\$ 2,071,814	\$ 1,701,937	82.1%	\$ 369,877
21 -FOP Shrf Deputies Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 9,254,368	\$ 2,787,385	30.1%	\$ 6,466,983
Vested Former Members Retirees and Beneficiaries	319,419 <u>13,713,804</u>	319,419 <u>13,713,804</u>	100.0 100.0	0 <u>0</u>
Total Reserve for Employee Contributions	\$ 23,287,591	\$ 16,820,608	72.2%	\$ 6,466,983
Active Members Vested Former Members	\$ 4,402,038 102,031	\$ 4,402,038 102,031		
Pending Refunds	20,920	<u>20,920</u>	100.00/	4.0
Total Division Total	\$ 4,524,989 \$ 27,812,580	\$ 4,524,989 \$ 21,345,597	100.0% 76.7%	\$ 0 \$ 6,466,983

Table 13 (continued)

	Actuarial Accrued	Valuation	Percent	Unfunded (Overfunded) Accrued
Division	Liabilities	Assets	Funded	Liabilities
40 -ICEA Unit 111 Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 756,151	\$ 532,981	70.5%	\$ 223,170
Vested Former Members	157,336	157,336	100.0	0
Retirees and Beneficiaries Total	2,015,445 \$ 2,928,932	2,015,445 \$ 2,705,762	100.0 92.4%	\$ 223,170
Reserve for Employee Contributions	\$ 2,920,932	\$ 2,703,702	<i>72.</i> 470	\$ 223,170
Active Members	\$ 146,163	\$ 146,163		
Vested Former Members	37,430	37,430		
Pending Refunds	\$ 223,305	\$ 223,305	100.0%	\$ 0
Total Division Total	\$ 3,152,237	\$ 2,929,067	92.9%	\$ 223,170
41 -MCF Management Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 713,907	\$ 677,416	94.9%	\$ 36,491
Vested Former Members	192,729	192,729	100.0	0
Retirees and Beneficiaries Total	\$ 1,380,740	474,104 \$ 1,344,249	100.0 97.4%	\$ 36,491
Reserve for Employee Contributions	ψ 1,360,740	\$ 1,544,247	<i>71.</i> 4 70	φ 50,471
Active Members	\$ 55,736	\$ 55,736		
Vested Former Members	29,115	29,115		
Pending Refunds Total	\$85 \$85,736	885 \$ 85,736	100.0%	\$ 0
Division Total	\$ 1,466,476	\$ 1,429,985	97.5%	\$ 36,491
42 -ICEA Unit 11 Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 308,011	\$ 184,061	59.8%	\$ 123,950
Vested Former Members	26,048	26,048	100.0	0
Retirees and Beneficiaries Total	97,095 \$ 431,154	97,095 \$ 307,204	100.0 71.3%	\$ 123,950
Reserve for Employee Contributions	Ψ 131,137	Ψ 301,204	71.570	Ψ 123,730
Active Members	\$ 73,313	\$ 73,313		
Vested Former Members	8,091	8,091		
Pending Refunds	24,407 \$ 105,811	24,407 \$ 105,811	100.0%	\$ 0
Total Division Total	\$ 103,811 \$ 536,965	\$ 103,811 \$ 413,015	76.9%	\$ 123,950

Table 13 (continued)

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
43 -ICEA Unit 1 Reserve for Employer Contributions		125500	1 411444	
and Benefit Payments Active Members Vested Former Members	\$ 250,911 26,205	\$ 0 0	0.0% 0.0	\$ 250,911 26,205
Retirees and Beneficiaries Total Reserve for Employee Contributions	\$ 873,640	\$\frac{454,531}{\$454,531}	76.2 52.0%	141,993 \$ 419,109
Active Members Vested Former Members Pending Refunds	\$ 47,201 27,246 9,505	\$ 47,201 27,246 <u>9,505</u>		
Total Division Total	\$ 83,952 \$ 957,592	\$ 83,952 \$ 538,483	100.0% 56.2%	\$ 0 \$ 419,109
44 -MCF Exec Mgr Reserve for Employer Contributions and Benefit Payments				
Active Members Vested Former Members Retirees and Beneficiaries	\$ 162,962 0 0	\$ 66,483 0 0	40.8% 0.0 0.0	\$ 96,479 0 0
Total Reserve for Employee Contributions	\$ 162,962	\$ 66,483	40.8%	\$ 96,479
Active Members Vested Former Members Pending Refunds	\$ 0 0 <u>0</u>	\$ 0 0 <u>0</u>		
Total Division Total	\$ 0 \$ 162,962	\$ 0 \$ 66,483	0.0% 40.8%	\$ 0 \$ 96,479
90 - Asst Pros Attnys Reserve for Employer Contributions and Benefit Payments				
Active Members Vested Former Members	\$ 4,188,968 1,279,161	\$ 2,933,271 1,279,161	70.0% 100.0	\$ 1,255,697 0
Retirees and Beneficiaries Total Reserve for Employee Contributions	965,351 \$ 6,433,480	\$ 5,177,783	100.0 80.5%	\$ 1,255,697
Active Members Vested Former Members Pending Refunds	\$ 206,303 185,486 1,463	\$ 206,303 185,486 1,463		
Total Division Total	\$ 393,252 \$ 6,826,732	\$ 393,252 \$ 5,571,035	100.0% 81.6%	\$ 0 \$ 1,255,697

Table 13 (continued)

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
91 -Parks Union Empl Reserve for Employer Contributions and Benefit Payments	4.0.1.0.10	4.44.4.50	100 -	4 (0.10)
Active Members Vested Former Members Retirees and Beneficiaries	\$ 124,249 40,069 0	\$ 125,159 40,069 \$ 165,220	100.7% 100.0 0.0	\$ (910) 0 <u>0</u> \$ (910)
Total Reserve for Employee Contributions Active Members	\$ 164,318 \$ 0	\$ 165,228 \$ 0	100.6%	\$ (910)
Vested Former Members Pending Refunds Total Division Total	0 0 \$ 0 \$ 164,318	0 0 \$0 \$165,228	0.0% 100.6%	\$ 0 \$ (910)
92 -Parks Non Union Reserve for Employer Contributions	ΨΙΟΊΩΙΟ	Ψ 100,220	200070	* (710)
and Benefit Payments Active Members Vested Former Members	\$ 940,515 0	\$ 757,296 0	80.5% 0.0	\$ 183,219 0
Retirees and Beneficiaries Total Reserve for Employee Contributions	\$ 940,515	\$ 757,296	0.0 80.5%	\$ 183,219
Active Members Vested Former Members Pending Refunds	\$ 53,100 0 0	\$ 53,100 0 0	100.004	
Total Division Total	\$ 53,100 \$ 993,615	\$ 53,100 \$ 810,396	100.0% 81.6%	\$ 0 \$ 183,219
93 -Lgl Rsrch Clerks Reserve for Employer Contributions and Benefit Payments				
Active Members Vested Former Members Retirees and Beneficiaries	\$ 134,616 0 <u>0</u>	\$ 138,291 0 <u>0</u>	102.7% 0.0 0.0	\$ (3,675) 0 <u>0</u>
Total Reserve for Employee Contributions Active Members	\$ 134,616 \$ 0	\$ 138,291 \$ 0	102.7%	\$ (3,675)
Vested Former Members Pending Refunds Total	0 <u>0</u> \$ 0	0 <u>0</u> \$ 0	0.0%	\$ 0
Division Total	\$ 134,616	\$ 138,291	102.7%	\$ (3,675)

Table 13 (continued)

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
Municipality Totals				
Reserve for Employer Contributions				
and Benefit Payments				
Active Members	\$ 89,620,592	\$ 45,078,401	50.3%	\$ 44,542,191
Vested Former Members	9,847,483	9,287,745	94.3	559,738
Retirees and Beneficiaries	<u>77,390,290</u>	<u>73,231,818</u>	94.6	<u>4,158,472</u>
Total	\$ 176,858,365	\$ 127,597,964	72.1%	\$ 49,260,401
Reserve for Employee Contributions				
Active Members	\$ 20,475,047	\$ 20,475,047		
Vested Former Members	1,715,934	1,715,934		
Pending Refunds	<u>498,548</u>	<u>498,548</u>		
Total	\$ 22,689,529	\$ 22,689,529	100.0%	\$ 0
Municipality Total	\$ 199,547,894	\$ 150,287,493	75.3%	\$ 49,260,401

Table 14
Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
1989	\$ 52,525,297	\$ 64,949,909	124%	\$(12,424,612)	0%
1990	61,520,840	71,084,865	116	(9,564,025)	0
1991	69,567,734	79,736,359	115	(10,168,625)	0
1992	47,237,433	50,968,120	108	(3,730,687)	0
1993	66,392,574	52,687,283	79	13,705,291	42
1994	82,445,154	56,238,777	68	26,206,377	76
1995	91,267,612	62,529,929	69	28,737,683	82
1996	100,596,375	70,095,587	70	30,500,788	83
1997	113,279,199	83,334,248	74	29,944,951	81
1998	129,697,752	95,427,165	74	34,270,587	84
1999	137,512,089	111,156,340	81	26,355,749	64
2000	152,754,990	123,308,414	81	29,446,576	68
2001	165,645,014	133,055,221	80	32,589,793	73
2002	183,747,506	138,299,599	75	45,447,907	96
2003	199,547,894	150,287,493	75	49,260,401	99

Notes:

Actuarial assumptions were revised for the 1993, 1997 and 2000 actuarial valuations. The funding method was changed to entry age normal for the 1993 valuation.

Table 15

Computed Employer Contributions to the Retirement System

For the Fiscal Year Beginning January 1, 2005

	Emplo	yer Contribu	tions @
		Unfunded	Total Required
	Normal	Accrued	Employer
Division	Cost	Liability #	Contribution
Percentage of Payroll			
01 - Confidentials	6.88%	4.52%	11.40%
02 - Sheriff FOP Spvs	(2.02)%	24.45%	22.43%
04 - MCF	5.58%	1.68%	7.26%
09 - Judges	9.63%	20.12%	29.75%
10 - Gnrl Mgmt	6.20%	6.10%	12.30%
11 - Gnrl Library	-%	-%	-%
12 - Gnrl ICEA Profs	2.07%	5.90%	7.97%
13 - Gnrl OPEIU Prob	1.84%	6.63%	8.47%
14 - Gnrl TOPS UAW	7.51%	2.84%	10.35%
15 - Animal Cntrl FOP	0.32%	15.62%	15.94%
16 - Gnrl Commsnrs	5.47%	2.08%	7.55%
17 - ICEA Nurses	4.47%	4.07%	8.54%
18 - ICEA Ct. Prof	3.08%	8.27%	11.35%
19 - Cnstutnl Offels	5.34%	3.97%	9.31%
21 - FOP Shrf Deputies	4.57%	5.11%	9.68%
40 - ICEA Unit 111	5.98%	1.25%	7.23%
41 - MCF Management	8.81%	0.26%	9.07%
42 - ICEA Unit 11	6.59%	1.92%	8.51%
43 - ICEA Unit 1	6.28%	10.11%	16.39%
44 - MCF Exec Mgr	18.24%	4.77%	23.01%
90 - Asst Pros Attnys	10.14%	3.49%	13.63%
91 - Parks Union Empl	8.08%	(0.06)%	8.02%
92 - Parks Non Union	7.47%	5.27%	12.74%
93 - Lgl Rsrch Clerks	6.91%	(0.20)%	6.71%

Table 15 (continued)

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Emplo	ye	r Contribu	tio	ns @
		J	J nfunded	To	otal Required
	Normal		Accrued		Employer
Division	Cost	L	Liability #	(Contribution
Estimated Monthly Contribution*					
01 - Confidentials	\$ 7,747	\$	5,089	\$	12,836
02 - Sheriff FOP Spvs	(3,463)		41,922		38,459
04 - MCF	15,055		4,533		19,588
09 - Judges	1,321		2,760		4,081
10 - Gnrl Mgmt	29,709		29,230		58,939
11 - Gnrl Library	0		1,375		1,375
12 - Gnrl ICEA Profs	9,979		28,444		38,423
13 - Gnrl OPEIU Prob	2,780		10,016		12,796
14 - Gnrl TOPS UAW	72,692		27,489		100,181
15 - Animal Cntrl FOP	88		4,295		4,383
16 - Gnrl Commsnrs	735		279		1,014
17 - ICEA Nurses	11,574		10,538		22,112
18 - ICEA Ct. Prof	4,968		13,340		18,308
19 - Cnstutnl Offcls	2,223		1,653		3,876
21 - FOP Shrf Deputies	25,865		28,921		54,786
40 - ICEA Unit 111	4,785		1,000		5,785
41 - MCF Management	5,588		165		5,753
42 - ICEA Unit 11	1,905		555		2,460
43 - ICEA Unit 1	1,164		1,873		3,037
44 - MCF Exec Mgr	1,647		431		2,078
90 - Asst Pros Attnys	16,286		5,605		21,891
91 - Parks Union Empl	1,241		(10)		1,231
92 - Parks Non Union	1,161		819		1,980
93 - Lgl Rsrch Clerks	1,265		(36)		1,229
Total Municipality	\$ 216,315	\$	220,286	\$	436,601
Estimated Annual Contribution*					
Total Municipality	\$ 2,595,780	\$2,	,643,432	\$	5,239,212

[@] The above Employer contribution requirements are in addition to the Member contributions, if any, shown in Table 1.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] The amortization method and period are described in Table 16 for each division.

Division 01 - Confidentials

Table 16A

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	6.88%	\$7,747
Amortization of Unfunded Accrued Liability (30 years)	4.52	<u>5,089</u>
Total Long Term Contribution	11.40	12,836
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	11.40%	\$12,836

The above Employer contribution requirement is based on Member contributions of 5.36% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.90% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 01 - Confidentials

Table 17A

Computed Employer Contributions - Comparative Statement

				ontribution as of Payroll
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1989	142	\$ 3,433,518	9.10%	0.00%
1990	87	2,401,545	8.60	0.00
1991	72	2,255,242	10.50	0.00
1992	71	2,356,550	10.10	2.20
1993	29	826,648	10.95	4.62
1994	25	782,010	12.74	6.65
1995	25	747,190	17.53	12.66
1996	27	868,169	12.91	11.91
1997	29	895,532	11.16	11.16
1998	30	1,002,675	10.29	10.29
1999	31	1,068,662	9.46	9.46
2000	33	1,167,155	8.45	8.45
2001	34	1,238,366	8.94	8.94
2002	32	1,178,762	12.14	12.14
2003	34	1,351,175	11.40	11.40

Notes: Adoption of Benefits C-2 and F55 (15 years) reflected in 1991 valuation.

Adoption of Benefits C 2 and 133 (13 years) reflected in 1991 valuation. Adoption of Benefit V-6 reflected in 1992 valuation. Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit B-3 and 4.5% member contributions reflected in 1994.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit FAC-3, B-4 - 80% Maximum, 5.36% Member Contributions reflected in 2002 valuation.

Division 01 - Confidentials

Table 18A
Flow of Active Membership

Year Ended 12/31	Retired	`		Termination Non-Vested	Tran Out	nsfer In	New Member	End of Year
2001 2002 2003	(1) (1)		(1) (1) (1)	(1) (2)	(2) (2)	3 2	1 3 4	34 32 34

Table 19A
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1)			(1)	(32)	1	3 1 1	13 13 12

Table 20A
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	S	Removed from Rolls			Removed from Rolls Year End			ear End
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits		
2001 2002 2003	1 2 1	\$ 3,457 42,414 25,088	\$	(1) (3) (15)	\$ (1,149) (15,183) (65,830)	\$ (2,835)	37 36 22	\$ 169,678 194,074 153,332		

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 01 - Confidentials

Table 21A
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 116,795 132,207 151,966	\$ 55,393 67,918 75,729	\$ 283,566 112,514 327,767	\$ (168,952) (180,958) (199,432)	(4,268)	(146,120)	0	\$ 4,149,727 4,131,020 4,249,343

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22A

Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrue Liabiliti		Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 4,916	,662	4,149,727	84%	\$ 766,620	62%
2002	5,306		4,131,020	78	1,175,642	100
2003	5,386		4,249,343	79	1,137,566	84

Division 02 - Sheriff FOP Spvs

Table 16B

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	(2.02)%	\$(3,463)
Amortization of Unfunded Accrued Liability (30 years)	<u>24.45</u>	41,922
Total Long Term Contribution	22.43	38,459
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	22.43%	\$38,459

[@] The above Employer contribution requirement is based on Member contributions of 19.61% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.82% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 02 - Sheriff FOP Spvs

Table 17B

Computed Employer Contributions - Comparative Statement

			1	ontribution as of Payroll
Valuation Date December 31,	Active Number	e Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	149 161 172 28 28 28 34 28 28 30 30 30 30	\$ 4,442,989 4,918,912 5,840,591 1,371,663 1,343,669 1,665,399 1,421,507 1,446,119 1,609,357 1,699,826 1,703,939 1,735,265 1,858,730	10.30% 10.30 9.50 13.80 9.71 8.76 13.89 14.07 17.78 19.86 18.03 19.84 20.07	0.00% 0.00 0.00 3.10 4.10 4.58 10.03 12.98 17.78 19.86 18.02 19.83 20.07
2001 2002 2003	32 32 32	1,838,730 1,964,293 2,057,522	21.52 22.43	21.52 22.43

Adoption of Benefit F50 (25 years) reflected in 1989 valuation. Notes:

Adoption of 1% member contributions reflected in 1989 valuation.

Adoption of 1.85% member contributions reflected in 1992 valuation.

Adoption of Benefit B-3 reflected in 1992 valuation.

Adoption of 6.45% member contributions reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E reflected in 1993 valuation.

Adoption of 10.45% member contributions reflected in 1994 valuation. Adoption of Benefits B-4, FAC-3 and 25 years and Out reflected in 1994.

Adoption of Benefit 3.2% multiplier and 19.61% member contributions reflected in 1997 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 02 - Sheriff FOP Spvs

Table 18B Flow of Active Membership

Year Ended 12/31	Retired	3		Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003	(1) (2) (2)		(1)			2 3 3		31 32 32

Table 19B
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1)				(4)	1	1	2 1 2

Table 20B
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	ls	Rem	oved from Rolls		Y	ear End
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001 2002 2003	1 3 3	\$ 46,610 97,241 94,123	\$ 4,130	(2) (5)	\$ (27,413) (27,410)	\$ (1,124) (16,272)	46 49 47	\$ 1,232,024 1,317,123 1,383,836

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 02 - Sheriff FOP Spvs

Table 21B
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 335,049 396,280 412,747	\$ 364,516 391,201 403,045	\$ 988,337 416,706 961,220	\$ (1,220,618) (1,276,451) (1,391,782)	0	\$ 0 0 (105,653)	138,170	\$ 13,829,148 13,895,054 14,274,611

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Actuarial Accrued Liabilities - Comparative Schedule

Table 22B

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001 2002 2003	\$ 21,466,776 22,500,406 23,655,687	\$ 13,829,148 13,895,054 14,274,611	64% 62 60	\$ 7,637,628 8,605,352 9,381,076	411% 438 456

Division 04 - MCF

Table 16C

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	5.58%	\$15,055
Amortization of Unfunded Accrued Liability (30 years)	<u>1.68</u>	<u>4,533</u>
Total Long Term Contribution	7.26	19,588
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	7.26%	\$19,588

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.84% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 04 - MCF

Table 17C

Computed Employer Contributions - Comparative Statement

Date December 31, Number Annual Payroll Regular Contribution Requestion 1989 167 \$ 1,599,788 7.20% 1990 180 1,895,478 6.80 1991 176 1,966,913 6.80 1992 190 2,192,337 6.80 1993 176 2,221,453 4.87 1994 173 2,282,795 5.85 1995 178 2,362,440 5.95					ontribution as of Payroll
1990 180 1,895,478 6.80 1991 176 1,966,913 6.80 1992 190 2,192,337 6.80 1993 176 2,221,453 4.87 1994 173 2,282,795 5.85 1995 178 2,362,440 5.95	Date		Annual	O	Minimum Required Contribution
1997 153 2,185,568 6.04 1998 128 2,542,201 5.73 1999 116 2,227,648 5.07 2000 123 2,410,936 5.66 2001 121 2,583,257 7.67	1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	180 176 190 176 173 178 165 153 128 116 123 121	\$ 1,599,788 1,895,478 1,966,913 2,192,337 2,221,453 2,282,795 2,362,440 2,376,442 2,185,568 2,542,201 2,227,648 2,410,936 2,583,257	6.80 6.80 6.80 4.87 5.85 5.95 5.91 6.04 5.73 5.07 5.66 7.67	0.00% 0.00 0.00 1.50 2.06 3.05 4.30 5.45 6.04 5.73 5.07 5.66 6.60 7.02

Notes: Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Division 04 - MCF

Table 18C Flow of Active Membership

Year Ended 12/31	Retired		'		Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003	(1)	(1)	,	(5) (1) (2)	(33) (38) (25)	(1)		37 35 43	121 115 131

Table 19C Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(2) (1)	(1)		(2) (7)			9 2 2	37 32 32

Table 20C
Flow of Retirees and Beneficiaries

Year	Added to Rolls			Removed from Rolls			Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003	4 1 2	\$ 21,035 3,602 8,898	\$	(4) (4) (4)	\$ (12,747) (21,575) (10,593)	\$	71 68 66	\$ 249,151 231,178 229,483	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 04 - MCF

Table 21C
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 134,202 158,819 208,400	\$ 582 624 191	\$ 298,955 129,958 328,562	\$ (248,568) (231,899) (244,844)	0	\$ 0 (13,543) 0	\$ 0 0 0	\$ 4,203,569 4,247,528 4,539,837

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22C

Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 5,186,800	\$ 4,203,569	81%	\$ 983,231	38%
2002	5,222,062	4,247,528	81	974,534	38
2003	5,551,353	4,539,837	82	1,011,516	31

Division 09 - Judges

Table 16D

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

Employer Co	ntribution @
As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
9.63%	\$1,321
<u>20.12</u>	<u>2,760</u>
29.75	4,081
0.00	<u>0</u>
29.75%	\$4,081
	As Percentage of Active Member Payroll 9.63% 20.12 29.75 0.00

[@] The above Employer contribution requirement is based on Member contributions of 3.14% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.88% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 09 - Judges

Table 17D

Computed Employer Contributions - Comparative Statement

				ontribution as of Payroll
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1993	17	\$ 391,399	8.36%	3.53%
1994 1995	16 16	323,312 362,941	10.09 9.38	5.27 6.78
1996 1997	19 10	463,138 266,864	9.21 17.37	8.50 17.37
1998	13	351,771	15.07	15.07
1999 2000	10	282,700 235,139	14.89 11.60	14.89 11.59
2001	7	196,106	19.80	19.80
2002	5	137,270	32.09	32.09
2003	6	164,604	29.75	29.75

Actuarial assumptions were revised for the 1993 valuation. Notes:

Adoption of Benefits B-3, V-6 and F55 (15 years) reflected in 1997 valuation. Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit B-4 - 80% Maximum, 3.14% Member Contributions reflected in 2002 valuation.

Division 09 - Judges

Table 18D Flow of Active Membership

Year Ended	Datinad		3		Termination	Trai	-		End of
2001 2002 2003	(2)	Disabled	Dellettt)	vesteu	Non-Vested (1)	Out	In	Member 1 1	7 5 6

Table 19D
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer Out In		New	End of Year
2001 2002 2003				(1)	(1)	1	1	1 1 2

Table 20D
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	S	Removed from Rolls			Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003	3	\$ 43,009 3,569	\$	(1)	\$ (5,642)	\$	3 5 6	\$ 20,722 58,089 61,658	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 09 - Judges

Table 21D
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contributions				Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 29,200 22,269 32,592	\$ 0 6,030 5,164	\$ 29,735 19,372 37,420	\$ (20,722) (17,666) (58,089)	0	\$ (281,056) 0 0	\$ 284,731 0 17,575	\$ 485,390 515,395 550,057

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Actuarial Accrued Liabilities - Comparative Schedule

Table 22D

Valuation Date December		Accrued Liabilities	Valuation Assets	Funded Percent	Jnfunded Accrued Liability	P	UAL as ercent of Annual Payroll
2001 2002 2003	\$	815,236 1,097,589 1,167,703	\$ 485,390 515,395 550,057	60% 47 47	\$ 329,846 582,194 617,646		168% 424 375

Division 10 - Gnrl Mgmt

Table 16E

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	6.20%	\$29,709
Amortization of Unfunded Accrued Liability (30 years)	<u>6.10</u>	<u>29,230</u>
Total Long Term Contribution	12.30	58,939
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	12.30%	\$58,939

The above Employer contribution requirement is based on Member contributions of 6.39% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.90% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 10 - Gnrl Mgmt

Table 17E

Computed Employer Contributions - Comparative Statement

				ontribution as of Payroll
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1989	73	\$ 3,043,824	8.80%	0.00%
1990	72	3,199,113	10.70	0.00
1991	69	3,160,627	10.90	0.00
1992	68	3,274,274	11.00	2.40
1993	70	3,428,088	9.31	3.93
1994	74	3,747,657	10.18	5.31
1995	71	3,782,835	10.30	7.44
1996	70	3,881,443	10.92	10.07
1997	68	3,972,349	9.47	9.47
1998	67	4,047,946	9.34	9.34
1999	76	4,643,352	8.30	8.30
2000	73	4,632,650	8.78	8.78
2001	80	5,215,460	9.27	9.27
2002	79	5,392,347	12.75	12.75
2003	81	5,750,099	12.30	12.30

Notes: Adoption of 1% member contributions reflected in 1990 valuation.

Adoption of Benefit V-6 reflected in 1992 valuation.

Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit B-3 and 5% member contributions reflected in 1994.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit FAC-3, B-4 - 80% Maximum, 6.39% Member Contributions reflected in 2002 valuation.

Division 10 - Gnrl Mgmt

Table 18E
Flow of Active Membership

Year Ended 12/31	Retired	3		Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003	(7)		(3) (2) (1)	(2) (1) (1)	(2)	6 5 2	8 4 2	80 79 81

Table 19E Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(2) (1)			(2)		2	4 2 1	20 18 18

Table 20E
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	ls	Rem	Removed from Rolls Year End			ear End
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001 2002 2003	1 10 1	\$ 11,706 337,308 40,556	\$	(4) (2)	\$ (71,514) (15,869)	\$ (3,507) (3,105)	44 50 49	\$ 752,492 1,018,286 1,039,868

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 10 - Gnrl Mgmt

Table 21E
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contributions		Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 426,804 599,686 648,062	\$ 257,085 351,366 363,306	\$ 1,363,992 739,404 1,677,545	\$ (744,291) (924,941) (1,018,375)	(20,244)	0	\$ 180,151 192,958 218,524	\$ 18,823,795 19,762,024 21,644,918

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22E Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001 2002 2003	\$ 22,378,557 26,400,949 28,184,667	\$ 18,823,795 19,762,024 21,644,918	84% 75 77	\$ 3,554,762 6,638,925 6,539,749	68% 123 114

Division 11 - Gnrl Library

Table 16F

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	0.00%	\$0
Amortization of Unfunded Accrued Liability (26 years)	0.00	<u>1,375</u>
Total Long Term Contribution	0.00	1,375
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	0.00%	\$1,375

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 26 year amortization) will decrease/increase by 0.00% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 11 - Gnrl Library

Table 17F

Computed Employer Contributions - Comparative Statement

			1 0	ontribution as of Payroll			
Valuation Date December 31,	Active Number	e Members Annual Payroll	Regular Contribution	Minimum Required Contribution			
1989 1990	47 44	\$ 690,914 726,866	9.50% 9.60	0.00% 0.00			
1991	84	2,332,009	9.20	0.00			
1992 1993	84 39	2,540,610 778,240	9.40 8.53	2.10 3.60			
1994	38	787,259	9.55	4.99 7.26			
1995 1996	36 41	783,940 811,292	10.06 9.94	7.26 9.16			
1997 1998	35 25	717,473 738,984	8.81 10.99	8.81 10.99			
1999	24	733,396	10.20	10.20			
2000 2001	23	718,540	9.86	9.86 -			
2002 2003	0	0		- -			

Notes: Actuarial assumptions were revised for the 1993 valuation.

Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Division 11 - Gnrl Library

Table 18F Flow of Active Membership

Year Ended 12/31	Retired	'		Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003			(22)	(1)				0 0 0

Table 19F Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1) (1)			(1)			24	31 29 29

Table 20F
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	S	Rem	oved from l	Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001 2002 2003	1 2	\$ 4,206 5,913	\$	(1) (1)	\$ (3,724) (1,541)	\$	20 21 21	\$ 95,499 99,871 99,871

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 11 - Gnrl Library

Table 21F
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contributions		Ir	nvestment	Benefit		Member Contrib.		Transfer*							
12/31	Emplo	yer	M	ember		Income	P	Payments		Refunds		Out		In		Balance
2001 2002 2003		726 787 0	\$	0 0 0	\$	156,633 53,795 145,855	\$	(90,139) (98,414) (99,871)		0 0 0	\$	0 0 0	\$		0 0 0	\$ 2,179,827 2,137,995 2,183,979

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Actuarial Accrued Liabilities - Comparative Schedule

Table 22F

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 2,303,218	\$ 2,179,827	95%	\$ 123,391	%
2002	2,380,510	2,137,995	90	242,515	
2003	2,465,986	2,183,979	89	282,007	

Division 12 - Gnrl ICEA Profs

Table 16G

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	2.07%	\$9,979
Amortization of Unfunded Accrued Liability (30 years)	<u>5.90</u>	<u>28,444</u>
Total Long Term Contribution	7.97	38,423
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	7.97%	\$38,423

[@] The above Employer contribution requirement is based on Member contributions of 13.42% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.86% of pay.

Note: A change in benefit provisions and/or member contributions was reflected in the actuarial valuation (see Table 1). The effects of the change(s), as it relates to the benefits of current and future active members, are shown below:

Increase in Actuarial Accrued Liabilities: \$688,820

Increase in Computed Long Term
Employer Contribution As a Percentage
of Active Member Payroll

Normal Cost: (4.60)%

Amortization Payment: 0.64%

Total: (3.96)%

The full effects of the changes, if any, on the benefits of current retirees and beneficiaries, and the effect of any window benefit provisions are included in the liabilities of retirees and beneficiaries.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 12 - Gnrl ICEA Profs

Table 17G

Computed Employer Contributions - Comparative Statement

				ontribution as of Payroll
Valuation Date December 31,	Active Number	e Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	130 183 147 155 93 99 92 104 107 111 107 113	\$ 3,588,309 5,066,968 4,189,841 4,724,713 3,044,030 3,259,462 3,079,949 3,723,923 3,696,908 4,375,372 4,249,788 4,575,833 5,161,093	8.30% 8.90 9.90 9.50 7.04 7.54 7.88 8.14 6.39 6.32 5.42 6.38 6.98	0.00% 0.00 0.00 2.10 2.97 3.94 5.69 7.51 6.39 6.32 5.42 6.38 6.98
2002 2003	132 123	6,004,201 5,785,130	11.69 7.97	11.69 7.97

Notes: Adoption of 0.9% (0.7% for some) member contributions reflected in 1990.

Adoption of Benefit C-2 (B-1 base) for some members reflected in 1991.

Adoption of 1.1% member contributions for some members reflected in 1991.

Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit B-3 reflected in 1994 valuation.

Adoption of Benefit F55 (15 years) and 6.08% member contributions reflected in 1996 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit E-2 (2.5%) reflected in 2002 valuation.

Adoption of Benefit B-4 - 80% Maximum, 13.42% Member Contributions reflected in 2003 valuation.

Division 12 - Gnrl ICEA Profs

Table 18G
Flow of Active Membership

Year Ended 12/31	Retired	'		Termination Non-Vested	Tran Out	nsfer In	New Member	End of Year
2001 2002 2003	(1) (1) (6)		(6) (2)	(9) (6) (12)	(1)	4	30 11 8	130 132 123

Table 19G Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1)	(1)		(1) (4) (1)	(1)	7	7 2	30 26 25

Table 20G
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	ls	Rem	oved from l	Rolls	Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003	2 3 10	\$ 10,185 36,169 167,032	\$ 345	(2) (1)	\$ (21,434) (26,919)	\$	19 20 29	\$ 230,384 245,119 385,232	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 12 - Gnrl ICEA Profs

Table 21G
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 276,700 391,596 414,893	\$ 310,813 373,448 798,687	\$ 742,356 498,430 1,112,729	\$ (222,486) (228,904) (338,999)	(40,116)	(1,063)	,	\$ 9,918,034 10,953,881 12,962,103

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22G

Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 12,197,172	\$ 9,918,034	81%	\$ 2,279,138	44%
2002	16,574,719	10,953,881	66	5,620,838	94
2003	19,324,474	12,962,103	67	6,362,371	110

Division 13 - Gnrl OPEIU Prob

Table 16H

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	1.84%	\$2,780
Amortization of Unfunded Accrued Liability (30 years)	<u>6.63</u>	<u>10,016</u>
Total Long Term Contribution	8.47	12,796
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	8.47%	\$12,796

[@] The above Employer contribution requirement is based on Member contributions of 9.71% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.85% of pay.

Note: A change in benefit provisions and/or member contributions was reflected in the actuarial valuation (see Table 1). The effects of the change(s), as it relates to the benefits of current and future active members, are shown below:

Increase in Actuarial Accrued Liabilities: \$409,070

Increase in Computed Long Term
Employer Contribution As a Percentage
of Active Member Payroll

Normal Cost: (1.19)%

Amortization Payment: 1.21%

The full effects of the changes, if any, on the benefits of current retirees and beneficiaries, and the effect of any window benefit provisions are included in the liabilities of retirees and beneficiaries.

0.02%

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 13 - Gnrl OPEIU Prob

Table 17H

Computed Employer Contributions - Comparative Statement

				ontribution as of Payroll
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	39 37 47 46 36 37 37 38 38 38 38 38	\$ 1,108,087 1,120,341 1,376,534 1,481,775 1,224,600 1,324,328 1,421,577 1,517,127 1,586,848 1,635,036 1,582,996 1,718,096 1,851,347	9.20% 8.70 8.50 8.70 7.93 10.29 10.34 10.17 9.21 9.07 8.19 6.62 6.91	0.00% 0.00 0.00 1.90 3.35 5.37 7.47 9.38 9.21 9.07 8.18 6.62 6.91
2002 2003	36 36	1,843,133 1,812,911	8.57 8.47	8.57 8.47

Notes: Adoption of 1.88% member contributions reflected in 1990 valuation.

Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit C-2 (B-1 Base) reflected in 1994 valuation.

Adoption of Benefit B-3 and 7.13% member contributions reflected in 1997 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit FAC-3 reflected in 2002 valuation.

Adoption of Benefit B-4 - 80% Maximum, 9.71% Member Contributions reflected in 2003 valuation.

Division 13 - Gnrl OPEIU Prob

Table 18H Flow of Active Membership

Year Ended 12/31	Retired		,	Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003	(1) (1)	(1)			(2) (1) (2)	2	4	38 36 36

Table 19H Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1)					2		8 8 7

Table 20H
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	S	Rem	oved from l	Rolls	Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003	1 3	\$ 16,507 59,897	\$		\$	\$	5 6 9	\$ 72,984 89,491 149,388	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 13 - Gnrl OPEIU Prob

Table 21H
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 150,011 130,566 153,055	\$ 130,848 135,002 158,368	\$ 441,623 248,803 462,872	\$ (72,984) (88,116) (101,452)	0	\$ 0 (18,908) (241,653)		\$ 5,806,864 6,214,211 6,645,401

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22H Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001 2002 2003	\$ 7,277,059 8,088,136 8,887,826	\$ 5,806,864 6,214,211 6,645,401	80% 77 75	\$ 1,470,195 1,873,925 2,242,425	79% 102 124

Division 14 - Gnrl TOPS UAW

Table 16I

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	7.51%	\$72,692
Amortization of Unfunded Accrued Liability (30 years)	<u>2.84</u>	<u>27,489</u>
Total Long Term Contribution	10.35	100,181
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	10.35%	\$100,181

[@] The above Employer contribution requirement is based on Member contributions of 3.62% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.86% of pay.

Note: A change in benefit provisions and/or member contributions was reflected in the actuarial valuation (see Table 1). The effects of the change(s), as it relates to the benefits of current and future active members, are shown below:

Increase in Actuarial Accrued Liabilities: \$1,498,041

Increase in Computed Long Term Employer Contribution As a Percentage of Active Member Payroll

Normal Cost: (0.64)%

Amortization Payment: 0.69%

Total: 0.05%

The full effects of the changes, if any, on the benefits of current retirees and beneficiaries, and the effect of any window benefit provisions are included in the liabilities of retirees and beneficiaries.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 14 - Gnrl TOPS UAW

Table 17I **Computed Employer Contributions - Comparative Statement**

			1 0	ontribution as of Payroll
Valuation Date December 31,	Active Number	e Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1989	318	\$ 6,076,867	8.20%	0.00%
1990	314	6,544,556	10.10	0.00
1991	330	6,997,120	10.20	0.00
1992	336	7,457,762	10.40	2.30
1993	333	7,477,050	8.05	3.40
1994	348	7,838,512	9.60	5.01
1995	351	8,343,933	9.62	6.95
1996	343	8,364,912	9.81	9.05
1997	346	8,814,495	8.08	8.08
1998	350	9,430,825	7.35	7.35
1999	364	9,944,587	6.48	6.48
2000	374	10,401,805	6.21	6.21
2001	374	10,692,631	9.83	9.83
2002	386	11,308,351	10.14	10.14
2003	384	11,615,252	10.35	10.35

Notes: Adoption of Benefits C-2 and F55 (15 years) reflected in 1989 valuation.

Adoption of 3% member contributions reflected in 1989 valuation.

Adoption of 1% member contributions reflected in 1990 valuation.

Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation. Adoption of Benefit B-3 and 4.85 member contributions reflected in 1994.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of 1.60% Member Contributions reflected in 2001 valuation.

Adoption of Benefit B-4 - 80% Maximum, 3.62% Member Contributions reflected in 2003 valuation.

Division 14 - Gnrl TOPS UAW

Table 18I
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	`		Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003	(9) (9) (4)			(8) (5) (6)	(12) (19) (27)	(10) (2) (4)	2	37 46 39	374 386 384

Table 19I Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(2) (3) (4)	(1)	(1)	(3) (7) (3)	(1)	9 1	10 5 7	61 56 55

Table 20I
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	ls	Removed from Rolls			Year End	
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001 2002 2003	13 12 13	\$ 171,348 150,770 123,281	\$	(2) (7) (6)	\$ (4,851) (43,557) (22,474)	\$ (1,343) (16,693) (14,698)	149 154 161	\$ 1,205,706 1,296,226 1,382,335

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 14 - Gnrl TOPS UAW

Table 21I
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contributions		Contributions Investment Benefit Member Contrib.			Trans		
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 1,040,229 1,050,966 1,169,392	\$ 177,309 184,585 190,903	\$ 2,049,991 1,006,871 2,315,988	\$ (1,134,770) (1,315,853) (1,355,912)	(32,307)	(1,434)	16,569	\$ 28,414,971 29,324,368 31,528,396

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22I
Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 31,926,883	· · · · · · · · · · · · · · · · · · ·	89%	\$ 3,511,912	33%
2002	33,645,046		87	4,320,678	38
2003	37,676,120		84	6,147,724	53

Division 15 - Animal Cntrl FOP

Table 16J

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	0.32%	\$88
Amortization of Unfunded Accrued Liability (30 years)	<u>15.62</u>	<u>4,295</u>
Total Long Term Contribution	15.94	4,383
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	15.94%	\$4,383

[@] The above Employer contribution requirement is based on Member contributions of 15.49% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.82% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 15 - Animal Cntrl FOP

Table 17.J **Computed Employer Contributions - Comparative Statement**

			1 -	ontribution as of Payroll
Valuation	Activo	e Members		Minimum
Date December 31,	Number	Annual Payroll	Regular Contribution	Required Contribution
1993	9	\$ 248,830	7.13%	3.01%
1994	9	260,831	8.19	4.28
1995	9	269,541	8.24	5.95
1996	9	264,182	8.91	8.21
1997	10	325,176	9.82	9.82
1998	10	317,713	9.11	9.11
1999	9	306,275	9.49	9.49
2000	10	330,848	14.84	14.83
2001	9	326,170	12.74	12.74
2002	9	310,758	16.06	16.06
2003	9	329,988	15.94	15.94

Actuarial assumptions were revised for the 1993 valuation. Notes:

Adoption of Benefits B-4, FAC-3, F50 (25 years) and 8.9% member contributions reflected in 1997 valuation. Actuarial assumptions were revised for the 1997 valuation.

Adoption of Benefit E-2 reflected in 2000 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of 14.28% Member Contributions reflected in 2001 valuation.

Adoption of Benefit F/N(25), 15.49% Member Contributions reflected in 2002 valuation.

Division 15 - Animal Cntrl FOP

Table 18J Flow of Active Membership

Year Ended	.		,		Termination	Trai	-	New	End of
12/31	Retired	Disabled	Benefit)	Vested	Non-Vested	Out	In	Member	Year
2001 2002 2003	(2)				(2) (1)			1 2 1	9 9 9

Table 19J Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003								1 1 1

Table 20J
Flow of Retirees and Beneficiaries

Year	A	Added to Rolls			Removed from Rolls			Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits		
2001 2002 2003	2	\$ 49,156	\$ 1,213		\$	\$	2 4 4	\$ 15,550 64,706 65,919		

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 15 - Animal Cntrl FOP

Table 21J
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Transfer*		
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 37,177 52,782 41,528	\$ 50,267 49,726 50,492	\$ 60,753 42,675 76,260	\$ (15,549) (44,417) (64,706)	0	(965)	'	\$ 802,507 903,273 1,002,269

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22J
Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities		Valuation Assets		Funded Percent		Infunded Accrued Liability	UAL as Percent of Annual Payroll	
2001 2002 2003	\$	1,536,591 1,822,913 1,963,559	\$ 802,507 903,273 1,002,269		52% 50 51	\$	734,084 919,640 961,290	2259 296 291	6

Division 16 - Gnrl Commsnrs

Table 16K

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	5.47%	\$735
Amortization of Unfunded Accrued Liability (30 years)	2.08	<u>279</u>
Total Long Term Contribution	7.55	1,014
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	7.55%	\$1,014

[@] The above Employer contribution requirement is based on Member contributions of 3.56% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.90% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 16 - Gnrl Commsnrs

Table 17K

Computed Employer Contributions - Comparative Statement

			Employer Co Percent o	of Payroll	
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution	
1989 1990 1991 1992 1993 1994 1995 1996	19 17 19 9 10 7 8 7	\$ 185,480 166,560 185,713 84,900 100,880 70,954 95,310 84,500	6.30% 6.80 7.10 8.10 4.04 6.75 6.91 5.19	0.00% 0.00 0.00 1.80 1.71 3.53 4.99 4.79	
1997 1998 1999 2000 2001 2002 2003	9 8 8 5 10 10	103,415 101,460 103,005 63,395 133,143 137,720 161,215	4.56 5.38 2.33 3.23 6.02 6.58 7.55	4.56 5.38 2.32 3.23 4.51 5.82 7.55	

Notes: Adoption of 4% member contributions reflected in 1989 valuation.

Adoption of 3.56% member contributions reflected in 1991 valuation. Adoption of Benefit E reflected in 1993 valuation. Actuarial assumptions were revised for the 1993 valuation. Actuarial assumptions were revised for the 1997 valuation.

Adoption of Benefit V- 6 reflected in 1998 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 16 - Gnrl Commsnrs

Table 18K Flow of Active Membership

Year Ended 12/31	Retired		,		Termination Non-Vested	Tran Out	nsfer In	New Member	End of Year
2001 2002 2003	Tetir ed	Disabled	Benefity	Vesteu	11011 Vesteu	Out		5	10 10 11

Table 19K Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1)							5 4 4

Table 20K
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	ls	Rem	oved from l	Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001 2002 2003	1 1	\$ 2,210 2,918	\$		\$	\$	5 6 7	\$ 17,888 20,098 23,016

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 16 - Gnrl Commsnrs

Table 21K
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contributions		Investment	Benefit	Member Contrib.	Trans		
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 3,089 4,448 6,414	\$ 4,739 4,903 5,062	\$ 19,980 7,616 21,373	\$ (17,888) (21,018) (20,097)	0	\$ (734) 0 0	\$ 734 0 15,006	\$ 292,469 288,418 316,176

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22K

Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 308,598	288,418	95%	\$ 16,129	12%
2002	320,249		90	31,831	23
2003	378,608		84	62,432	39

Division 17 - ICEA Nurses

Table 16L

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	4.47%	\$11,574
Amortization of Unfunded Accrued Liability (30 years)	4.07	<u>10,538</u>
Total Long Term Contribution	8.54	22,112
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	8.54%	\$22,112

[@] The above Employer contribution requirement is based on Member contributions of 11.87% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.90% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 17 - ICEA Nurses

Table 17L

Computed Employer Contributions - Comparative Statement

			v	ontribution as of Payroll
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1993	60	\$ 1,702,354	8.74%	3.69%
1994	59	1,853,322	9.79	5.11
1995	61	2,003,757	9.86	7.12
1996	64	2,067,117	9.54	8.80
1997	60	2,062,206	8.13	8.13
1998	63	2,321,552	7.68	7.68
1999	66	2,449,404	7.26	7.26
2000	67	2,553,922	6.79	6.79
2001	68	2,710,021	8.40	8.40
2002	67	3,053,506	9.39	9.39
2003	69	3,107,037	8.54	8.54

Actuarial assumptions were revised for the 1993 valuation. Notes:

Adoption of Benefit E-2 reflected in 1994 valuation. Adoption of Benefit F55 (15 years) reflected in 1994 valuation.

Adoption of 5.07% member contributions reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Adoption of Benefit B-3 reflected in 1998 valuation. Adoption of Benefit V-6 reflected in 1998 valuation. Adoption of Benefit FAC-3 reflected in 1998 valuation.

Adoption of 11.87% member contributions reflected in 1998 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 17 - ICEA Nurses

Table 18L Flow of Active Membership

Year Ended 12/31	Datinad		3		Termination Non-Vested	Trai Out	_	New Member	End of Year
12/31	Keurea	Disabled	Denema)	vesteu	1NOII- V esteu	Out	In	Member	1 ear
2001	(3)				(1)			5	68
2002				(1)	(4)	(2)		6	67
2003	(2)			(2)	(1)			7	69

Table 19L Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(2) (2)	(1)		(2) (1)		2	1 2 2	13 12 11

Table 20L Flow of Retirees and Beneficiaries

Year	Added to Rolls			Removed from Rolls			Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003	3 2 4	\$ 28,496 23,186 31,059	\$ 2,723 3,458 4,431		\$	\$ (4,586) (3,185)	26 28 32	\$ 227,252 250,711 286,201	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 17 - ICEA Nurses

Table 21L
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 196,369 214,553 259,070	\$ 321,184 375,409 367,377	\$ 515,290 321,239 700,881	\$ (222,531) (235,471) (268,685)	(24,793)	(44,638)		\$ 6,930,971 7,537,270 8,594,549

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Actuarial Accrued Liabilities - Comparative Schedule

Table 22L

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 8,916,596	\$ 6,930,971	78%	\$ 1,985,625	73%
2002	10,315,515	7,537,270	73	2,778,245	91
2003	10,953,766	8,594,549	78	2,359,217	76

Division 18 - ICEA Ct. Prof

Table 16M

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	3.08%	\$4,968
Amortization of Unfunded Accrued Liability (30 years)	8.27	<u>13,340</u>
Total Long Term Contribution	11.35	18,308
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	11.35%	\$18,308

[@] The above Employer contribution requirement is based on Member contributions of 9.84% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.84% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 18 - ICEA Ct. Prof

Table 17M

Computed Employer Contributions - Comparative Statement

			Employer Contribution as Percent of Payroll			
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution		
1993	36	\$ 1,245,240	7.84%	3.31%		
1994	42	1,375,365	8.54	4.46		
1995	38	1,375,764	9.41	6.80		
1996	37	1,442,687	10.09	9.30		
1997	32	1,244,090	9.57	9.57		
1998	33	1,413,047	11.49	11.49		
1999	37	1,559,574	9.66	9.66		
2000	35	1,515,603	8.79	8.78		
2001	34	1,579,323	10.99	10.99		
2002	37	1,883,979	11.42	11.42		
2003	37	1,935,719	11.35	11.35		

Notes:

Actuarial assumptions were revised for the 1993 valuation. Adoption of Benefits B-3 and F55 (15 years) reflected in 1994 valuation. Adoption of 7.5% member contributions reflected in 1994 valuation.

Adoption of Benefit 20 and Out retirement reflected in 1996 valuation.

Adoption of 9.84% member contributions reflected in 1996 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 18 - ICEA Ct. Prof

Table 18M Flow of Active Membership

Year Ended 12/31	Retired	`		Termination Non-Vested	Tran Out	nsfer In	New Member	End of Year
2001 2002 2003	(4) (1) (1)		(1) (1)		(1)	3 1 1	1 4 1	34 37 37

Table 19M Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003						2	1	6 7 9

Table 20M Flow of Retirees and Beneficiaries

Year	Added to Rolls			Removed from Rolls			Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003	4 1 8	\$ 112,268 20,146 63,559	\$ 287		\$	\$ (2,085)	22 23 31	\$ 456,377 476,523 537,997	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 18 - ICEA Ct. Prof

Table 21M
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 165,138 166,027 220,253	\$ 168,083 186,458 197,222	\$ 436,013 186,390 498,014	\$ (385,979) (470,786) (482,800)	0	\$ 0 0 0	\$ 190,379 1,573 241,086	\$ 5,942,900 6,012,562 6,686,337

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Actuarial Accrued Liabilities - Comparative Schedule

Table 22M

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001 2002 2003	\$ 8,326,341 8,966,621 9,671,329	\$ 5,942,900 6,012,562 6,686,337	71% 67 69	\$ 2,383,441 2,954,059 2,984,992	151% 157 154

Division 19 - Cnstutnl Offcls

Table 16N

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	5.34%	\$2,223
Amortization of Unfunded Accrued Liability (30 years)	<u>3.97</u>	<u>1,653</u>
Total Long Term Contribution	9.31	3,876
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	9.31%	\$3,876

[@] The above Employer contribution requirement is based on Member contributions of 8.46% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.89% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 19 - Cnstutnl Offcls

Table 17N

Computed Employer Contributions - Comparative Statement

			Employer Contribution as Percent of Payroll		
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution	
1993	5	\$ 254,947	7.58%	3.20%	
1994	5	264,660	10.11	5.28	
1995	5	274,083	7.49	5.41	
1996	4	206,565	7.36	6.79	
1997	5	297,992	7.48	7.48	
1998	5	315,294	8.20	8.20	
1999	6	404,043	5.88	5.88	
2000	6	416,485	6.42	6.42	
2001	6	463,955	8.32	8.32	
2002	6	485,039	9.59	9.59	
2003	6	499,590	9.31	9.31	

Actuarial assumptions were revised for the 1993 valuation. Notes:

Adoption of Benefits B-3 and F55 (15 years) reflected in 1994 valuation. Adoption of 7.0% member contributions reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Adoption of 5.00% member contributions reflected in 1998 valuation. Adoption of 6.00% member contributions reflected in 1999 valuation. Adoption of 5.00% member contributions reflected in 2000 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit V-6 reflected in 2000 valuation.

Adoption of Benefit FAC-3, B-4 - 80% Maximum, 8.46% Member Contributions reflected in 2002 valuation.

Division 19 - Cnstutnl Offcls

Table 18N Flow of Active Membership

Year Ended 12/31	Retired	,	Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003							6 6 6

Table 19N Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003								0 0 0

Table 20N
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	ls	Rem	oved from l	Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001 2002 2003	3	\$ 20,866	\$	(3)	\$ (22,071)	\$	7 7 7	\$ 96,192 96,192 94,987

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 19 - Cnstutnl Offcls

Table 21N
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contributions								Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance						
2001 2002 2003	\$ 27,281 31,140 41,566	\$ 23,198 41,034 42,265	\$ 108,386 48,880 126,111	\$ (96,192) (96,192) (92,008)	0	\$ 0 0 0	\$ 0 0 27,258	\$ 1,531,883 1,556,745 1,701,937						

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22N

Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 1,684,832	\$ 1,531,883	91%	\$ 152,949	33%
2002	1,941,581	1,556,745	80	384,836	79
2003	2,071,814	1,701,937	82	369,877	74

Division 21 - FOP Shrf Deputies

Table 160

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	4.57%	\$25,865
Amortization of Unfunded Accrued Liability (30 years)	<u>5.11</u>	<u>28,921</u>
Total Long Term Contribution	9.68	54,786
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	9.68%	\$54,786

[@] The above Employer contribution requirement is based on Member contributions of 10.96% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.85% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 21 - FOP Shrf Deputies

Table 170

Computed Employer Contributions - Comparative Statement

			1 -	ontribution as of Payroll
Valuation Date December 31,	Active Number	e Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1992	141	\$ 4,625,892	9.40%	2.10%
1993	147	5,058,670	7.40	3.12
1994	138	4,908,359	8.69	4.54
1995	146	5,180,610	8.56	6.19
1996	153	5,176,592	8.10	7.47
1997	143	4,952,121	8.84	8.84
1998	144	6,128,303	9.38	9.38
1999	152	5,940,955	7.73	7.73
2000	154	6,160,326	6.96	6.96
2001	154	6,621,982	8.54	8.54
2002	153	6,686,427	9.44	9.44
2003	150	6,791,675	9.68	9.68

Adoption of Benefits B-4, E and 6.55% member contributions reflected in 1993 valuation. Notes:

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit 3.2% multiplier and 10.43% member contributions reflected in 1997 valuation. Actuarial assumptions were revised for the 1997 valuation.

Adoption of 10.43% member contributions reflected in 1998 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit F/N(25), 10.96% Member Contributions reflected in 2001 valuation.

Division 21 - FOP Shrf Deputies

Table 18O Flow of Active Membership

Year Ended 12/31	Retired		'		Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003	(5) (4) (1)	(1)		(2) (2)	(4) (8) (9)	(2) (3) (3)		13 17 10	154 153 150

Table 19O Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1)			(2) (3) (1)	(1)	7	5 2	20 18 17

Table 20O Flow of Retirees and Beneficiaries

Year	A	dded to Roll	ls	Removed from Rolls			Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003	7 5 9	\$ 179,878 142,874 110,616	\$ 1,077 4,812	(2) (1)	\$ (13,679) (15,022)	\$ (1,720) (1,917) (18,160)	57 60 68	\$ 1,089,816 1,217,094 1,299,340	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 21 - FOP Shrf Deputies

Table 210
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contributions				Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance		
2001 2002 2003	\$ 519,780 489,336 596,429	\$ 735,558 760,140 766,122	\$ 1,406,277 653,931 1,581,967	\$ (1,058,811) (1,213,814) (1,269,865)	(85,751)	(138,170)	0	\$ 19,266,850 19,732,522 21,345,597		

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22O

Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001 2002 2003	\$ 24,125,583 25,762,655 27,812,580	\$ 19,266,850 19,732,522 21,345,597	80% 77 77	\$ 4,858,733 6,030,133 6,466,983	73% 90 95

Division 40 - ICEA Unit 111

Table 16P

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	5.98%	\$4,785
Amortization of Unfunded Accrued Liability (30 years)	<u>1.25</u>	<u>1,000</u>
Total Long Term Contribution	7.23	5,785
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	7.23%	\$5,785

[@] The above Employer contribution requirement is based on Member contributions of 3.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.84% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 40 - ICEA Unit 111

Table 17P

Computed Employer Contributions - Comparative Statement

				ontribution as of Payroll
Valuation Date December 31,	Active Number	e Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1989	60	\$ 1,383,191	9.10%	0.00%
1990	63	1,445,248	9.00	0.00
1991	67	1,491,640	8.90	0.00
1992	68	1,786,644	8.60	1.90
1993	64	1,545,125	4.94	2.08
1994	59	1,491,914	6.62	3.46
1995	38	901,078	6.60	4.77
1996	41	979,006	5.74	5.29
1997	35	920,331	5.56	5.56
1998	35	997,054	5.12	5.12
1999	28	755,810	1.97	1.96
2000	25	736,550	2.41	2.39
2001	22	657,455	3.87	3.87
2002	28	828,543	6.45	6.45
2003	32	960,275	7.23	7.23

Notes: Adoption of 0% member contributions for some members reflected in 1989.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 40 - ICEA Unit 111

Table 18P Flow of Active Membership

Year Ended 12/31	Retired	,	Termination Non-Vested	Tran Out	nsfer In	New Member	End of Year
2001 2002 2003	(3)		(2) (5) (7)		2	2 9 11	22 28 32

Table 19P Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1)			(1) (2)			2	7 5 6

Table 20P
Flow of Retirees and Beneficiaries

Year	Added to Rolls			Removed from Rolls			Year End		
Ended		Annual Benefit					Annual		
12/31	Number@	Benefits	Adjust.*	Number	Benefits	Adjust.#	Number	Benefits	
2001 2002	4	\$ 32,213	\$		\$	\$ (3,356)	27 27	\$ 231,422 231,422	
2003						(4,101)	27	227,321	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 40 - ICEA Unit 111

Table 21P
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contributions				Member Contrib.	Trans		
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 14,296 18,721 37,442	\$ 21,972 23,034 28,333	\$ 210,472 63,748 187,213	\$ (221,381) (231,855) (231,423)	(6,725)	0	15,105	\$ 3,029,975 2,912,003 2,929,067

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Actuarial Accrued Liabilities - Comparative Schedule

Table 22P

Valuation Date December 31	Accru Liabili		Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	3,00′	8,874	3,029,975	104%	\$ (111,101)	0%
2002		7,746	2,912,003	97	95,743	12
2003		2,237	2,929,067	93	223,170	23

Division 41 - MCF Management

Table 16Q

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	8.81%	\$5,588
Amortization of Unfunded Accrued Liability (30 years)	0.26	<u>165</u>
Total Long Term Contribution	9.07	5,753
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	9.07%	\$5,753

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.89% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 41 - MCF Management

Table 17Q

Computed Employer Contributions - Comparative Statement

			1 2	er Contribution as cent of Payroll		
Valuation Date December 31,	Active Number	Annual Payroll	Regular Contribution	Minimum Required Contribution		
1993 1994 1995	11 13 11	\$ 471,750 541,500 293,628	9.43% 10.95 11.28	3.98% 5.72 8.14		
1996 1997	12 15	487,427 512,335	11.28 11.75 11.64	10.84 11.64		
1998 1999 2000	13 22 19	545,506 845,543 781,285	11.03 9.48 7.86	11.03 9.48 7.86		
2001 2002	18 18	763,973 782,621	8.14 9.23	8.14 9.23		
2003	19	761,154	9.07	9.07		

Notes: Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Division 41 - MCF Management

Table 18Q Flow of Active Membership

Year Ended 12/31	Retired	'		Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003			(3)	(4) (3) (3)	(1)	2	6 3 3	18 18 19

Table 19Q Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1)	(1)					3	10 10 8

Table 20Q Flow of Retirees and Beneficiaries

Year	Added to Rolls			Removed from Rolls			Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003	1	\$ 4,267	\$		\$	\$	8 8 9	\$ 52,672 52,672 56,939	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 41 - MCF Management

Table 21Q Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 79,895 64,333 71,663	\$ 0 88 149	\$ 89,535 46,962 114,743	\$ (52,922) (52,672) (57,295)	(65)	· ·	\$ 1,022 238 28,627	\$ 1,227,752 1,286,636 1,429,985

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22Q

Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 1,172,178	\$ 1,227,752	105%	\$ (55,574)	0%
2002	1,307,854	1,286,636	98	21,218	3
2003	1,466,476	1,429,985	98	36,491	5

Division 42 - ICEA Unit 11

Table 16R

	Employer Contribution @			
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *		
Normal Cost (in addition to member contributions)	6.59%	\$1,905		
Amortization of Unfunded Accrued Liability (30 years)	<u>1.92</u>	<u>555</u>		
Total Long Term Contribution	8.51	2,460		
Overfunding Credit #	0.00	<u>0</u>		
Total Contribution	8.51%	\$2,460		

[@] The above Employer contribution requirement is based on Member contributions of 3.95% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.90% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 42 - ICEA Unit 11

Table 17R

Computed Employer Contributions - Comparative Statement

				ontribution as of Payroll
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1995 1996 1997 1998 1999 2000 2001	14 11 16 8 9 9	\$ 427,567 285,375 376,839 264,468 318,233 330,997 381,171	5.59% 6.08 5.52 7.13 7.12 6.82 8.67	4.03% 5.60 5.52 7.13 7.12 6.81 8.22
2002 2003	10 9	382,838 346,899	8.69 8.51	8.46 8.51

Notes:

Adoption of Benefit FAC-3 reflected in 1996 valuation. Adoption of 3.95% member contributions reflected in 1996 valuation.

Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 24.

Division 42 - ICEA Unit 11

Table 18R Flow of Active Membership

Year Ended 12/31	Retired	3	Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003			(2) (1)	(1)		2 1 1	9 10 9

Table 19R Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1)			(1) (2)			1	4 2 2

Table 20R
Flow of Retirees and Beneficiaries

Year	Added to Rolls			Removed from Rolls			Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003	1	\$ 10,146	\$		\$	\$	1 1 1	\$ 10,146 10,146 10,146	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 42 - ICEA Unit 11

Table 21R
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contributions		Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 27,140 26,108 30,627	\$ 14,818 14,918 13,582	\$ 24,862 19,124 30,571	\$ (10,146) (10,146) (10,146)	(80)	, ,	0	\$ 336,159 385,845 413,015

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22R

Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 458,069	\$ 336,159	73%	\$ 121,910	32%
2002	499,413	385,845	77	113,568	30
2003	536,965	413,015	77	123,950	36

Division 43 - ICEA Unit 1

Table 16S

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	6.28%	\$1,164
Amortization of Unfunded Accrued Liability (30 years)	<u>10.11</u>	<u>1,873</u>
Total Long Term Contribution	16.39	3,037
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	16.39%	\$3,037

[@] The above Employer contribution requirement is based on Member contributions of 3.51% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.88% of pay.

Note: A change in benefit provisions and/or member contributions was reflected in the actuarial valuation (see Table 1). The effects of the change(s), as it relates to the benefits of current and future active members, are shown below:

Increase in Actuarial Accrued Liabilities: \$(8)

Increase in Computed Long Term Employer Contribution As a Percentage of Active Member Payroll

Normal Cost: (0.01)%

Amortization Payment: 0.00%

Total: (0.01)%

The full effects of the changes, if any, on the benefits of current retirees and beneficiaries, and the effect of any window benefit provisions are included in the liabilities of retirees and beneficiaries.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 43 - ICEA Unit 1

Table 17S

Computed Employer Contributions - Comparative Statement

			Employer Contribution as Percent of Payroll				
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution			
1995	8	\$ 313,942	7.53%	5.44%			
1996	12	432,683	8.84	8.15			
1997	9	323,039	10.39	10.39			
1998	6	253,946	11.99	11.99			
1999	5	211,746	12.18	12.18			
2000	7	243,297	12.55	12.55			
2001	9	299,551	12.45	11.63			
2002	6	233,997	15.04	14.63			
2003	6	222,356	16.39	16.39			

Notes: Actuarial assumptions were revised for the 1997 valuation.

Adoption of 3.50% member contributions reflected in 1998 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of 3.51% Member Contributions reflected in 2003 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 24.

Division 43 - ICEA Unit 1

Table 18S Flow of Active Membership

Year Ended 12/31	Retired	3	Termination Non-Vested	Trai	nsfer In	New Member	End of Year
2001 2002 2003			(1) (2) (1)	(1) (1)		3 2	9 6 6

Table 19S Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003				(2)				3 3 3

Table 20S
Flow of Retirees and Beneficiaries

Year	Added to Rolls			Removed from Rolls			Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003		\$	\$		\$	\$ (2,486)	5 5 5	\$ 67,200 64,714 64,714	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 43 - ICEA Unit 1

Table 21S
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 34,066 35,461 24,835	\$ 9,884 9,905 7,488	\$ 40,727 14,187 27,909	\$ (67,200) (66,371) (64,714)	(2,323)		4,356	\$ 587,407 576,704 538,483

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Actuarial Accrued Liabilities - Comparative Schedule

Table 22S

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 961,401	\$ 587,407	61%	\$ 373,994	125%
2002	1,000,555	576,704	58	423,851	181
2003	957,592	538,483	56	419,109	188

Division 44 - MCF Exec Mgr

Table 16T

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	18.24%	\$1,647
Amortization of Unfunded Accrued Liability (30 years)	<u>4.77</u>	<u>431</u>
Total Long Term Contribution	23.01	2,078
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	23.01%	\$2,078

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.80% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 44 - MCF Exec Mgr

Table 17T

Computed Employer Contributions - Comparative Statement

Valuation	Active	Members	
Date December 31,	Number	Annual Payroll	Employer Contribution as Percent of Payroll
2003	1	\$ 108,383	23.01%

Notes:

Adoption of Benefit V-6, F55(15), FAC-3, B-4 - 80% Maximum, E-2 (2.5%), Normal Retirement: 60, 0.00% Member Contributions reflected in 2003 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 24.

Division 44 - MCF Exec Mgr

Table 18T Flow of Active Membership

Year Ended			Died (Survivor	Other T	Termination	Trar	ısfer	New	End of
12/31	Retired	Disabled	Benefit)	Vested	Non-Vested	Out	In	Member	Year
2003							1		1

Table 19T Flow of Vested Former Members

Year Ended 12/31	Ratirad	Return To Work	Died (Survivor	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2003	Kenreu	TO WOIK	Dellett)	Denem	Out	111	New	0

Table 20T Flow of Retirees and Beneficiaries

Yea	ar	Added to Rolls			Removed from Rolls			Year End		
End			Annual	Benefit	Annual Benefit			Annual		
12/3	31	Number@	Benefits	Adjust.*	Number	Benefits	Adjust.#	Number	Benefits	
200	03		\$	\$		\$	\$	0	\$ 0	

[@] Includes beneficiaries of retirees who died during the year.

^{*} *Includes where applicable E, E-1, and E-2 benefits, and corrections.*

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 44 - MCF Exec Mgr

Table 21T Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2003	\$ 1,647	\$ 0	\$ 8,085	\$ 0	\$ 0	\$ 0	\$ 56,751	\$ 66,483

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22T

Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2003	\$ 162,962	\$ 66,483	41%	\$ 96,479	89%

Division 90 - Asst Pros Attnys

Table 16U

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	10.14%	\$16,286
Amortization of Unfunded Accrued Liability (30 years)	<u>3.49</u>	<u>5,605</u>
Total Long Term Contribution	13.63	21,891
Overfunding Credit #	0.00	<u>0</u>
Total Contribution	13.63%	\$21,891

[@] The above Employer contribution requirement is based on Member contributions of 1.40% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.92% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 90 - Asst Pros Attnys

Table 17U

Computed Employer Contributions - Comparative Statement

				ontribution as of Payroll
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution
1993	27	\$ 1,413,378	9.75%	4.12%
1994	29	1,531,585	10.93	5.71
1995	29	1,479,614	10.54	7.61
1996	29	1,607,654	10.68	9.85
1997	29	1,596,005	8.88	8.88
1998	28	1,719,998	14.40	14.40
1999	29	1,534,889	13.77	13.77
2000	29	1,681,667	13.44	13.44
2001	30	1,626,502	13.67	13.67
2002	32	1,823,812	13.96	13.96
2003	32	1,927,390	13.63	13.63

Actuarial assumptions were revised for the 1993 valuation. Notes:

Adoption of Benefit B-3 reflected in 1994 valuation.

Adoption of 1.4% member contributions reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation.
Adoption of Benefit B-4 reflected in 1998 valuation.
Adoption of Benefit V- 6 reflected in 1998 valuation.
Adoption of Benefit F55 (15 years) reflected in 1998 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 24.

Division 90 - Asst Pros Attnys

Table 18U Flow of Active Membership

Year Ended 12/31	Retired	'		Termination Non-Vested	Tran Out	nsfer In	New Member	End of Year
2001 2002 2003			(3) (1) (1)	(1)	(1)		6 3 1	30 32 32

Table 19U Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003	(1)					5	6 1 1	14 15 16

Table 20U
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	S	Removed from Rolls			Year End	
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001 2002 2003	1	\$ 8,246	\$	(1)	\$ (5,028)	\$	5 5 4	\$ 97,627 97,627 92,599

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 90 - Asst Pros Attnys

Table 21U
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment			sfer*		
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 225,254 247,769 262,996	\$ 22,971 25,826 26,954	\$ 328,575 232,163 446,233	\$ (93,505) (97,628) (97,628)	(74)		117,514	\$ 4,445,017 4,970,587 5,571,035

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Actuarial Accrued Liabilities - Comparative Schedule

Table 22U

Valuation Date December 31	Accrued Liabilities	Valuation Assets	inded ercent	Ac	funded ccrued ability	Per A	AL as rcent of nnual ayroll
2001 2002 2003	\$ 5,629,717 6,359,505 6,826,732	\$ 4,445,017 4,970,587 5,571,035	79% 78 82	1,3	184,700 388,918 255,697		73% 76 65

Division 91 - Parks Union Empl

Table 16V

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Co	ntribution @
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	8.08%	\$1,241
Amortization of Unfunded Accrued Liability (30 years) #	(0.03)	<u>(5</u>)
Total Long Term Contribution	8.05	1,236
Overfunding Credit #	(0.03)	<u>(5</u>)
Total Contribution	8.02%	\$1,231

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.84% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] For this division, assets exceed accrued liabilities (see Table 13). The negative unfunded accrued liability is amortized (spread) over 10 years, and used to reduce the employer contribution rate. The total credit is 0.06% (0.03% plus 0.03%). The additional 0.03% results from spreading the negative unfunded accrued liability over 10 years instead of 30 years.

Division 91 - Parks Union Empl

Table 17V

Computed Employer Contributions - Comparative Statement

					Employer Contribution as Percent of Payroll		
Valuation	Active	Active Members				Minimum	
Date December 31,	Number		Annual Payroll	Regula Contribu		Required Contribution	
1994	3	\$	76,666	10.5	1%	5.48%	
1995	3		82,837	11.1	5	8.06	
1996	3		80,234	11.5	0	10.61	
1997	5		144,342	12.3	7	12.37	
1998	5		160,579	10.7	0	10.70	
1999	6		195,920	10.4	2	10.42	
2000	6		199,329	10.3	7	10.37	
2001	5		167,040	11.3	0	11.30	
2002	5		159,732	9.4	4	9.44	
2003	6		184,247	8.0	2	8.02	

Notes: Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 24.

Division 91 - Parks Union Empl

Table 18V Flow of Active Membership

Year Ended 12/31	Retired	3		Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003			(1)	(2)	(1)		2 2	5 5 6

Table 19V Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003							1	0 0 1

Table 20V Flow of Retirees and Beneficiaries

Year	Added to Rolls			Removed from Rolls			Year End		
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits	
2001 2002 2003	r turnour C	\$	\$	- Trumber	\$	\$	0 0 0	\$ 0 0 0	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 91 - Parks Union Empl

Table 21V
Flow of Valuation Assets (Actuarial Value)

Year Ended			Investment	Benefit	Member Contrib.	Trans		
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 20,080 18,925 19,450	\$ 0 0 0	\$ 5,528 7,697 14,890	\$ 0 0 0	\$ 0 0 0	\$ (58,303) 0 0	\$ 0 0 0	\$ 104,266 130,888 165,228

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Actuarial Accrued Liabilities - Comparative Schedule

Table 22V

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 179,060	\$ 104,266	58%	\$ 74,794	45%
2002	168,356	130,888	78	37,468	23
2003	164,318	165,228	101	(910)	0

Division 92 - Parks Non Union

Table 16W

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

	Employer Contribution @					
Contribution for	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *				
Normal Cost (in addition to member contributions)	7.47%	\$1,161				
Amortization of Unfunded Accrued Liability (30 years)	<u>5.27</u>	<u>819</u>				
Total Long Term Contribution	12.74	1,980				
Overfunding Credit #	0.00	<u>0</u>				
Total Contribution	12.74%	\$1,980				

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.83% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 92 - Parks Non Union

Table 17W

Computed Employer Contributions - Comparative Statement

			Employer Contribution as Percent of Payroll			
Valuation Date December 31,	Active Number	Members Annual Payroll	Regular Contribution	Minimum Required Contribution		
1994	5	\$ 210,478	12.50%	6.53%		
1995	5	190,147	14.25	10.29		
1996	4	168,458	15.00	13.84		
1997	5	178,782	13.26	13.26		
1998	5	214,974	13.33	13.33		
1999	4	196,079	12.49	12.49		
2000	3	171,663	12.58	12.58		
2001	3	178,325	12.69	12.69		
2002	3	181,220	13.80	13.80		
2003	3	186,496	12.74	12.74		

Notes:

Adoption of Benefit F55 (25 years) reflected in 1995 valuation. Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit FAC-3 reflected in 2002 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 24.

Division 92 - Parks Non Union

Table 18W Flow of Active Membership

Year Ended 12/31	Retired	3	Termination Non-Vested	Trai Out	nsfer In	New Member	End of Year
2001 2002 2003							3 3 3

Table 19W Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003								0 0 0

Table 20W Flow of Retirees and Beneficiaries

Year	A	dded to Roll	ls	Rem	oved from l	Year End			
Ended 12/31	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefit Benefits Adjust.#		Number	Annual Benefits	
2001 2002 2003		\$	\$		\$	\$	0 0 0	\$ 0 0 0	

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 92 - Parks Non Union

Table 21W
Flow of Valuation Assets (Actuarial Value)

Year Ended	Contri	butions	Investment	Benefit	Member Contrib.	Trans	sfer*	
12/31	Employer	Member	Income	Payments	Refunds	Out	In	Balance
2001 2002 2003	\$ 22,273 25,026 25,960	\$ 0 0 0	\$ 48,447 29,437 64,513	\$ 0 0 0	\$ 0 0 0	\$ 0 0 0	\$ 0 0 0	\$ 665,460 719,923 810,396

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Actuarial Accrued Liabilities - Comparative Schedule

Table 22W

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	_	Infunded Accrued Liability	Perce An	L as ent of nual vroll
2001 2002 2003	\$ 851,222 934,422 993,615	\$ 665,460 719,923 810,396	78% 77 82	\$	185,762 214,499 183,219		104% 118 98

Division 93 - Lgl Rsrch Clerks

Table 16X

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2005

Employer Co	ntribution @
As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
6.91%	\$1,265
(0.09)	<u>(16</u>)
6.82	1,249
(0.11)	<u>(20</u>)
6.71%	\$1,229
	As Percentage of Active Member Payroll 6.91% (0.09) 6.82 (0.11)

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.82% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] For this division, assets exceed accrued liabilities (see Table 13). The negative unfunded accrued liability is amortized (spread) over 10 years, and used to reduce the employer contribution rate. The total credit is 0.20% (0.09% plus 0.11%). The additional 0.11% results from spreading the negative unfunded accrued liability over 10 years instead of 30 years.

Division 93 - Lgl Rsrch Clerks

Table 17X

Computed Employer Contributions - Comparative Statement

Valuation	Activo	Mem	bers	
Date December 31,	Number		Annual Payroll	Employer Contribution as Percent of Payroll
1997	8	\$	250,777	6.84%
1998	5		175,963	7.21
1999	6		163,718	6.95
2000	8		225,369	6.73
2001	7		235,907	7.68
2002	6		227,014	7.16
2003	6		219,613	6.71

Notes: Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 24.

Division 93 - Lgl Rsrch Clerks

Table 18X Flow of Active Membership

Year Ended 12/31	Retired	3	Termination Non-Vested	Tran Out	nsfer In	New Member	End of Year
2001 2002 2003			(3) (2) (2)			2 1 2	7 6 6

Table 19X Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Tran Out	sfer In	New	End of Year
2001 2002 2003								0 0 0

Table 20X
Flow of Retirees and Beneficiaries

Year	A	dded to Roll	S	Rem	oved from l	Rolls	Ye	ear End		
Ended 12/31	Number@ Annual Benefits				Annual Benefits	Benefit Adjust.#	Number	Annual Benefits		
2001 2002 2003		\$	\$		\$	\$	0 0 0	\$ 0 0 0		

[@] Includes beneficiaries of retirees who died during the year.

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 93 - Lgl Rsrch Clerks

Table 21X
Flow of Valuation Assets (Actuarial Value)

Year Ended		Contri	bu	tions	I	nvestment		Benefit	Member Contrib.	Trans	sfe	r*	
12/31	E	Employer	N	Aember		Income]	Payments	Refunds	Out		In	Balance
2001 2002 2003	\$	17,007 17,925 20,588	\$	0 0 0	\$	5,820 6,542 12,956	\$	0 0 0	\$ 0 0 0	\$ 0 0	\$	0 0 0	\$ 80,280 104,747 138,291

^{*} Transfers out and in are usually related to the transfer of participants between divisions or municipalities.

Table 22X Actuarial Accrued Liabilities - Comparative Schedule

Valuation Date December 31	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 107,904	\$ 80,280	74%	\$ 27,624	12%
2002	124,042	104,747	84	19,295	8
2003	134,616	138,291	103	(3,675)	0

Table 23

GASB 25 And GASB 27 Information

The following information has been prepared to provide the information necessary to comply with GASB Statements Number 25 and 27. Statement 25 is effective for fiscal years beginning after June 15, 1996 and Statement 27 is effective for fiscal years beginning after June 15, 1998.

All entries and the annual employer contribution amount were based on the actuarial methods and assumptions used in the December 31, 2003 actuarial valuation. The entry age normal actuarial method was used to determine the disclosure entries.

GASB 25 Information (as of 12/31/2003)

Actuarial Accrued Liability

Retirees and beneficiaries currently receiving benefits	\$77,390,290
Terminated employees (vested former members) not yet receiving benefits	11,563,417
Non-vested terminated employees (pending refunds of accumulated member contributions)	498,548
Current employees - Accumulated employee contributions including allocated investment income	20,475,047
Employer financed	89,620,592
Total Actuarial Accrued Liability	\$199,547,894
Net Assets Available for Benefits at Actuarial Value	150,287,493
(Market Value is \$137,228,674)	
Unfunded (Overfunded) Actuarial Accrued Liability	\$49,260,401

GASB 27 Information (as of 12/31/2003)

Fiscal Year Beginning	January 1, 2005
Annual Required Contribution (ARC)	\$ 5,239,212*
Amortization Factor Used - Underfunded Liabilities (30 years) Amortization Factor Used - Underfunded Liabilities (26 years)	0.053632 0.058519
Amortization Factor Used - Overfunded Liabilities (10 years)	0.119963

^{*}Based on valuation payroll, but the actual required contribution will be based on current monthly payroll (during the fiscal year beginning January 1, 2005) times the computed employer contribution rate(s) shown in Tables 15 and 16.

Table 24

Benefit Provision History

The following benefit provision history is provided by MERS. Any corrections to this history or discrepancies between this information and information displayed elsewhere in the valuation report should be reported to MERS' Employer Services Division, to the attention of Laura Kramer (800-767-6377; LKramer@mersofmich.com).

Division 01 - Ingham County-Confidentials

Provisions by	Date
1/1/2002	Benefit B-4
1/1/2002	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/2002	Member Contribution Rate 5.36%
6/25/1996	Day of Work Definition
1/1/1995	Benefit B-3
1/1/1995	Benefit Maximum 80% of FAC
1/1/1995	Member Contribution Rate 4.50%
12/31/1994	Member Contribution Rate 0%
1/1/1994	Benefit E Adopted (1994-01-01)
1/1/1993	6 Year Vesting
10/1/1991	Benefit F55 (With 15 Years of Service)
10/1/1991	Member Contribution Rate 1.00%
7/1/1991	Benefit C-2
7/1/1991	Base B-1
10/1/1990	Member Contribution Rate 0%
1/1/1988	Benefit E Adopted (1988-01-01)
12/16/1986	Blanket Resolution (Service Purchases)
10/15/1980	Exclude Temporary Employees
12/1/1970	10 Year Vesting
1/1/1969	Benefit C-1 (Old)
9/29/1965	Covered by Act 88
11/15/1950	Benefit C (Old)
11/15/1950	No Benefit Maximum
11/15/1950	Benefit FAC-5 (5 Year Final Average Compensation)
11/15/1950	Member Contribution Rate 3.00% Under \$4,200 - Then 5.00%
11/15/1950	Fiscal Year - January

Division 02 - Ingham County-Sheriff FOP Spvs

Provisions by	Date
10/1/1997	3.2% Multiplier
10/1/1997	Benefit Maximum 80% of FAC
10/1/1997	Member Contribution Rate 19.6100%
1/1/1995	Benefit B-4
1/1/1995	Benefit Maximum 80% of FAC
1/1/1995	25 Years & Out

Table 24 (continued)

Benefit Provision History

Division 02 - Ingham County-Sheriff FOP Spvs

Provisions b	y Date
1/1/1995	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/1995	Member Contribution Rate 10.45%
12/31/1994	No Benefit F50
12/31/1994	Member Contribution Rate 0%
7/1/1994	Member Contribution Rate 5.4000%
6/30/1994	Member Contribution Rate 0%
1/1/1994	Benefit E Adopted (1994-01-01)
7/1/1993	Benefit B-3
7/1/1993	Benefit Maximum 80% of FAC
7/1/1993	Member Contribution Rate 6.4000%
6/30/1993	Member Contribution Rate 0%
10/1/1991	Member Contribution Rate 1.8500%
1/1/1991	Member Contribution Rate 1.6000%
10/1/1990	Benefit F50 (With 25 Years of Service)
10/1/1990	Member Contribution Rate 1.8000%
1/1/1990	Day of Work Definition
1/1/1988	Benefit E Adopted (1988-01-01)
1/1/1987	Benefit C-2
1/1/1987	Base C-1 (Old)
12/16/1986	Blanket Resolution (Service Purchases)
1/1/1986	Benefit F55 (With 15 Years of Service)
1/1/1986	Member Contribution Rate 1.00%
10/15/1980	Exclude Temporary Employees
1/1/1976	Member Contribution Rate 0%
12/1/1970	10 Year Vesting
1/1/1969	Benefit C-1 (Old)
9/29/1965	Covered by Act 88
11/15/1950	Benefit C (Old)
11/15/1950	No Benefit Maximum
11/15/1950	Benefit FAC-5 (5 Year Final Average Compensation)
11/15/1950	Member Contribution Rate 3.00% Under \$4,200 - Then 5.00%
11/15/1950	Fiscal Year - January

Division 04 - Ingham County-MCF

Provisions by	Date
1/1/1995	Benefit E Adopted (1995-01-01)
1/1/1988	Benefit E Adopted (1988-01-01)
10/15/1980	Exclude Temporary Employees
12/1/1970	10 Year Vesting
1/1/1969	Benefit C-1 (Old)
11/15/1950	Benefit C (Old)

Table 24 (continued)

Benefit Provision History

Division 04 - Ingham County-MCF

Provisions by Date		
11/15/1950	Benefit FAC-5 (5 Year Final Average Compensation)	
11/15/1950	Member Contribution Rate 3.00% Under \$4,200 - Then 5.00%	
11/15/1950	Fiscal Year - January	
11/15/1950	No Benefit Maximum	

Division 09 - Ingham Cnty-Judges

Provisions by	Date
1/1/2002	Benefit B-4
1/1/2002	Member Contribution Rate 3.1400%
1/1/1998	Benefit B-3
1/1/1998	Benefit Maximum 80% of FAC
1/1/1998	Benefit F55 (With 15 Years of Service)
1/1/1998	6 Year Vesting
4/1/1991	Benefit C-1 (Old)
4/1/1991	No Benefit Maximum
4/1/1991	Benefit FAC-5 (5 Year Final Average Compensation)
4/1/1991	10 Year Vesting
4/1/1991	Member Contribution Rate 0%
4/1/1991	Fiscal Year - January
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 10 - Ingham County-Gnrl Mgmt

Provisions by	Date
1/1/2002	Benefit B-4
1/1/2002	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/2002	Member Contribution Rate 6.3900%
6/25/1996	Day of Work Definition
1/1/1995	Benefit B-3
1/1/1995	Benefit Maximum 80% of FAC
1/1/1995	Member Contribution Rate 5.00%
12/31/1994	Member Contribution Rate 0%
1/1/1994	Benefit E Adopted (1994-01-01)
1/1/1993	6 Year Vesting
7/1/1991	Member Contribution Rate 1.00%
7/1/1988	Benefit C-2
7/1/1988	Base B-1
7/1/1988	Benefit FAC-5 (5 Year Final Average Compensation)
7/1/1988	Member Contribution Rate 3.00%
1/1/1988	Benefit E Adopted (1988-01-01)
7/1/1987	Member Contribution Rate 0%

Table 24 (continued)

Benefit Provision History

Division 10 - Ingham County-Gnrl Mgmt

on (Service Purchases)
mum
h 15 Years of Service)
ıary
ary Employees
38

Division 11 - Ingham County-Gnrl Library

Date
Benefit E Adopted (1994-01-01)
Day of Work Definition
Benefit E Adopted (1988-01-01)
Benefit C-1 (Old)
No Benefit Maximum
Benefit FAC-5 (5 Year Final Average Compensation)
Member Contribution Rate 0%
Fiscal Year - January
10 Year Vesting
Exclude Temporary Employees
Covered by Act 88

Division 12 - Ingham County-Gnrl ICEA Profs

Provisions by	y Date
1/1/2003	Benefit B-4
1/1/2003	Member Contribution Rate 13.4200%
1/1/2003	Benefit E-2 Annual Increases for future retirees (2003-01-0
6/1/1997	Benefit F55 (With 15 Years of Service)
6/1/1997	Member Contribution Rate 6.08%
5/31/1997	Member Contribution Rate 0%
1/1/1995	Benefit B-3
1/1/1995	Benefit Maximum 80% of FAC
1/1/1995	Member Contribution Rate 4.1000%
12/31/1994	Member Contribution Rate 0%
1/1/1994	Benefit E Adopted (1994-01-01)
1/1/1992	Benefit C-2
1/1/1992	Base B-1
1/1/1992	No Benefit Maximum
1/1/1992	Day of Work Definition
1/1/1992	Member Contribution Rate 1.10%
12/31/1991	Member Contribution Rate 0%

Table 24 (continued)

Benefit Provision History

Division 12 - Ingham County-Gnrl ICEA Profs

Date
No Benefit Maximum
Benefit FAC-5 (5 Year Final Average Compensation)
Member Contribution Rate 0.90%
Fiscal Year - January
Benefit E Adopted (1988-01-01)
Blanket Resolution (Service Purchases)
Benefit C-2
Base C-1 (Old)
10 Year Vesting
Exclude Temporary Employees
Covered by Act 88

Division 13 - Ingham County-Gnrl OPEIU Prob

•	0
Provisions by	Date
7/1/2003	Benefit B-4
7/1/2003	Member Contribution Rate 9.71%
10/1/2002	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/1998	Benefit B-3
1/1/1998	Benefit Maximum 80% of FAC
1/1/1998	Member Contribution Rate 7.1300%
12/31/1997	Member Contribution Rate 7.1000%
1/1/1995	Benefit C-2
1/1/1995	Base B-1
1/1/1995	Member Contribution Rate 2.9600%
12/31/1994	Member Contribution Rate 0%
1/1/1994	Benefit E Adopted (1994-01-01)
1/1/1992	Day of Work Definition
10/1/1991	Member Contribution Rate 1.8800%
9/30/1991	Member Contribution Rate 0%
10/1/1990	Benefit C-1 (Old)
10/1/1990	No Benefit Maximum
10/1/1990	Benefit FAC-5 (5 Year Final Average Compensation)
10/1/1990	10 Year Vesting
10/1/1990	Member Contribution Rate 1.8000%
10/1/1990	Fiscal Year - January
12/1/1988	Benefit F55 (With 15 Years of Service)
12/1/1988	Member Contribution Rate 1.00%
1/1/1988	Benefit E Adopted (1988-01-01)
12/16/1986	Blanket Resolution (Service Purchases)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Table 24 (continued)

Benefit Provision History

Division 14 - Ingham County-Gnrl TOPS UAW

Provisions by	Date
1/1/2004	Benefit B-4
1/1/2004	Member Contribution Rate 3.62%
1/1/2001	Member Contribution Rate 1.6000%
10/1/1995	Benefit B-3
10/1/1995	Benefit Maximum 80% of FAC
10/1/1995	Member Contribution Rate 4.85%
1/1/1994	Benefit E Adopted (1994-01-01)
1/1/1992	Day of Work Definition
7/1/1991	Member Contribution Rate 1.00%
10/1/1990	No Benefit Maximum
10/1/1990	Benefit FAC-5 (5 Year Final Average Compensation)
10/1/1990	10 Year Vesting
10/1/1990	Fiscal Year - January
1/1/1989	Benefit C-2
1/1/1989	Base C-1 (Old)
1/1/1989	Benefit F55 (With 15 Years of Service)
1/1/1989	Member Contribution Rate 3.00%
1/1/1988	Benefit E Adopted (1988-01-01)
12/16/1986	Blanket Resolution (Service Purchases)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 15 - Ingham County-Animal Cntrl FOP

Provisions b	y Date
6/1/2002	No Benefit F50
6/1/2002	25 Years & Out
6/1/2002	Member Contribution Rate 15.4900%
1/1/2001	Member Contribution Rate 14.28%
1/1/2001	Benefit E-2 Annual Increases for future retirees (2001-01-0
7/1/1997	Benefit B-4
7/1/1997	Benefit Maximum 80% of FAC
7/1/1997	Benefit F50 (With 25 Years of Service)
7/1/1997	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/1997	Member Contribution Rate 8.90%
1/1/1994	Benefit E Adopted (1994-01-01)
1/1/1993	Benefit B-1
1/1/1993	No Benefit Maximum
1/1/1993	Day of Work Definition
1/1/1993	Member Contribution Rate 1.10%
10/1/1990	Member Contribution Rate 0.90%

Table 24 (continued)

Benefit Provision History

Division 15 - Ingham County-Animal Cntrl FOP

Provisions by	Date
1/1/1990	Benefit C-1 (Old)
1/1/1990	Benefit F55 (With 15 Years of Service)
1/1/1990	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1990	10 Year Vesting
1/1/1990	Member Contribution Rate 0%
1/1/1990	Fiscal Year - January
1/1/1988	Benefit E Adopted (1988-01-01)
12/16/1986	Blanket Resolution (Service Purchases)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 16 - Ingham County-Gnrl Commsnrs

Provisions by	Date
1/1/1999	6 Year Vesting
1/1/1994	Benefit E Adopted (1994-01-01)
10/1/1991	Member Contribution Rate 3.5600%
10/1/1990	Benefit F55 (With 15 Years of Service)
12/2/1988	Member Contribution Rate 0%
12/1/1988	Benefit C-2
12/1/1988	Base B-1
12/1/1988	No Benefit Maximum
12/1/1988	Benefit FAC-5 (5 Year Final Average Compensation)
12/1/1988	10 Year Vesting
12/1/1988	Member Contribution Rate 4.00%
12/1/1988	Fiscal Year - January
1/1/1988	Benefit E Adopted (1988-01-01)
12/16/1986	Blanket Resolution (Service Purchases)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 17 - Ingham County-ICEA Nurses

Provisions b	y Date
1/1/2001	Benefit E-2 Annual Increases for future retirees (1995-07-0
1/1/2000	Benefit E-2 Annual Increases for future retirees (1995-07-0
7/1/1999	Benefit B-3
7/1/1999	Benefit Maximum 80% of FAC
7/1/1999	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/1999	6 Year Vesting
7/1/1999	Member Contribution Rate 11.8700%
1/1/1996	Benefit E-2 Annual Increases for future retirees (1995-07-0
7/1/1995	Benefit F55 (With 15 Years of Service)

Table 24 (continued)

Benefit Provision History

Division 17 - Ingham County-ICEA Nurses

Provisions by	Date
7/1/1995	Member Contribution Rate 5.0700%
6/30/1995	Member Contribution Rate 0%
1/1/1994	Benefit E Adopted (1994-01-01)
1/1/1991	Day of Work Definition
10/1/1990	Member Contribution Rate 0.70%
1/1/1990	Benefit C-2
1/1/1990	Base C-1 (Old)
1/1/1990	No Benefit Maximum
1/1/1990	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1990	10 Year Vesting
1/1/1990	Member Contribution Rate 1.00%
1/1/1990	Fiscal Year - January
1/1/1988	Benefit E Adopted (1988-01-01)
12/16/1986	Blanket Resolution (Service Purchases)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 18 - Ingham County-ICEA Ct. Prof

Provisions by	Date
6/1/1997	20 Years & Out
6/1/1997	Member Contribution Rate 9.84%
5/31/1997	Member Contribution Rate 0%
1/1/1995	Benefit B-3
1/1/1995	Benefit Maximum 80% of FAC
1/1/1995	Member Contribution Rate 7.5000%
12/31/1994	Member Contribution Rate 0%
1/1/1994	Benefit E Adopted (1994-01-01)
1/1/1992	No Benefit Maximum
1/1/1992	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1992	10 Year Vesting
1/1/1992	Day of Work Definition
1/1/1992	Member Contribution Rate 3.1000%
1/1/1991	Benefit C-2
1/1/1991	Base B-1
1/1/1991	Benefit F55 (With 15 Years of Service)
1/1/1991	Member Contribution Rate 2.8000%
1/1/1991	Fiscal Year - January
1/1/1988	Benefit E Adopted (1988-01-01)
12/16/1986	Blanket Resolution (Service Purchases)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Table 24 (continued)

Benefit Provision History

Division 19 - Ingham County-Cnstutnl Offcls

Provisions by	v Date
1/1/2002	Benefit B-4
1/1/2002	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/2002	Member Contribution Rate 8.46%
1/1/2000	6 Year Vesting
1/1/2000	Member Contribution Rate 5.00%
1/1/1999	Member Contribution Rate 6.00%
6/25/1996	Day of Work Definition
1/1/1995	Benefit B-3
1/1/1995	Benefit Maximum 80% of FAC
1/1/1995	Member Contribution Rate 7.00%
12/31/1994	Member Contribution Rate 0%
1/1/1994	Benefit E Adopted (1994-01-01)
4/1/1991	Benefit C-2
4/1/1991	Base B-1
4/1/1991	No Benefit Maximum
4/1/1991	Benefit F55 (With 15 Years of Service)
4/1/1991	Benefit FAC-5 (5 Year Final Average Compensation)
4/1/1991	10 Year Vesting
4/1/1991	Member Contribution Rate 3.00%
10/1/1990	Fiscal Year - January
1/1/1988	Benefit E Adopted (1988-01-01)
12/16/1986	Blanket Resolution (Service Purchases)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 20 - Ingham County-Sheriff/Sheriff

Provisions by	Date
1/1/2000	Member Contribution Rate 5.00%
1/1/1999	Member Contribution Rate 6.00%
1/1/1995	Benefit B-3
1/1/1995	Benefit Maximum 80% of FAC
1/1/1995	Member Contribution Rate 7.00%
12/31/1994	Member Contribution Rate 0%
1/1/1994	Benefit E Adopted (1994-01-01)
10/1/1990	Benefit C-2
10/1/1990	Base B-1
10/1/1990	No Benefit Maximum
10/1/1990	Benefit F55 (With 15 Years of Service)
10/1/1990	Benefit FAC-5 (5 Year Final Average Compensation)
10/1/1990	10 Year Vesting

Table 24 (continued)

Benefit Provision History

Division 20 - Ingham County-Sheriff/Sheriff

Provisions by Date

10/1/1990 Member Contribution Rate 3.00%

10/1/1990 Fiscal Year - January

1/1/1988 Benefit E Adopted (1988-01-01)

Division 21 - Ingham Cnty-FOP Shrf Deputies

Provisions by Date

2/1/2001 No Benefit F50 2/1/2001 25 Years & Out

2/1/2001 Member Contribution Rate 10.96%

1/1/1998 3.2% Multiplier

1/1/1998 Benefit Maximum 80% of FAC

1/1/1998 Member Contribution Rate 10.43%

1/1/1994 Benefit B-4

1/1/1994 Benefit Maximum 80% of FAC

1/1/1994 Member Contribution Rate 6.5500%

1/1/1994 Benefit E Adopted (1994-01-01)

12/31/1993 Member Contribution Rate 0%

10/1/1991 Member Contribution Rate 1.6500%

10/1/1990 Member Contribution Rate 1.6000%

5/3/1990 Day of Work Definition

1/1/1990 Benefit C-2

1/1/1990 Base C-1 (Old)

1/1/1990 No Benefit Maximum

1/1/1990 Benefit F50 (With 25 Years of Service)

1/1/1990 Benefit F55 (With 15 Years of Service)

1/1/1990 Benefit FAC-5 (5 Year Final Average Compensation)

1/1/1990 10 Year Vesting

1/1/1990 Member Contribution Rate 1.00%

1/1/1990 Fiscal Year - January

1/1/1988 Benefit E Adopted (1988-01-01)

12/16/1986 Blanket Resolution (Service Purchases)

10/15/1980 Exclude Temporary Employees

9/29/1965 Covered by Act 88

Division 40 - Ingham County-ICEA Unit 111

Provisions by Date

1/1/1995 Benefit E Adopted (1995-01-01)

12/1/1988 Benefit C-2

12/1/1988 Member Contribution Rate 3.00%

12/1/1988 Fiscal Year - January

12/1/1988 10 Year Vesting

Table 24 (continued)

Benefit Provision History

Division 40 - Ingham County-ICEA Unit 111

Provisions by	Date
12/1/1988	Base B-1
12/1/1988	No Benefit Maximum
12/1/1988	Benefit F55 (With 15 Years of Service)
12/1/1988	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1988	Benefit E Adopted (1988-01-01)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 41 - Ingham County-MCF Management

Provisions by	Date
1/1/1995	Benefit E Adopted (1995-01-01)
10/1/1990	Member Contribution Rate 0%
1/1/1990	6 Year Vesting
4/1/1989	Benefit C-2
4/1/1989	Benefit FAC-5 (5 Year Final Average Compensation)
4/1/1989	Fiscal Year - January
4/1/1989	Benefit F55 (With 15 Years of Service)
4/1/1989	Base B-1
4/1/1989	No Benefit Maximum
1/1/1988	Benefit E Adopted (1988-01-01)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 42 - Ingham County-ICEA Unit 11

Provisions by Date	
4/1/1997	Benefit FAC-3 (3 Year Final Average Compensation)
4/1/1997	Member Contribution Rate 3.9500%
4/1/1996	Member Contribution Rate 3.44%
1/1/1996	Benefit C-2
1/1/1996	Base B-1
1/1/1996	No Benefit Maximum
1/1/1996	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1996	Member Contribution Rate 3.4000%
1/1/1996	Fiscal Year - January
1/1/1996	6 Year Vesting
1/1/1996	Benefit F55 (With 15 Years of Service)
1/1/1988	Benefit E Adopted (1988-01-01)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Table 24 (continued)

Benefit Provision History

Division 43 - Ingham County-ICEA Unit 1

Provisions by	Date
4/1/1996	Member Contribution Rate 3.5100%
1/1/1996	Benefit C-2
1/1/1996	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1996	Member Contribution Rate 3.5000%
1/1/1996	Fiscal Year - January
1/1/1996	6 Year Vesting
1/1/1996	Benefit F55 (With 15 Years of Service)
1/1/1996	Base B-1
1/1/1996	No Benefit Maximum
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 44 - Ingham County-MCF Exec Mgr

Provisions by Date	
1/1/2004	Benefit E-2 Annual Increases for future retirees (2003-09-0
9/1/2003	Benefit B-4
9/1/2003	Fiscal Year - January
9/1/2003	Benefit Maximum 80% of FAC
9/1/2003	Benefit F55 (With 15 Years of Service)
9/1/2003	Benefit FAC-3 (3 Year Final Average Compensation)
9/1/2003	Member Contribution Rate 0%
9/1/2003	6 Year Vesting
9/29/1965	Covered by Act 88

Division 90 - Ingham County-Asst Pros Attnys

Provisions by Date		
Benefit B-4		
Benefit F55 (With 15 Years of Service)		
6 Year Vesting		
Benefit B-3		
Benefit Maximum 80% of FAC		
Benefit FAC-5 (5 Year Final Average Compensation)		
10 Year Vesting		
Member Contribution Rate 1.4000%		
Fiscal Year - January		
Day of Work Definition		
Benefit E Adopted (1988-01-01)		
Blanket Resolution (Service Purchases)		
Exclude Temporary Employees		
Covered by Act 88		

Table 24 (continued)

Benefit Provision History

Division 91 - Ingham County-Parks Union Empl

Provisions by	Date
6/25/1996	Day of Work Definition
7/1/1995	Benefit B-3
7/1/1995	Benefit Maximum 80% of FAC
1/1/1995	Benefit C-1 (Old)
1/1/1995	No Benefit Maximum
1/1/1995	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1995	10 Year Vesting
1/1/1995	Member Contribution Rate 0%
1/1/1995	Fiscal Year - January
1/1/1988	Benefit E Adopted (1988-01-01)
12/16/1986	Blanket Resolution (Service Purchases)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 92 - Ingham County-Parks Non Union

Provisions by	Date
1/1/2002	Benefit FAC-3 (3 Year Final Average Compensation)
6/25/1996	Day of Work Definition
7/1/1995	Benefit B-4
7/1/1995	Benefit Maximum 80% of FAC
7/1/1995	Benefit F55 (With 25 Years of Service)
1/1/1995	Benefit C-1 (Old)
1/1/1995	No Benefit Maximum
1/1/1995	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1995	10 Year Vesting
1/1/1995	Member Contribution Rate 0%
1/1/1995	Fiscal Year - January
1/1/1988	Benefit E Adopted (1988-01-01)
12/16/1986	Blanket Resolution (Service Purchases)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by Act 88

Division 93 - Ingham County-Lgl Rsrch Clerks

Provisions by Date		
1/1/1998	Benefit C-1 (Old)	
1/1/1998	No Benefit Maximum	
1/1/1998	Benefit FAC-5 (5 Year Final Average Compensation)	
1/1/1998	10 Year Vesting	
1/1/1998	Member Contribution Rate 0%	
1/1/1998	Fiscal Year - January	

Table 24 (continued)

Benefit Provision History

Division 93 - Ingham County-Lgl Rsrch Clerks

Provisions by Date

6/25/1996 Day of Work Definition

1/1/1988 Benefit E Adopted (1988-01-01)

12/16/1986 Blanket Resolution (Service Purchases)

10/15/1980 Exclude Temporary Employees

9/29/1965 Covered by Act 88

APPENDIX

SUMMARY OF

PLAN PROVISIONS

AND

ACTUARIAL ASSUMPTIONS

AND

ACTUARIAL FUNDING METHOD

AS OF DECEMBER 31, 2003

FOR THE

MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM
OF MICHIGAN

INTRODUCTION

An actuarial valuation is the mathematical process that estimates plan liabilities and employer contribution requirements for purposes of financing the retirement system. This process is repeated annually to update the liabilities and contribution requirements for changes in member census and plan features, and to reflect actual plan experience in the process. The valuation reflects the present provisions of the Municipal Employees' Retirement Act of 1984, as amended by 1996 Public Act 220, as embodied in the MERS Plan Document (as revised). The specific benefit provisions in effect for each municipality are listed in Table 1 in the results section of the report.

In addition to utilizing current membership and financial data, an actuarial valuation requires the use of a series of assumptions regarding uncertain future events. The assumptions and methods used in the December 31, 2003 actuarial valuation are those adopted by the Retirement Board. The actuarial assumptions were last revised as of December 31, 2000 to reflect the results of the study of plan experience covering the period from December 31, 1993 through December 31, 1998.

There have been no changes in the funding method which was adopted by the Retirement Board commencing with the December 31, 1993 valuations. The basic funding method is entry age normal and employer contribution amounts are developed as a level percentage of payroll.

The actuarial valuation computations were made by or under the supervision of a Member of the American Academy of Actuaries (MAAA). Gabriel, Roeder, Smith & Company is an independent firm of consultants and actuaries.

Details on MERS plan provisions, actuarial assumptions, and actuarial methodology follow this section.

SUMMARY OF PLAN PROVISIONS

The benefits summarized in this section are intended only as general information regarding the Municipal Employees' Retirement System of Michigan. They are not a substitute for Act. No. 220 of the Public Acts of 1996, and the MERS Plan Document as revised. If any conflict occurs between the information in this summary and Act. No. 220 of the Public Acts of 1996, as amended, or the MERS Plan Document, as revised, the provisions of Act. No. 220 and the MERS Plan Document govern.

Eligibility for Retirement (Plan Section 10)

Age 60 with 10 or more years of credited service (reduced to 8 or 6 years if either Benefit V-8 or V-6, respectively, is adopted).

Age 55 with 15 or more years of credited service (reduced benefit unless Benefit F55 is adopted).

Age 50 with 25 or more years of credited service (reduced benefit unless Benefit F50 is adopted).

The retirement allowance is reduced ½ of 1% for each complete month that the retirement date precedes the age at which full normal retirement benefits are available. The reduction may be partially or fully waived by adopting Benefit F55 and/or Benefit F50 and/or Benefit F(N).

Optional Retirement Programs (Unreduced Benefits) (Plan Section 10)

Benefit F50 - Age 50 with a required period of credited service of either 25 or 30 years.

Benefit F55 - Age 55 with a required period of credited service of 15, 20, 25 or 30 years.

Benefit F(N) - Any age with a required period of credited service of either 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 or 30 years.

Mandatory Retirement

None.

Deferred Retirement (Plan Section 12)

Termination of membership before age 60 other than by retirement or death, after 10 years of credited service (8 or 6 years if Benefit V-8 or V-6 is adopted). Retirement allowance begins upon application and satisfaction of the eligibility requirements for retirement. The deferred retirement allowance is computed in the same manner as a service retirement allowance, based on the benefit program in effect as of the date of termination of membership.

Rights to an allowance are forfeited if the member's accumulated contributions are withdrawn after termination of employment.

Service Retirement Allowance (Plan Sections 13-19)

Credited service at time of termination of membership is multiplied by:

Benefit A - 1.0% of a member's final average compensation (FAC). Benefit A

may not be adopted after January 2, 1986.

Benefit B - Contact MERS office for details. Benefit B may not be adopted after

January 2, 1986.

Benefit C New - 1.3% of FAC.

Benefit C Old - Sum of 1.0% times the first \$4,200 of FAC, plus 1.5% times the

portion of FAC over \$4,200. Benefit C Old may not be adopted after

January 2, 1986.

Benefit C-1 New - 1.5% of FAC.

Benefit C-1 Old - Sum of 1.2% times the first \$4,200 of FAC, plus 1.7% times the

portion of FAC over \$4,200. Benefit C-1 Old may not be adopted after

January 2, 1986.

Benefit B-1 - 1.7% of FAC.

Benefit C-2 - 2.0% of FAC, payable until attainment of the age at which unreduced

Social Security benefits are available (currently age 65 for normal retirement, gradually increasing to age 67). Upon attainment of this age, the benefit reverts to the basic Benefit A, C New, C Old, C-1

New, C-1 Old or B-1.

Benefit B-2 - 2.0% of FAC.

Benefit B-3 - 2.25% of FAC, with a maximum benefit of 80% of FAC.

Benefit B-4 - 2.5% of FAC, with a maximum benefit of 80% of FAC.

Maximum Benefit Payable by MERS

The maximum benefit that may be paid by MERS is governed by Section 415 of the Internal Revenue Code (see page 157). Benefits in excess of the maximum benefit will be paid by the MERS Excess Benefit Plan.

Act 88 (Reciprocal Retirement Act, 1961 P.A. 88)

If the municipality has elected to come under the provision of Act 88 (see Table 1), service with former and future public employers in Michigan may be used to satisfy the service eligiblity conditions of MERS.

Final Average Compensation (Plan Sections 2A(6) and 2A(11))

MERS plan benefits are based on a member's final average compensation (FAC), subject to the dollar compensation limits under Section 401(a)(17) of the Internal Revenue Code (see page 157). For this purpose, final average compensation means one-fifth of the aggregate amount of compensation (as defined in the MERS Plan Document, Section 2A(6)) paid to a member during the period of 5 consecutive years of the member's credited service in which the aggregate compensation paid is highest, known as FAC-5. Adoption of Benefit FAC-3 results in final average compensation being averaged over 3 years, instead of 5 years.

Disability Retirement Allowance (Plan Section 24)

Total and permanent disability while employed by a participating municipality and after meeting the vesting requirement of the benefit program. The service requirement is waived if the disability is the natural and proximate result of duty-connected causes.

The allowance is computed in the same manner as a service retirement allowance, except that the reduction for retirement before age 60 is not applied.

If disability is due to duty-connected causes, the amount of the retirement allowance shall not be less than 25% of the member's final average compensation.

Adoption of optional Benefit Program D-2 will provide a retirement allowance for a duty-connected disability that is the greater of:

- (i) 25% of the member's final average compensation; or
- (ii) A benefit based on 10 years of credited service in addition to the member's actual period of service, provided the total years of service do not exceed the greater of 30 years or the member's actual period of service.

Non-Duty Death Allowance (Plan Sections 26 and 28)

If a member or vested former member with the minimum years of service required to be vested dies before retirement, a monthly survivor allowance may be payable.

If the member is married, the spouse is the automatic beneficiary unless the spouse, in writing, declines a benefit in favor of another named beneficiary.

A contingent survivor beneficiary (named in an Option II Contingent Beneficiary Designation form filed with MERS) will receive a retirement allowance computed in the same manner as a service retirement allowance, based on service and final average compensation at death, but reduced to reflect an Option II (100% joint and survivor) election. The reduction for retirement before age 60 is not applied. Payment of a retirement allowance to the contingent survivor beneficiary of a deceased member commences immediately. Payment of a retirement allowance to the contingent survivor beneficiary of a deceased vested former member commences on the date the member would have first satisfied eligibility for retirement with an unreduced service retirement allowance.

If there is no named beneficiary and the member leaves a spouse, the spouse will receive a survivor allowance. Payment of a retirement allowance to the surviving spouse of a deceased member commences immediately. Payment of a retirement allowance to the surviving spouse of a deceased vested former member commences on the date the member would have first satisfied eligibility for retirement for an unreduced service retirement allowance. The amount of a surviving spouse's retirement allowance shall be 85% of the deceased member's or deceased vested former member's accrued retirement allowance computed in the same manner as a service retirement allowance, based on service and final average compensation at time of death.

The amount of a surviving spouse's benefit is always the larger of i) the benefit computed as a contingent survivor beneficiary, and ii) the 85% of accrued retirement allowance benefit described above.

If there is no named beneficiary and no retirement allowance being paid to a surviving spouse, unmarried children under age 21 will be paid an equal share of 50% of the deceased member's or deceased vested former member's accrued retirement allowance. The reduction for retirement before age 60 is not applied.

If no retirement allowance becomes payable at death, the member's accumulated contributions, if any, are paid to the beneficiary or to the decedent's estate.

Duty-Connected Death Allowance (Plan Section 27)

A duty death allowance, computed in the same manner as a non-duty death allowance, may be payable to a spouse or children if death occurs as the natural and proximate result of performance of duty with a participating municipality. The vesting requirement is waived, and the minimum benefit is 25% of the deceased member's final average compensation.

Adoption of optional Benefit Program D-2 will provide a retirement allowance for a duty-connected death that is the greater of:

- (i) 25% of the member's final average compensation; or
- (ii) A benefit based on 10 years of credited service in addition to the member's actual period of service, provided the total years of service do not exceed the greater of 30 years or the member's actual period of service.

Member Contributions (Plan Sections 32 and 35)

Each member contributes a percent of annual compensation, as selected by the municipality, on the member's annual compensation up to the compensation limit under Section 401(a)(17) of the Internal Revenue Code (see page 157). Any percentage from 0% to 10% (in 0.1% increments) may be selected. A 3%/5% contribution program was available prior to 1985 and may be continued (until any new benefit programs are adopted), but not adopted, after 1984. Under this program the member contributes 3% of the first \$4,200 of annual compensation and 5% of portions of annual compensation over \$4,200.

If a member leaves the employ of the municipality, or dies, without a retirement allowance or other benefit payable on his/her account, the member's accumulated contributions plus interest (at a rate determined by MERS, currently 1.5%) are refunded with spousal consent, to the member, if living, or to the member's surviving spouse, if any, or to a named beneficiary (after spousal consent, if applicable).

Note for MERS' Defined Contribution Program: The Annual Actuarial Valuation addresses assets and liabilities for participation under MERS' Defined Benefit Programs. MERS' Defined Contribution Program (Benefit Program DC), which first became available for adoption in late 1997, is not addressed in the valuation results as it is not a defined benefit program.

Post-Retirement Adjustments (Plan Sections 20-22)

Benefit E – provides a one-time benefit increase to present retirants and beneficiaries. The amount of the increase is equal to a fixed percentage of the present benefit, or a fixed dollar amount times the number of years since the later of retirement or the date specified in the resolution. Benefit E may be readopted from time to time.

Benefit E-1 – provides automatic 2.5% annual non-compounded benefit increases to persons (and their beneficiaries) retired before the effective date of Benefit E-1. Such increases are further limited to increases in the Consumer Price Index (CPI) if Benefit E-1 was adopted before January 1, 1999. For all adoptions or readoptions after that date, the increase is an automatic 2.5% non-compounded increase without any CPI limitation.

Benefit E-2 – provides automatic 2.5% annual non-compounded benefit increases to persons (and their beneficiaries) retired on or after the effective date of Benefit E-2. Such increases are further limited to increases in the Consumer Price Index (CPI) if Benefit E-2 was adopted before January 1, 1999. For all adoptions or readoptions after that date, the increase is an automatic 2.5% non-compounded increase without any CPI limitation.

Death-After-Retirement Surviving Spouse Benefit (Plan Sections 23 and 23A)

A retiring member electing form of payment SL (straight life retirement allowance) is normally paid a lifetime retirement allowance, with payments terminating at death. The retiring member could provide benefits to a surviving spouse or another named beneficiary (see below) by electing Option II (100% continuation to beneficiary) or Option II-A (75% continuation to beneficiary) or Option III (50% continuation to beneficiary). A surviving spouse is automatically the beneficiary to an Option II, IIA or III allowance unless the spouse, in writing, relinquishes the benefit to the member electing a straight life allowance or to another named beneficiary. Electing these alternate forms of payment would lower the retiring member's retirement allowance.

If Benefit Program RS50% is adopted, a member retiring on or after the effective date of Benefit RS50% may elect form of payment SL and still provide a 50% survivor benefit to the member's spouse. To be eligible for a surviving spouse benefit, the retiring member and spouse must have been married to each other both at the time of death and during the full one-year period just before retirement.

Municipal Employees' Retirement System of Michigan IRC Section 415(b)(1)(A) Benefit Dollar Limits - 2004

The limits are based on the retiree's age at retirement. The limit at ages 62-65 is indexed with inflation, in \$5,000 increments. The limits at earlier ages are then increased proportionately. The limit applies to the retiree's or beneficiary's employer-financed straight life benefit, except in the case of an Option II, IIA, or III election with the retiree's spouse as named beneficiary, in which case the limit applies to the employer-financed portion of the reduced joint and survivor benefit.

Age at Retirement	General Employees	Police, Fire & Emergency Medical#
25		•
35	\$ 29,208	\$ 165,000
36	30,882	165,000
37	32,664	165,000
38	34,562	165,000
39	36,585	165,000
40	38,743	165,000
41	41,047	165,000
42	43,509	165,000
43	46,142	165,000
44	48,961	165,000
45	51,982	165,000
46	55,224	165,000
47	58,706	165,000
48	62,452	165,000
49	66,486	165,000
	30,100	
50	70,836	165,000
51	75,535	165,000
52	80,618	165,000
53	86,126	165,000
54	92,104	165,000
55	98,605	165,000
56	105,689	165,000
57	113,422	165,000
58	121,884	165,000
59	131,162	165,000
60	141 205	165 000
60 61	141,385 152,505	165,000
62	152,595	165,000 165,000
63	165,000 165,000	165,000 165,000
64	165,000	165,000
 	100,000	100,000
65 & older	165,000	165,000

[#] If individual has at least 15 years of police, fire, and/or emergency medical service. Otherwise, same as general employees.

IRC Section 401(a)(17) Compensation Limit - 2004

For 2004 the IRC Section 401(a)(17) limit is \$205,000. This limit is indexed with inflation in \$5,000 increments.

ACTUARIAL ASSUMPTIONS

Actuarial Assumptions

To calculate MERS contribution requirements, assumptions are made about future events that could affect the amount and timing of benefits to be paid and the assets to be accumulated. The economic and demographic assumptions include:

- An assumed rate of investment return that is used to discount liabilities and project what plan assets will earn.
- A mortality table projecting the number of members who will die before retirement and the duration of benefit payments after retirement.
- Assumed retirement rates projecting when members will retire and commence receiving retirement benefits.
- A set of withdrawal and disability rates to estimate the number of members who will leave the work force before retirement.
- Assumed rates of salary increase to project member compensation in future years.

The actuarial assumptions used in connection with this December 31, 2003 actuarial valuation are unchanged from the December 31, 2002 valuation assumptions. The actuarial assumptions currently utilized are summarized below and on the following pages.

Interest Rate

Funding plan benefits involves the accumulation of assets to pay benefits in the future. These assets are invested and the net rate of investment earnings is a significant factor in determining the contributions required to support the ultimate cost of benefits. For the 2003 actuarial valuation, the net long-term investment yield is assumed to be 8%.

The reader should note that, given that the actuarial value of assets is currently 9% higher than the market value, meeting the actuarial assumption will require average future market returns that exceed the 8% investment return assumption.

Salary Increases

Because benefits are based on a member's final average compensation, it is necessary to make an assumption with respect to each member's estimated salary progression. The salary increase

assumption used in the actuarial valuation projects annual salary increases of 4.5% plus a percentage based on an age-related scale to reflect merit, longevity and promotional salary increases.

The salary increase assumption used for the valuation projects the following salary increases for selected ages:

Age	Base (Wage Inflation)	Merit and Longevity	Total Percentage Increase in Salary
20	4.50%	4.16%	8.66%
25	4.50	2.88	7.38
30	4.50	1.98	6.48
35	4.50	1.52	6.02
40	4.50	1.10	5.60
45	4.50	0.66	5.16
50	4.50	0.32	4.82
55	4.50	0.14	4.64
60	4.50	0.00	4.50

Inflation

Although no specific price inflation assumption is needed for this valuation, the 4.5% wage inflation assumption would be consistent with a price inflation of 3% to 4%.

Payroll Growth

For divisions that are not closed to new hires, the number of active members is projected to remain constant, and the total payroll is projected to increase 4.5% annually in the long term.

Withdrawal Rates

The withdrawal rates are used to estimate the number of employees at each age that are expected to terminate employment before qualifying for retirement benefits. The withdrawal rates do not apply to members eligible to retire, and do not include separation on account of death or disability. The assumed rates of withdrawal applied in the current valuation are based on years of service for members with less than 5 years of service, and based on age for members with 5 or more years of service.

Sample rates of withdrawal from active employment are shown below:

Sample Ages	Years of Service	% of Active Members Withdrawing Within the Next Year
	0	18.00%
	1	18.00
	2	16.00
	3	12.00
	4	10.00
20	5 and over	9.00
25		9.00
30		9.00
35		7.00
40		5.00
45		4.00
50		4.00
55		3.00
60		3.00
65		2.00
70		0.00

Retirement Rates

A schedule of retirement rates is used to measure the probability of eligible members retiring during the next year. To reflect the impact plan design may have on retirement experience, separate retirement rates apply to valuation divisions without Benefits F50, F55 or F(N), to those divisions that have adopted F55, to those that have adopted F50, and to those that have adopted F(N). The retirement rates in use for each category are shown below:

NORMAL RETIREMENT - AGE BASED - BENEFIT F(N) NOT ADOPTED

	Percent of Eligible Active Members Retiring Within Next Year				
Retirement Ages	Without F50 or F55 or F(N)	With F55	With F50		
50	` ,		22%		
51			22		
52			22		
53			22		
54			24		
55		18%	18		
56		15	14		
57		10	16		
58		15	18		
59		20	18		
60	20%	20	20		
61	24	24	24		
62	24	24	24		
63	24	24	24		
64	27	27	27		
65	30	30	30		
66	30	30	30		
67	30	30	30		
68	30	30	30		
69	30	30	30		
70	100	100	100		

NORMAL RETIREMENT - SERVICE BASED - BENEFIT F(N) ADOPTED

Years of Service	Percent of Eligible Active Members Retiring Within Next Year	Years of Service	Percent of Eligible Active Members Retiring Within Next Year	Years of Service	Percent of Eligible Active Members Retiring Within Next Year
20	22%	31	22%	41	24%
21	22	32	22	42	24
22	22	33	22	43	24
23	22	34	24	44	27
24	22	35	18	45	30
25	22	36	14	46	30
26	22	37	16	47	30
27	22	38	18	48	30
28	22	39	18	49	30
29	22	40	20	50	100
30	22				

Municipalities that have adopted a non-standard benefit multiplier after December 31, 1996 that is in excess of the B-4, 2.5% multiplier, will have a retirement rate equal to 75% at the first age at which unreduced plan benefits are available.

EARLY RETIREMENT - REDUCED BENEFIT

Retirement Ages	Percent of Eligible Active Members Retiring Within Next Year
50	3%
51	3
52	5
53	8
54	15
55	4
56	4
57	4
58	8
59	10

Disability Rates

Disability rates are used in the valuation to estimate the incidence of member disability in future years.

The assumed rates of disablement at various ages are shown below:

Percent Becoming Disabled Within Next Year
0.02%
0.02
0.02
0.02
0.05
0.12
0.25
0.40
0.45
0.50

85% of the disabilities are assumed to be non-duty and 15% of the disabilities are assumed to be duty related. For those plans which have adopted disability provision D-2, 70% of the disabilities are assumed to be non-duty and 30% are assumed to be duty related.

Mortality Table

In estimating the amount of the reserves required at the time of retirement to pay a member's benefit for the remainder of his or her lifetime, it is necessary to make an assumption with respect to the probability of surviving to retirement and the life expectancy after retirement.

The mortality table used to project the mortality experience of plan members is the 1994 Group Annuity Mortality Table. For disabled retirees, the regular mortality tables are used with a 3-year set forward in ages to reflect the higher expected mortality rates of disabled members.

90% of active member deaths are assumed to be non-duty deaths and 10% of the deaths are assumed to be duty related.

The life expectancies and mortality rates projected by the 1994 Group Annuity Mortality table for **non-disabled** members are shown below for selected ages:

		ed Years emaining	Mortality Rates		
Age	Male	Female	Male	Female	
20	58.90	63.60	0.05%	0.03%	
25	54.06	58.69	0.07	0.03	
30	49.25	53.77	0.08	0.04	
35	44.45	48.88	0.09	0.05	
40	39.64	44.01	0.11	0.07	
45	34.88	39.18	0.16	0.10	
50	30.19	34.39	0.26	0.14	
55	25.65	29.67	0.44	0.23	
60	21.33	25.09	0.80	0.44	
65	17.34	20.77	1.45	0.86	
70	13.79	16.80	2.37	1.37	
75	10.62	13.10	3.72	2.27	
80	7.87	9.81	6.20	3.94	

The life expectancies and mortality rates projected by the 1994 Group Annuity Mortality table for **disabled** members are shown below for selected ages:

		ed Years emaining	Mortali	ty Rates
Age	Male	Female	Male	Female
20	55.99	60.65	0.06%	0.03%
25	51.17	55.74	0.08	0.03
30	46.37	50.83	0.08	0.04
35	41.56	45.95	0.09	0.06
40	36.77	41.11	0.14	0.09
45	32.05	36.30	0.21	0.12
50	27.45	31.55	0.36	0.19
55	23.02	26.89	0.63	0.34
60	18.89	22.46	1.15	0.67
65	15.16	18.36	1.99	1.18
70	11.84	14.54	3.12	1.83
75	8.90	11.07	5.02	3.17
80	6.50	8.08	8.25	5.49

Miscellaneous and Technical Assumptions

Marriage Assumptions	-	70% of males and 70% of females are assumed to be married for purposes of death-in-service benefits. Male spouses are assumed to be three years older than female spouses.
Pay Increase Timing	-	Beginning of valuation year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the valuation date.
Pay Adjustment	-	For new hires the reported pay is annualized. If reported service is less than 1 year and reported date of hire is between 1/1/2003 and 12/31/2003, then annualized pay is equal to reported pay times 12, divided by (13 less month of hire).
Decrement Timing	-	Decrements of all types are assumed to occur mid-year.
Future Service	-	Members are assumed to earn 1.0 years of service in each future year.
Eligibility Testing	-	Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
Benefit Service	-	Exact fractional service is used to determine the amount of benefit payable.
Decrement Relativity	-	Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
Decrement Operation	-	Disability and death-in-service decrements do not operate during the first 5 years of service. Disability and withdrawal do not operate during retirement eligibility.
Normal Form of Benefit	-	The assumed normal form of benefit is the straight life form (all retiring members are assumed to elect Form of Payment SL).
Loads	-	None.
Incidence of Contributions	-	Contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made. New entrant normal cost contributions are applied to the funding of new entrant benefits.
Maximum Compensation	-	The dollar compensation limits under Section 401(a)(17) of the Internal Revenue Code are projected to increase 4.5% annually. No member or employer contributions are projected to be made on the portion of any member's annual compensation in excess of the IRC Section 401(a)(17) limit for the year.
Maximum Benefit	-	The dollar benefit limitations under Section 415 of the Internal Revenue Code are projected to increase 4.5% annually. Employee divisions 02, 20-29, 05 and 50-59 are presumed eligible for the public safety benefit limits.

ACTUARIAL FUNDING METHOD

The Retirement Board has adopted funding methodology for the Retirement System to achieve the following major objectives:

- Develop level required contribution rates as a percentage of payroll;
- Finance benefits earned by present employees on a current basis;
- Accumulate assets to enhance members' benefit security;
- Produce investment earnings on accumulated assets to help meet future benefit costs;
- Make it possible to estimate the long-term actuarial cost of proposed amendments to System provisions; and
- Assist in maintaining the Retirement System's long-term financial viability.

The basic funding objective is a level pattern of cost as a percentage of salary throughout each member's working lifetime. The funding method used in this actuarial valuation – the entry age normal cost method – is intended to meet this objective and result in a relatively level long-term contribution requirement as a percentage of salary.

Under the entry age normal cost method, the total actuarially-determined contribution requirement is equal to the sum of the normal cost plus the payment required to fund the unfunded actuarial accrued liability over a period of years. Funding or amortizing the unfunded actuarial accrued liability includes a payment toward the liability (principal) plus a payment to reflect the time value of money (interest).

Normal Cost

In general terms, the normal cost is the cost of benefit rights accruing on the basis of current service. Technically, the normal cost rate is the level percentage-of-salary contribution required each year, with respect to each member, to accumulate over his or her projected working lifetime the reserves needed to meet the cost of earned benefits. The normal cost represents the ultimate cost of the Retirement System, if the unfunded liability is paid up and the actual experience of the System conforms to the assumptions.

Actuarial Accrued Liability

The total actuarial present value of future benefits is computed using the valuation's actuarial assumptions. Subtracting the present value of future normal costs results in the actuarial accrued liability.

The total actuarial accrued liability essentially represents the amount that would have been accumulated as of December 31, 2003, if contributions sufficient to meet the normal costs of the Retirement System had been made each year in the past, benefit provisions had always been the same as current benefit provisions, and actual past experience had always conformed to current actuarial assumptions. If assets equaled the total accrued liability, there would be no unfunded liability and future contribution requirements would consist solely of the calculated normal cost rates.

Amortization of Unfunded Actuarial Accrued Liability

Unfunded actuarial accrued liability is amortized by level percent of payroll contributions over a period of years. Active member payroll is assumed to increase 4.5% a year for the purpose of determining the level percent contributions. The standard amortization period to fund the unfunded liability is 30 years for positive unfunded liabilities, and 10 years for negative unfunded liabilities, with these time periods reestablished with each annual actuarial valuation. However, municipalities that entered MERS before January 1, 2000 may currently have an amortization period that is longer than 30 years that reduces annually by 1 year until the period reaches 30 years. At that point, the amortization period will remain at 30 years. All new municipalities entering MERS on and after January 1, 2000 have a 30 year amortization. For divisions that are closed to new hires, the amortization period for positive unfunded liabilities is decreased annually by 2 years until the period reaches 5 years. At that point, the amortization period will remain at 5 years. Shorter amortization periods may be elected by a municipality (but not shorter than 5 years for negative unfunded liabilities). Table 16 in the results section of this report indicates the current length of the amortization period for each division. Note that when the 10 year amortization is used for negative unfunded liabilities, Table 16 reports the amortization in two parts: i) a long term credit based on the long term amortization period (usually 30 years), plus ii) an overfunding credit resulting from using a 10 year amortization.

Present Value of Accrued Benefits

The present value of accrued benefits represents the actuarial value of benefits that have been earned as of the valuation date for all members of the valuation division. This benefit reflects the final average compensation and plan benefit service of each member, and plan features of the member's valuation division as of the valuation date. Included in this value is the current value of vested benefits for members who have met plan vesting requirements and the current value of non-vested benefits for members who have not yet met plan vesting requirements. Regardless of plan vesting service, all member contributions are vested. Active members are assumed to continue in employment until retirement, death, disability or termination, but benefit amounts are frozen on the valuation date.

Termination Liability

The termination liability represents the value of the benefits that have been earned as of the valuation date based on final average compensation and benefit service as of the valuation date. All active members are assumed to terminate employment on the valuation date. Vested active members are assumed to retire at the first age when the member would be eligible for unreduced deferred retirement benefits, assuming no continued employment after the valuation date. Non-vested active members are assumed to only receive a refund of member contributions, if any.

ASSET VALUATION METHOD

The actuarial value of assets is determined on the basis of a method that calculates expected investment income at the valuation rate of return and adds a portion of the difference between the expected investment income and actual investment income earned on a market value basis. The difference in investment income between expected return and market return is recognized over a 5-year period at the rate of 20% per year. This asset valuation method was first adopted for the December 31, 1993 valuation, and is applied as follows:

Actuarial Value equals:

- (a) Actuarial value of assets from the previous actuarial valuation, plus
- (b) Aggregate employer and member contributions since the last valuation, minus
- (c) Benefit payments and refunds of member contributions since the last valuation, plus
- (d) Estimated investment income at the 8% valuation interest rate, plus
- (e) Portion of gain (loss) recognized in the current valuation.

For the above purpose, gain (loss) is defined as the excess during the period of the investment return on the market value of assets over the expected investment income. The portion recognized in the valuation is 20% of the current year's gain (loss) plus 20% of the gain (loss) from each of the 4 preceding years.

During 2003, the approximate net investment return on average total assets at actuarial value (determined as the actuarial value of investment income divided by the average actuarial value of assets during the year) was 8.00%. The corresponding amounts for 2002, 2001, 2000 and 1999 were 3.43%, 7.72%, 10.36% and 15.38%, respectively.

For the December 31, 2003 valuation, the actuarial value of assets is equal to 109.52% of market value (compared to 125.85%, 110.60%, 100.07% and 87.89% in 2002, 2001, 2000 and 1999, respectively). This percentage is applied to each division's reported market value of assets to estimate the actuarial value of assets for the division. The chart on page 171 provides the details of the derivation of the actuarial value of assets for the retirement system in the aggregate.

The reader should note that, given that the actuarial value of assets is currently 9% higher than the market value, meeting the actuarial assumption will require average future market returns that exceed the 8% investment return assumption.

ONE-TIME CHANGE TO THE ASSET VALUATION METHOD

The very favorable investment environment of 2003 reversed the downward asset trend of the previous three years. The MERS portfolio generated over 24% investment return in 2003. Normally in the actuarial valuation process, this investment gain would be equally spread over five years (2003-2007), as described on the previous page. This is standard practice among public employee retirement plans, and reduces the volatility in the results of the actuarial valuations.

Given the market turnaround, at the March 10, 2004 meeting, the Retirement Board adopted a one-time adjustment to the actuarial valuation process to slightly accelerate the recognition of the favorable investment return of 2003. MERS-wide, this will prevent the average funded levels from declining this year, and the average 2005 employer contribution requirements from increasing.

The Retirement Board's action will result in more stable contribution requirements in the 2003 actuarial reports. Of course, each of the 1,800+ employee divisions is different. As always, some contribution rates will decrease and some will increase, depending on changes in the covered employee and retiree groups, and changes (if any) in adopted benefit provisions.

Municipal Employees' Retirement System of Michigan Derivation of Actuarial Value of Assets

Valuation Date December 31:	1999	2000	2001	2002	2003
Beginning of Year Assets					
a) Market Value	\$ 3,411,188,529	\$ 3,941,864,651	\$ 3,788,886,471	\$ 3,647,820,869	\$ 3,285,304,333
b) Valuation Assets	3,031,278,484	3,464,584,875	3,791,423,339	4,034,377,419	4,134,404,645
2. End of Year Market Value Assets	3,941,864,651	3,788,886,471	3,647,820,869	3,285,304,333	4,071,997,180
3. Net Additions to Market Value					
a) Net Contributions	161,911,772	162,703,877	154,103,475	167,427,558	223,450,393
b) Net Investment Income = (3d) - (3a) - (3c)	561,188,970	(122,407,374)	(93,269,286)	(324,926,459)	792,139,959
c) Benefit Payments	(192,424,619)	(193,274,683)	(201,899,791)	(205,017,635)	(228,897,505)
d) Total Additions to Market Value = (2) - (1a)	530,676,123	(152,978,180)	(141,065,602)	(362,516,536)	786,692,847
4. Average Valuation Assets =					
(1b) + .5x[(3a) + (3c)]	3,016,022,060	3,449,299,472	3,767,525,181	4,015,582,381	4,131,681,089
5. Expected Income at Valuation Rate = 8% x (4)	241,281,765	275,943,958	301,402,014	321,246,590	330,534,487
6. $Gain (Loss) = (3b) - (5)$	319,907,205	(398,351,332)	(394,671,300)	(646,173,049)	461,605,472
7. Phased-In Recognition of Investment Return					
a) Current Year: 0.2 x (6)	63,981,441	(79,670,266)	(78,934,260)	(129,234,610)	
b) First Prior Year	40,228,410	63,981,441	(79,670,266)	(78,934,260)	
c) Second Prior Year	43,743,056	40,228,410	63,981,441	(79,670,266)	
d) Third Prior Year	13,182,671	43,743,056	40,228,410	63,981,441	
e) Fourth Prior Year	61,401,895	13,182,671	43,743,057	40,228,408	
f) 1999-2003 Years Combined	N/A	N/A	N/A	N/A	0
g) Total Recognized Investment Gain (Loss)	222,537,473	81,465,312	(10,651,618)	(183,629,287)	0
8. Change in Valuation Assets					
(3a) + (3c) + (5) + (7g)	433,306,391	326,838,464	242,954,080	100,027,226	325,087,375
9. End of Year Assets					
a) Market Value = (2)	3,941,864,651	3,788,886,471	3,647,820,869	3,285,304,333	4,071,997,180
b) Valuation Assets = $(1b) + (8)$	3,464,584,875	3,791,423,339	4,034,377,419	4,134,404,645	4,459,492,020
c) Difference Between Market & Valuation Assets	477,279,776	(2,536,868)	(386,556,550)	(849,100,312)	(387,494,840)
		·		, , , , , , , , , , , , , , , , , , , ,	. ,
10. Recognized Rate of Return = $[(5) + (7g)] / (4)$	15.38%	10.36%	7.72%	3.43%	8.00%
11. Market Rate of Return	16.53%	(3.12%)	(2.48%)	(8.95%)	24.13%
12. Valuation Asset Adjustment Factor = (9b) / (9a)	0.878920	1.000670	1.105969	1.258454	1.095161



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