

Ingham County (3303)
in the
MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM
OF MICHIGAN
Annual Actuarial Valuation as of December 31, 2000

August, 2001

**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, 2000. The report includes the determination of liabilities and contribution rates resulting from the participation in the Municipal Employees' Retirement System of Michigan ("MERS").

There have been changes to the actuarial valuation assumptions for this valuation. The changes are a result of an experience study that was conducted for the system and were made to better reflect past experience and future expectations. Please see the Summary of Plan Provisions and Actuarial Assumptions and Actuarial Funding Method in the Appendix for complete details. The changes include:

- 1. Withdrawal Rates - For divisions that had a HIGH Withdrawal assumption in the previous valuation, the new rates will be phased in over a period of three years (divisions are denoted with an "*" in Table 1). For all other divisions, the new rates will begin with this valuation.**
- 2. Retirement Rates - For all divisions, the new rates will begin with this valuation.**
- 3. Mortality Rates - The current rates will be based on the 1994 Group Annuity Mortality Table. The previous rates were based on the 1971 Group Annuity Mortality Table Projected to 1984.**

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 the valuation produce results that we believe are reasonable.

Sincerely,

THE SEGAL COMPANY

**Thomas P. Dawidowicz, F.S.A., M.A.A.A.
Vice President and Actuary**

Table of Contents

	<u>Page</u>
Table 1 - Benefit Provisions Evaluated and/or Considered	1
Table 2 - Membership Characteristics	2
Table 3 - Active and Vested Former Members in the Valuation	3
Table 4 - Historical Growth of Retiree and Beneficiary Rolls.....	4
Table 5 - Retirants and Beneficiaries on Rolls as of December 31, 2000	5
Table 6A - Value of Accrued Benefits as of December 31, 2000	6A
Table 6B - Present Value of Accrued Benefits Funding Percentage	6B
Table 7 - Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2000	7
Table 8 - Computed Employer Contributions to the Retirement System.....	8
Table 9 - Computed Employer Contributions and Funding Credits.....	9
Table 10 - Computed Employer Contributions - Comparative Statement	10
Table 11 - Aggregate Accrued Liabilities - Comparative Schedule	11
Table 12 - GASB 25 and GASB 27 Information	12

Table 1**Ingham County (3303)****Benefit Provisions Evaluated and/or Considered**

Division Code	Valuation Division	Benefit Provisions	Member Contributions
01	Confidentials	B-3 F55 (15 Years) V-6 FAC-5 E(1/01/1988)	4.50%
02	Sheriff FOP Spvs	3.20% (to a max of 80%) 25 and Out F55 (15 Years) V-10 FAC-3 E(1/01/1988)	19.61%
04	* MCF	C-1(OLD) V-10 FAC-5 E(1/01/1995)	0.00%
09	Judges	B-3 F55 (15 Years) V-6 FAC-5	0.00%
10	Gnrl Mgmt	B-3 F55 (15 Years) V-6 FAC-5 E(1/01/1988)	5.00%
11	Gnrl Library	C-1(OLD) V-10	0.00%

Table 1**Ingham County (3303)****Benefit Provisions Evaluated and/or Considered**

Division Code	Valuation Division	Benefit Provisions	Member Contributions
11 (Continued)	Gnrl Library	FAC-5 E(1/01/1994)	
12	Gnrl ICEA Profs	B-3 F55 (15 Years) V-10 FAC-5 E(1/01/1988)	6.08%
13	Gnrl OPEIU Prob	B-3 F55 (15 Years) V-10 FAC-5 E(1/01/1988)	7.13%
14	Gnrl TOPS UAW	B-3 F55 (15 Years) V-10 FAC-5 E(1/01/1988)	4.85%
15	Animal Cntrl FOP	B-4 F50 (25 Years) F55 (15 Years) V-10 FAC-3 E-2(1/01/2001) (2.50%)	8.90%
16	* Gnrl Commsnrs	C-2/B-1 F55 (15 Years) V-6 FAC-5	3.56%

Table 1**Ingham County (3303)****Benefit Provisions Evaluated and/or Considered**

Division Code	Valuation Division	Benefit Provisions	Member Contributions
16 (Continued)	Gnrl Commsnrs	E(1/01/1988)	
17	ICEA Nurses	B-3 F55 (15 Years) V-6 FAC-3 E-2(7/01/1995) (2.50%)	11.87%
18	ICEA Ct. Prof	B-3 20 and Out F55 (15 Years) V-10 FAC-5	9.84%
19	Cnstutnl Offcls	B-3 F55 (15 Years) V-6 FAC-5	5.00%
21	FOP Shrf Deputies	3.20% (to a max of 80%) F50 (25 Years) F55 (15 Years) V-10 FAC-5	10.43%
40	* ICEA Unit 111	C-2/B-1 F55 (15 Years) V-10 FAC-5 E(1/01/1995)	3.00%
41	MCF Management	C-2/B-1	0.00%

Table 1**Ingham County (3303)****Benefit Provisions Evaluated and/or Considered**

Division Code	Valuation Division	Benefit Provisions	Member Contributions
42	* ICEA Unit 11	F55 (15 Years) V-6 FAC-5 E(1/01/1995) C-2/B-1 F55 (15 Years) V-6 FAC-3	3.95%
43	* ICEA Unit 1	C-2/B-1 F55 (15 Years) V-6 FAC-5	3.50%
90	Asst Pros Attnys	B-4 F55 (15 Years) V-6 FAC-5	1.40%
91	Parks Union Empl	B-3 V-10 FAC-5	0.00%
92	Parks Non Union	B-4 F55 (25 Years) V-10 FAC-5	0.00%
93	Lgl Rsrch Clerks	C-1(OLD) V-10 FAC-5	0.00%

Table 2

Ingham County (3303)

Membership Characteristics

Valuation Division	2000 Valuation		1999 Valuation	
	Number	Annual Payroll	Number	Annual Payroll
01 - Confidential	33	\$1,167,155	31	\$1,068,662
02 - Sheriff FOP Spvs	30	1,735,265	30	1,703,939
04 - MCF	123	2,410,936	116	2,227,648
09 - Judges	7	235,139	10	282,700
10 - Gnrl Mgmt	73	4,632,650	76	4,643,352
11 - Gnrl Library	23	718,540	24	733,396
12 - Gnrl ICEA Profs	113	4,575,833	107	4,249,788
13 - Gnrl OPEIU Prob	38	1,718,096	38	1,582,996
14 - Gnrl TOPS UAW	374	10,401,805	364	9,944,587
15 - Animal Cntrl FOP	10	330,848	9	306,275
16 - Gnrl Commsnrs	5	63,395	8	103,005
17 - ICEA Nurses	67	2,553,922	66	2,449,404
18 - ICEA Ct. Prof	35	1,515,603	37	1,559,574
19 - Cnstutnl Offcls	6	416,485	6	404,043
21 - FOP Shrf Deputies	154	6,160,326	152	5,940,955
40 - ICEA Unit 111	25	736,550	28	755,810
41 - MCF Management	19	781,285	22	845,543
42 - ICEA Unit 11	9	330,997	9	318,233
43 - ICEA Unit 1	7	243,297	5	211,746
90 - Asst Pros Attnys	29	1,681,667	29	1,534,889
91 - Parks Union Empl	6	199,329	6	195,920
92 - Parks Non Union	3	171,663	4	196,079
93 - Lgl Rsrch Clerks	8	225,369	6	163,718
Total	1,197	\$43,006,155	1,183	\$41,422,262

Table 3**Ingham County (3303)****Active and Vested Former Members in the Valuation****Comparative Schedule**

Valuation Date December 31,	-- -- -- -- Active Members -- -- -- --					Inactive Vested Former Members
	Number	Annual Payroll	Average Annual Pay	Average Age	Average Service	
1986	2,392	\$46,337,219	\$19,372	37.6	6.5	64
1987	2,478	49,357,171	19,918	38.0	6.5	74
1988	2,512	52,375,747	20,850	38.4	6.9	90
1989	2,494	55,222,198	22,142	38.7	7.3	104
1990	2,659	62,448,733	23,486	38.9	7.2	147
1991	2,781	68,316,570	24,565	39.1	7.4	152
1992	1,197	31,954,624	26,696	41.0	9.0	151
1993	1,191	32,835,580	27,569	41.8	9.4	159
1994	1,214	34,660,368	28,550	42.1	9.5	164
1995	1,210	35,260,750	29,141	41.9	9.7	169
1996	1,222	36,804,795	30,118	42.1	9.7	193
1997	1,198	37,104,777	30,972	42.3	9.9	221
1998	1,161	40,831,800	35,169	42.5	10.0	218
1999	1,183	41,422,262	35,014	42.7	9.8	227
2000	1,197	43,006,155	35,928	42.7	9.6	236

Table 4**Ingham County (3303)****Historical Growth of Retiree and Beneficiary Rolls**

Valuation Date December 31,	Added to Rolls		Removed From Rolls		Year End	
	Number	Annual Benefits	Number	Annual Benefits	Number	Annual Benefits
1986	31	\$124,797	8	\$20,191	349	\$1,023,534
1987	35	309,523	11	16,144	373	1,316,913
1988	29	171,844	9	38,179	393	1,450,578
1989	30	231,715	15	52,076	408	1,630,217
1990	42	308,113	9	18,820	441	1,919,510
1991	35	248,019	8	47,293	468	2,120,236
1992	20	200,120	198	846,075	290	1,474,281
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

Table 5

Ingham County (3303)

Retirants and Beneficiaries on Rolls as of December 31, 2000

Distribution by Type of Benefit Being Paid

Benefits Being Paid to:	Annual Benefits	
	Number	Amount
Age and service retirants	447	\$5,327,568
Non-duty disability retirants	20	147,929
Duty disability retirants	2	7,701
Beneficiaries of deceased retirants	34	188,558
Beneficiaries of deceased members		
Non-duty death	23	121,161
Duty death	1	19,155
	<hr/>	<hr/>
Total Benefits Being Paid	527	\$5,812,071

Table 6-A

Ingham County (3303)

Value of Accrued Benefits as of December 31, 2000

Type of Member	Present Value of Vested Benefits	Present Value of Accrued Benefits
Active Members		
01 - Confidential	\$1,408,227	\$1,567,785
02 - Sheriff FOP Spvs	3,437,220	4,780,261
04 - MCF	1,040,659	1,229,813
09 - Judges	379,834	397,691
10 - Gnrl Mgmt	7,626,240	8,361,804
11 - Gnrl Library	687,597	768,757
12 - Gnrl ICEA Profs	3,993,641	4,707,421
13 - Gnrl OPEIU Prob	3,186,181	3,499,954
14 - Gnrl TOPS UAW	9,511,151	10,949,005
15 - Animal Cntrl FOP	404,916	640,875
16 - Gnrl Commsnrs	41,679	48,533
17 - ICEA Nurses	3,046,816	3,426,654
18 - ICEA Ct. Prof	2,378,044	2,685,834
19 - Cnstutnl Offcls	449,398	485,148
21 - FOP Shrf Deputies	6,186,954	7,681,238
40 - ICEA Unit 111	442,935	544,668
41 - MCF Management	146,885	224,321
42 - ICEA Unit 11	105,758	146,793
43 - ICEA Unit 1	121,177	143,961
90 - Asst Pros Attnys	1,955,039	2,335,772
91 - Parks Union Empl	49,115	83,598
92 - Parks Non Union	518,239	541,829
93 - Lgl Rsrch Clerks	<u>59,548</u>	<u>60,887</u>
Totals	\$47,177,253	\$55,312,602
Vested Former Members	8,569,286	8,569,286
Retired Members and Beneficiaries	<u>57,255,028</u>	<u>57,255,028</u>
Total Present Value of Benefits	\$113,001,567	\$121,136,916
Total Valuation Assets	<u>123,308,414</u>	<u>123,308,414</u>
Unfunded(Overfunded) Value of Accrued Benefits	(\$10,306,847)	(\$2,171,498)

Table 6-B

Ingham County (3303)

Present Value of Accrued Benefits Funding Percentage

Total Members	Present Value of Accrued Benefits	Valuation Assets	Percent Funded
01 - Confidential	\$4,145,405	\$4,464,741	107.7 %
02 - Sheriff FOP Spvs	18,533,446	13,284,268	71.7
04 - MCF	3,619,979	4,018,398	111.0
09 - Judges	662,056	719,155	108.6
10 - Gnrl Mgmt	16,687,110	17,355,161	104.0
11 - Gnrl Library	1,950,766	2,041,607	104.7
12 - Gnrl ICEA Profs	7,403,518	8,592,827	116.1
13 - Gnrl OPEIU Prob	4,591,379	5,095,005	111.0
14 - Gnrl TOPS UAW	22,129,676	26,494,534	119.7
15 - Animal Cntrl FOP	873,504	669,859	76.7
16 - Gnrl Commsnrs	248,241	282,549	113.8
17 - ICEA Nurses	6,263,934	6,133,576	97.9
18 - ICEA Ct. Prof	6,404,894	5,372,061	83.9
19 - Cnstutnl Offcls	1,282,605	1,469,210	114.5
21 - FOP Shrf Deputies	17,385,966	17,621,401	101.4
40 - ICEA Unit 111	2,575,981	3,006,929	116.7
41 - MCF Management	814,246	1,110,871	136.4
42 - ICEA Unit 11	289,929	282,064	97.3
43 - ICEA Unit 1	863,181	579,721	67.2
90 - Asst Pros Attnys	3,724,786	3,925,321	105.4
91 - Parks Union Empl	83,598	136,961	163.8
92 - Parks Non Union	541,829	594,740	109.8
93 - Lgl Rsrch Clerks	<u>60,887</u>	<u>57,453</u>	<u>94.4</u>
Municipality Totals	\$121,136,916	\$123,308,414	101.8 %

Comment: Total Members includes active members, vested former members, retired members and beneficiaries for each division.

Table 7

Ingham County (3303)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2000

	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
Reserve for Employer Contributions :				
01 - Confidential	\$3,395,611	\$2,656,431		\$739,180
02 - Sheriff FOP Spvs	5,262,362	0		5,262,362
04 - MCF	2,761,787	2,023,154		738,633
09 - Judges	591,621	513,725		77,896
10 - Gnrl Mgmt	11,743,442	8,384,917		3,358,525
11 - Gnrl Library	1,495,094	1,023,415		471,679
12 - Gnrl ICEA Profs	7,345,903	5,198,406		2,147,497
13 - Gnrl OPEIU Prob	5,048,444	3,588,607		1,459,837
14 - Gnrl TOPS UAW	17,194,197	14,104,169		3,090,028
15 - Animal Cntrl FOP	1,090,517	401,372		689,145
16 - Gnrl Commsnrs	110,118	108,190		1,928
17 - ICEA Nurses	4,855,160	3,168,535		1,686,625
18 - ICEA Ct. Prof	2,913,261	1,030,770		1,882,491
19 - Cnstutnl Offcls	575,881	503,589		72,292
21 - FOP Shrf Deputies	9,116,248	5,246,183		3,870,065
40 - ICEA Unit 111	833,622	1,030,645		(197,023)
41 - MCF Management	627,177	617,033		10,144
42 - ICEA Unit 11	349,522	232,578		116,944
43 - ICEA Unit 1	244,838	0		244,838
90 - Asst Pros Attnys	4,176,637	2,787,880		1,388,757
91 - Parks Union Empl	217,618	135,201		82,417
92 - Parks Non Union	736,256	546,372		189,884
93 - Lgl Rsrch Clerks	<u>77,748</u>	<u>57,453</u>		<u>20,295</u>
Totals	\$80,763,064	\$53,358,627	66.1 %	\$27,404,437
Reserve for Employees Contributions :				
01 - Confidential	\$439,843	\$439,843		
02 - Sheriff FOP Spvs	1,658,471	1,658,471		
04 - MCF	55,081	55,081		

For 2000, valuation assets are equal to 1.000670 times market value.

Table 7 (Continued)

Ingham County (3303)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2000

	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
Reserve for Employees: Contributions (Continued):				
09 - Judges	\$6,813	\$6,813		
10 - Gnrl Mgmt	1,826,918	1,826,918		
11 - Gnrl Library	127,139	127,139		
12 - Gnrl ICEA Profs	1,455,638	1,455,638		
13 - Gnrl OPEIU Prob	698,434	698,434		
14 - Gnrl TOPS UAW	2,938,409	2,938,409		
15 - Animal Cntrl FOP	109,554	109,554		
16 - Gnrl Commsnrs	25,770	25,770		
17 - ICEA Nurses	924,092	924,092		
18 - ICEA Ct. Prof	796,556	796,556		
19 - Cnstutnl Offcls	168,164	168,164		
21 - FOP Shrf Deputies	2,950,251	2,950,251		
40 - ICEA Unit 111	151,136	151,136		
41 - MCF Management	51,573	51,573		
42 - ICEA Unit 11	49,486	49,486		
43 - ICEA Unit 1	74,084	74,084		
90 - Asst Pros Attnys	179,358	179,358		
91 - Parks Union Empl	1,760	1,760		
92 - Parks Non Union	48,368	48,368		
93 - Lgl Rsrch Clerks	0	0		
Totals	\$14,736,898	\$14,736,898	100.0 %	\$0
Reserve for Retired Benefit Payments :				
01 - Confidentials	\$1,368,467	\$1,368,467		\$0
02 - Sheriff FOP Spvs	13,506,600	11,625,797		1,880,803
04 - MCF	1,940,163	1,940,163		0
09 - Judges	198,617	198,617		0
10 - Gnrl Mgmt	7,143,326	7,143,326		0
11 - Gnrl Library	891,053	891,053		0

For 2000, valuation assets are equal to 1.000670 times market value.

Table 7 (Continued)

Ingham County (3303)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2000

	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
Reserve for Retired (Continued): Benefit Payments:				
12 - Gnrl ICEA Profs	\$1,938,783	\$1,938,783		\$0
13 - Gnrl OPEIU Prob	807,964	807,964		0
14 - Gnrl TOPS UAW	9,451,956	9,451,956		0
15 - Animal Cntrl FOP	158,933	158,933		0
16 - Gnrl Commsnrs	148,589	148,589		0
17 - ICEA Nurses	2,040,949	2,040,949		0
18 - ICEA Ct. Prof	3,544,735	3,544,735		0
19 - Cnstutnl Offcls	797,457	797,457		0
21 - FOP Shrf Deputies	9,424,967	9,424,967		0
40 - ICEA Unit 111	1,825,148	1,825,148		0
41 - MCF Management	442,265	442,265		0
42 - ICEA Unit 11	0	0		0
43 - ICEA Unit 1	666,973	505,637		161,336
90 - Asst Pros Attnys	958,083	958,083		0
91 - Parks Union Empl	0	0		0
92 - Parks Non Union	0	0		0
93 - Lgl Rsrch Clerks	0	0		0
Totals	\$57,255,028	\$55,212,889	96.4 %	\$2,042,139
Total Reserve:				
01 - Confidential	\$5,203,921	\$4,464,741	85.8 %	\$739,180
02 - Sheriff FOP Spvs	20,427,433	13,284,268	65.0	7,143,165
04 - MCF	4,757,031	4,018,398	84.5	738,633
09 - Judges	797,051	719,155	90.2	77,896
10 - Gnrl Mgmt	20,713,686	17,355,161	83.8	3,358,525
11 - Gnrl Library	2,513,286	2,041,607	81.2	471,679
12 - Gnrl ICEA Profs	10,740,324	8,592,827	80.0	2,147,497
13 - Gnrl OPEIU Prob	6,554,842	5,095,005	77.7	1,459,837
14 - Gnrl TOPS UAW	29,584,562	26,494,534	89.6	3,090,028
15 - Animal Cntrl FOP	1,359,004	669,859	49.3	689,145

For 2000, valuation assets are equal to 1.000670 times market value.

Table 7 (Continued)

Ingham County (3303)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2000

	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
Total Reserve (Continued):				
16 - Gnrl Commsnrs	\$284,477	\$282,549	99.3 %	\$1,928
17 - ICEA Nurses	7,820,201	6,133,576	78.4	1,686,625
18 - ICEA Ct. Prof	7,254,552	5,372,061	74.1	1,882,491
19 - Cnstutnl Offcls	1,541,502	1,469,210	95.3	72,292
21 - FOP Shrf Deputies	21,491,466	17,621,401	82.0	3,870,065
40 - ICEA Unit 111	2,809,906	3,006,929	107.0	(197,023)
41 - MCF Management	1,121,015	1,110,871	99.1	10,144
42 - ICEA Unit 11	399,008	282,064	70.7	116,944
43 - ICEA Unit 1	985,895	579,721	58.8	406,174
90 - Asst Pros Attnys	5,314,078	3,925,321	73.9	1,388,757
91 - Parks Union Empl	219,378	136,961	62.4	82,417
92 - Parks Non Union	784,624	594,740	75.8	189,884
93 - Lgl Rsrch Clerks	<u>77,748</u>	<u>57,453</u>	<u>73.9</u>	<u>20,295</u>
Totals	\$152,754,990	\$123,308,414	80.7 %	\$29,446,576

For 2000, valuation assets are equal to 1.000670 times market value.

Table 8

Ingham County (3303)

Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2002

Valuation Division	Employer Contributions As Percentages of Payroll and Dollars		
	Normal Cost	Unfunded Accrued Liability	Totals
<u>Cost as percentage of payroll</u>			
01 - Confidential	5.02 %	3.43 %	8.45 %
02 - Sheriff FOP Spvs	(2.48)	22.32	19.84
04 - MCF	4.00	1.66	5.66
09 - Judges	9.80	1.80	11.60
10 - Gnrl Mgmt	4.85	3.93	8.78
11 - Gnrl Library	6.30	3.56	9.86
12 - Gnrl ICEA Profs	3.83	2.55	6.38
13 - Gnrl OPEIU Prob	2.01	4.61	6.62
14 - Gnrl TOPS UAW	4.60	1.61	6.21
15 - Animal Cntrl FOP	3.54	11.30	14.84
16 - Gnrl Commsnrs	3.07	0.16	3.23
17 - ICEA Nurses	3.21	3.58	6.79
18 - ICEA Ct. Prof	2.05	6.74	8.79
19 - Cnstutnl Offcls	5.48	0.94	6.42
21 - FOP Shrf Deputies	3.55	3.41	6.96
40 - ICEA Unit 111	3.85	(1.44)	2.41
41 - MCF Management	7.79	0.07	7.86
42 - ICEA Unit 11	4.90	1.92	6.82
43 - ICEA Unit 1	3.50	9.05	12.55
90 - Asst Pros Attnys	8.96	4.48	13.44
91 - Parks Union Empl	8.13	2.24	10.37
92 - Parks Non Union	6.58	6.00	12.58
93 - Lgl Rsrch Clerks	6.24	0.49	6.73
<u>Annual Dollar Contributions*</u>			
01 - Confidential	\$62,554	\$42,824	\$105,378
02 - Sheriff FOP Spvs	(46,164)	413,837	367,673
04 - MCF	102,914	42,792	145,706
09 - Judges	24,607	4,513	29,120

*Based on valuation payroll, projected to the middle of the ensuing fiscal year. The projection factor is equal to 1.06825. Unfunded accrued liabilities, if any, are financed over a period of 30 years.

Table 8

Ingham County (3303)

Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2002

Valuation Division	Employer Contributions As Percentages of Payroll and Dollars		
	Normal Cost	Unfunded Accrued Liability	Totals
<u>Annual Dollar Contribution</u>			
10 - Gnrl Mgmt	240,253	194,575	434,828
11 - Gnrl Library	48,338	27,327	75,665
12 - Gnrl ICEA Profs	187,282	124,414	311,696
13 - Gnrl OPEIU Prob	36,906	84,575	121,481
14 - Gnrl TOPS UAW	511,591	179,020	690,611
15 - Animal Cntrl FOP	12,494	39,925	52,419
16 - Gnrl Commsnrs	2,079	112	2,191
17 - ICEA Nurses	87,681	97,714	185,395
18 - ICEA Ct. Prof	33,120	109,061	142,181
19 - Cnstutnl Offcls	24,359	4,188	28,547
21 - FOP Shrf Deputies	233,796	224,211	458,007
40 - ICEA Unit 111	30,257	(11,413)	18,844
41 - MCF Management	65,042	588	65,630
42 - ICEA Unit 11	17,322	6,775	24,097
43 - ICEA Unit 1	9,095	23,532	32,627
90 - Asst Pros Attnys	161,034	80,457	241,491
91 - Parks Union Empl	17,313	4,775	22,088
92 - Parks Non Union	12,072	11,001	23,073
93 - Lgl Rsrch Clerks	<u>15,018</u>	<u>1,176</u>	<u>16,194</u>
Totals	\$1,888,963	\$1,705,979	\$3,594,942

*Based on valuation payroll, projected to the middle of the ensuing fiscal year. The projection factor is equal to 1.06825. Unfunded accrued liabilities, if any, are financed over a period of 30 years.

Table 9**Ingham County (3303)****Computed Employer Contributions and Funding Credits****For the Fiscal Year Beginning January 1, 2002**

Valuation Division	Estimated Monthly Employer Contributions		
	Total Regular Contribution	Accelerated Funding Credit	Required Contribution
01 - Confidential	\$8,782	\$0	\$8,782
02 - Sheriff FOP Spvs	30,640	0	30,639
04 - MCF	12,142	0	12,142
09 - Judges	2,427	0	2,427
10 - Gnrl Mgmt	36,236	0	36,236
11 - Gnrl Library	6,306	0	6,305
12 - Gnrl ICEA Profs	25,975	0	25,975
13 - Gnrl OPEIU Prob	10,124	0	10,123
14 - Gnrl TOPS UAW	57,551	0	57,551
15 - Animal Cntrl FOP	4,368	0	4,368
16 - Gnrl Commsnrs	183	0	183
17 - ICEA Nurses	15,449	0	15,450
18 - ICEA Ct. Prof	11,848	0	11,848
19 - Cnstutnl Offcls	2,379	0	2,379
21 - FOP Shrf Deputies	38,167	0	38,167
40 - ICEA Unit 111	1,570	0	1,570
41 - MCF Management	5,469	0	5,469
42 - ICEA Unit 11	2,008	0	2,008
43 - ICEA Unit 1	2,719	0	2,719
90 - Asst Pros Attnys	20,124	0	20,124
91 - Parks Union Empl	1,841	0	1,841
92 - Parks Non Union	1,923	0	1,923
93 - Lgl Rsrch Clerks	<u>1,350</u>	<u>0</u>	<u>1,349</u>
Totals	\$299,581	\$0	\$299,579

Table 10-A**Ingham County (3303)****01 - Confidential****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution as Percent of Payroll	
	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1986	664	\$12,895,305	9.38 %	0.00 %
1987	613	12,746,102	8.85	0.00
1988	459	9,072,947	9.00	0.00
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

0% member contributions for most members reflected in 1976 valuation.

Adoption of Benefit E reflected in 1987 and 1993 valuations.

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

Adoption 1% member contributions reflected in 1991 valuation.

Adoption of Benefit V-6 reflected in 1992 valuation.

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

Table 10-B**Ingham County (3303)****02 - Sheriff FOP Spvs****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution as Percent of Payroll	
	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1986	131	\$3,850,294	11.29 %	0.00 %
1987	137	3,883,225	10.47	0.00
1988	144	4,124,681	10.40	0.00
1989	149	4,442,989	10.30	0.00
1990	161	4,918,912	10.30	0.00
1991	172	5,840,591	9.50	0.00
1992	28	1,371,663	13.80	3.10
1993	28	1,343,669	9.71	4.10
1994	34	1,665,399	8.76	4.58
1995	28	1,421,507	13.89	10.03
1996	28	1,446,119	14.07	12.98
1997	30	1,609,357	17.78	17.78
1998	30	1,699,826	19.86	19.86
1999	30	1,703,939	18.03	18.02
2000	30	1,735,265	19.84	19.83

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefit F55 (15 years) reflected in 1984 valuation.

Adoption of 1% member contributions reflected in 1984 valuation.

Adoption of Benefit C-2 and 0% member contributions reflected in 1985.

Adoption of Benefit E reflected in 1987 and 1993 valuations.

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

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.

Adoption of Benefits B-4, FAC-3 and 25 years and Out reflected in 1994.

Adoption of 10.45% member contributions reflected in 1994 valuation.

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

Table 10-C**Ingham County (3303)****04 - MCF****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1986	217	\$2,584,959	8.34 %	0.00 %
1987	226	2,809,972	7.82	0.00
1988	175	1,881,671	7.30	0.00
1989	167	1,599,788	7.20	0.00
1990	180	1,895,478	6.80	0.00
1991	176	1,966,913	6.80	0.00
1992	190	2,192,337	6.80	1.50
1993	176	2,221,453	4.87	2.06
1994	173	2,282,795	5.85	3.05
1995	178	2,362,440	5.95	4.30
1996	165	2,376,442	5.91	5.45
1997	153	2,185,568	6.04	6.04
1998	128	2,542,201	5.73	5.73
1999	116	2,227,648	5.07	5.07
2000	123	2,410,936	5.66	5.66

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of 0% member contributions reflected in 1976 valuation.

Adoption of Benefit E reflected in 1987 valuation.

Adoption of Benefit E reflected in 1994 valuation.

Table 10-D**Ingham County (3303)****09 - Judges****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1993	17	\$391,399	8.36 %	3.53 %
1994	16	323,312	10.09	5.27
1995	16	362,941	9.38	6.78
1996	19	463,138	9.21	8.50
1997	10	266,864	17.37	17.37
1998	13	351,771	15.07	15.07
1999	10	282,700	14.89	14.89
2000	7	235,139	11.60	11.59

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefits B-3, V-6 and F55 (15 years) reflected in 1997 valuation.

Table 10-E**Ingham County (3303)****10 - Gnrl Mgmt****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution as Percent of Payroll	
	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1986	54	\$2,090,451	10.35 %	0.00 %
1987	61	2,277,063	9.74	0.00
1988	68	2,673,546	8.80	0.00
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefit F55 (15 years) reflected in 1985 valuation.

Adoption of 1% member contributions reflected in 1985 valuation.

Adoption of Benefit E reflected in 1987 and 1993 valuations.

Adoption of Benefit C-2 and 3% member contributions reflected in 1988.

Adoption of 1% member contributions reflected in 1990 valuation.

Adoption of Benefit V-6 reflected in 1992 valuation.

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

Table 10-F**Ingham County (3303)****11 - Gnrl Library****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1987	56	\$668,423	9.99 %	0.00 %
1988	53	693,147	9.10	0.00
1989	47	690,914	9.50	0.00
1990	44	726,866	9.60	0.00
1991	84	2,332,009	9.20	0.00
1992	84	2,540,610	9.40	2.10
1993	39	778,240	8.53	3.60
1994	38	787,259	9.55	4.99
1995	36	783,940	10.06	7.26
1996	41	811,292	9.94	9.16
1997	35	717,473	8.81	8.81
1998	25	738,984	10.99	10.99
1999	24	733,396	10.20	10.20
2000	23	718,540	9.86	9.86

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefit E reflected in 1987 valuation.

Table 10-G**Ingham County (3303)****12 - Gnrl ICEA Profs****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution as Percent of Payroll	
	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1988	128	\$3,254,486	8.10 %	0.00 %
1989	130	3,588,309	8.30	0.00
1990	183	5,066,968	8.90	0.00
1991	147	4,189,841	9.90	0.00
1992	155	4,724,713	9.50	2.10
1993	93	3,044,030	7.04	2.97
1994	99	3,259,462	7.54	3.94
1995	92	3,079,949	7.88	5.69
1996	104	3,723,923	8.14	7.51
1997	107	3,696,908	6.39	6.39
1998	111	4,375,372	6.32	6.32
1999	107	4,249,788	5.42	5.42
2000	113	4,575,833	6.38	6.38

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefit E reflected in 1987 and 1993 valuations.

Adoption of Benefit C-2 and 1% member contributions reflected in 1988.

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 B-3 reflected in 1994 valuation.

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

Table 10-H**Ingham County (3303)****13 - Gnrl OPEIU Prob****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution as Percent of Payroll	
	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1988	41	\$1,091,980	8.90 %	0.00 %
1989	39	1,108,087	9.20	0.00
1990	37	1,120,341	8.70	0.00
1991	47	1,376,534	8.50	0.00
1992	46	1,481,775	8.70	1.90
1993	36	1,224,600	7.93	3.35
1994	37	1,324,328	10.29	5.37
1995	37	1,421,577	10.34	7.47
1996	38	1,517,127	10.17	9.38
1997	38	1,586,848	9.21	9.21
1998	38	1,635,036	9.07	9.07
1999	38	1,582,996	8.19	8.18
2000	38	1,718,096	6.62	6.62

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefit E reflected in 1987 and 1993 valuations.

Adoption of Benefit F55 (15 years) reflected in 1988 valuation.

Adoption of 1% member contributions reflected in 1988 valuation.

Adoption of 1.88% member contributions reflected in 1990 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.

Table 10-I**Ingham County (3303)****14 - Gnrl TOPS UAW****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution as Percent of Payroll	
	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

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

Adoption of 3% member contributions reflected in 1989 valuation.

Adoption of 1% member contributions reflected in 1990 valuation.

Adoption of Benefit E reflected in 1987 and 1993 valuations.

Adoption of Benefit B-3 and 4.85 member contributions reflected in 1994.

Table 10-J**Ingham County (3303)****15 - Animal Cntrl FOP****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

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

Adoption of benefit E-2 reflected in 2000 valuation.

Table 10-K**Ingham County (3303)****16 - Gnrl Commsnrs****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution as Percent of Payroll	
	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1988	10	\$93,654	9.50 %	0.00 %
1989	19	185,480	6.30	0.00
1990	17	166,560	6.80	0.00
1991	19	185,713	7.10	0.00
1992	9	84,900	8.10	1.80
1993	10	100,880	4.04	1.71
1994	7	70,954	6.75	3.53
1995	8	95,310	6.91	4.99
1996	7	84,500	5.19	4.79
1997	9	103,415	4.56	4.56
1998	8	101,460	5.38	5.38
1999	8	103,005	2.33	2.32
2000	5	63,395	3.23	3.23

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefits C-2 and F55 (15 years) reflected in 1988.

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 1987 and 1993 valuations.

Adoption of benefit V- 6 reflected in 1998 valuation.

Table 10-L**Ingham County (3303)****17 - ICEA Nurses****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution as Percent of Payroll	
	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

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.

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 contribution rate reflected in 1998 valuation.

Table 10-M

Ingham County (3303)

18 - ICEA Ct. Prof

Computed Employer Contributions - Comparative Statement

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

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.

Table 10-N**Ingham County (3303)****19 - Cnstutnl Offcls****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution as Percent of Payroll	
	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

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

Adoption of 7.0% member contributions reflected in 1994 valuation.

Adoption of 5.00% member contribution rate reflected in 1998 valuation.

Adoption of 6.00% member contribution rate reflected in 1999 valuation.

Adoption of 5.00% member contribution rate reflected in 2000 valuation.

Adoption of benefit V-6 reflected in 2000 valuation.

Table 10-O**Ingham County (3303)****21 - FOP Shrf Deputies****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

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

Adoption of Benefit 3.2% multiplier and 10.43% member contributions reflected in 1997 valuation.

Adoption of 10.43% member contribution rate reflected in 1998 valuation.

Table 10-P**Ingham County (3303)****40 - ICEA Unit 111****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1988	50	\$951,173	8.40 %	0.00 %
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefit E reflected in 1987 valuation.

Adoption of Benefits C-2 and F55 (15 years) reflected in 1988.

Adoption of 3% member contributions reflected in 1988 valuation.

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

Adoption of Benefit E reflected in 1994 valuation.

Table 10-Q**Ingham County (3303)****41 - MCF Management****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1993	11	\$471,750	9.43 %	3.98 %
1994	13	541,500	10.95	5.72
1995	11	293,628	11.28	8.14
1996	12	487,427	11.75	10.84
1997	15	512,335	11.64	11.64
1998	13	545,506	11.03	11.03
1999	22	845,543	9.48	9.48
2000	19	781,285	7.86	7.86

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefit E reflected in 1994 valuation.

Table 10-R**Ingham County (3303)****42 - ICEA Unit 11****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1995	14	\$427,567	5.59 %	4.03 %
1996	11	285,375	6.08	5.60
1997	16	376,839	5.52	5.52
1998	8	264,468	7.13	7.13
1999	9	318,233	7.12	7.12
2000	9	330,997	6.82	6.81

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefit FAC-3 reflected in 1996 valuation.

Adoption of 3.95% member contributions reflected in 1996 valuation.

Table 10-S**Ingham County (3303)****43 - ICEA Unit 1****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of 3.50% member contribution rate reflected in 1998 valuation.

Table 10-T**Ingham County (3303)****90 - Asst Pros Attnys****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefit B-3 reflected in 1994 valuation.

Adoption of 1.4% member contributions reflected in 1994 valuation.

Adoption of benefit B-4 reflected in 1998 valuation.

Adoption of benefit F55 (15 years) reflected in 1998 valuation.

Adoption of benefit V- 6 reflected in 1998 valuation.

Table 10-U

Ingham County (3303)

91 - Parks Union Empl

Computed Employer Contributions - Comparative Statement

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1994	3	\$76,666	10.51 %	5.48 %
1995	3	82,837	11.15	8.06
1996	3	80,234	11.50	10.61
1997	5	144,342	12.37	12.37
1998	5	160,579	10.70	10.70
1999	6	195,920	10.42	10.42
2000	6	199,329	10.37	10.37

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Table 10-V**Ingham County (3303)****92 - Parks Non Union****Computed Employer Contributions - Comparative Statement**

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
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

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Adoption of Benefit F55 (25 years) reflected in 1995 valuation.

Table 10-W

Ingham County (3303)

93 - Lgl Rsrch Clerks

Computed Employer Contributions - Comparative Statement

	Active Members		Employer Contribution as Percent of Payroll	
Valuation Date December 31,	Number	Annual Payroll	Regular Contribution	After Accelerated Funding Credit
1997	8	\$250,777	6.84 %	6.84 %
1998	5	175,963	7.21	7.21
1999	6	163,718	6.95	6.95
2000	8	225,369	6.73	6.73

Notes: Actuarial assumptions were revised for MERS valuations in 1981, 1984, 1987, 1993, 1997 and 2000.

Table 11

Ingham County (3303)

Aggregate Accrued Liabilities - Comparative Schedule

Valuation Date December 31,	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Actuarial Liability	UAL as Percent of Annual Payroll
1986	\$37,730,844	\$47,355,057	126 %	(\$9,624,213)	0 %
1987	39,645,235	54,072,938	136	(14,427,703)	0
1988	44,776,267	57,889,961	129	(13,113,694)	0
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

Notes: Total retired life assets and liabilities are reflected in this schedule beginning in 1984. Actuarial assumptions were revised for the 1981, 1984, 1987, 1993, 1997 and 2000 actuarial valuations. The funding method was changed to entry age normal for the 1993 valuation.

Table 12

Ingham County (3303)

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, 2000 actuarial valuation. The entry age normal actuarial method was used to determine the entries at disclosure.

GASB 25 Information (as of 12/31/2000)

Actuarial Accrued Liability

Retirees and beneficiaries currently receiving benefits	\$57,255,028
Terminated employees not yet receiving benefits	8,569,286
Current employees -	
Accumulated employee contributions including allocated investment income.	13,672,434
Employer financed	<u>73,258,242</u>
Total Actuarial Accrued Liability	\$152,754,990
Net Assets Available for Benefits at Actuarial Value	<u>123,308,414</u>
(Market Value is \$123,225,856)	
Unfunded (Overfunded) Actuarial Accrued Liability	\$29,446,576

GASB 27 Information (as of 12/31/2000)

Fiscal Year Beginning	January 1, 2002
Annual Required Contribution (ARC)	\$3,594,942
Amortization Factor Used	0.057935