



Municipal Employees' Retirement System
of Michigan

MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN
ANNUAL ACTUARIAL VALUATION REPORT
INGHAM COUNTY (3303)
DECEMBER 31, 2007



June 25, 2008

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, 2007. 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 (most recent letter of Favorable Determination issued June 15, 2005). MERS is an independent non-profit public corporation established by the Legislature 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.

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. All of the undersigned are Members of the American Academy of Actuaries (M.A.A.A.) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. 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 Sharlene Pallick at MERS if you would like to receive future annual valuations in electronic format, instead of a printed report (800-767-6377 ext. 252; SPallick@mersofmich.com).

Sincerely,

Alan Sonnanstine, MAAA, ASA

Cathy Nagy, MAAA, FSA

Jim Koss, MAAA, ASA

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Ingham County (3303)

Executive Summary

Required Employer Contributions

The computed minimum required employer contributions to the retirement system for the fiscal years beginning January 1, 2009 (2007 Valuation) and January 1, 2008 (2006 Valuation) are as follows:

Division	Minimum Required Monthly Employer Contributions @			
	Percentage of Payroll		\$ Based on Valuation Payroll	
	2007 Valuation	2006 Valuation	2007 Valuation	2006 Valuation
01 - Confidential	12.44%	12.65%	\$13,812	\$14,325
02 - Sheriff FOP Spvs	27.29%	25.54%	51,188	47,318
04 - MCF	6.12%	6.26%	20,495	21,078
09 - Judges	51.60%	51.68%	4,719	4,725
10 - Gnrl Mgmt	14.90%	14.44%	83,109	75,109
11 - Gnrl Library #	-%	-%	1,141	911
12 - Gnrl ICEA Profs	7.60%	7.43%	41,664	40,579
13 - Gnrl OPEIU Prob	9.27%	8.96%	15,203	15,375
14 - Gnrl TOPS UAW	9.97%	9.78%	117,137	111,194
15 - Animal Cntrl FOP	14.25%	16.29%	5,183	5,325
16 - Gnrl Commsnrs	6.89%	7.36%	1,158	998
17 - ICEA Nurses	8.21%	8.16%	26,346	25,346
18 - ICEA Ct. Prof	11.73%	10.91%	19,749	18,754
19 - Cnstutnl Offcls	6.77%	9.35%	3,142	4,233
21 - FOP Shrf Deputies	10.36%	10.15%	70,922	64,404
40 - ICEA Unit 111	5.45%	5.45%	6,627	6,167
41 - MCF Management	9.72%	9.50%	8,936	8,701
42 - ICEA Unit 11	9.09%	11.52%	5,286	3,023
43 - ICEA Unit 1	7.73%	7.40%	3,129	2,197
44 - MCF Exec Mgr	20.06%	20.35%	2,071	2,018
90 - Asst Pros Attnys	13.73%	13.17%	23,420	23,591
91 - Parks Union Empl	9.52%	8.92%	1,903	2,037
92 - Parks Non Union	17.09%	17.23%	2,250	2,066
93 - Lgl Rsrch Clerks	4.00%	3.39%	1,181	766
Total Municipality			\$529,771	\$500,240

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

This division is closed to new hires. Invoices will be based on the dollar contribution amounts shown in this table.

For additional details see Table 15.

Ingham County (3303)

Executive Summary (continued)

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 for divisions that are open to new hires would trend over time toward the long-term cost of system benefits, known as the Normal Cost (see Table 15). For underfunded divisions that are closed to new hires, the computed employer dollar contribution would increase 4%-8% annually, until full funding is reached. The required employer contribution for a closed division typically reaches its highest level about 11-12 years after the division becomes closed. 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 or methods affecting the results of the 2007 valuation. For benefit provision changes see Table 1.

2007 System Experience

Based on the smoothed Actuarial Value of Assets, the recognized rate of investment return was just over the 8% actuarial assumption, for MERS overall. On average this will result in stable computed employer contributions.

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.

2007 Funded Position

The ratio of the Valuation Assets to the Actuarial Accrued Liability for Ingham County in aggregate is 78%; last year's ratio was 77%.

Ingham County (3303)

Table 1

Benefit Provisions Evaluated and/or Considered

Division	2007 Valuation	2006 Valuation
1 - Confidential	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)

Ingham County (3303)

Table 1 (continued)

Benefit Provisions Evaluated and/or Considered

Division	2007 Valuation	2006 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-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)
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-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)
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-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)

Ingham County (3303)

Table 1 (continued)

Benefit Provisions Evaluated and/or Considered

Division	2007 Valuation	2006 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)

Ingham County (3303)

Table 1 (continued)

Benefit Provisions Evaluated and/or Considered

Division	2007 Valuation	2006 Valuation
19 - Cnstatnl 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)

Ingham County (3303)

Table 1 (continued)

Benefit Provisions Evaluated and/or Considered

Division	2007 Valuation	2006 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 3.51% 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)	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)

Ingham County (3303)

Table 1 (continued)

Benefit Provisions Evaluated and/or Considered

Division	2007 Valuation	2006 Valuation
93 - Lgl Rsrch Clerks	C-1 Old Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1988) 0.00% Member Contrib. Act 88 Election (09/29/1965)	C-1 Old Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1988) 0.00% Member Contrib. 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 214.

Ingham County (3303)

Table 2

Membership Summary

Division	2007 Valuation		2006 Valuation	
	Number	Annual Payroll*	Number	Annual Payroll*
1 - Confidential				
Active Members	32	\$1,332,376	32	\$1,358,941
Vested Former Members	13	90,730	14	129,476
Retirees and Beneficiaries	27	312,064	26	269,085
2 - Sheriff FOP Spvs				
Active Members	31	\$2,250,880	31	\$2,223,259
Vested Former Members	2	29,860	1	27,458
Retirees and Beneficiaries	53	1,712,433	51	1,539,682
4 - MCF				
Active Members	146	\$4,018,672	153	\$4,040,561
Vested Former Members	38	162,286	37	153,440
Retirees and Beneficiaries	60	239,792	63	250,895
9 - Judges				
Active Members	4	\$109,736	4	\$109,736
Vested Former Members	1	15,123	2	16,931
Retirees and Beneficiaries	9	98,424	9	98,424
10 - Gnrl Mgmt				
Active Members	87	\$6,693,324	80	\$6,241,730
Vested Former Members	22	380,106	21	333,227
Retirees and Beneficiaries	75	2,100,628	68	1,797,541
11 - Gnrl Library				
Active Members	0	0	0	0
Vested Former Members	20	127,024	23	160,704
Retirees and Beneficiaries	29	171,516	26	141,131
12 - Gnrl ICEA Profs				
Active Members	124	\$6,578,499	126	\$6,553,689
Vested Former Members	23	272,677	25	281,567
Retirees and Beneficiaries	46	831,687	39	687,019
13 - Gnrl OPEIU Prob				
Active Members	38	\$1,968,144	38	\$2,059,204
Vested Former Members	8	101,706	7	66,537
Retirees and Beneficiaries	20	509,002	16	414,692

Ingham County (3303)

Table 2 (continued)

Membership Summary

Division	2007 Valuation		2006 Valuation	
	Number	Annual Payroll*	Number	Annual Payroll*
14 - Gnrl TOPS UAW				
Active Members	406	\$14,098,731	402	\$13,643,453
Vested Former Members	47	319,242	55	341,349
Retirees and Beneficiaries	175	1,830,209	165	1,633,207
15 - Animal Cntrl FOP				
Active Members	10	\$436,485	9	\$392,312
Vested Former Members	1	6,172	1	6,172
Retirees and Beneficiaries	5	70,511	5	69,299
16 - Gnrl Commsnrs				
Active Members	13	\$201,689	11	\$162,724
Vested Former Members	6	11,599	7	12,763
Retirees and Beneficiaries	7	19,804	7	22,695
17 - ICEA Nurses				
Active Members	74	\$3,850,897	72	\$3,727,464
Vested Former Members	8	57,958	9	61,937
Retirees and Beneficiaries	50	688,786	47	603,795
18 - ICEA Ct. Prof				
Active Members	33	\$2,020,357	35	\$2,062,761
Vested Former Members	6	43,839	7	51,634
Retirees and Beneficiaries	40	691,263	35	613,779
19 - Cnstutnl Offcls				
Active Members	6	\$556,968	6	\$543,266
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	6	56,320	7	94,987
21 - FOP Shrf Deputies				
Active Members	154	\$8,214,896	154	\$7,614,243
Vested Former Members	20	216,211	24	215,833
Retirees and Beneficiaries	74	1,521,866	70	1,406,958
40 - ICEA Unit 111				
Active Members	39	\$1,459,015	39	\$1,357,787
Vested Former Members	5	37,754	7	47,958
Retirees and Beneficiaries	26	220,266	26	219,567

Ingham County (3303)

Table 2 (continued)

Membership Summary

Division	2007 Valuation		2006 Valuation	
	Number	Annual Payroll*	Number	Annual Payroll*
41 - MCF Management				
Active Members	22	\$1,103,262	23	\$1,099,133
Vested Former Members	13	115,159	10	75,786
Retirees and Beneficiaries	11	71,583	10	64,221
42 - ICEA Unit 11				
Active Members	14	\$697,841	6	\$314,901
Vested Former Members	2	7,099	2	7,099
Retirees and Beneficiaries	5	65,949	5	65,024
43 - ICEA Unit 1				
Active Members	12	\$485,721	9	\$356,184
Vested Former Members	4	23,123	4	23,123
Retirees and Beneficiaries	4	41,017	4	41,017
44 - MCF Exec Mgr				
Active Members	1	\$123,882	1	\$119,043
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	0	0	0	0
90 - Asst Pros Attnys				
Active Members	30	\$2,046,925	31	\$2,149,529
Vested Former Members	16	234,974	18	239,061
Retirees and Beneficiaries	12	367,853	8	207,106
91 - Parks Union Empl				
Active Members	6	\$239,863	7	\$273,951
Vested Former Members	1	8,511	1	8,511
Retirees and Beneficiaries	0	0	0	0
92 - Parks Non Union				
Active Members	2	\$157,991	2	\$143,923
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	1	40,397	1	40,397
93 - Lgl Rsrch Clerks				
Active Members	8	\$354,267	7	\$271,510
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	0	0	0	0

Ingham County (3303)

Table 2 (continued)

Membership Summary

Division	2007 Valuation		2006 Valuation	
	Number	Annual Payroll*	Number	Annual Payroll*
Total Municipality				
Active Members	1292	\$59,000,421	1278	\$56,819,304
Vested Former Members	256	2,261,153	275	2,260,566
Retirees and Beneficiaries	<u>735</u>	11,661,370	<u>688</u>	10,280,521
Total Participants	2283		2241	

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

Ingham County (3303)

Table 3

Active Members in the Valuation - Comparative Schedule

Valuation Date 12/31	Number	Annual Payroll	Average Pay		Average Age	Average Benefit Service	Average Vesting Service
			Annual \$	% Increase			
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
2004	1,230	52,999,865	43,089	6.4	43.4	9.7	9.9
2005	1,234	53,326,694	43,215	0.3	43.7	9.8	10.1
2006	1,278	56,819,304	44,460	2.9	43.7	9.7	9.9
2007	1,292	59,000,421	45,666	2.7	44.1	9.7	10.0

Table 4

Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Net Transfers	New Member	End of Year
				Vested	Non-Vested			
2001	(26)	(1)		(53)	(78)		160	1199
2002	(31)	(1)		(16)	(91)		147	1207
2003	(18)	(1)		(16)	(92)		143	1223
2004	(31)	(2)		(19)	(67)		126	1230
2005	(33)			(16)	(82)		135	1234
2006	(26)			(17)	(72)		159	1278
2007	(33)		(1)	(15)	(85)		148	1292

Ingham County (3303)

Table 5

Vested Former Members in the Valuation - Comparative Schedule

Valuation Date 12/31	Number	Annual Deferred Benefits	Average Age	Average Benefit Service	Average Vesting Service
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
2004	256	2,093,552	50.0	12.3	14.2
2005	269	2,155,352	50.3	11.7	13.6
2006	275	2,260,566	50.4	11.4	13.4
2007	256	2,261,153	50.3	11.3	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	(10)			(15)		75	286
2002	(11)	(2)		(29)	(1)	18	261
2003	(10)	(3)	(1)	(6)		19	260
2004	(13)	(3)		(9)		21	256
2005	(6)	(1)	(1)	(2)		23	269
2006	(14)			(4)	(1)	25	275
2007	(24)	(1)		(12)		18	256

Ingham County (3303)

Table 7

Retirees and Beneficiaries in the Valuation - Comparative Schedule

Valuation Date 12/31	Retirees		Beneficiaries		Total Recipients		No. of Actives per Recip.	Benefits As % of Active Payroll
	Number	Annual Benefits	Number	Annual Benefits	Number	Annual Benefits		
1997		\$		\$	429	\$ 3,711,946	2.8	10.0%
1998					462	4,564,053	2.5	11.2
1999					494	5,152,654	2.4	12.4
2000					527	5,812,070	2.3	13.5
2001	500	6,045,922	59	344,860	559	6,390,782	2.1	14.2
2002	522	6,749,230	61	382,132	583	7,131,362	2.1	15.0
2003	541	7,208,811	64	435,371	605	7,644,182	2.0	15.4
2004	575	8,076,502	63	446,921	638	8,523,423	1.9	16.1
2005	599	8,925,439	68	525,754	667	9,451,193	1.9	17.7
2006	620	9,734,737	68	545,784	688	10,280,521	1.9	18.1
2007	665	11,109,207	70	552,163	735	11,661,370	1.8	19.8

Table 8

Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust. *	Number	Annual Benefits	Benefit Adjust. #	Number	Annual Benefits
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
2004	50	975,430	11,492	(17)	(81,764)	(25,917)	638	8,523,423
2005	46	1,074,231	19,759	(17)	(132,538)	(33,682)	667	9,451,193
2006	45	967,676	23,956	(24)	(156,722)	(5,582)	688	10,280,521
2007	61	1,468,930	28,084	(14)	(114,465)	(1,700)	735	11,661,370

@ 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.

Ingham County (3303)

Table 9

Retirees and Beneficiaries on the Rolls as of December 31, 2007

Distribution by Type of Benefit Being Paid

Benefits Being Paid to:	Annual Benefits	
	Number	Amount
Age and service retirants	644	\$10,871,625
Non-duty disability retirants	18	226,986
Duty disability retirants	3	10,596
Beneficiaries of deceased retirants	47	365,867
Beneficiaries of deceased members:		
Non-duty death	22	167,141
Duty death	<u>1</u>	<u>19,155</u>
Total Benefits Being Paid	735	\$11,661,370

Ingham County (3303)

Table 10

Reported Assets (Market Value)

Division	2007 Valuation		2006 Valuation	
	Employer And Retiree*	Employee#	Employer And Retiree*	Employee#
01 - Confidential	\$ 4,789,566	\$ 681,682	\$ 4,747,486	\$ 692,371
02 - Sheriff FOP Spvs	12,636,244	4,345,469	12,086,726	3,912,648
04 - MCF	6,048,227	40,110	5,577,750	41,878
09 - Judges	539,440	21,262	540,891	17,265
10 - Gnrl Mgmt	25,885,901	4,016,491	23,933,730	3,792,659
11 - Gnrl Library	2,250,669	56,776	2,220,514	80,291
12 - Gnrl ICEA Profs	14,805,654	5,636,239	13,569,783	4,999,268
13 - Gnrl OPEIU Prob	7,517,355	1,573,271	7,220,182	1,446,873
14 - Gnrl TOPS UAW	37,603,416	4,764,341	34,865,816	4,332,265
15 - Animal Cntrl FOP	1,102,740	468,069	1,004,487	402,814
16 - Gnrl Commsnrs	331,792	78,736	310,492	70,587
17 - ICEA Nurses	9,613,651	2,983,371	8,913,441	2,670,177
18 - ICEA Ct. Prof	6,493,182	1,892,262	6,277,251	1,712,979
19 - Cnstutnl Offcls	1,819,680	517,515	1,681,639	455,854
21 - FOP Shrf Deputies	21,409,333	7,732,994	19,982,639	6,817,850
40 - ICEA Unit 111	2,825,666	269,392	2,874,454	273,886
41 - MCF Management	2,034,041	103,266	1,824,483	109,974
42 - ICEA Unit 11	661,194	122,812	570,563	164,516
43 - ICEA Unit 1	693,040	151,535	490,430	98,675
44 - MCF Exec Mgr	205,172	0	166,704	0
90 - Asst Pros Attnys	7,633,463	442,016	6,974,030	459,964
91 - Parks Union Empl	319,941	0	273,436	0
92 - Parks Non Union	1,121,347	22,025	1,058,683	21,344
93 - Lgl Rsrch Clerks	276,363	0	239,618	0
Total Municipality	\$168,617,077	\$ 35,919,634	\$157,405,228	\$ 32,574,138
Combined Reserves	\$204,536,711		\$189,979,366	

* Reserve for Employer Contributions and Benefit Payments

Reserve for Employee Contributions

The December 31, 2007 Valuation Assets are equal to 0.988469 times the reported Market Value of assets. The derivation of Valuation Assets is described on page 219.

Ingham County (3303)

Table 11

Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Net Transfers	Balance
	Employer	Member					
2001	\$ 3,969,561	\$ 2,669,220	\$ 9,655,853	\$ (6,165,634)	\$ (498,267)	\$ 116,076	\$ 133,055,221
2002	4,297,730	3,001,615	4,906,444	(6,903,572)	(216,746)	158,907	138,299,599
2003	4,851,575	3,500,439	11,281,677	(7,468,123)	(246,135)	68,461	150,287,493
2004	5,892,271	4,061,999	10,437,392	(8,083,733)	(225,547)	35,475	162,405,350
2005	5,771,241	4,149,559	10,568,951	(9,042,368)	(348,146)	(1,992)	173,502,595
2006	5,893,614	4,199,751	14,009,368	(9,927,501)	(443,686)	124,271	187,358,412
2007	6,403,000	4,466,313	15,172,720	(10,948,291)	(295,400)	21,446	202,178,200

Ingham County (3303)

Table 12

Termination Liability and Present Value of Accrued Benefits as of December 31, 2007

Termination Liability*	Term. Liability % Funded	Division	PVAB* Present Value of Accrued Benefits	Valuation Assets	PVAB Percent Funded	Unfunded (Overfunded) PVAB
\$ 2,389,661 467,288 3,137,459 <u>2,605</u> \$ 5,997,013	90.2%	01 - Confidentialis Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 2,014,411 467,288 3,137,459 <u>2,605</u> \$ 5,621,763	\$ 5,408,159	96.2%	\$ 213,604
\$ 6,337,002 87,597 18,640,898 <u>0</u> \$ 25,065,497	67.0%	02 - Sheriff FOP Spvs Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 7,198,073 87,597 18,640,898 <u>0</u> \$ 25,926,568	\$ 16,785,897	64.7%	\$ 9,140,671
\$ 2,417,211 944,392 1,854,724 <u>165</u> \$ 5,216,492	115.4%	04 - MCF Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 2,082,963 944,392 1,854,724 <u>165</u> \$ 4,882,244	\$ 6,018,132	123.3%	\$ (1,135,888)
\$ 321,046 105,656 1,012,333 <u>0</u> \$ 1,439,035	38.5%	09 - Judges Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 263,558 105,656 1,012,333 <u>0</u> \$ 1,381,547	\$ 554,237	40.1%	\$ 827,310
\$ 14,429,215 2,120,414 21,223,525 <u>22,442</u> \$ 37,795,596	78.2%	10 - Gnrl Mgmt Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 11,401,821 2,120,414 21,223,525 <u>22,442</u> \$ 34,768,202	\$ 29,557,588	85.0%	\$ 5,210,614
\$ 0 888,482 1,571,337 <u>0</u> \$ 2,459,819	92.7%	11 - Gnrl Library Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 0 888,482 1,571,337 <u>0</u> \$ 2,459,819	\$ 2,280,838	92.7%	\$ 178,981
\$ 13,292,720 2,000,303 9,206,754 <u>227,905</u> \$ 24,727,682	81.7%	12 - Gnrl ICEA Profs Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 10,522,355 2,000,303 9,206,754 <u>227,905</u> \$ 21,957,317	\$ 20,206,178	92.0%	\$ 1,751,139

Ingham County (3303)

Table 12 (continued)

Termination Liability and Present Value of Accrued Benefits as of December 31, 2007

Termination Liability*	Term. Liability % Funded	Division	PVAB* Present Value of Accrued Benefits	Valuation Assets	PVAB Percent Funded	Unfunded (Overfunded) PVAB
\$ 5,568,455 643,732 5,558,547 <u>0</u> \$ 11,770,734	76.3%	13 - Gnrl OPEIU Prob Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 4,077,380 643,732 5,558,547 <u>0</u> \$ 10,279,659	\$ 8,985,802	87.4%	\$ 1,293,857
\$ 23,104,612 1,768,079 16,804,961 <u>216,435</u> \$ 41,894,087	100.0%	14 - Gnrl TOPS UAW Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 18,552,890 1,768,079 16,804,961 <u>216,435</u> \$ 37,342,365	\$ 41,879,214	112.1%	\$ (4,536,849)
\$ 1,042,534 61,728 886,954 <u>10,734</u> \$ 2,001,950	77.6%	15 - Animal Cntrl FOP Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 1,260,717 61,728 886,954 <u>10,734</u> \$ 2,220,133	\$ 1,552,696	69.9%	\$ 667,437
\$ 195,340 51,340 168,229 <u>13,980</u> \$ 428,889	94.6%	16 - Gnrl Commsnrs Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 150,365 51,340 168,229 <u>13,980</u> \$ 383,914	\$ 405,794	105.7%	\$ (21,880)
\$ 6,558,027 393,369 7,678,738 <u>122,603</u> \$ 14,752,737	84.4%	17 - ICEA Nurses Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 5,395,235 393,369 7,678,738 <u>122,603</u> \$ 13,589,945	\$ 12,451,766	91.6%	\$ 1,138,179
\$ 4,459,086 280,519 6,515,787 <u>2,965</u> \$ 11,258,357	73.6%	18 - ICEA Ct. Prof Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 3,807,007 280,519 6,515,787 <u>2,965</u> \$ 10,606,278	\$ 8,288,751	78.1%	\$ 2,317,527
\$ 2,039,918 0 494,458 <u>0</u> \$ 2,534,376	91.2%	19 - Cnstutnl Offcls Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 1,628,622 0 494,458 <u>0</u> \$ 2,123,080	\$ 2,310,245	108.8%	\$ (187,165)

Ingham County (3303)

Table 12 (continued)

Termination Liability and Present Value of Accrued Benefits as of December 31, 2007

Termination Liability*	Term. Liability % Funded	Division	PVAB* Present Value of Accrued Benefits	Valuation Assets	PVAB Percent Funded	Unfunded (Overfunded) PVAB
\$ 12,496,417 917,950 15,736,709 <u>122,017</u> \$ 29,273,093	98.4%	21 - FOP Shrf Deputies Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 13,005,064 917,950 15,736,709 <u>122,017</u> \$ 29,781,740	\$ 28,806,287	96.7%	\$ 975,453
\$ 766,014 267,026 1,783,518 <u>59,377</u> \$ 2,875,935	106.4%	40 - ICEA Unit 111 Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 603,417 267,026 1,783,518 <u>59,377</u> \$ 2,713,338	\$ 3,059,369	112.8%	\$ (346,031)
\$ 649,771 608,160 556,261 <u>4,639</u> \$ 1,818,831	116.2%	41 - MCF Management Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 568,478 608,160 556,261 <u>4,639</u> \$ 1,737,538	\$ 2,112,662	121.6%	\$ (375,124)
\$ 284,887 38,881 647,689 <u>31,744</u> \$ 1,003,201	77.2%	42 - ICEA Unit 11 Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 243,666 38,881 647,689 <u>31,744</u> \$ 961,980	\$ 774,966	80.6%	\$ 187,014
\$ 407,052 119,783 346,260 <u>13,522</u> \$ 886,617	94.2%	43 - ICEA Unit 1 Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 335,808 119,783 346,260 <u>13,522</u> \$ 815,373	\$ 834,836	102.4%	\$ (19,463)
\$ 302,362 0 0 <u>0</u> \$ 302,362	67.1%	44 - MCF Exec Mgr Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 252,782 0 0 <u>0</u> \$ 252,782	\$ 202,806	80.2%	\$ 49,976
\$ 3,073,593 1,496,283 3,871,013 <u>4,003</u> \$ 8,444,892	94.5%	90 - Asst Pros Attnys Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 2,493,808 1,496,283 3,871,013 <u>4,003</u> \$ 7,865,107	\$ 7,982,361	101.5%	\$ (117,254)

Ingham County (3303)

Table 12 (continued)

Termination Liability and Present Value of Accrued Benefits as of December 31, 2007

Termination Liability*	Term. Liability % Funded	Division	PVAB* Present Value of Accrued Benefits	Valuation Assets	PVAB Percent Funded	Unfunded (Overfunded) PVAB
\$ 165,722 57,605 0 0 \$ 223,327	141.6%	91 - Parks Union Empl Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 145,031 57,605 0 0 \$ 202,636	\$ 316,252	156.1%	\$ (113,616)
\$ 953,822 0 479,847 0 \$ 1,433,669	78.8%	92 - Parks Non Union Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 699,381 0 479,847 0 \$ 1,179,228	\$ 1,130,188	95.8%	\$ 49,040
\$ 174,523 0 0 0 \$ 174,523	156.5%	93 - Lgl Rsrch Clerks Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 152,069 0 0 0 \$ 152,069	\$ 273,176	179.6%	\$ (121,107)
\$ 101,428,990 13,318,587 118,176,001 855,136 \$ 233,778,714	86.5%	Total Municipality Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 86,854,901 13,318,587 118,176,001 855,136 \$ 219,204,625	\$ 202,178,200	92.2%	\$ 17,026,425

* The Termination Liability represents the present value of benefits payable in the event that all active members terminate employment on December 31, 2007, 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, 2007. For a non-vested active member, the PVAB represents the present value of the non-vested accrued benefit, and the Termination Liability represents the present value of the non-vested accrued benefit (deferred to age 60). For some 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.

Ingham County (3303)

Table 13

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2007

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
01 -Confidentials				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 2,586,516	\$ 1,248,695	48.3%	\$ 1,337,821
Vested Former Members	343,928	343,928	100.0	0
Retirees and Beneficiaries	<u>3,137,459</u>	<u>3,137,459</u>	100.0	<u>0</u>
Total	\$ 6,067,903	\$ 4,730,082	78.0%	\$ 1,337,821
Reserve for Employee Contributions				
Active Members	\$ 552,112	\$ 552,112		
Vested Former Members	123,360	123,360		
Pending Refunds	<u>2,605</u>	<u>2,605</u>		
Total	\$ 678,077	\$ 678,077	100.0%	\$ 0
Division Total	\$ 6,745,980	\$ 5,408,159	80.2%	\$ 1,337,821
02 -Sheriff FOP Spvs				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 6,135,113	\$ 0	0.0%	\$ 6,135,113
Vested Former Members	10,396	0	0.0	10,396
Retirees and Beneficiaries	<u>18,640,898</u>	<u>12,608,522</u>	67.6	<u>6,032,376</u>
Total	\$ 24,786,407	\$ 12,608,522	50.9%	\$ 12,177,885
Reserve for Employee Contributions				
Active Members	\$ 4,100,174	\$ 4,100,174		
Vested Former Members	77,201	77,201		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 4,177,375	\$ 4,177,375	100.0%	\$ 0
Division Total	\$ 28,963,782	\$ 16,785,897	58.0%	\$ 12,177,885
04 -MCF				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 3,684,438	\$ 3,192,901	86.7%	\$ 491,537
Vested Former Members	930,397	930,397	100.0	0
Retirees and Beneficiaries	<u>1,854,724</u>	<u>1,854,724</u>	100.0	<u>0</u>
Total	\$ 6,469,559	\$ 5,978,022	92.4%	\$ 491,537
Reserve for Employee Contributions				
Active Members	\$ 25,950	\$ 25,950		
Vested Former Members	13,995	13,995		
Pending Refunds	<u>165</u>	<u>165</u>		
Total	\$ 40,110	\$ 40,110	100.0%	\$ 0
Division Total	\$ 6,509,669	\$ 6,018,132	92.4%	\$ 491,537

Ingham County (3303)

Table 13 (continued)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2007

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
09 -Judges				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 272,393	\$ 0	0.0%	\$ 272,393
Vested Former Members	105,656	0	0.0	105,656
Retirees and Beneficiaries	<u>1,012,333</u>	<u>532,976</u>	52.6	<u>479,357</u>
Total	\$ 1,390,382	\$ 532,976	38.3%	\$ 857,406
Reserve for Employee Contributions				
Active Members	\$ 21,261	\$ 21,261		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 21,261	\$ 21,261	100.0%	\$ 0
Division Total	\$ 1,411,643	\$ 554,237	39.3%	\$ 857,406
10 -Gnrl Mgmt				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 13,187,593	\$ 2,854,187	21.6%	\$ 10,333,406
Vested Former Members	1,464,945	1,464,945	100.0	0
Retirees and Beneficiaries	<u>21,223,525</u>	<u>21,223,525</u>	100.0	<u>0</u>
Total	\$ 35,876,063	\$ 25,542,657	71.2%	\$ 10,333,406
Reserve for Employee Contributions				
Active Members	\$ 3,337,020	\$ 3,337,020		
Vested Former Members	655,469	655,469		
Pending Refunds	<u>22,442</u>	<u>22,442</u>		
Total	\$ 4,014,931	\$ 4,014,931	100.0%	\$ 0
Division Total	\$ 39,890,994	\$ 29,557,588	74.1%	\$ 10,333,406
11 -Gnrl Library				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 0	\$ 0	0.0%	\$ 0
Vested Former Members	831,707	652,726	78.5	178,981
Retirees and Beneficiaries	<u>1,571,337</u>	<u>1,571,337</u>	100.0	<u>0</u>
Total	\$ 2,403,044	\$ 2,224,063	92.6%	\$ 178,981
Reserve for Employee Contributions				
Active Members	\$ 0	\$ 0		
Vested Former Members	56,775	56,775		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 56,775	\$ 56,775	100.0%	\$ 0
Division Total	\$ 2,459,819	\$ 2,280,838	92.7%	\$ 178,981

Ingham County (3303)

Table 13 (continued)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2007

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	\$ 10,379,290	\$ 3,764,742	36.3%	\$ 6,614,548
Vested Former Members	1,707,590	1,707,590	100.0	0
Retirees and Beneficiaries	<u>9,206,754</u>	<u>9,206,754</u>	100.0	<u>0</u>
Total	\$ 21,293,634	\$ 14,679,086	68.9%	\$ 6,614,548
Reserve for Employee Contributions				
Active Members	\$ 5,006,474	\$ 5,006,474		
Vested Former Members	292,713	292,713		
Pending Refunds	<u>227,905</u>	<u>227,905</u>		
Total	\$ 5,527,092	\$ 5,527,092	100.0%	\$ 0
Division Total	\$ 26,820,726	\$ 20,206,178	75.3%	\$ 6,614,548
13 - Gnrl OPEIU Prob				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 3,996,244	\$ 1,449,157	36.3%	\$ 2,547,087
Vested Former Members	506,931	506,931	100.0	0
Retirees and Beneficiaries	<u>5,558,547</u>	<u>5,558,547</u>	100.0	<u>0</u>
Total	\$ 10,061,722	\$ 7,514,635	74.7%	\$ 2,547,087
Reserve for Employee Contributions				
Active Members	\$ 1,334,366	\$ 1,334,366		
Vested Former Members	136,801	136,801		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 1,471,167	\$ 1,471,167	100.0%	\$ 0
Division Total	\$ 11,532,889	\$ 8,985,802	77.9%	\$ 2,547,087
14 - Gnrl TOPS UAW				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 24,633,873	\$ 18,892,258	76.7%	\$ 5,741,615
Vested Former Members	1,448,920	1,448,920	100.0	0
Retirees and Beneficiaries	<u>16,804,961</u>	<u>16,804,961</u>	100.0	<u>0</u>
Total	\$ 42,887,754	\$ 37,146,139	86.6%	\$ 5,741,615
Reserve for Employee Contributions				
Active Members	\$ 4,197,481	\$ 4,197,481		
Vested Former Members	319,159	319,159		
Pending Refunds	<u>216,435</u>	<u>216,435</u>		
Total	\$ 4,733,075	\$ 4,733,075	100.0%	\$ 0
Division Total	\$ 47,620,829	\$ 41,879,214	87.9%	\$ 5,741,615

Ingham County (3303)

Table 13 (continued)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2007

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
15 - Animal Cntrl FOP				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 1,234,647	\$ 135,945	11.0%	\$ 1,098,702
Vested Former Members	61,728	61,728	100.0	0
Retirees and Beneficiaries	<u>886,954</u>	<u>886,954</u>	100.0	<u>0</u>
Total	\$ 2,183,329	\$ 1,084,627	49.7%	\$ 1,098,702
Reserve for Employee Contributions				
Active Members	\$ 457,335	\$ 457,335		
Vested Former Members	0	0		
Pending Refunds	<u>10,734</u>	<u>10,734</u>		
Total	\$ 468,069	\$ 468,069	100.0%	\$ 0
Division Total	\$ 2,651,398	\$ 1,552,696	58.6%	\$ 1,098,702
16 - Gnrl Commsnrs				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 161,599	\$ 123,437	76.4%	\$ 38,162
Vested Former Members	35,395	35,395	100.0	0
Retirees and Beneficiaries	<u>168,229</u>	<u>168,229</u>	100.0	<u>0</u>
Total	\$ 365,223	\$ 327,061	89.6%	\$ 38,162
Reserve for Employee Contributions				
Active Members	\$ 48,808	\$ 48,808		
Vested Former Members	15,945	15,945		
Pending Refunds	<u>13,980</u>	<u>13,980</u>		
Total	\$ 78,733	\$ 78,733	100.0%	\$ 0
Division Total	\$ 443,956	\$ 405,794	91.4%	\$ 38,162
17 - ICEA Nurses				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 4,569,628	\$ 1,563,761	34.2%	\$ 3,005,867
Vested Former Members	228,033	228,033	100.0	0
Retirees and Beneficiaries	<u>7,678,738</u>	<u>7,678,738</u>	100.0	<u>0</u>
Total	\$ 12,476,399	\$ 9,470,532	75.9%	\$ 3,005,867
Reserve for Employee Contributions				
Active Members	\$ 2,693,295	\$ 2,693,295		
Vested Former Members	165,336	165,336		
Pending Refunds	<u>122,603</u>	<u>122,603</u>		
Total	\$ 2,981,234	\$ 2,981,234	100.0%	\$ 0
Division Total	\$ 15,457,633	\$ 12,451,766	80.6%	\$ 3,005,867

Ingham County (3303)

Table 13 (continued)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2007

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	\$ 3,052,682	\$ 0	0.0%	\$ 3,052,682
Vested Former Members	196,939	13,365	6.8	183,574
Retirees and Beneficiaries	<u>6,515,787</u>	<u>6,515,787</u>	100.0	<u>0</u>
Total	\$ 9,765,408	\$ 6,529,152	66.9%	\$ 3,236,256
Reserve for Employee Contributions				
Active Members	\$ 1,673,054	\$ 1,673,054		
Vested Former Members	83,580	83,580		
Pending Refunds	<u>2,965</u>	<u>2,965</u>		
Total	\$ 1,759,599	\$ 1,759,599	100.0%	\$ 0
Division Total	\$ 11,525,007	\$ 8,288,751	71.9%	\$ 3,236,256
19 -Cnstutnl Offcls				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 1,412,524	\$ 1,298,271	91.9%	\$ 114,253
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>494,458</u>	<u>494,458</u>	100.0	<u>0</u>
Total	\$ 1,906,982	\$ 1,792,729	94.0%	\$ 114,253
Reserve for Employee Contributions				
Active Members	\$ 517,516	\$ 517,516		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 517,516	\$ 517,516	100.0%	\$ 0
Division Total	\$ 2,424,498	\$ 2,310,245	95.3%	\$ 114,253
21 -FOP Shrf Deputies				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 13,147,087	\$ 5,106,002	38.8%	\$ 8,041,085
Vested Former Members	411,058	411,058	100.0	0
Retirees and Beneficiaries	<u>15,736,709</u>	<u>15,736,709</u>	100.0	<u>0</u>
Total	\$ 29,294,854	\$ 21,253,769	72.6%	\$ 8,041,085
Reserve for Employee Contributions				
Active Members	\$ 6,923,609	\$ 6,923,609		
Vested Former Members	506,892	506,892		
Pending Refunds	<u>122,017</u>	<u>122,017</u>		
Total	\$ 7,552,518	\$ 7,552,518	100.0%	\$ 0
Division Total	\$ 36,847,372	\$ 28,806,287	78.2%	\$ 8,041,085

Ingham County (3303)

Table 13 (continued)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2007

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
40 -ICEA Unit 111				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 769,558	\$ 796,657	103.5%	\$ (27,099)
Vested Former Members	219,463	219,463	100.0	0
Retirees and Beneficiaries	<u>1,783,518</u>	<u>1,783,518</u>	100.0	<u>0</u>
Total	\$ 2,772,539	\$ 2,799,638	101.0%	\$ (27,099)
Reserve for Employee Contributions				
Active Members	\$ 152,791	\$ 152,791		
Vested Former Members	47,563	47,563		
Pending Refunds	<u>59,377</u>	<u>59,377</u>		
Total	\$ 259,731	\$ 259,731	100.0%	\$ 0
Division Total	\$ 3,032,270	\$ 3,059,369	100.9%	\$ (27,099)
41 -MCF Management				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 995,424	\$ 884,796	88.9%	\$ 110,628
Vested Former Members	568,338	568,338	100.0	0
Retirees and Beneficiaries	<u>556,261</u>	<u>556,261</u>	100.0	<u>0</u>
Total	\$ 2,120,023	\$ 2,009,395	94.8%	\$ 110,628
Reserve for Employee Contributions				
Active Members	\$ 58,806	\$ 58,806		
Vested Former Members	39,822	39,822		
Pending Refunds	<u>4,639</u>	<u>4,639</u>		
Total	\$ 103,267	\$ 103,267	100.0%	\$ 0
Division Total	\$ 2,223,290	\$ 2,112,662	95.0%	\$ 110,628
42 -ICEA Unit 11				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 345,386	\$ 0	0.0%	\$ 345,386
Vested Former Members	30,899	4,547	14.7	26,352
Retirees and Beneficiaries	<u>647,689</u>	<u>647,689</u>	100.0	<u>0</u>
Total	\$ 1,023,974	\$ 652,236	63.7%	\$ 371,738
Reserve for Employee Contributions				
Active Members	\$ 83,004	\$ 83,004		
Vested Former Members	7,982	7,982		
Pending Refunds	<u>31,744</u>	<u>31,744</u>		
Total	\$ 122,730	\$ 122,730	100.0%	\$ 0
Division Total	\$ 1,146,704	\$ 774,966	67.6%	\$ 371,738

Ingham County (3303)

Table 13 (continued)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2007

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
43 -ICEA Unit 1				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 457,690	\$ 259,129	56.6%	\$ 198,561
Vested Former Members	77,913	77,913	100.0	0
Retirees and Beneficiaries	<u>346,260</u>	<u>346,260</u>	100.0	<u>0</u>
Total	\$ 881,863	\$ 683,302	77.5%	\$ 198,561
Reserve for Employee Contributions				
Active Members	\$ 96,142	\$ 96,142		
Vested Former Members	41,870	41,870		
Pending Refunds	<u>13,522</u>	<u>13,522</u>		
Total	\$ 151,534	\$ 151,534	100.0%	\$ 0
Division Total	\$ 1,033,397	\$ 834,836	80.8%	\$ 198,561
44 -MCF Exec Mgr				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 270,934	\$ 202,806	74.9%	\$ 68,128
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>0</u>	<u>0</u>	0.0	<u>0</u>
Total	\$ 270,934	\$ 202,806	74.9%	\$ 68,128
Reserve for Employee Contributions				
Active Members	\$ 0	\$ 0		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 0	\$ 0	0.0%	\$ 0
Division Total	\$ 270,934	\$ 202,806	74.9%	\$ 68,128
90 -Asst Pros Attnys				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 3,799,667	\$ 2,395,656	63.0%	\$ 1,404,011
Vested Former Members	1,273,680	1,273,680	100.0	0
Retirees and Beneficiaries	<u>3,871,013</u>	<u>3,871,013</u>	100.0	<u>0</u>
Total	\$ 8,944,360	\$ 7,540,349	84.3%	\$ 1,404,011
Reserve for Employee Contributions				
Active Members	\$ 215,406	\$ 215,406		
Vested Former Members	222,603	222,603		
Pending Refunds	<u>4,003</u>	<u>4,003</u>		
Total	\$ 442,012	\$ 442,012	100.0%	\$ 0
Division Total	\$ 9,386,372	\$ 7,982,361	85.0%	\$ 1,404,011

Ingham County (3303)

Table 13 (continued)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2007

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
91 -Parks Union Empl				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 283,882	\$ 258,647	91.1%	\$ 25,235
Vested Former Members	57,605	57,605	100.0	0
Retirees and Beneficiaries	<u>0</u>	<u>0</u>	0.0	<u>0</u>
Total	\$ 341,487	\$ 316,252	92.6%	\$ 25,235
Reserve for Employee Contributions				
Active Members	\$ 0	\$ 0		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 0	\$ 0	0.0%	\$ 0
Division Total	\$ 341,487	\$ 316,252	92.6%	\$ 25,235
92 -Parks Non Union				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 889,443	\$ 628,316	70.6%	\$ 261,127
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>479,847</u>	<u>479,847</u>	100.0	<u>0</u>
Total	\$ 1,369,290	\$ 1,108,163	80.9%	\$ 261,127
Reserve for Employee Contributions				
Active Members	\$ 22,025	\$ 22,025		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 22,025	\$ 22,025	100.0%	\$ 0
Division Total	\$ 1,391,315	\$ 1,130,188	81.2%	\$ 261,127
93 -Lgl Rsrch Clerks				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 196,845	\$ 273,176	138.8%	\$ (76,331)
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>0</u>	<u>0</u>	0.0	<u>0</u>
Total	\$ 196,845	\$ 273,176	138.8%	\$ (76,331)
Reserve for Employee Contributions				
Active Members	\$ 0	\$ 0		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 0	\$ 0	0.0%	\$ 0
Division Total	\$ 196,845	\$ 273,176	138.8%	\$ (76,331)

Ingham County (3303)

Table 13 (continued)

Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2007

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
Municipality Totals				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 96,462,456	\$ 45,328,539	47.0%	\$ 51,133,917
Vested Former Members	10,511,521	10,006,562	95.2	504,959
Retirees and Beneficiaries	<u>118,176,001</u>	<u>111,664,268</u>	94.5	<u>6,511,733</u>
Total	\$ 225,149,978	\$ 166,999,369	74.2%	\$ 58,150,609
Reserve for Employee Contributions				
Active Members	\$ 31,516,629	\$ 31,516,629		
Vested Former Members	2,807,066	2,807,066		
Pending Refunds	<u>855,136</u>	<u>855,136</u>		
Total	\$ 35,178,831	\$ 35,178,831	100.0%	\$ 0
Municipality Total	\$ 260,328,809	\$ 202,178,200	77.7%	\$ 58,150,609

Ingham County (3303)

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
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
2004	215,946,290	162,405,350	75	53,540,940	101
2005	228,698,783	173,502,595	76	55,196,188	104
2006	243,300,405	187,358,412	77	55,941,993	98
2007	260,328,809	202,178,200	78	58,150,609	99

Notes: Actuarial assumptions were revised for the 1993, 1997, 2000, and 2004 actuarial valuations. The funding method was changed to entry age normal for the 1993 valuation.

Ingham County (3303)

Table 15

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Division	Employer Contributions @		
	Normal Cost	Unfunded Accrued Liability #	Total Required Employer Contribution
Percentage of Payroll			
01 - Confidential	7.19%	5.25%	12.44%
02 - Sheriff FOP Spvs	(1.13)%	28.42%	27.29%
04 - MCF	5.49%	0.63%	6.12%
09 - Judges	10.69%	40.91%	51.60%
10 - Gnrl Mgmt	6.79%	8.11%	14.90%
11 - Gnrl Library &	-%	-%	-%
12 - Gnrl ICEA Profs	2.33%	5.27%	7.60%
13 - Gnrl OPEIU Prob	2.48%	6.79%	9.27%
14 - Gnrl TOPS UAW	7.83%	2.14%	9.97%
15 - Animal Cntrl FOP	1.18%	13.07%	14.25%
16 - Gnrl Commsnrs	5.92%	0.97%	6.89%
17 - ICEA Nurses	4.12%	4.09%	8.21%
18 - ICEA Ct. Prof	3.30%	8.43%	11.73%
19 - Cnstutnl Offcls	5.83%	0.94%	6.77%
21 - FOP Shrf Deputies	5.22%	5.14%	10.36%
40 - ICEA Unit 111	5.65%	(0.20)%	5.45%
41 - MCF Management	9.18%	0.54%	9.72%
42 - ICEA Unit 11	6.43%	2.66%	9.09%
43 - ICEA Unit 1	5.57%	2.16%	7.73%
44 - MCF Exec Mgr	17.20%	2.86%	20.06%
90 - Asst Pros Attnys	10.11%	3.62%	13.73%
91 - Parks Union Empl	8.94%	0.58%	9.52%
92 - Parks Non Union	8.44%	8.65%	17.09%
93 - Lgl Rsrch Clerks	6.22%	(2.22)%	4.00%

Ingham County (3303)

Table 15 (continued)

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Division	Employer Contributions @		
	Normal Cost	Unfunded Accrued Liability #	Total Required Employer Contribution
Estimated Monthly Contribution*			
01 - Confidential	\$ 7,983	\$ 5,829	\$ 13,812
02 - Sheriff FOP Spvs	(2,120)	53,308	51,188
04 - MCF	18,385	2,110	20,495
09 - Judges	978	3,741	4,719
10 - Gnrl Mgmt	37,873	45,236	83,109
11 - Gnrl Library	0	1,141	1,141
12 - Gnrl ICEA Profs	12,773	28,891	41,664
13 - Gnrl OPEIU Prob	4,067	11,136	15,203
14 - Gnrl TOPS UAW	91,994	25,143	117,137
15 - Animal Cntrl FOP	429	4,754	5,183
16 - Gnrl Commsnrs	995	163	1,158
17 - ICEA Nurses	13,221	13,125	26,346
18 - ICEA Ct. Prof	5,556	14,193	19,749
19 - Cnstutnl Offcls	2,706	436	3,142
21 - FOP Shrf Deputies	35,735	35,187	70,922
40 - ICEA Unit 111	6,870	(243)	6,627
41 - MCF Management	8,440	496	8,936
42 - ICEA Unit 11	3,739	1,547	5,286
43 - ICEA Unit 1	2,255	874	3,129
44 - MCF Exec Mgr	1,776	295	2,071
90 - Asst Pros Attnys	17,245	6,175	23,420
91 - Parks Union Empl	1,787	116	1,903
92 - Parks Non Union	1,111	1,139	2,250
93 - Lgl Rsrch Clerks	1,836	(655)	1,181
Total Municipality	\$ 275,634	\$ 254,137	\$ 529,771
Estimated Annual Contribution*			
Total Municipality	\$ 3,307,608	\$3,049,644	\$ 6,357,252

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

* Based on Valuation Payroll. For divisions that are open to new hires, actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher). For divisions that are closed to new hires, invoices will be based on the above dollar amounts.

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

& This division is closed to new hires. Invoices will be based on the dollar contribution amounts shown in this table.

Ingham County (3303)
Division 01 - Confidential

Table 16A

Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	7.19%	\$7,983
Amortization of Unfunded Accrued Liability (28 years)	<u>5.25</u>	<u>5,829</u>
Total Long Term Contribution	12.44	13,812
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	12.44%	\$13,812 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 01 - Confidential

Table 17A

Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2004	31	1,350,633	11.04%	11.04%
2005	32	1,368,369	12.12%	12.12%
2006	32	1,358,941	12.65%	12.65%
2007	32	1,332,376	12.44%	12.44%

Notes:

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.

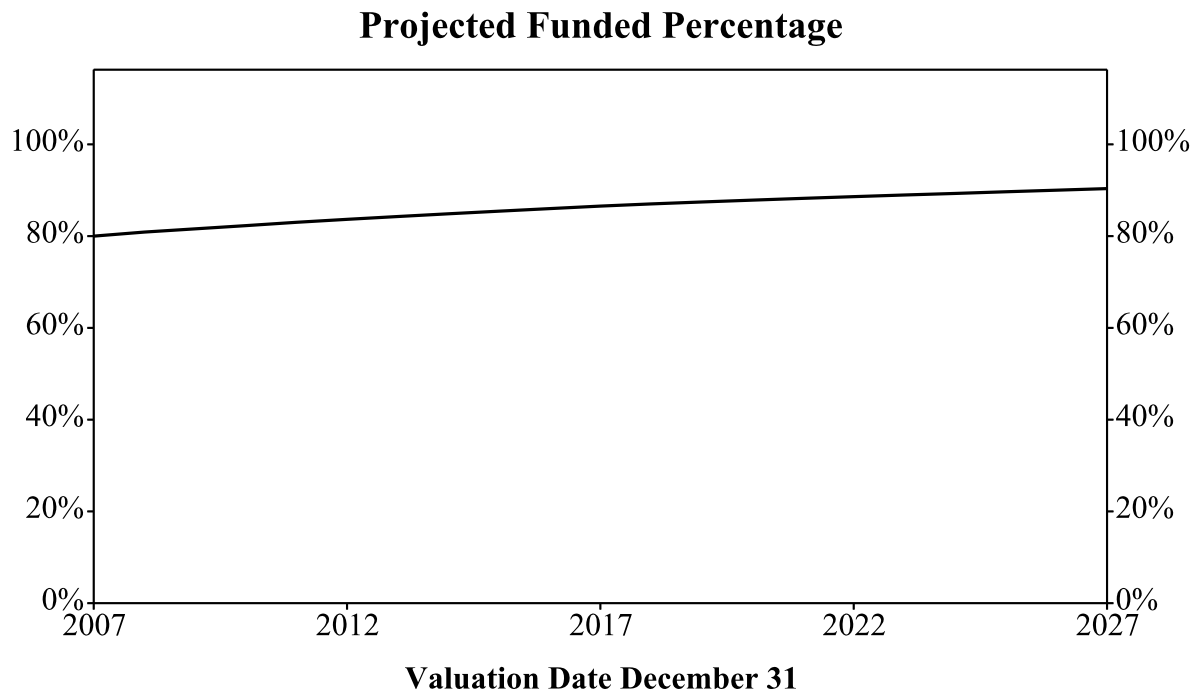
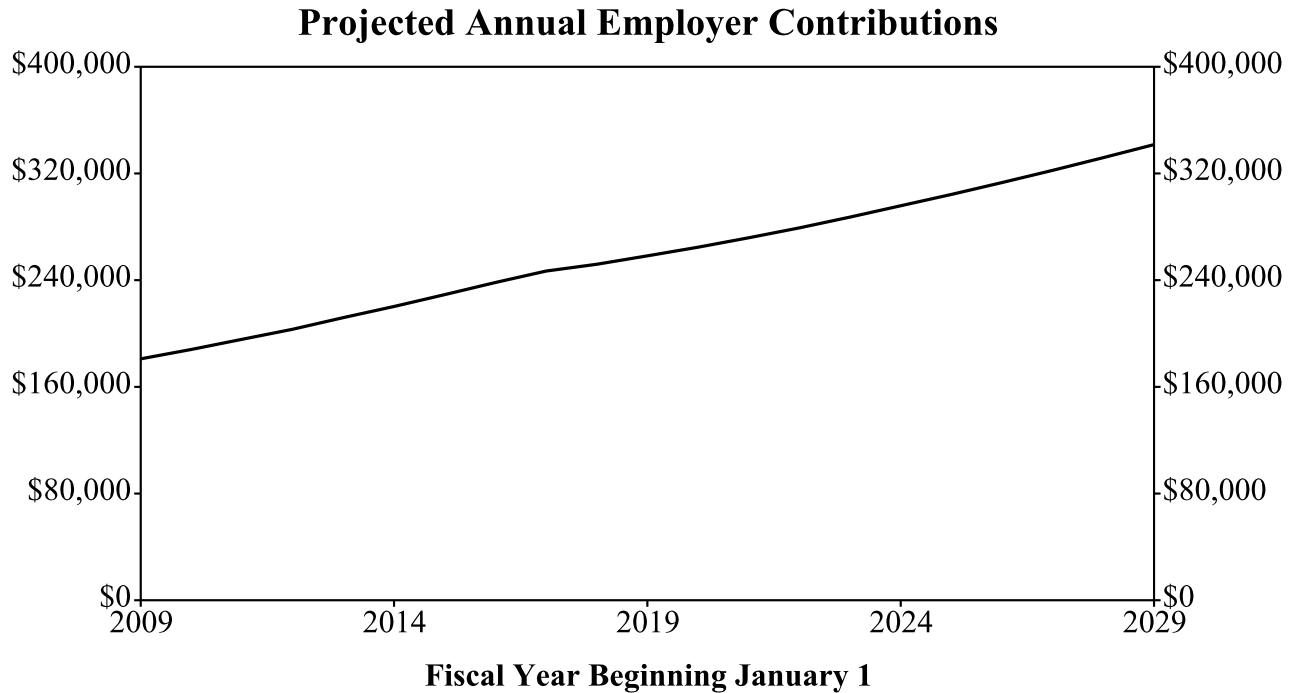
Actuarial assumptions were revised for the 2000 valuation.

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

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 01 - Confidential
Chart 17.5A



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)
Division 01 - Confidential

Table 18A
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001				(1)		(2)	3	1	34
2002	(1)			(1)	(1)	(2)		3	32
2003	(1)			(1)	(2)		2	4	34
2004	(1)			(1)	(1)	(2)	2		31
2005	(2)						1	2	32
2006	(1)			(1)		(1)	2	1	32
2007				(1)		(3)	1	3	32

Table 19A
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001	(1)				(32)	1	3	13
2002				(1)			1	13
2003					(2)		1	12
2004							1	13
2005							1	14
2006	(1)						1	14
2007	(3)						2	13

Ingham County (3303)
Division 01 - Confidential

Table 20A
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	1	\$ 3,457	\$	(1)	\$ (1,149)	\$	37	\$ 169,678
2002	2	42,414		(3)	(15,183)	(2,835)	36	194,074
2003	1	25,088		(15)	(65,830)		22	153,332
2004	1	13,333		(2)	(3,886)		21	162,779
2005	5	66,113		(2)	(1,710)		24	227,182
2006	2	41,903					26	269,085
2007	3	48,527		(2)	(5,548)		27	312,064

@ 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.

Ingham County (3303)
Division 01 - Confidential

Table 21A
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 116,795	\$ 55,393	\$ 283,566	\$ (168,952)	\$ 0	\$ (601,816)	\$ 0	\$ 4,149,727
2002	132,207	67,918	112,514	(180,958)	(4,268)	(146,120)	0	4,131,020
2003	151,966	75,729	327,767	(199,432)	(2,184)	(253,961)	18,438	4,249,343
2004	172,755	76,599	291,112	(163,308)	0	(90,433)	0	4,536,068
2005	160,217	75,552	298,225	(203,905)	(7,270)	(521)	23,118	4,881,484
2006	156,321	76,280	395,557	(261,270)	0	0	116,437	5,364,809
2007	169,355	74,965	426,757	(283,332)	0	(344,395)	0	5,408,159

* 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	Accrued Liabilities	Valuation Assets	Funded Percent	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 4,916,347	\$ 4,149,727	84%	\$ 766,620	62%
2002	5,306,662	4,131,020	78	1,175,642	100
2003	5,386,909	4,249,343	79	1,137,566	84
2004	5,662,961	4,536,068	80	1,126,893	83
2005	6,249,319	4,881,484	78	1,367,835	100
2006	6,852,460	5,364,809	78	1,487,651	109
2007	6,745,980	5,408,159	80	1,337,821	100

Ingham County (3303)

Division 02 - Sheriff FOP Spvs

Table 16B

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	(1.13)%	\$(2,120)
Amortization of Unfunded Accrued Liability (28 years)	<u>28.42</u>	<u>53,308</u>
Total Long Term Contribution	27.29	51,188
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	27.29%	\$51,188 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 02 - Sheriff FOP Spvs

Table 17B

Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2001	31	1,858,730	20.07%	20.07%
2002	32	1,964,293	21.52%	21.52%
2003	32	2,057,522	22.43%	22.43%
2004	32	2,207,974	22.50%	22.50%
2005	31	2,118,779	24.75%	24.75%
2006	31	2,223,259	25.54%	25.54%
2007	31	2,250,880	27.29%	27.29%

Notes:

Adoption of 6.45% member contributions reflected in 1993 valuation.

Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 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.

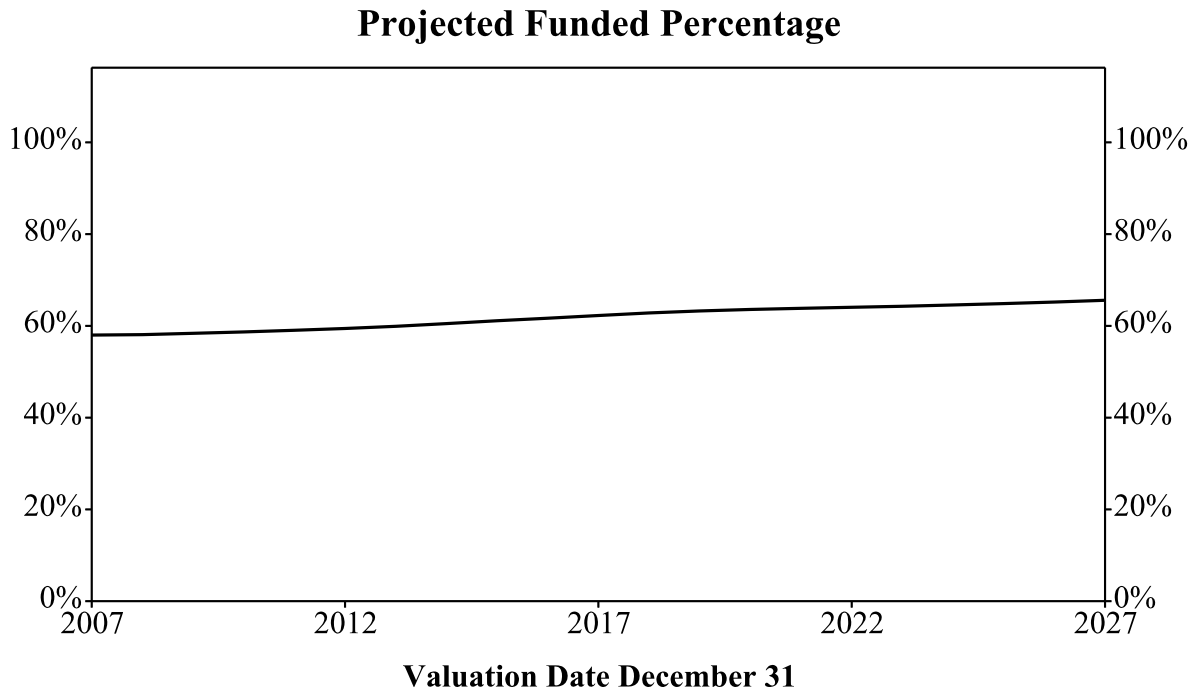
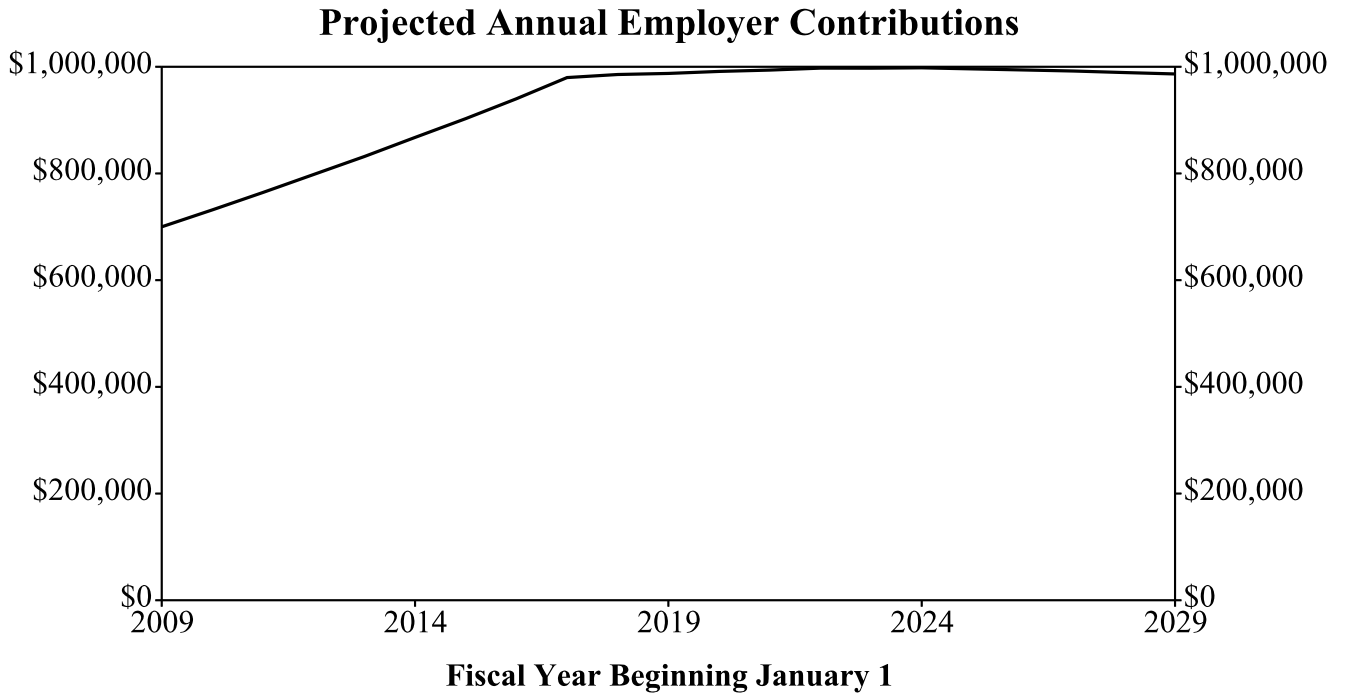
Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 02 - Sheriff FOP Spvs
Chart 17.5B



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 02 - Sheriff FOP Spvs

Table 18B
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001	(1)						2		31
2002	(2)						3		32
2003	(2)			(1)			3		32
2004									32
2005	(2)						1		31
2006	(1)					(1)	2		31
2007	(3)						3		31

Table 19B
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001					(4)	1		2
2002	(1)							1
2003							1	2
2004								2
2005	(1)							1
2006								1
2007							1	2

Ingham County (3303)
Division 02 - Sheriff FOP Spvs

Table 20B
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	1	\$ 46,610	\$ 4,130	(2)	\$ (27,413)	\$ (1,124)	46	\$ 1,232,024
2002	3	97,241				(16,272)	49	1,317,123
2003	3	94,123		(5)	(27,410)		47	1,383,836
2004	1	4,435		(1)	(8,871)	(3,894)	47	1,375,506
2005	4	132,223		(1)	(23,454)		50	1,484,275
2006	1	55,407					51	1,539,682
2007	3	178,194		(1)	(5,443)		53	1,712,433

@ 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.

Ingham County (3303)
Division 02 - Sheriff FOP Spvs

Table 21B
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 335,049	\$ 364,516	\$ 988,337	\$ (1,220,618)	\$ 0	\$ 0	\$ 77,596	\$ 13,829,148
2002	396,280	391,201	416,706	(1,276,451)	0	0	138,170	13,895,054
2003	412,747	403,045	961,220	(1,391,782)	0	(105,653)	99,980	14,274,611
2004	475,156	432,984	917,233	(1,380,878)	0	0	0	14,719,106
2005	484,253	424,502	919,033	(1,439,958)	0	0	64,623	15,171,559
2006	517,000	451,070	1,206,558	(1,516,595)	0	(86,888)	35,943	15,778,647
2007	575,120	454,718	1,278,230	(1,610,934)	0	0	310,116	16,785,897

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

Table 22B
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	\$ 21,466,776	\$ 13,829,148	64%	\$ 7,637,628	411%
2002	22,500,406	13,895,054	62	8,605,352	438
2003	23,655,687	14,274,611	60	9,381,076	456
2004	25,146,699	14,719,106	59	10,427,593	472
2005	26,075,013	15,171,559	58	10,903,454	515
2006	27,308,500	15,778,647	58	11,529,853	519
2007	28,963,782	16,785,897	58	12,177,885	541

Ingham County (3303)

Division 04 - MCF

Table 16C

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	5.49%	\$18,385
Amortization of Unfunded Accrued Liability (28 years)	<u>0.63</u>	<u>2,110</u>
Total Long Term Contribution	6.12	20,495
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	6.12%	\$20,495 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)**Division 04 - MCF****Table 17C****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2001	121	2,583,257	7.67%	6.60%
2002	115	2,543,513	7.56%	7.02%
2003	131	3,237,587	7.26%	7.26%
2004	130	3,187,862	6.72%	6.72%
2005	127	3,165,284	6.85%	6.85%
2006	153	4,040,561	6.26%	6.26%
2007	146	4,018,672	6.12%	6.12%

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.

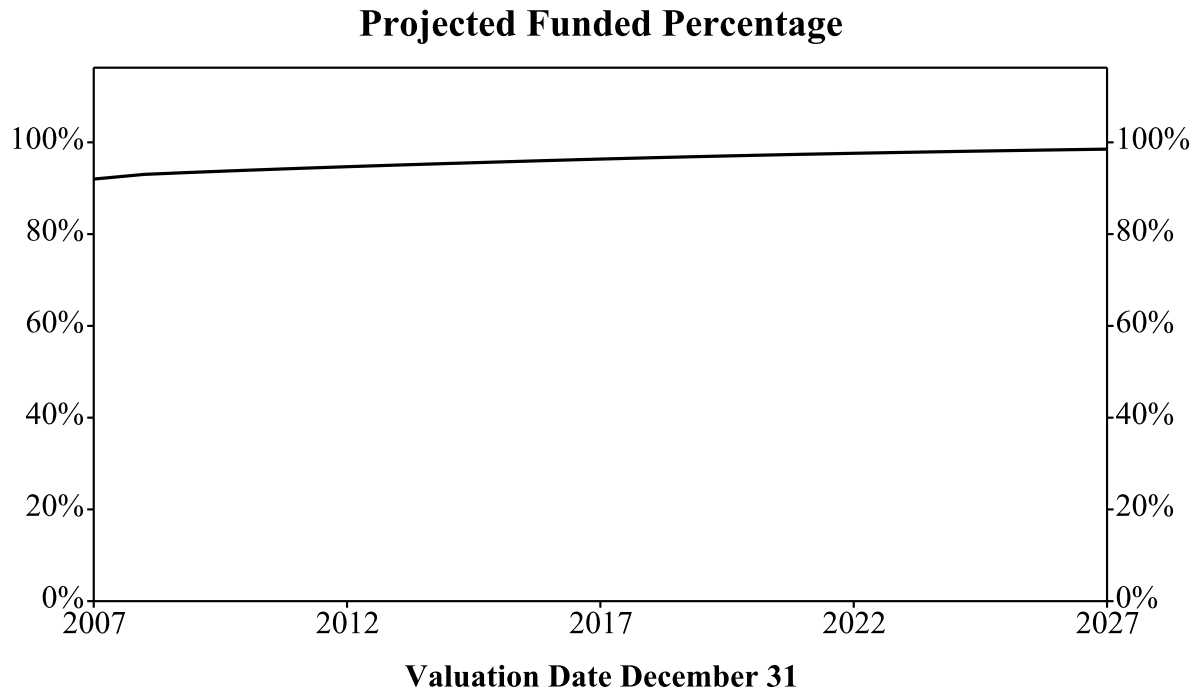
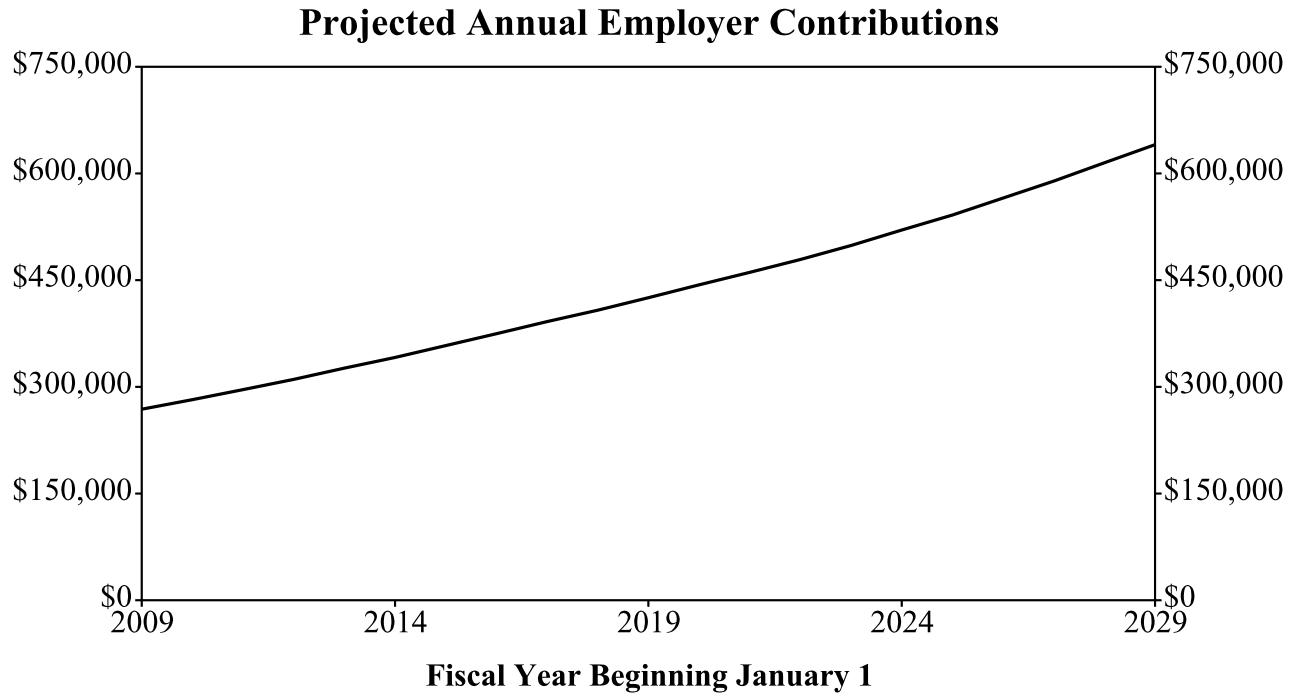
Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)

Division 04 - MCF

Chart 17.5C



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 04 - MCF

Table 18C
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001		(1)		(5)	(33)			37	121
2002	(1)			(1)	(38)	(1)		35	115
2003				(2)	(25)			43	131
2004	(2)			(1)	(21)	(2)	1	24	130
2005	(2)			(2)	(26)	(1)		28	127
2006	(1)			(4)	(16)	(1)		48	153
2007				(2)	(32)	(3)		30	146

Table 19C
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001	(2)			(2)			9	37
2002				(7)			2	32
2003	(1)	(1)					2	32
2004	(1)						1	32
2005	(1)						2	33
2006					(1)		5	37
2007	(1)						2	38

Ingham County (3303)

Division 04 - MCF

Table 20C
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	4	\$ 21,035	\$	(4)	\$ (12,747)	\$	71	\$ 249,151
2002	1	3,602		(4)	(21,575)		68	231,178
2003	2	8,898		(4)	(10,593)		66	229,483
2004	3	24,699		(3)	(5,097)		66	249,085
2005	3	19,497					69	268,582
2006	1	11,180		(7)	(26,849)	(2,018)	63	250,895
2007	1	3,108		(4)	(14,211)		60	239,792

@ 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.

Ingham County (3303)

Division 04 - MCF

Table 21C
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 134,202	\$ 582	\$ 298,955	\$ (248,568)	\$ 0	\$ 0	\$ 0	\$ 4,203,569
2002	158,819	624	129,958	(231,899)	0	(13,543)	0	4,247,528
2003	208,400	191	328,562	(244,844)	0	0	0	4,539,837
2004	234,013	182	309,990	(240,198)	0	(373)	0	4,843,451
2005	244,703	0	313,173	(259,873)	0	(1,036)	137	5,140,555
2006	257,996	0	414,673	(255,507)	0	(15,617)	0	5,542,100
2007	285,608	0	449,547	(248,386)	0	(10,737)	0	6,018,132

* 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
2004	5,586,331	4,843,451	87	742,880	23
2005	5,941,938	5,140,555	87	801,383	25
2006	6,178,455	5,542,100	90	636,355	16
2007	6,509,669	6,018,132	92	491,537	12

Ingham County (3303)

Division 09 - Judges

Table 16D

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	10.69%	\$978
Amortization of Unfunded Accrued Liability (28 years)	<u>40.91</u>	<u>3,741</u>
Total Long Term Contribution	51.60	4,719
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	51.60%	\$4,719 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)**Division 09 - Judges****Table 17D****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2001	7	196,106	19.80%	19.80%
2002	5	137,270	32.09%	32.09%
2003	6	164,604	29.75%	29.75%
2004	5	137,220	39.05%	39.05%
2005	4	109,736	50.67%	50.67%
2006	4	109,736	51.68%	51.68%
2007	4	109,736	51.60%	51.60%

Notes:

Actuarial assumptions were revised for the 1993 valuation.

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.

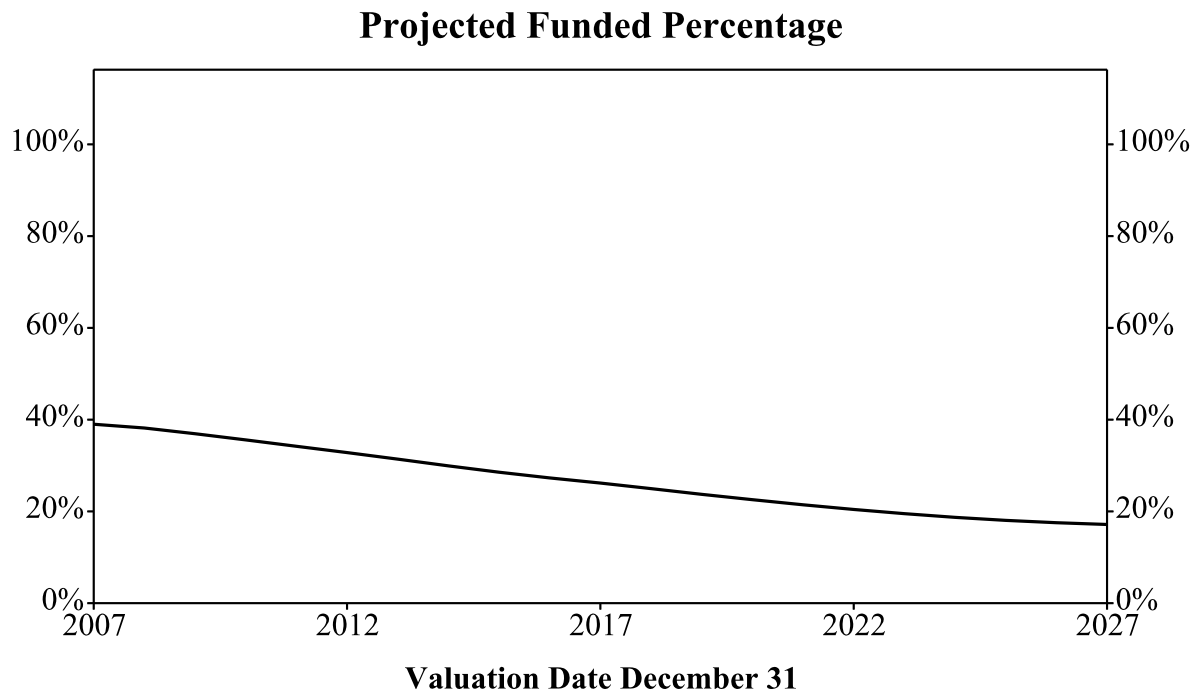
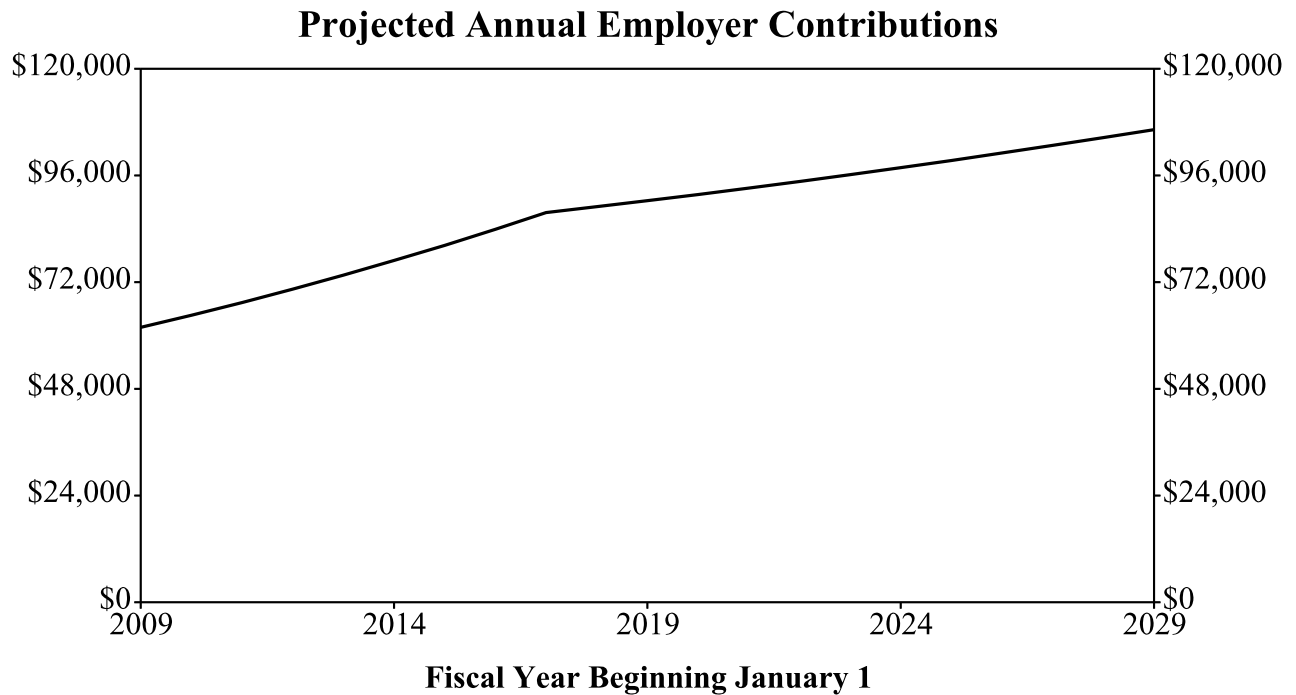
Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)

Division 09 - Judges

Chart 17.5D



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 09 - Judges

Table 18D
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001					(1)			1	7
2002	(2)								5
2003								1	6
2004	(1)								5
2005	(1)								4
2006									4
2007									4

Table 19D
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001				(1)	(1)	1		1
2002								1
2003							1	2
2004	(1)						1	2
2005								2
2006								2
2007				(1)				1

Ingham County (3303)

Division 09 - Judges

Table 20D
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001		\$	\$		\$	\$	3	\$ 20,722
2002	3	43,009		(1)	(5,642)		5	58,089
2003	1	3,569					6	61,658
2004	2	19,807					8	81,465
2005	1	16,959					9	98,424
2006							9	98,424
2007							9	98,424

@ 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.

Ingham County (3303)

Division 09 - Judges

Table 21D
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 29,200	\$ 0	\$ 29,735	\$ (20,722)	\$ (275,653)	\$ (281,056)	\$ 284,731	\$ 485,390
2002	22,269	6,030	19,372	(17,666)	0	0	0	515,395
2003	32,592	5,164	37,420	(58,089)	0	0	17,575	550,057
2004	52,837	5,169	35,776	(64,580)	0	(87)	87	579,259
2005	36,047	3,804	33,134	(91,358)	0	(274)	274	560,886
2006	42,852	3,446	41,696	(98,424)	0	0	0	550,456
2007	55,603	3,446	43,156	(98,424)	0	0	0	554,237

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

Table 22D
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	\$ 815,236	\$ 485,390	60%	\$ 329,846	168%
2002	1,097,589	515,395	47	582,194	424
2003	1,167,703	550,057	47	617,646	375
2004	1,347,624	579,259	43	768,365	560
2005	1,419,034	560,886	40	858,148	782
2006	1,425,657	550,456	39	875,201	798
2007	1,411,643	554,237	39	857,406	781

Ingham County (3303)

Division 10 - Gnrl Mgmt

Table 16E

**Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009**

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	6.79%	\$37,873
Amortization of Unfunded Accrued Liability (28 years)	<u>8.11</u>	<u>45,236</u>
Total Long Term Contribution	14.90	83,109
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	14.90%	\$83,109 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)**Division 10 - Gnrl Mgmt****Table 17E****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2004	78	5,894,050	13.39%	13.39%
2005	77	5,833,792	13.99%	13.99%
2006	80	6,241,730	14.44%	14.44%
2007	87	6,693,324	14.90%	14.90%

Notes:

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.

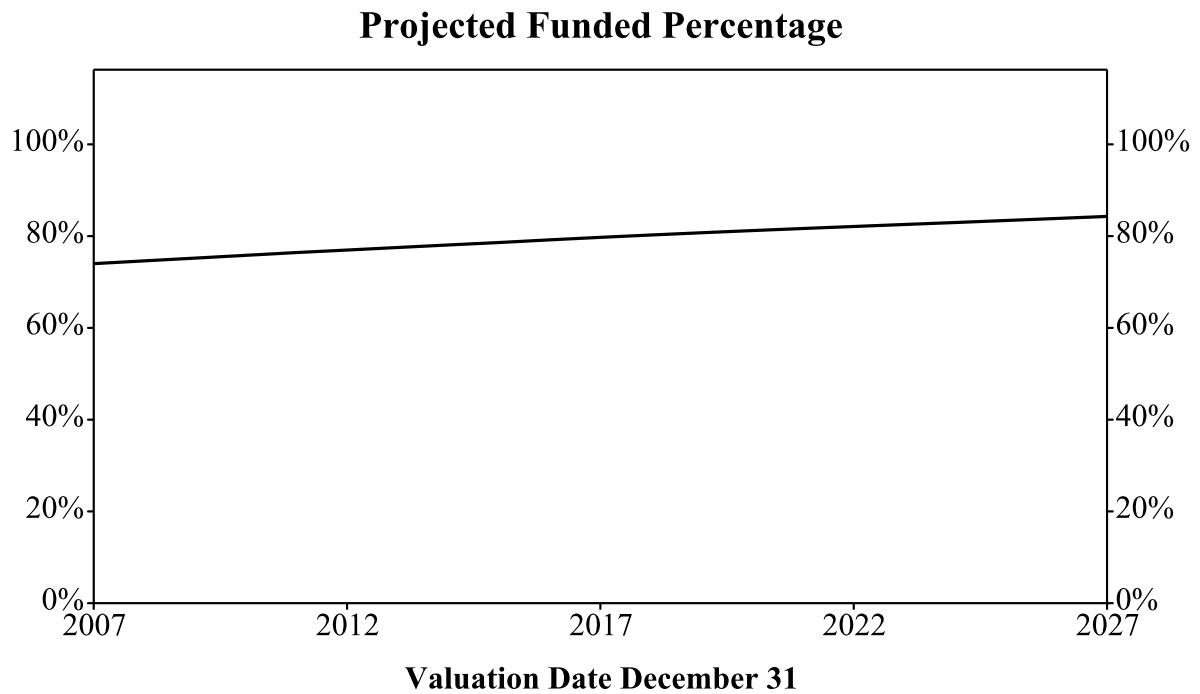
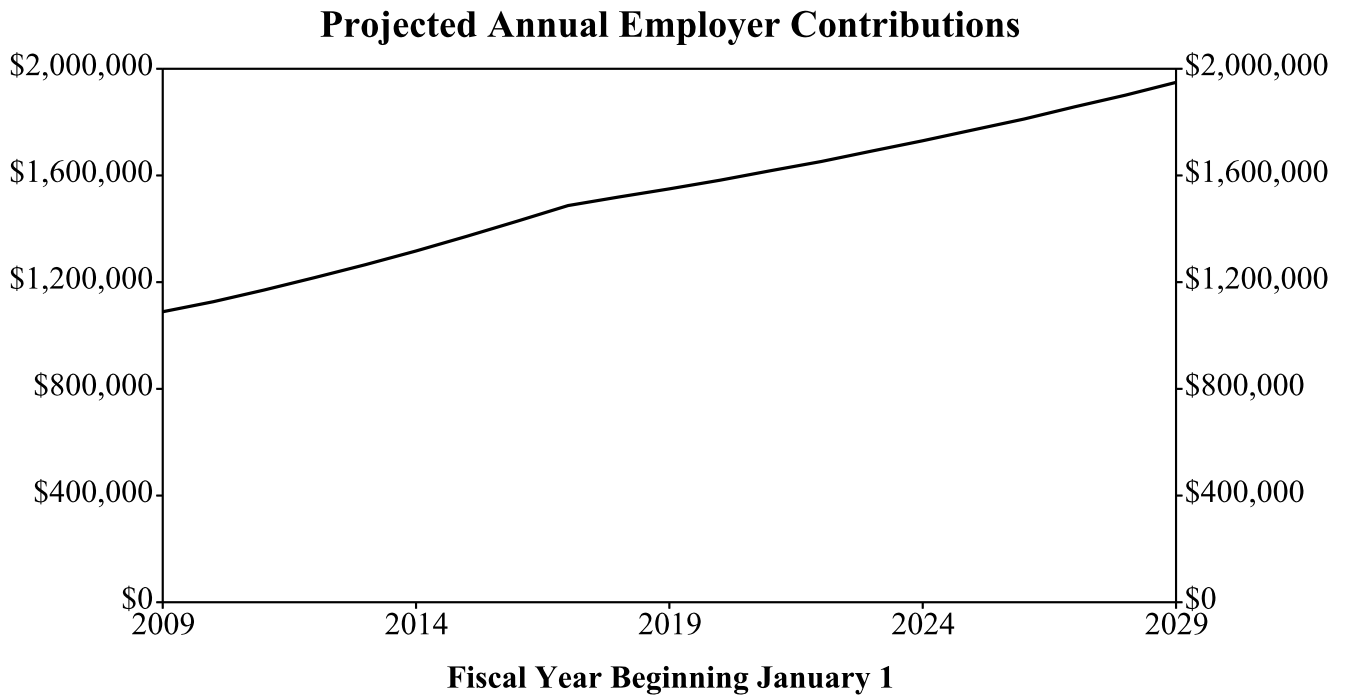
Actuarial assumptions were revised for the 2000 valuation.

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

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 10 - Gnrl Mgmt
Chart 17.5E



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)
Division 10 - Gnrl Mgmt

Table 18E
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001				(3)	(2)	(2)	6	8	80
2002	(7)			(2)	(1)		5	4	79
2003				(1)	(1)		2	2	81
2004	(7)			(2)	(4)		4	6	78
2005	(3)			(1)	(1)	(1)	3	2	77
2006	(8)			(3)	(2)		7	9	80
2007	(6)			(3)	(4)	(1)	6	15	87

Table 19E
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001						2	4	20
2002	(2)			(2)			2	18
2003	(1)						1	18
2004	(1)			(2)			2	17
2005							1	18
2006	(1)						4	21
2007	(1)			(1)			3	22

Ingham County (3303)
Division 10 - Gnrl Mgmt

Table 20E
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	1	\$ 11,706	\$		\$	\$ (3,507)	44	\$ 752,492
2002	10	337,308		(4)	(71,514)		50	1,018,286
2003	1	40,556		(2)	(15,869)	(3,105)	49	1,039,868
2004	9	302,849		(1)	(5,410)	(3,445)	57	1,333,862
2005	3	153,618	1,851			(18,848)	60	1,470,483
2006	9	342,184		(1)	(15,126)		68	1,797,541
2007	7	303,087					75	2,100,628

@ 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.

Ingham County (3303)
Division 10 - Gnrl Mgmt

Table 21E
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 426,804	\$ 257,085	\$ 1,363,992	\$ (744,291)	\$ (15,107)	\$ 0	\$ 180,151	\$ 18,823,795
2002	599,686	351,366	739,404	(924,941)	(20,244)	0	192,958	19,762,024
2003	648,062	363,306	1,677,545	(1,018,375)	(6,168)	0	218,524	21,644,918
2004	795,251	400,093	1,535,189	(1,175,522)	(32,482)	0	419,134	23,586,581
2005	763,971	397,610	1,520,342	(1,401,101)	(53,693)	0	104,268	24,917,978
2006	839,780	403,863	2,038,880	(1,655,809)	(7,871)	0	807,055	27,343,876
2007	909,406	417,318	2,213,432	(1,993,265)	(61,179)	0	728,000	29,557,588

* 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	\$ 22,378,557	\$ 18,823,795	84%	\$ 3,554,762	68%
2002	26,400,949	19,762,024	75	6,638,925	123
2003	28,184,667	21,644,918	77	6,539,749	114
2004	31,635,219	23,586,581	75	8,048,638	137
2005	33,516,643	24,917,978	74	8,598,665	147
2006	36,857,629	27,343,876	74	9,513,753	152
2007	39,890,994	29,557,588	74	10,333,406	154

Ingham County (3303)
Division 11 - Gnrl Library

Table 16F

Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$0
Amortization of Unfunded Accrued Liability (18 years) ^	<u>1,141</u> ^
Total Long Term Contribution	1,141
Overfunding Credit #	<u>0</u>
Total Contribution	\$1,141 *

@ The above Employer contribution requirement is based on Member contributions of 0.00% of pay.

* Invoices will be based on this dollar amount.

Only applies if projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 18 year amortization (payments increase 4.5% per year). However, for reporting and disclosure purposes under Statement Nos. 25 and 27 of the Governmental Accounting Standards Board, the annual required contribution (ARC) is based on a 30 year level dollar amortization (the annual amortization payment is \$15,552 and the ARC is \$15,552). Note that the 18 year amortization period will decrease by 2 years each valuation year, until a minimum 5 year amortization is attained. This will result in amortization payments that increase faster than 4.5% each year.

Ingham County (3303)
Division 11 - Gnrl Library

Table 17F

Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2001	0	0	-	-
2002	0	0	-	-
2003	0	0	-	-
2004	0	0	\$ 958 #	\$ 958 #
2005	0	0	\$ 551	\$ 551
2006	0	0	\$ 911	\$ 911
2007	0	0	\$ 1,141	\$ 1,141

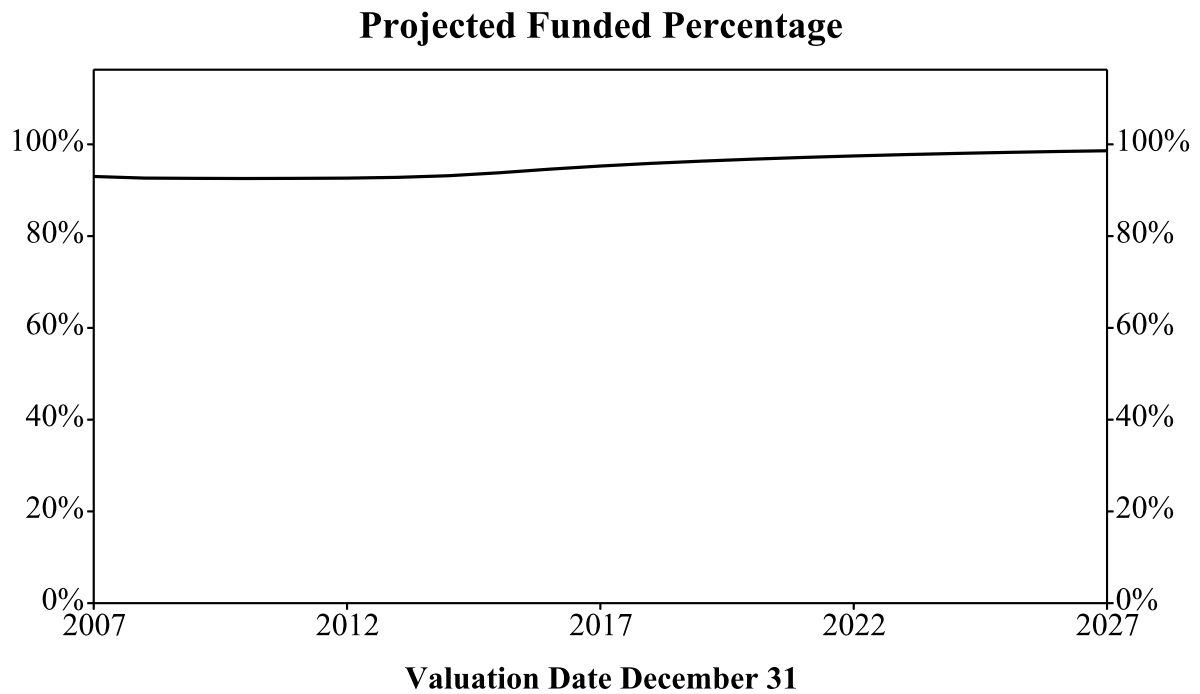
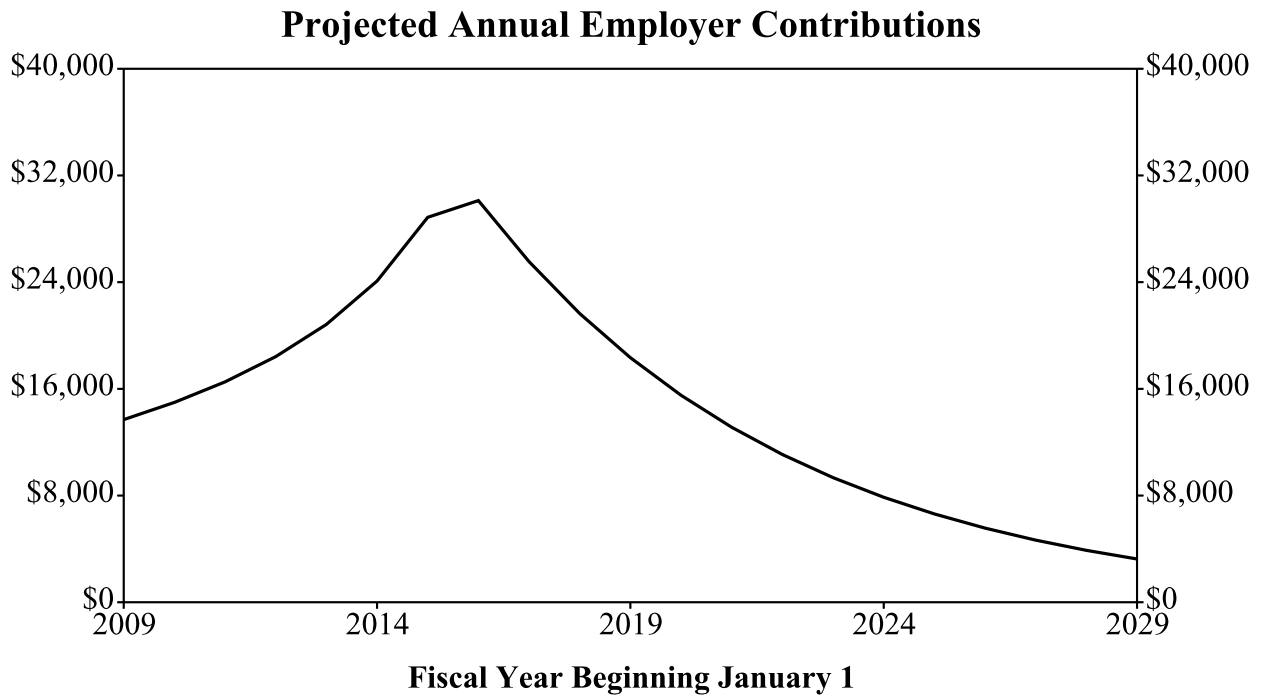
Beginning in the 2004 valuation, a monthly dollar contribution is shown for divisions that are closed to new hires.

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.
Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 11 - Gnrl Library
Chart 17.5F



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)
Division 11 - Gnrl Library

Table 18F
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001				(22)	(1)				0
2002									0
2003									0
2004									0
2005									0
2006									0
2007									0

Table 19F
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001	(1)						24	31
2002	(1)			(1)				29
2003								29
2004	(1)							28
2005	(1)						1	28
2006	(5)							23
2007	(3)							20

Ingham County (3303)
Division 11 - Gnrl Library

Table 20F
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	1	\$ 4,206	\$	(1)	\$ (3,724)	\$	20	\$ 95,499
2002	2	5,913		(1)	(1,541)		21	99,871
2003							21	99,871
2004	1	2,664		(1)	(5,361)		21	97,174
2005	1	13,457					22	110,631
2006	5	34,872		(1)	(4,372)		26	141,131
2007	3	30,385					29	171,516

@ 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.

Ingham County (3303)
Division 11 - Gnrl Library

Table 21F
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 71,726	\$ 0	\$ 156,633	\$ (90,139)	\$ 0	\$ 0	\$ 0	\$ 2,179,827
2002	2,787	0	53,795	(98,414)	0	0	0	2,137,995
2003	0	0	145,855	(99,871)	0	0	0	2,183,979
2004	0	0	139,614	(97,637)	0	0	0	2,225,956
2005	0	0	137,457	(97,395)	0	(612)	612	2,266,018
2006	11,496	0	177,532	(185,983)	0	0	0	2,269,063
2007	6,612	0	181,713	(176,550)	0	0	0	2,280,838

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

Table 22F
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	\$ 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	
2004	2,414,640	2,225,956	92	188,684	
2005	2,370,802	2,266,018	96	104,784	
2006	2,420,459	2,269,063	94	151,396	
2007	2,459,819	2,280,838	93	178,981	

Ingham County (3303)
Division 12 - Gnrl ICEA Profs

Table 16G

Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	2.33%	\$12,773
Amortization of Unfunded Accrued Liability (28 years)	<u>5.27</u>	<u>28,891</u>
Total Long Term Contribution	7.60	41,664
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	7.60%	\$41,664 *

@ 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 28 year amortization) will decrease/increase by 0.86% 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 12 - Gnrl ICEA Profs

Table 17G

Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2001	130	5,161,093	6.98%	6.98%
2002	132	6,004,201	11.69%	11.69%
2003	123	5,785,130	7.97%	7.97%
2004	122	6,164,310	7.47%	7.47%
2005	129	6,447,489	7.46%	7.46%
2006	126	6,553,689	7.43%	7.43%
2007	124	6,578,499	7.60%	7.60%

Notes:

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.

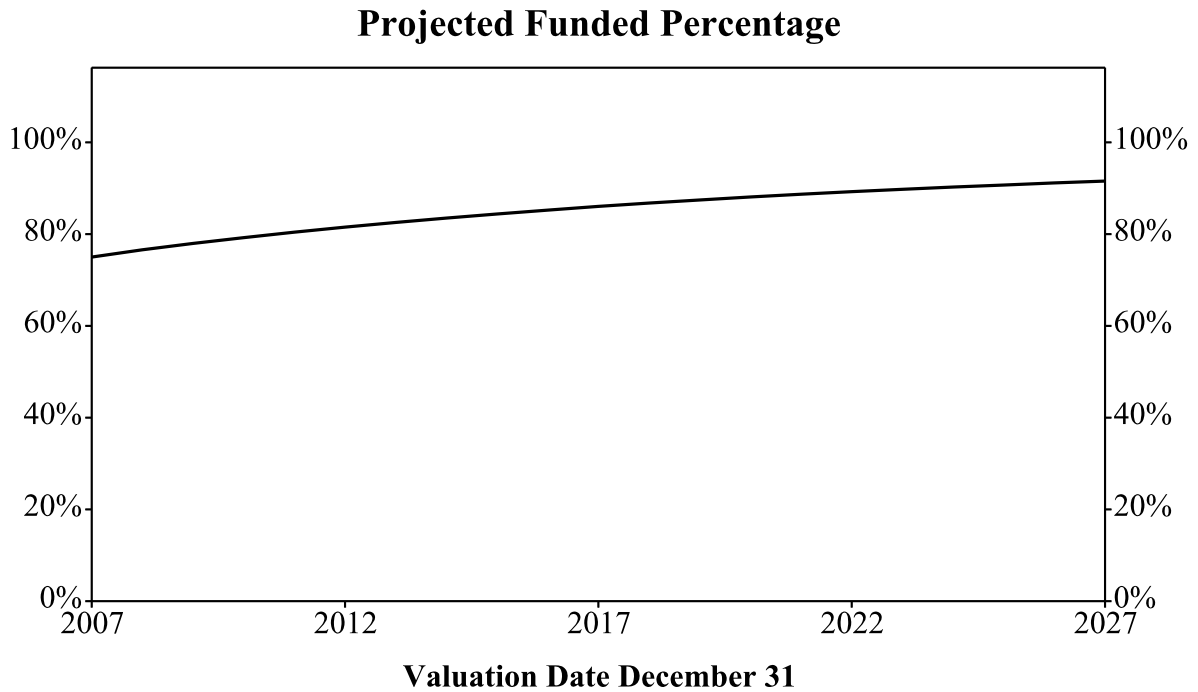
Adoption of Benefit E-2 (2.5%) reflected in 2002 valuation.

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

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 12 - Gnrl ICEA Profs
Chart 17.5G



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 12 - Gnrl ICEA Profs

Table 18G
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001	(1)			(6)	(9)	(1)	4	30	130
2002	(1)			(2)	(6)			11	132
2003	(6)				(12)		1	8	123
2004	(2)			(3)	(4)	(3)	2	9	122
2005	(5)			(1)	(8)		2	19	129
2006	(1)			(1)	(8)	(4)		11	126
2007	(3)				(9)	(2)	2	10	124

Table 19G
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001				(1)	(1)	7	7	30
2002	(1)	(1)		(4)			2	26
2003				(1)				25
2004	(1)			(1)			3	26
2005		(1)		(1)			2	26
2006	(1)			(1)			1	25
2007	(3)						1	23

Ingham County (3303)
Division 12 - Gnrl ICEA Profs

Table 20G
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	2	\$ 10,185	\$ 345		\$	\$	19	\$ 230,384
2002	3	36,169		(2)	(21,434)		20	245,119
2003	10	167,032		(1)	(26,919)		29	385,232
2004	3	75,269	3,511				32	464,012
2005	5	155,345	5,074	(1)	(3,773)		36	620,658
2006	3	56,598	9,763				39	687,019
2007	7	134,570	10,098				46	831,687

@ 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.

Ingham County (3303)
Division 12 - Gnrl ICEA Profs

Table 21G
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 276,700	\$ 310,813	\$ 742,356	\$ (222,486)	\$ (51,984)	\$ 0	\$ 269,808	\$ 9,918,034
2002	391,596	373,448	498,430	(228,904)	(40,116)	(1,063)	42,456	10,953,881
2003	414,893	798,687	1,112,729	(338,999)	(38,003)	0	58,915	12,962,103
2004	685,307	843,805	972,381	(408,475)	(25,019)	(216,363)	0	14,813,739
2005	517,920	873,765	1,023,224	(552,558)	(66,315)	0	63,698	16,673,473
2006	488,511	879,561	1,349,356	(636,357)	(143,856)	(297,816)	0	18,312,872
2007	494,115	892,147	1,491,429	(776,234)	(111,764)	(96,387)	0	20,206,178

* 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
2004	21,251,862	14,813,739	70	6,438,123	104
2005	23,348,206	16,673,473	71	6,674,733	104
2006	24,938,421	18,312,872	73	6,625,549	101
2007	26,820,726	20,206,178	75	6,614,548	101

Ingham County (3303)

Division 13 - Gnrl OPEIU Prob

Table 16H

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	2.48%	\$4,067
Amortization of Unfunded Accrued Liability (28 years)	<u>6.79</u>	<u>11,136</u>
Total Long Term Contribution	9.27	15,203
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	9.27%	\$15,203 *

@ 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 28 year amortization) will decrease/increase by 0.86% 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 13 - Gnrl OPEIU Prob

Table 17H

Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2001	38	1,851,347	6.91%	6.91%
2002	36	1,843,133	8.57%	8.57%
2003	36	1,812,911	8.47%	8.47%
2004	40	2,107,514	7.91%	7.91%
2005	39	2,063,491	8.37%	8.37%
2006	38	2,059,204	8.96%	8.96%
2007	38	1,968,144	9.27%	9.27%

Notes:

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.

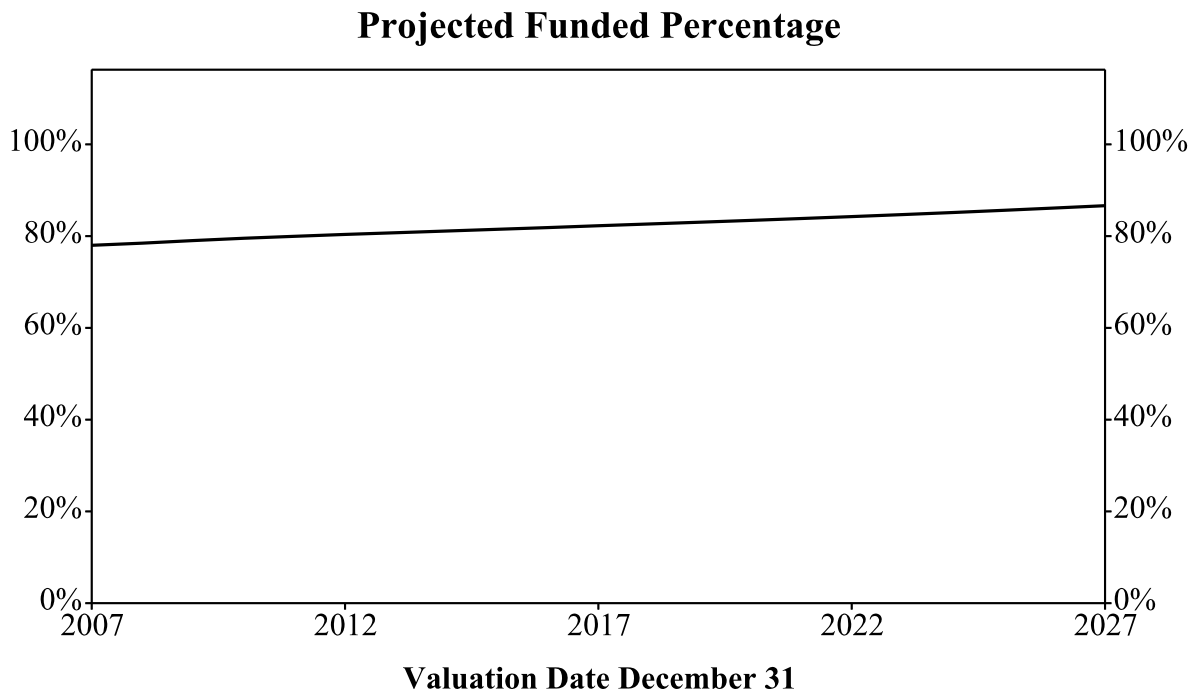
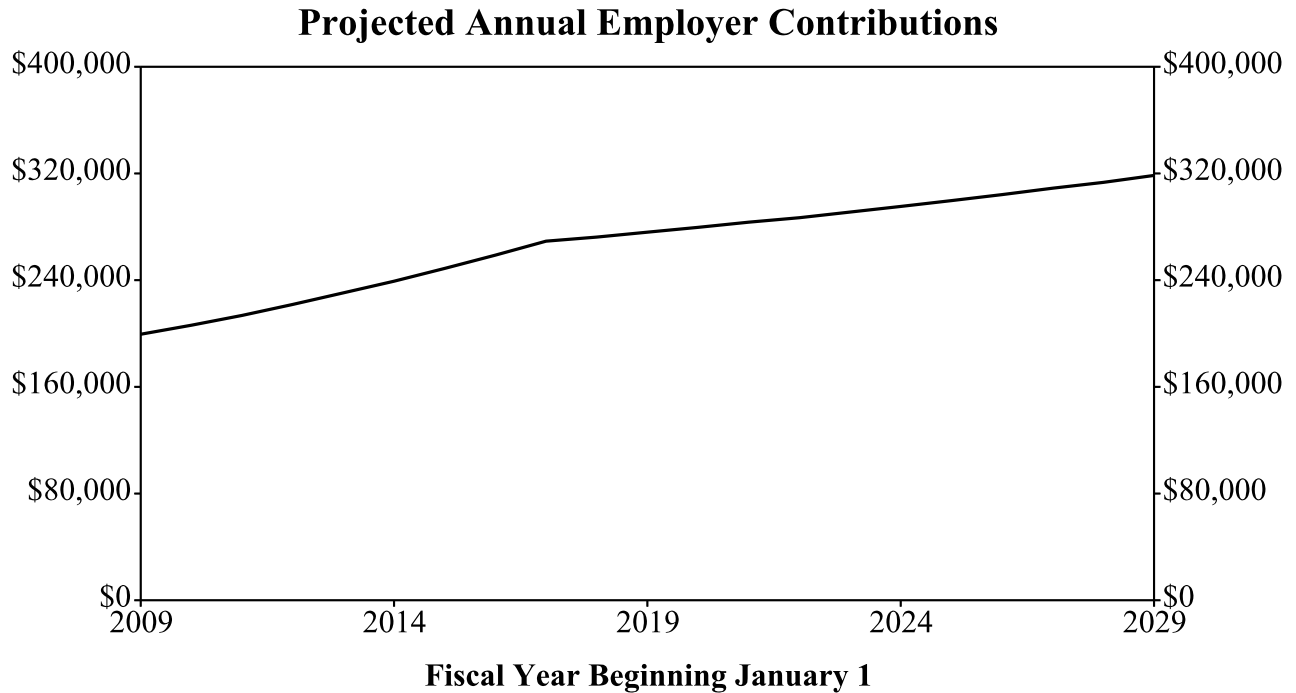
Adoption of Benefit FAC-3 reflected in 2002 valuation.

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

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 13 - Gnrl OPEIU Prob
Chart 17.5H



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 13 - Gnrl OPEIU Prob

Table 18H
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001						(2)	2		38
2002	(1)					(1)			36
2003	(1)	(1)				(2)		4	36
2004	(1)				(1)	(1)	2	5	40
2005	(3)							2	39
2006	(3)			(1)		(2)	4	1	38
2007	(2)			(2)		(1)	1	4	38

Table 19H
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001						2		8
2002								8
2003	(1)							7
2004								7
2005								7
2006	(1)						1	7
2007	(1)						2	8

Ingham County (3303)

Division 13 - Gnrl OPEIU Prob

Table 20H
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001		\$	\$		\$	\$	5	\$ 72,984
2002	1	16,507					6	89,491
2003	3	59,897					9	149,388
2004	1	46,202		(1)	(8,223)		9	187,367
2005	3	104,366					12	291,733
2006	4	122,959					16	414,692
2007	4	94,310					20	509,002

@ 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.

Ingham County (3303)

Division 13 - Gnrl OPEIU Prob

Table 21H

Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 150,011	\$ 130,848	\$ 441,623	\$ (72,984)	\$ 0	\$ 0	\$ 62,361	\$ 5,806,864
2002	130,566	135,002	248,803	(88,116)	0	(18,908)	0	6,214,211
2003	153,055	158,368	462,872	(101,452)	0	(241,653)	0	6,645,401
2004	177,999	198,998	461,550	(186,519)	(11,074)	(95,419)	0	7,190,936
2005	178,232	205,224	475,982	(261,811)	0	(424)	424	7,788,563
2006	165,046	202,479	639,215	(365,616)	(35,942)	(21,123)	174,862	8,547,484
2007	175,721	204,360	690,473	(457,288)	0	(174,948)	0	8,985,802

* 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	\$ 7,277,059	\$ 5,806,864	80%	\$ 1,470,195	79%
2002	8,088,136	6,214,211	77	1,873,925	102
2003	8,887,826	6,645,401	75	2,242,425	124
2004	9,593,940	7,190,936	75	2,403,004	114
2005	10,286,351	7,788,563	76	2,497,788	121
2006	11,146,258	8,547,484	77	2,598,774	126
2007	11,532,889	8,985,802	78	2,547,087	129

Ingham County (3303)

Division 14 - Gnrl TOPS UAW

Table 16I

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	7.83%	\$91,994
Amortization of Unfunded Accrued Liability (28 years)	<u>2.14</u>	<u>25,143</u>
Total Long Term Contribution	9.97	117,137
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	9.97%	\$117,137 *

@ 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 28 year amortization) will decrease/increase by 0.86% 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 14 - Gnrl TOPS UAW

Table 17I

Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2004	392	12,686,363	10.12%	10.12%
2005	400	12,902,859	9.97%	9.97%
2006	402	13,643,453	9.78%	9.78%
2007	406	14,098,731	9.97%	9.97%

Notes:

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.

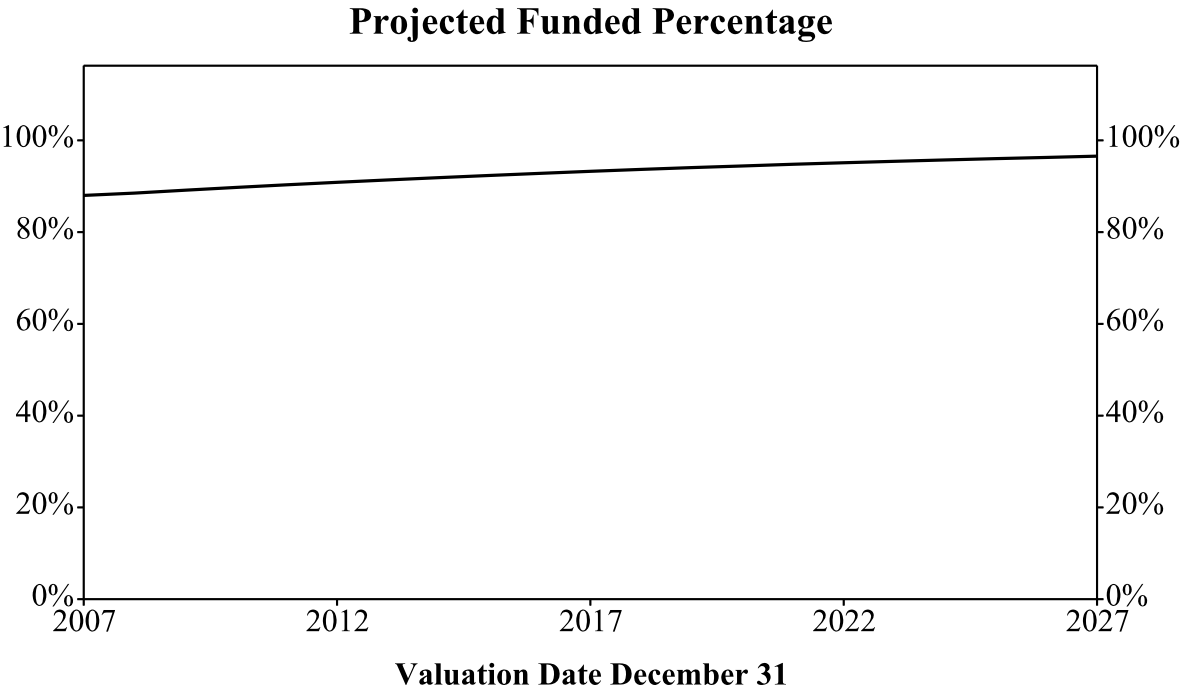
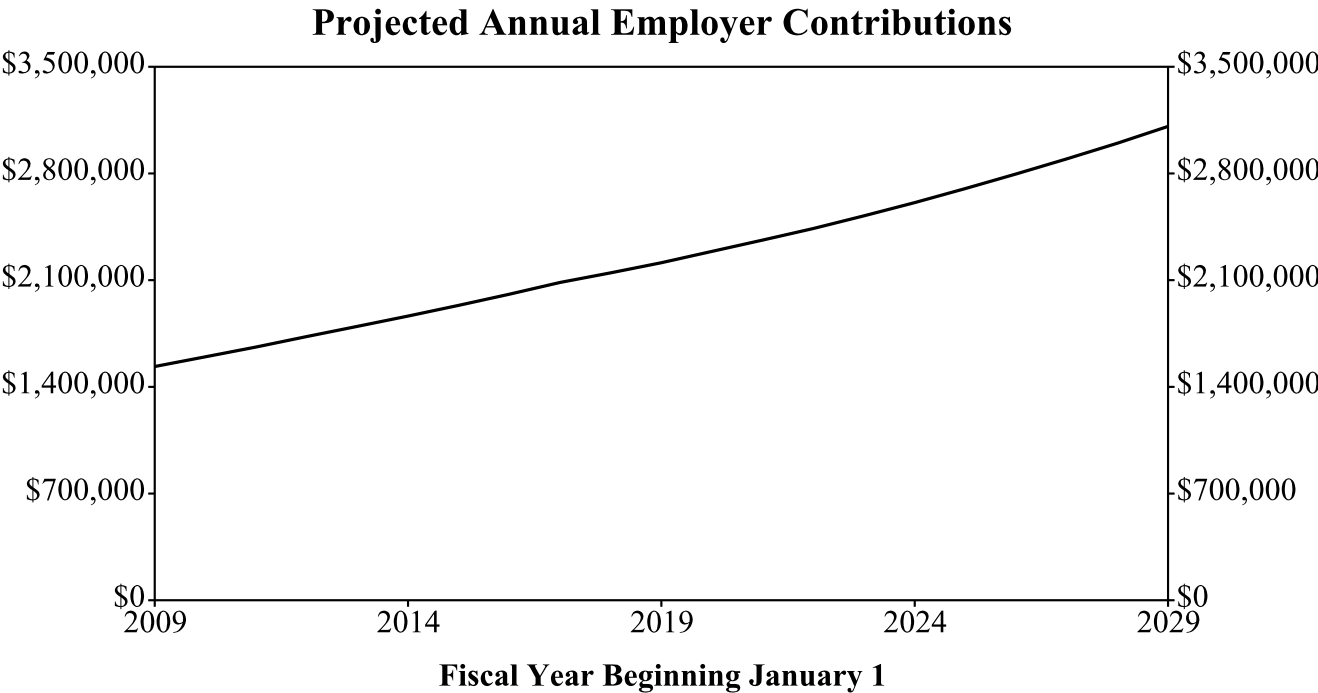
Adoption of 1.60% Member Contributions reflected in 2001 valuation.

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

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 14 - Gnrl TOPS UAW
Chart 17.5I



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 14 - Gnrl TOPS UAW

Table 18I
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001	(9)			(8)	(12)	(10)	2	37	374
2002	(9)			(5)	(19)	(2)	1	46	386
2003	(4)			(6)	(27)	(4)		39	384
2004	(11)	(1)		(3)	(18)	(8)	2	47	392
2005	(4)			(4)	(19)	(3)	1	37	400
2006	(2)				(19)	(7)	1	29	402
2007	(7)			(1)	(13)	(3)		28	406

Table 19I
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001	(2)			(3)	(1)	9	10	61
2002	(3)			(7)			5	56
2003	(4)	(1)	(1)	(3)		1	7	55
2004	(4)	(2)		(2)			3	50
2005							6	56
2006	(1)			(3)			3	55
2007	(5)	(1)		(3)			1	47

Ingham County (3303)

Division 14 - Gnrl TOPS UAW

Table 20I

Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	13	\$ 171,348	\$	(2)	\$ (4,851)	\$ (1,343)	149	\$ 1,205,706
2002	12	150,770		(7)	(43,557)	(16,693)	154	1,296,226
2003	13	123,281		(6)	(22,474)	(14,698)	161	1,382,335
2004	16	268,630		(5)	(29,771)		172	1,621,194
2005	6	88,853		(8)	(59,421)		170	1,650,626
2006	4	49,956	1,649	(9)	(69,024)		165	1,633,207
2007	12	205,987	3,167	(2)	(12,152)		175	1,830,209

@ 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.

Ingham County (3303)

Division 14 - Gnrl TOPS UAW

Table 21I
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 1,040,229	\$ 177,309	\$ 2,049,991	\$ (1,134,770)	\$ (34,699)	\$ (177,623)	\$ 0	\$ 28,414,971
2002	1,050,966	184,585	1,006,871	(1,315,853)	(32,307)	(1,434)	16,569	29,324,368
2003	1,169,392	190,903	2,315,988	(1,355,912)	(56,107)	(60,236)	0	31,528,396
2004	1,306,601	468,155	2,157,148	(1,499,366)	(87,008)	(156,242)	0	33,717,684
2005	1,343,013	470,661	2,180,964	(1,631,497)	(71,761)	(147,657)	0	35,861,407
2006	1,370,701	491,377	2,904,480	(1,637,401)	(55,826)	(277,434)	0	38,657,304
2007	1,413,614	517,212	3,140,596	(1,725,864)	(33,967)	(111,127)	21,446	41,879,214

* 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	\$ 28,414,971	89%	\$ 3,511,912	33%
2002	33,645,046	29,324,368	87	4,320,678	38
2003	37,676,120	31,528,396	84	6,147,724	53
2004	40,089,522	33,717,684	84	6,371,838	50
2005	41,771,210	35,861,407	86	5,909,803	46
2006	44,049,781	38,657,304	88	5,392,477	40
2007	47,620,829	41,879,214	88	5,741,615	41

Ingham County (3303)

Division 15 - Animal Cntrl FOP

Table 16J

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	1.18%	\$429
Amortization of Unfunded Accrued Liability (28 years)	<u>13.07</u>	<u>4,754</u>
Total Long Term Contribution	14.25	5,183
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	14.25%	\$5,183 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 15 - Animal Cntrl FOP

Table 17J

Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum 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%
2004	9	358,840	16.28%	16.28%
2005	9	359,844	16.28%	16.28%
2006	9	392,312	16.29%	16.29%
2007	10	436,485	14.25%	14.25%

Notes:

Actuarial assumptions were revised for the 1993 valuation.

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.

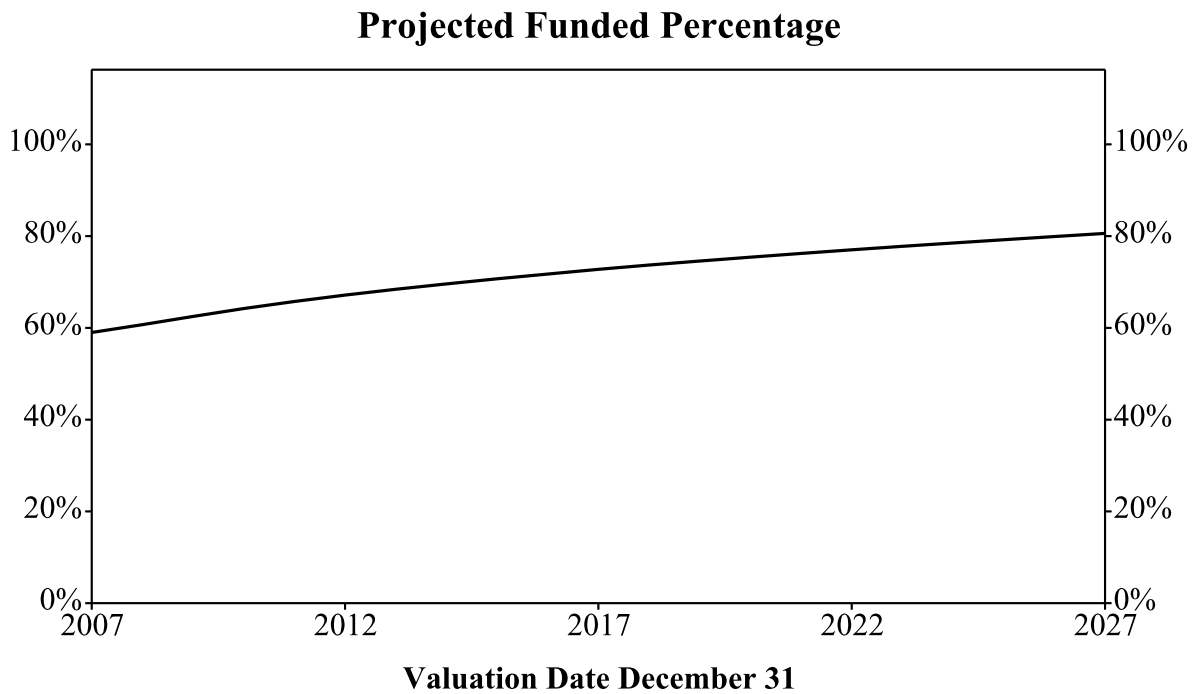
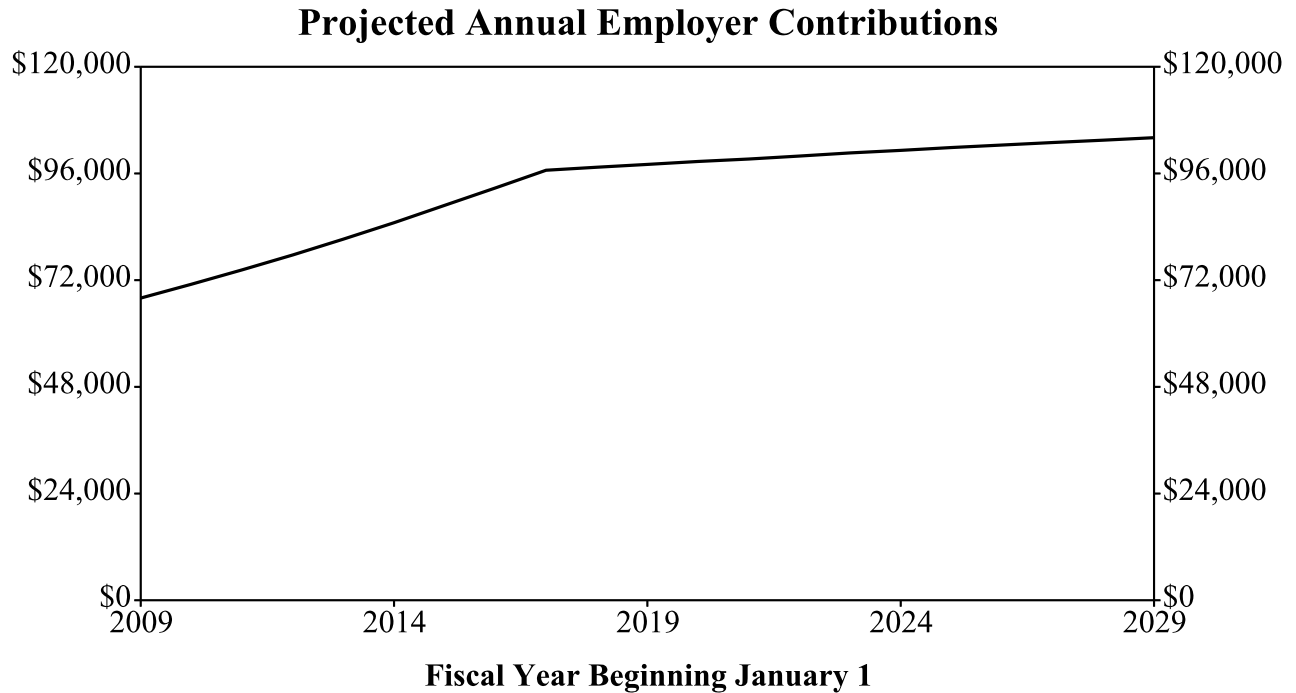
Adoption of 14.28% Member Contributions reflected in 2001 valuation.

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

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 15 - Animal Cntrl FOP
Chart 17.5J



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 15 - Animal Cntrl FOP

Table 18J
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001	(2)				(2)			1	9
2002								2	9
2003					(1)			1	9
2004						(1)		1	9
2005					(1)			1	9
2006					(1)			1	9
2007								1	10

Table 19J
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001								1
2002								1
2003								1
2004								1
2005								1
2006								1
2007								1

Ingham County (3303)
Division 15 - Animal Cntrl FOP

Table 20J
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001		\$	\$		\$	\$	2	\$ 15,550
2002	2	49,156					4	64,706
2003			1,213				4	65,919
2004	1	10,670	634			(10,352)	5	66,871
2005			1,213				5	68,084
2006			1,215				5	69,299
2007			1,212				5	70,511

@ 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.

Ingham County (3303)

Division 15 - Animal Cntrl FOP

Table 21J

Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 37,177	\$ 50,267	\$ 60,753	\$ (15,549)	\$ 0	\$ 0	\$ 0	\$ 802,507
2002	52,782	49,726	42,675	(44,417)	0	(965)	965	903,273
2003	41,528	50,492	76,260	(64,706)	(4,578)	0	0	1,002,269
2004	57,637	55,591	70,890	(65,919)	0	(10,205)	0	1,110,263
2005	58,849	57,503	74,440	(66,871)	0	0	0	1,234,184
2006	63,805	60,709	101,090	(68,084)	(3,818)	0	0	1,387,886
2007	70,157	66,632	111,156	(69,297)	(13,838)	0	0	1,552,696

* 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	Unfunded Accrued Liability	UAL as Percent of Annual Payroll
2001	\$ 1,536,591	\$ 802,507	52%	\$ 734,084	225%
2002	1,822,913	903,273	50	919,640	296
2003	1,963,559	1,002,269	51	961,290	291
2004	2,204,098	1,110,263	50	1,093,835	305
2005	2,317,696	1,234,184	53	1,083,512	301
2006	2,547,019	1,387,886	54	1,159,133	295
2007	2,651,398	1,552,696	59	1,098,702	252

Ingham County (3303)

Division 16 - Gnrl Commsnrs

Table 16K

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	5.92%	\$995
Amortization of Unfunded Accrued Liability (28 years)	<u>0.97</u>	<u>163</u>
Total Long Term Contribution	6.89	1,158
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	6.89%	\$1,158 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 16 - Gnrl Commsnrs

Table 17K

Computed Employer Contributions - Comparative Statement

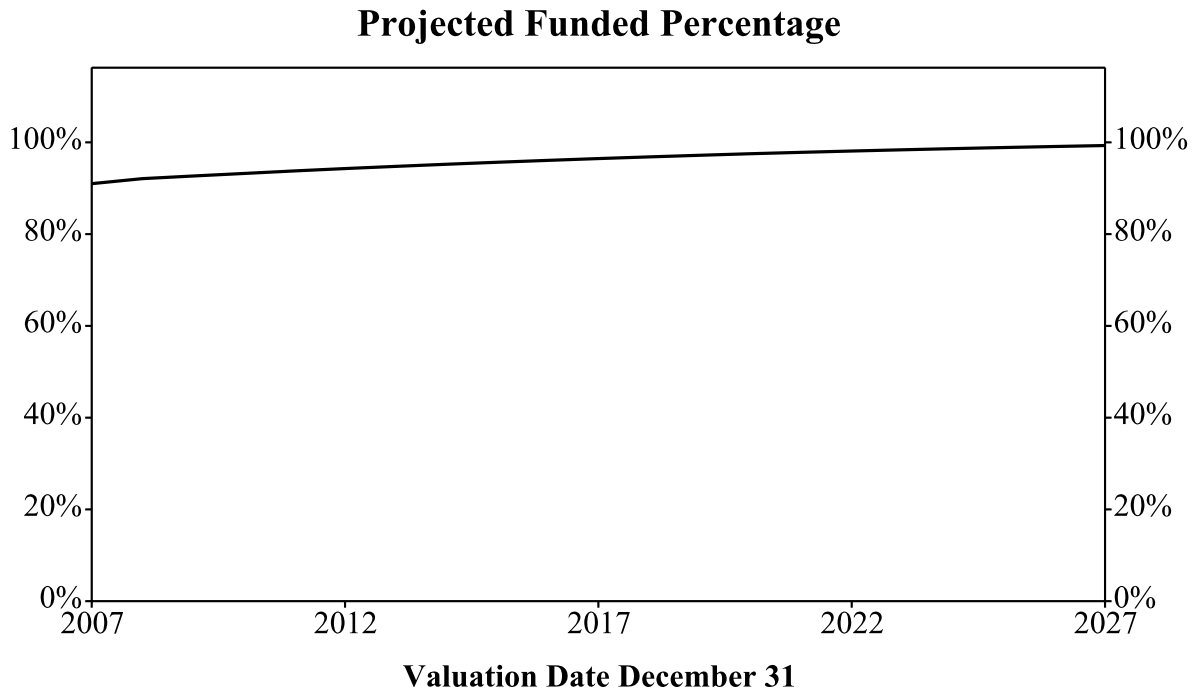
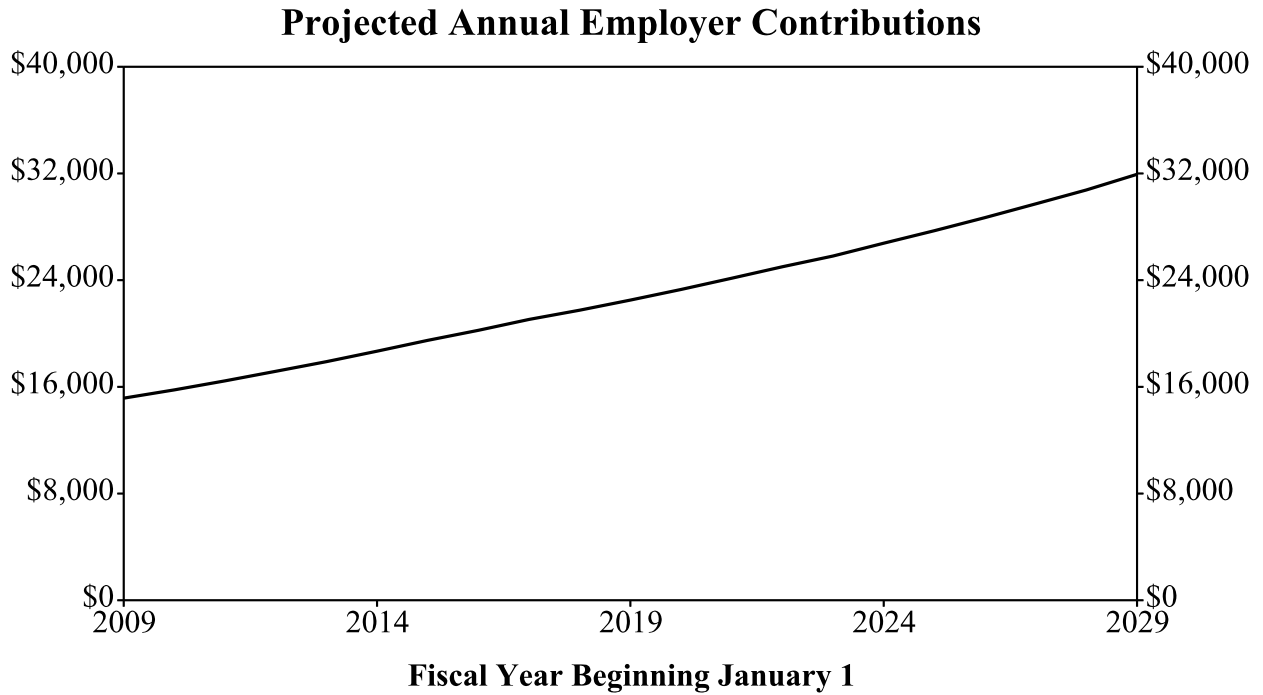
Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1993	10	\$ 100,880	4.04%	1.71%
1994	7	70,954	6.75%	3.53%
1995	8	95,310	6.91%	4.99%
1996	7	84,500	5.19%	4.79%
1997	9	103,415	4.56%	4.56%
1998	8	101,460	5.38%	5.38%
1999	8	103,005	2.33%	2.32%
2000	5	63,395	3.23%	3.23%
2001	10	133,143	6.02%	4.51%
2002	10	137,720	6.58%	5.82%
2003	11	161,215	7.55%	7.55%
2004	9	129,144	8.10%	8.10%
2005	13	189,594	8.03%	8.03%
2006	11	162,724	7.36%	7.36%
2007	13	201,689	6.89%	6.89%

Notes:

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.
 Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 16 - Gnrl Commsnrs
Chart 17.5K



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 16 - Gnrl Commsnrs

Table 18K
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001								5	10
2002									10
2003								1	11
2004				(2)					9
2005								4	13
2006				(1)	(2)			1	11
2007								2	13

Table 19K
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001								5
2002	(1)							4
2003								4
2004							2	6
2005								6
2006	(1)						2	7
2007	(1)							6

Ingham County (3303)

Division 16 - Gnrl Commsnrs

Table 20K
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001		\$	\$		\$	\$	5	\$ 17,888
2002	1	2,210					6	20,098
2003	1	2,918					7	23,016
2004						(947)	7	22,069
2005				(1)	(2,210)		6	19,859
2006	1	2,836					7	22,695
2007	1	1,977		(1)	(4,111)	(757)	7	19,804

@ 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.

Ingham County (3303)

Division 16 - Gnrl Commsnrs

Table 21K

Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 3,089	\$ 4,739	\$ 19,980	\$ (17,888)	\$ 0	\$ (734)	\$ 734	\$ 292,469
2002	4,448	4,903	7,616	(21,018)	0	0	0	288,418
2003	6,414	5,062	21,373	(20,097)	0	0	15,006	316,176
2004	8,329	5,151	19,844	(22,774)	0	0	0	326,726
2005	14,314	6,749	20,330	(21,134)	0	(62)	62	346,985
2006	15,471	6,800	27,370	(20,804)	0	0	0	375,822
2007	15,977	7,034	29,613	(20,244)	(2,408)	(728)	728	405,794

* 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	\$ 292,469	95%	\$ 16,129	12%
2002	320,249	288,418	90	31,831	23
2003	378,608	316,176	84	62,432	39
2004	392,494	326,726	83	65,768	51
2005	429,244	346,985	81	82,259	43
2006	423,565	375,822	89	47,743	29
2007	443,956	405,794	91	38,162	19

Ingham County (3303)
Division 17 - ICEA Nurses

Table 16L

Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	4.12%	\$13,221
Amortization of Unfunded Accrued Liability (28 years)	<u>4.09</u>	<u>13,125</u>
Total Long Term Contribution	8.21	26,346
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	8.21%	\$26,346 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)
Division 17 - ICEA Nurses

Table 17L

Computed Employer Contributions - Comparative Statement

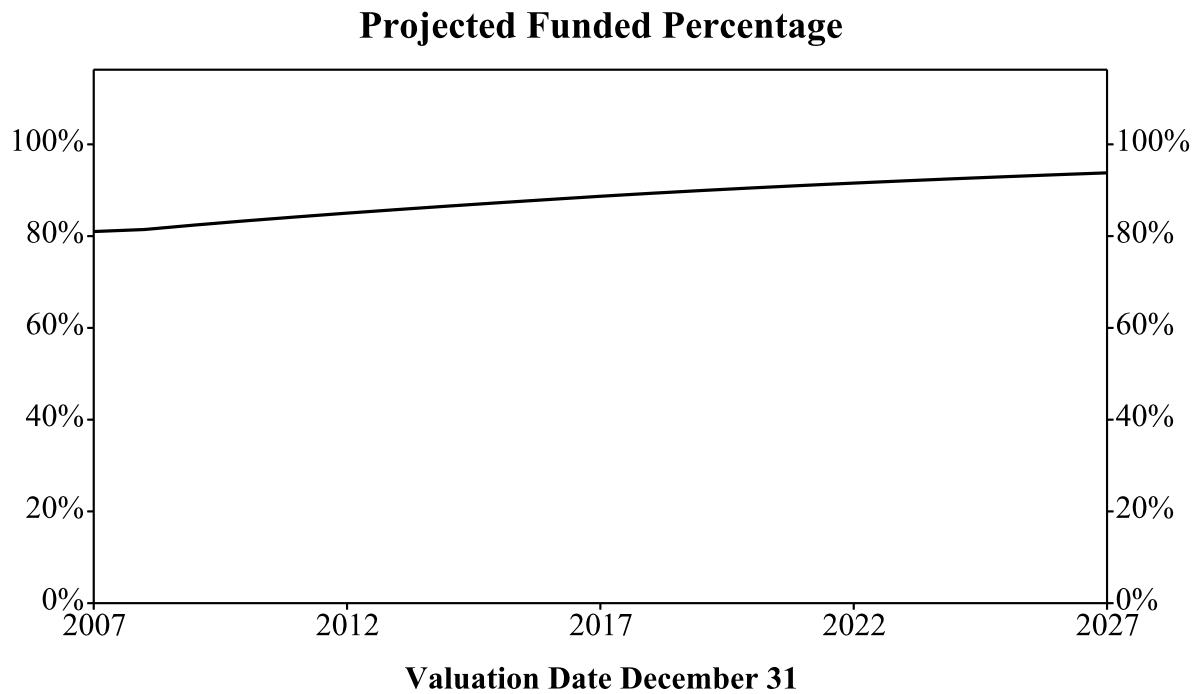
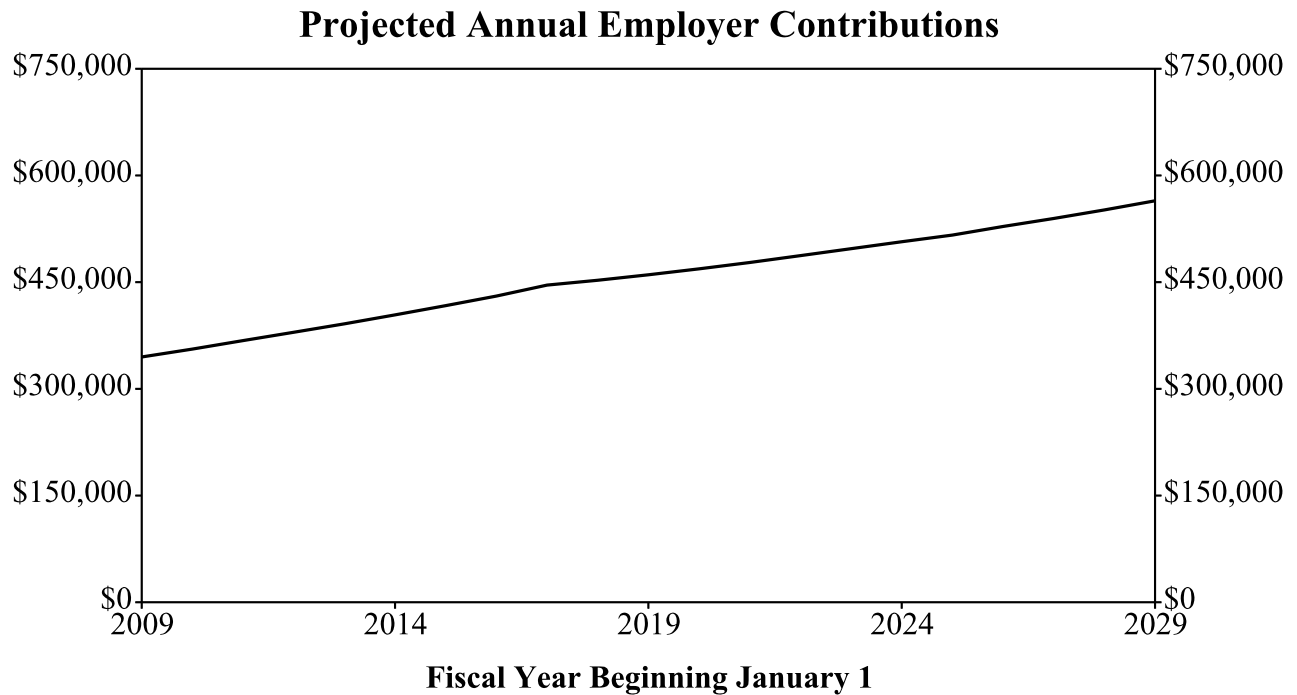
Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1993	60	\$ 1,702,354	8.74%	3.69%
1994	59	1,853,322	9.79%	5.11%
1995	61	2,003,757	9.86%	7.12%
1996	64	2,067,117	9.54%	8.80%
1997	60	2,062,206	8.13%	8.13%
1998	63	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%
2004	71	3,533,072	7.38%	7.38%
2005	67	3,394,246	8.15%	8.15%
2006	72	3,727,464	8.16%	8.16%
2007	74	3,850,897	8.21%	8.21%

Notes:

Actuarial assumptions were revised for the 1993 valuation.
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.
Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 17 - ICEA Nurses
Chart 17.5L



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 17 - ICEA Nurses

Table 18L
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001	(3)				(1)			5	68
2002				(1)	(4)	(2)		6	67
2003	(2)			(2)	(1)			7	69
2004	(4)			(1)				7	71
2005	(3)			(1)	(6)			6	67
2006	(4)			(1)	(2)	(1)	1	12	72
2007	(3)			(1)	(3)			9	74

Table 19L
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001				(2)		2	1	13
2002	(2)	(1)					2	12
2003	(2)			(1)			2	11
2004	(2)						1	10
2005	(2)						2	10
2006	(2)						1	9
2007	(1)			(1)			1	8

Ingham County (3303)
Division 17 - ICEA Nurses

Table 20L
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	3	\$ 28,496	\$ 2,723		\$	\$ (4,586)	26	\$ 227,252
2002	2	23,186	3,458			(3,185)	28	250,711
2003	4	31,059	4,431				32	286,201
2004	6	86,485	5,194	(1)	(3,305)		37	374,575
2005	5	104,457	8,101			(3,255)	42	483,878
2006	6	114,897	9,767	(1)	(4,747)		47	603,795
2007	4	76,401	12,682	(1)	(4,092)		50	688,786

@ 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.

Ingham County (3303)
Division 17 - ICEA Nurses

Table 21L
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 196,369	\$ 321,184	\$ 515,290	\$ (222,531)	\$ (19,418)	\$ (2,030)	\$ 8,531	\$ 6,930,971
2002	214,553	375,409	321,239	(235,471)	(24,793)	(44,638)	0	7,537,270
2003	259,070	367,377	700,881	(268,685)	(2,306)	0	942	8,594,549
2004	332,173	420,228	632,125	(324,125)	(482)	(1,314)	1,314	9,654,468
2005	303,998	424,571	649,527	(425,103)	0	(1,959)	1,959	10,607,461
2006	271,060	437,855	852,302	(548,074)	(24,534)	(172,260)	0	11,423,810
2007	307,685	450,308	926,339	(645,784)	(9,449)	(1,143)	0	12,451,766

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

Table 22L
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	\$ 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
2004	12,052,220	9,654,468	80	2,397,752	68
2005	13,329,138	10,607,461	80	2,721,677	80
2006	14,386,752	11,423,810	79	2,962,942	79
2007	15,457,633	12,451,766	81	3,005,867	78

Ingham County (3303)

Division 18 - ICEA Ct. Prof

Table 16M

**Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009**

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	3.30%	\$5,556
Amortization of Unfunded Accrued Liability (28 years)	<u>8.43</u>	<u>14,193</u>
Total Long Term Contribution	11.73	19,749
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	11.73%	\$19,749 *

@ 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 28 year amortization) will decrease/increase by 0.86% 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)**Division 18 - ICEA Ct. Prof****Table 17M****Computed Employer Contributions - Comparative Statement**

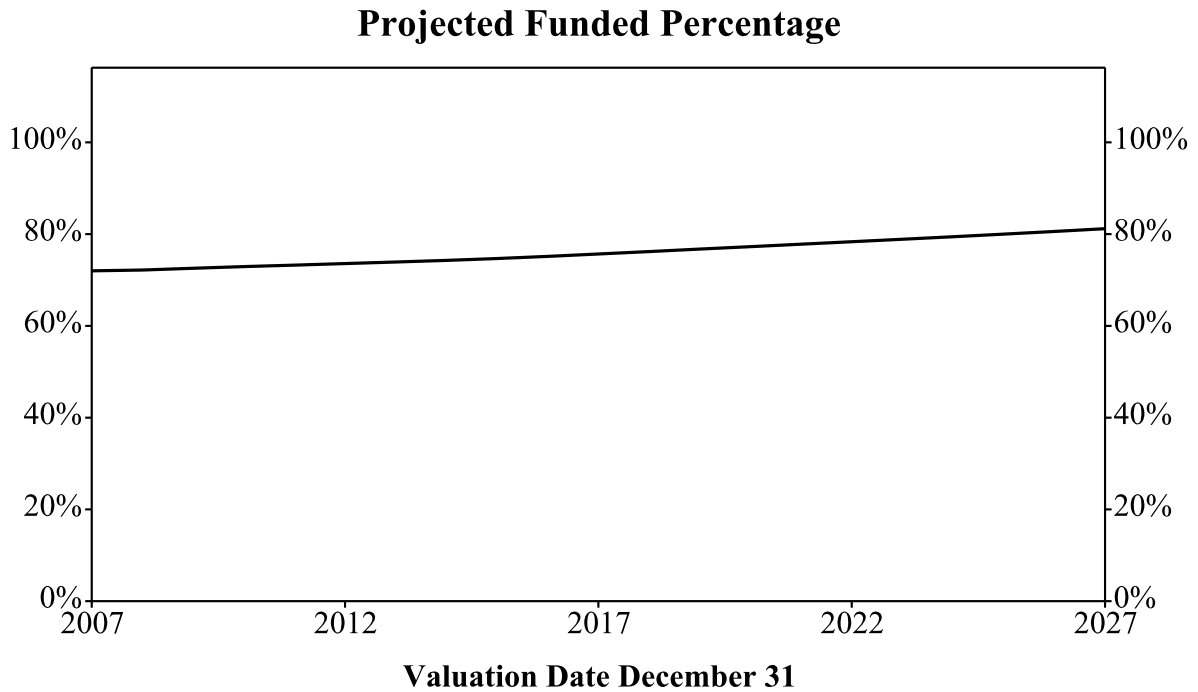
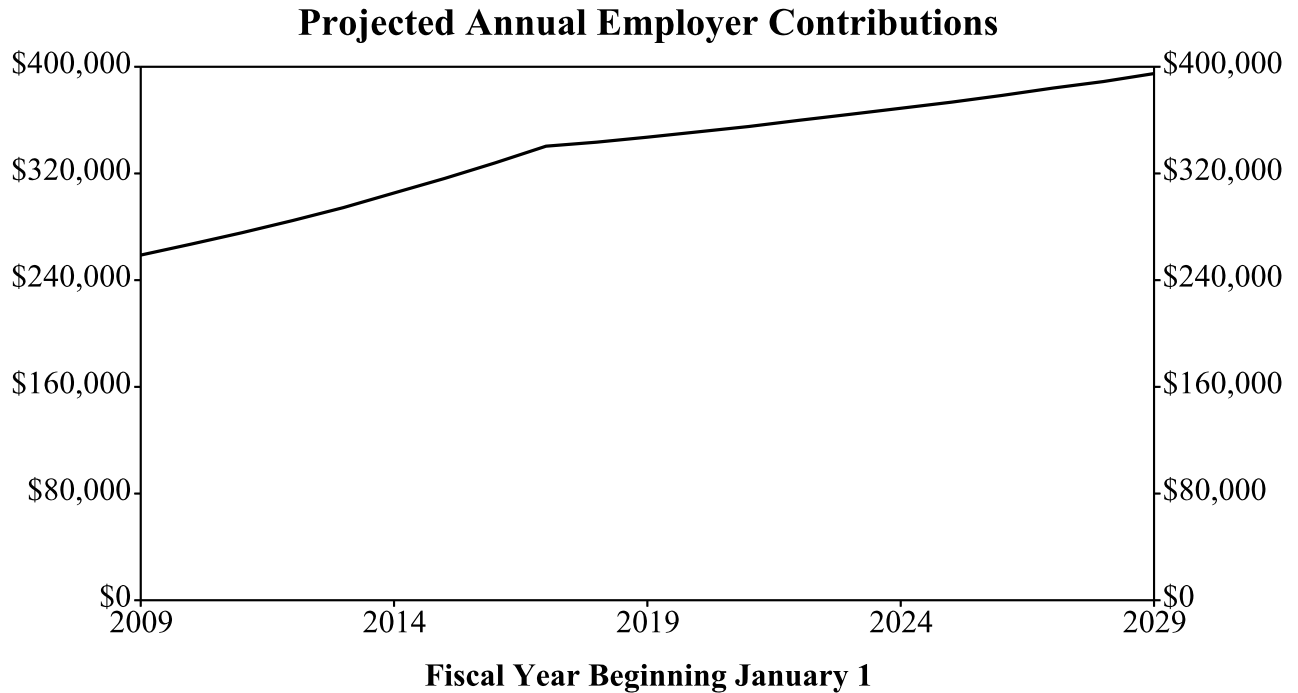
Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1993	36	\$ 1,245,240	7.84%	3.31%
1994	42	1,375,365	8.54%	4.46%
1995	38	1,375,764	9.41%	6.80%
1996	37	1,442,687	10.09%	9.30%
1997	32	1,244,090	9.57%	9.57%
1998	33	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%
2004	39	2,175,204	10.27%	10.27%
2005	36	2,027,572	10.71%	10.71%
2006	35	2,062,761	10.91%	10.91%
2007	33	2,020,357	11.73%	11.73%

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.
Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 18 - ICEA Ct. Prof
Chart 17.5M



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 18 - ICEA Ct. Prof

Table 18M
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001	(4)					(1)	3	1	34
2002	(1)			(1)			1	4	37
2003	(1)			(1)			1	1	37
2004	(1)				(1)		3	1	39
2005	(1)				(2)	(1)		1	36
2006	(2)							1	35
2007	(2)		(1)					1	33

Table 19M
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001						2		6
2002							1	7
2003						1	1	9
2004	(1)							8
2005								8
2006	(1)							7
2007	(1)							6

Ingham County (3303)
Division 18 - ICEA Ct. Prof

Table 20M
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	4	\$ 112,268	\$ 287		\$	\$	22	\$ 456,377
2002	1	20,146					23	476,523
2003	8	63,559				(2,085)	31	537,997
2004	2	32,940					33	570,937
2005	1	26,350	1,800	(1)	(9,513)		33	589,574
2006	3	25,556	1,562	(1)	(2,913)		35	613,779
2007	5	77,484					40	691,263

@ 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.

Ingham County (3303)

Division 18 - ICEA Ct. Prof

Table 21M
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 165,138	\$ 168,083	\$ 436,013	\$ (385,979)	\$ (2,795)	\$ 0	\$ 190,379	\$ 5,942,900
2002	166,027	186,458	186,390	(470,786)	0	0	1,573	6,012,562
2003	220,253	197,222	498,014	(482,800)	0	0	241,086	6,686,337
2004	249,701	215,897	465,248	(547,992)	(16,397)	0	155,436	7,208,230
2005	241,423	209,658	454,035	(586,969)	0	(26,746)	0	7,499,631
2006	214,517	205,961	593,524	(596,862)	(36,774)	0	0	7,879,997
2007	223,872	205,849	635,692	(656,659)	0	0	0	8,288,751

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

Table 22M
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	\$ 8,326,341	\$ 5,942,900	71%	\$ 2,383,441	151%
2002	8,966,621	6,012,562	67	2,954,059	157
2003	9,671,329	6,686,337	69	2,984,992	154
2004	10,317,233	7,208,230	70	3,109,003	143
2005	10,526,138	7,499,631	71	3,026,507	149
2006	10,980,626	7,879,997	72	3,100,629	150
2007	11,525,007	8,288,751	72	3,236,256	160

Ingham County (3303)

Division 19 - Cnstatnl Offcls

Table 16N

**Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009**

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	5.83%	\$2,706
Amortization of Unfunded Accrued Liability (28 years)	<u>0.94</u>	<u>436</u>
Total Long Term Contribution	6.77	3,142
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	6.77%	\$3,142 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 19 - Cnstutnl Offcls

Table 17N

Computed Employer Contributions - Comparative Statement

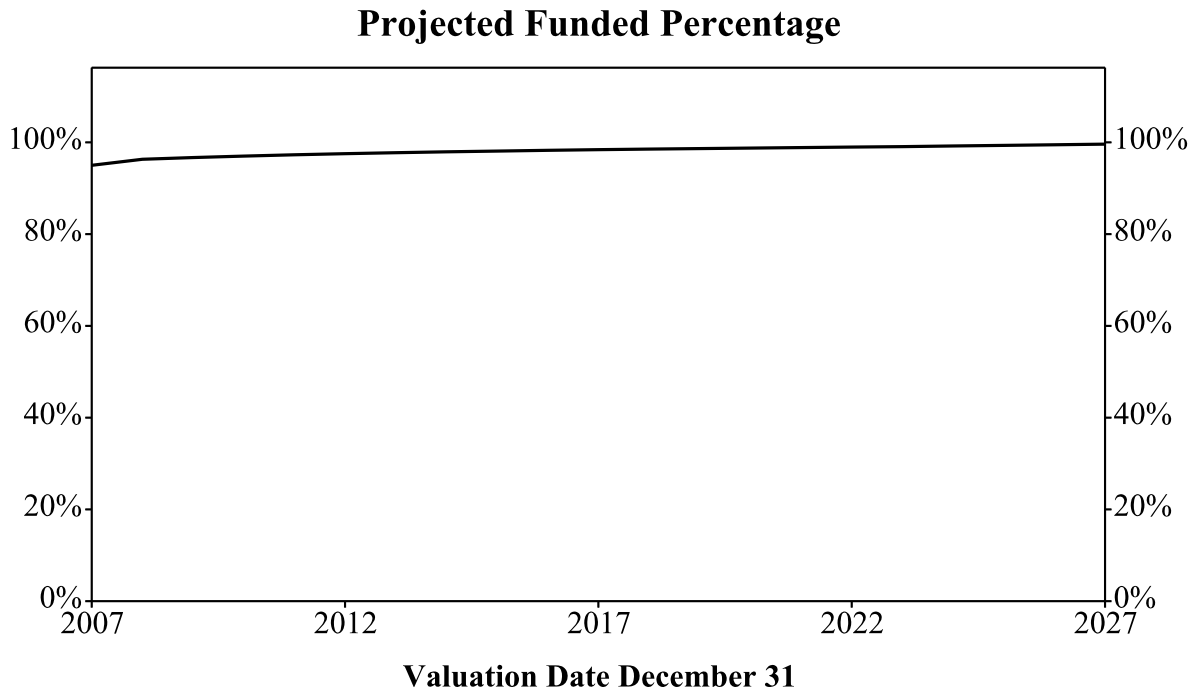
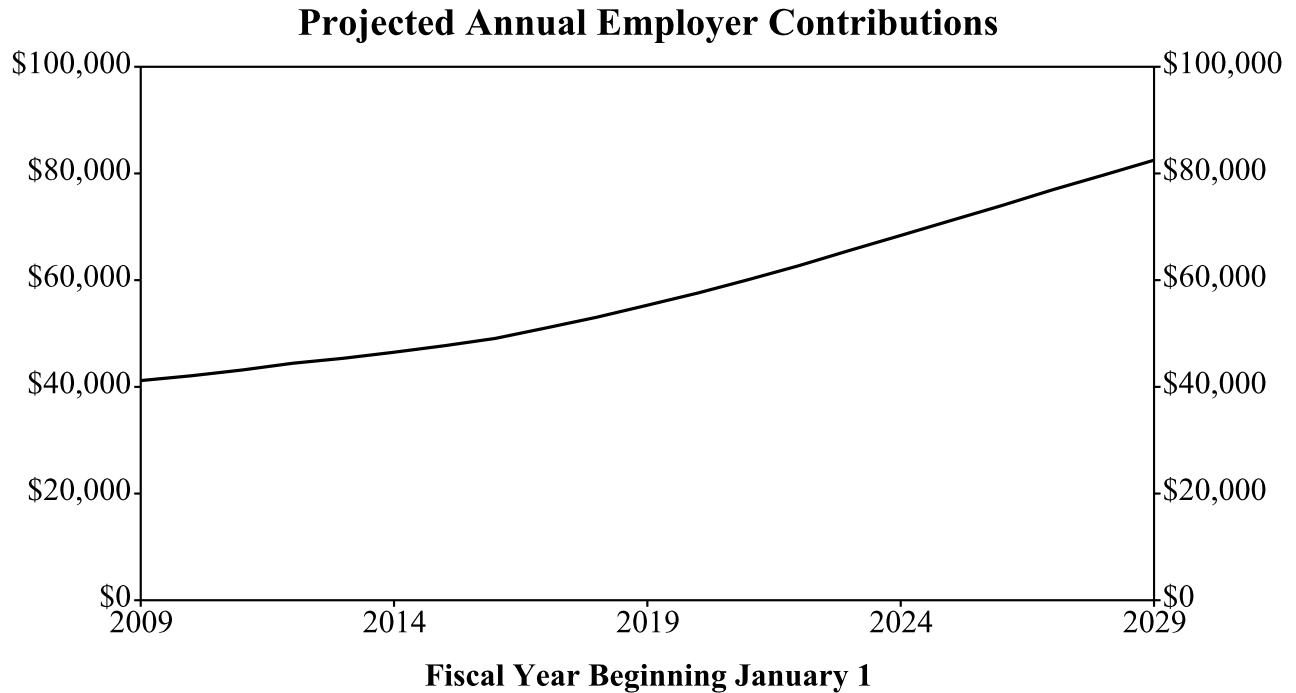
Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1993	5	\$ 254,947	7.58%	3.20%
1994	5	264,660	10.11%	5.28%
1995	5	274,083	7.49%	5.41%
1996	4	206,565	7.36%	6.79%
1997	5	297,992	7.48%	7.48%
1998	5	315,294	8.20%	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%
2004	6	514,577	9.76%	9.76%
2005	6	530,126	9.73%	9.73%
2006	6	543,266	9.35%	9.35%
2007	6	556,968	6.77%	6.77%

Notes:

Actuarial assumptions were revised for the 1993 valuation.
Adoption of Benefits B-3 and F55 (15 years) reflected in 1994 valuation.
Adoption of 7.0% 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.
Adoption of Benefit V-6 reflected in 2000 valuation.
Actuarial assumptions were revised for the 2000 valuation.
Adoption of Benefit FAC-3, B-4 - 80% Maximum, 8.46% Member Contributions reflected in 2002 valuation.
Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 19 - Cnstatnl Offcls
Chart 17.5N



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)
Division 19 - Cnstatnl Offcls

Table 18N
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001									6
2002									6
2003									6
2004									6
2005									6
2006									6
2007									6

Table 19N
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001								0
2002								0
2003								0
2004								0
2005								0
2006								0
2007								0

Ingham County (3303)
Division 19 - Cnstatnl Offcls

Table 20N
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001		\$	\$		\$	\$	7	\$ 96,192
2002							7	96,192
2003	3	20,866		(3)	(22,071)		7	94,987
2004							7	94,987
2005							7	94,987
2006							7	94,987
2007				(1)	(38,667)		6	56,320

@ 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.

Ingham County (3303)
Division 19 - Cnstatnl Offcls

Table 21N
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 27,281	\$ 23,198	\$ 108,386	\$ (96,192)	\$ 0	\$ 0	\$ 0	\$ 1,531,883
2002	31,140	41,034	48,880	(96,192)	0	0	0	1,556,745
2003	41,566	42,265	126,111	(92,008)	0	0	27,258	1,701,937
2004	49,348	43,533	116,716	(94,988)	0	0	13,089	1,829,635
2005	49,355	44,848	118,005	(94,988)	0	0	0	1,946,855
2006	53,023	45,961	157,153	(94,988)	0	0	0	2,108,004
2007	54,193	47,120	170,138	(69,210)	0	0	0	2,310,245

* 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
2004	2,227,203	1,829,635	82	397,568	77
2005	2,357,373	1,946,855	83	410,518	77
2006	2,482,842	2,108,004	85	374,838	69
2007	2,424,498	2,310,245	95	114,253	21

Ingham County (3303)

Division 21 - FOP Shrf Deputies

Table 160

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	5.22%	\$35,735
Amortization of Unfunded Accrued Liability (28 years)	<u>5.14</u>	<u>35,187</u>
Total Long Term Contribution	10.36	70,922
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	10.36%	\$70,922 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 21 - FOP Shrf Deputies

Table 170

Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2004	159	7,496,129	10.33%	10.33%
2005	150	7,540,833	10.75%	10.75%
2006	154	7,614,243	10.15%	10.15%
2007	154	8,214,896	10.36%	10.36%

Notes:

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

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.

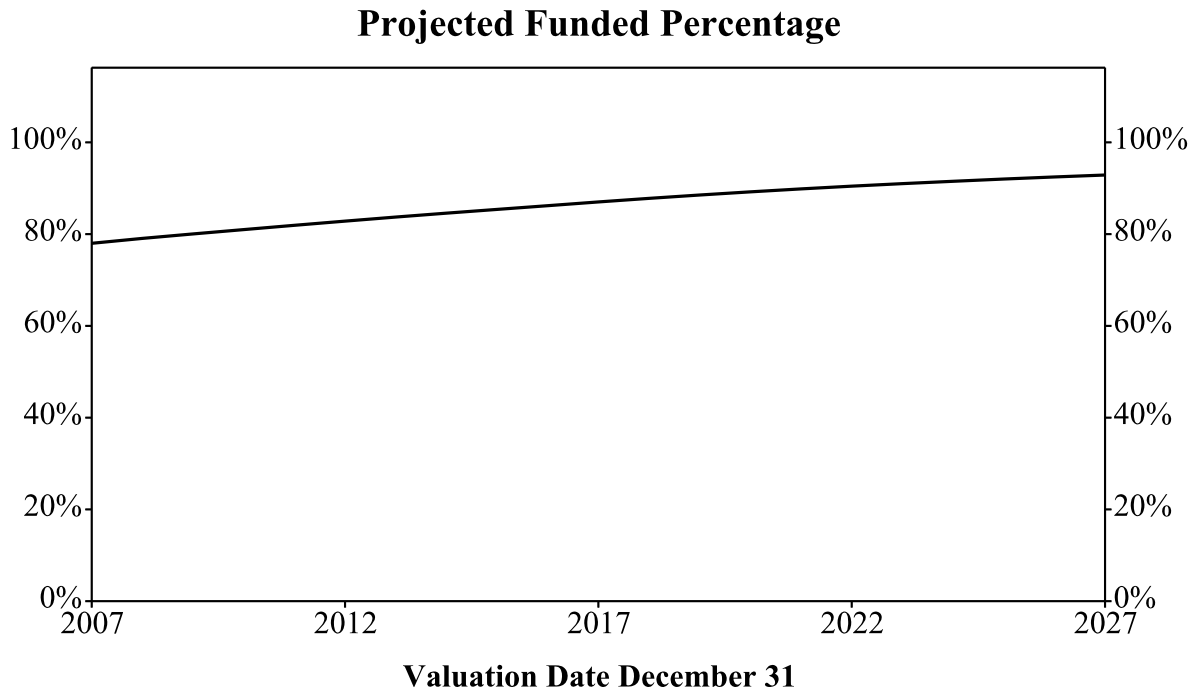
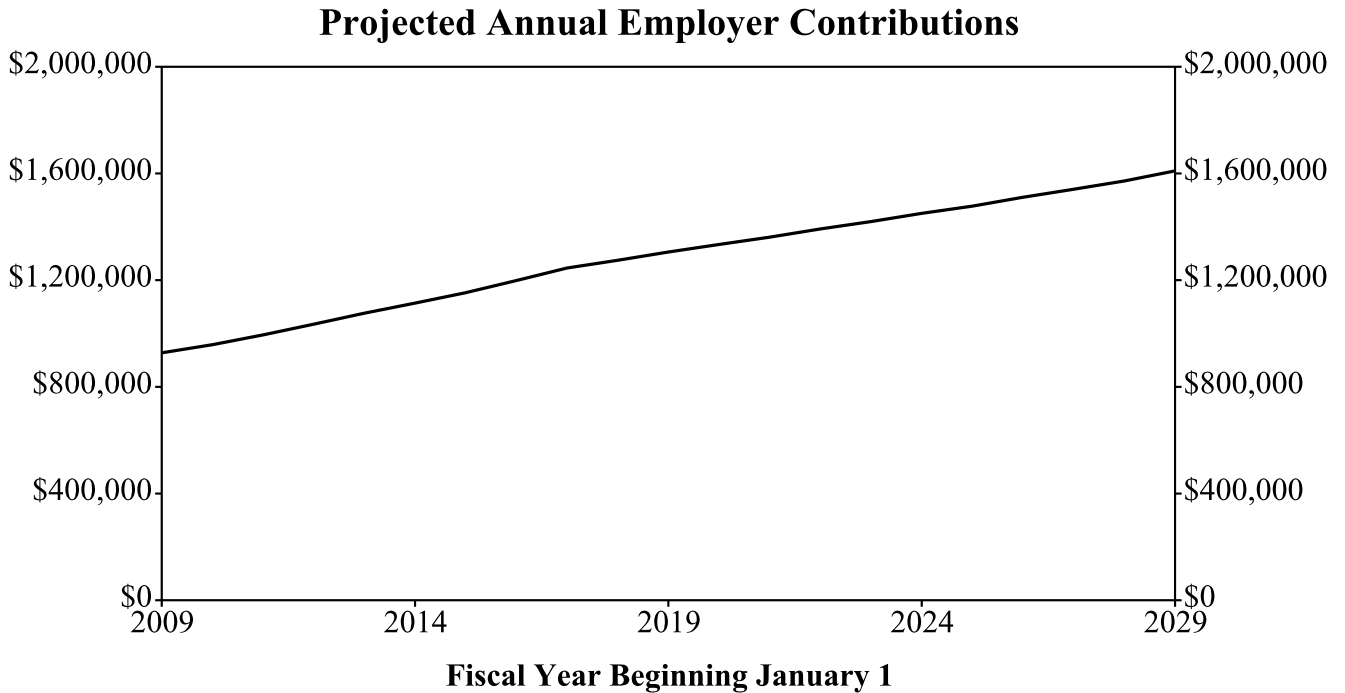
Actuarial assumptions were revised for the 2000 valuation.

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

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 21 - FOP Shrf Deputies
Chart 17.50



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 21 - FOP Shrf Deputies

Table 180
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001	(5)			(2)	(4)	(2)		13	154
2002	(4)	(1)		(2)	(8)	(3)		17	153
2003	(1)				(9)	(3)		10	150
2004		(1)		(2)			1	11	159
2005	(3)			(4)	(9)	(2)		9	150
2006				(3)	(8)	(2)		17	154
2007	(3)			(1)	(4)	(3)		11	154

Table 190
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001	(1)			(2)		7	5	20
2002				(3)	(1)		2	18
2003				(1)				17
2004	(1)			(3)			2	15
2005				(1)			5	19
2006							5	24
2007	(2)			(3)			1	20

Ingham County (3303)

Division 21 - FOP Shrf Deputies

Table 200
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	7	\$ 179,878	\$ 1,077		\$	\$ (1,720)	57	\$ 1,089,816
2002	5	142,874		(2)	(13,679)	(1,917)	60	1,217,094
2003	9	110,616	4,812	(1)	(15,022)	(18,160)	68	1,299,340
2004	2	44,042	2,153	(1)	(1,436)	(3,355)	69	1,340,744
2005	3	89,101	1,720	(2)	(12,557)	(9,724)	70	1,409,284
2006	2	21,477		(2)	(23,803)		70	1,406,958
2007	5	136,875		(1)	(21,967)		74	1,521,866

@ 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.

Ingham County (3303)

Division 21 - FOP Shrf Deputies

Table 21O

Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 519,780	\$ 735,558	\$ 1,406,277	\$ (1,058,811)	\$ (84,300)	\$ (22,913)	\$ 149,858	\$ 19,266,850
2002	489,336	760,140	653,931	(1,213,814)	(85,751)	(138,170)	0	19,732,522
2003	596,429	766,122	1,581,967	(1,269,865)	(131,925)	(100,198)	170,545	21,345,597
2004	699,771	813,324	1,474,961	(1,330,217)	(33,890)	(2,441)	33,950	23,001,055
2005	762,886	866,539	1,498,102	(1,389,128)	(132,827)	(70,025)	0	24,536,602
2006	782,684	832,996	1,969,322	(1,408,566)	(127,783)	(154,506)	0	26,430,749
2007	993,113	1,014,616	2,141,870	(1,424,372)	(39,573)	(310,116)	0	28,806,287

* 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	\$ 24,125,583	\$ 19,266,850	80%	\$ 4,858,733	73%
2002	25,762,655	19,732,522	77	6,030,133	90
2003	27,812,580	21,345,597	77	6,466,983	95
2004	30,508,710	23,001,055	75	7,507,655	100
2005	32,791,299	24,536,602	75	8,254,697	109
2006	33,808,876	26,430,749	78	7,378,127	97
2007	36,847,372	28,806,287	78	8,041,085	98

Ingham County (3303)

Division 40 - ICEA Unit 111

Table 16P

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	5.65%	\$6,870
Amortization of Unfunded Accrued Liability (28 years) #	<u>(0.09)</u>	<u>(109)</u>
Total Long Term Contribution	5.56	6,761
Overfunding Credit #	<u>(0.11)</u>	<u>(134)</u>
Total Contribution	5.45%	\$6,627 *

@ 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 28 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, projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24). 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 28 years.

Ingham County (3303)**Division 40 - ICEA Unit 111****Table 17P****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2004	21	676,951	4.89%	4.89%
2005	26	794,985	5.84%	5.84%
2006	39	1,357,787	5.45%	5.45%
2007	39	1,459,015	5.45%	5.45%

Notes:

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E reflected in 1994 valuation.

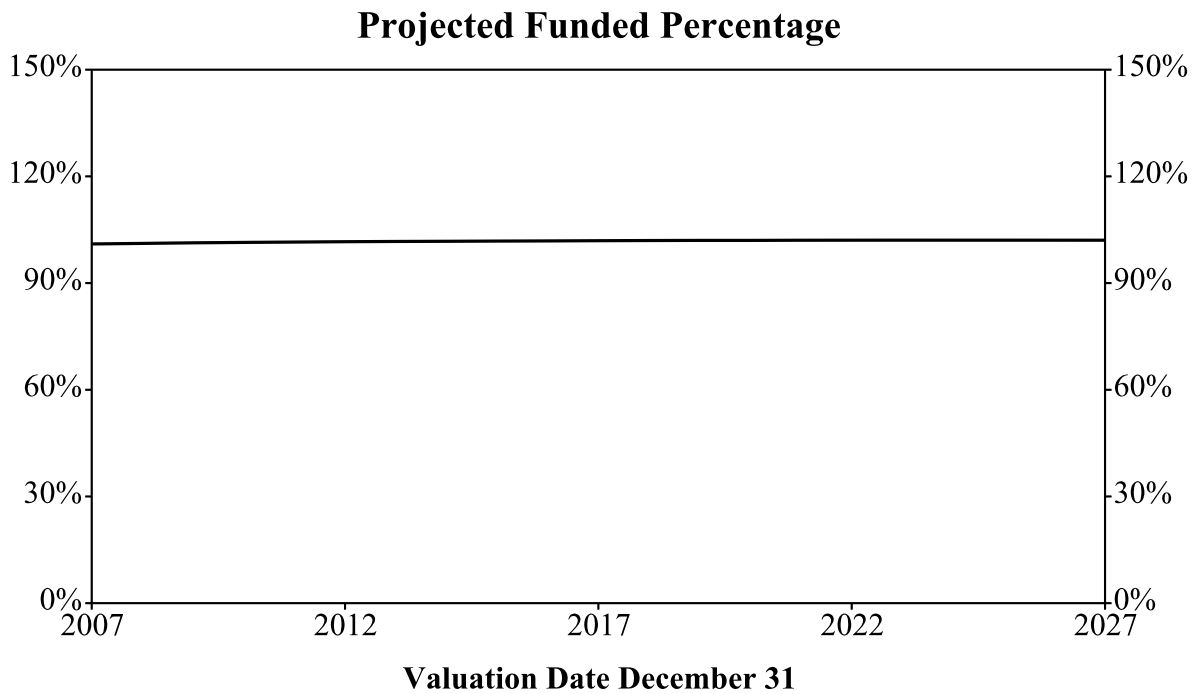
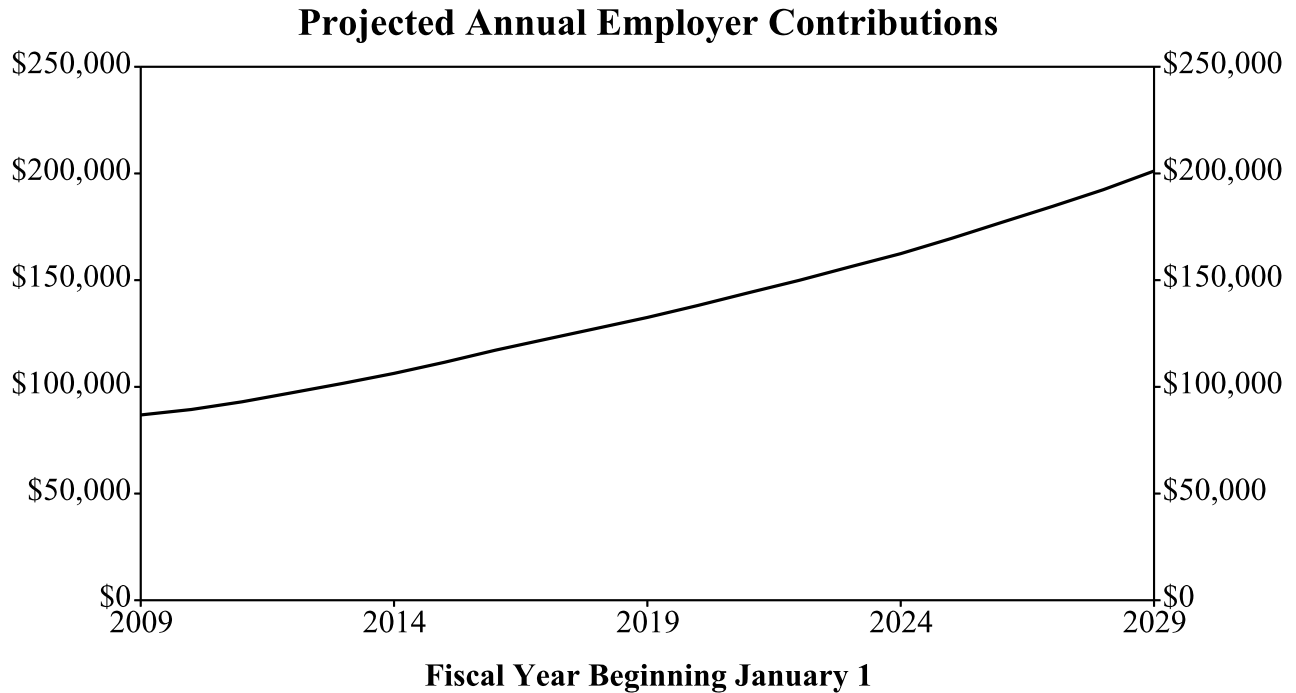
Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 40 - ICEA Unit 111
Chart 17.5P



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 40 - ICEA Unit 111

Table 18P
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001	(3)				(2)			2	22
2002					(5)		2	9	28
2003					(7)			11	32
2004	(1)			(1)	(11)	(4)	1	4	21
2005					(5)	(1)	1	11	26
2006				(1)	(5)		3	16	39
2007					(11)	(5)	4	12	39

Table 19P
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001	(1)			(1)			2	7
2002				(2)				5
2003							1	6
2004	(1)			(1)			1	6
2005								6
2006							1	7
2007	(1)			(1)				5

Ingham County (3303)
Division 40 - ICEA Unit 111

Table 20P
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	4	\$ 32,213	\$		\$	\$ (3,356)	27	\$ 231,422
2002							27	231,422
2003						(4,101)	27	227,321
2004	1	3,251		(1)	(10,404)	(3,924)	27	216,244
2005	1	14,105					28	230,349
2006				(2)	(9,888)	(894)	26	219,567
2007	1	9,916		(1)	(8,274)	(943)	26	220,266

@ 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.

Ingham County (3303)
Division 40 - ICEA Unit 111

Table 21P
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 14,296	\$ 21,972	\$ 210,472	\$ (221,381)	\$ (2,005)	\$ (3,660)	\$ 3,352	\$ 3,029,975
2002	18,721	23,034	63,748	(231,855)	(6,725)	0	15,105	2,912,003
2003	37,442	28,333	187,213	(231,423)	(4,180)	(321)	0	2,929,067
2004	56,422	25,268	181,907	(220,028)	(9,956)	(21,610)	0	2,941,070
2005	60,953	25,324	179,635	(216,470)	(13,060)	(1,662)	534	2,976,324
2006	58,947	36,366	235,463	(223,758)	(2,535)	0	24,099	3,104,906
2007	90,262	46,879	249,838	(213,048)	(18,977)	(200,491)	0	3,059,369

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

Table 22P
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	\$ 2,918,874	\$ 3,029,975	104%	\$ (111,101)	0%
2002	3,007,746	2,912,003	97	95,743	12
2003	3,152,237	2,929,067	93	223,170	23
2004	2,905,808	2,941,070	101	(35,262)	0
2005	3,002,506	2,976,324	99	26,182	3
2006	3,134,080	3,104,906	99	29,174	2
2007	3,032,270	3,059,369	101	(27,099)	0

Ingham County (3303)

Division 41 - MCF Management

Table 16Q

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	9.18%	\$8,440
Amortization of Unfunded Accrued Liability (28 years)	<u>0.54</u>	<u>496</u>
Total Long Term Contribution	9.72	8,936
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	9.72%	\$8,936 *

@ 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 28 year amortization) will decrease/increase by 0.91% 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)**Division 41 - MCF Management****Table 17Q****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2001	18	763,973	8.14%	8.14%
2002	18	782,621	9.23%	9.23%
2003	19	761,154	9.07%	9.07%
2004	20	910,868	9.28%	9.28%
2005	22	1,001,112	9.63%	9.63%
2006	23	1,099,133	9.50%	9.50%
2007	22	1,103,262	9.72%	9.72%

Notes:

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E reflected in 1994 valuation.

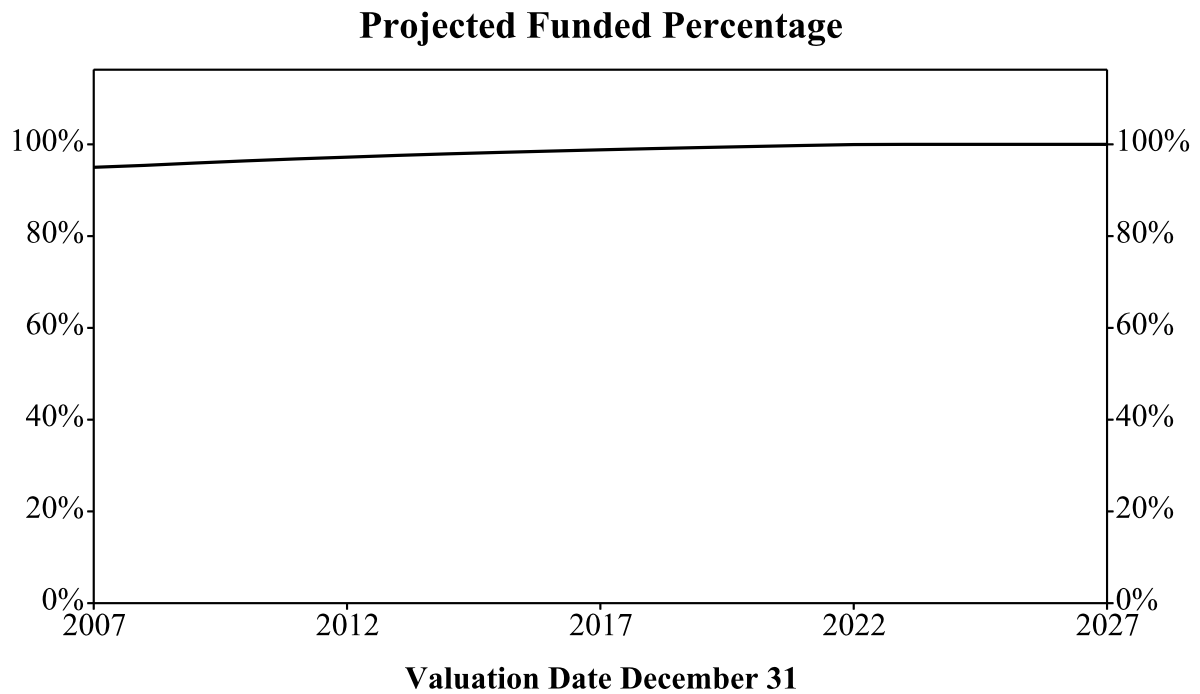
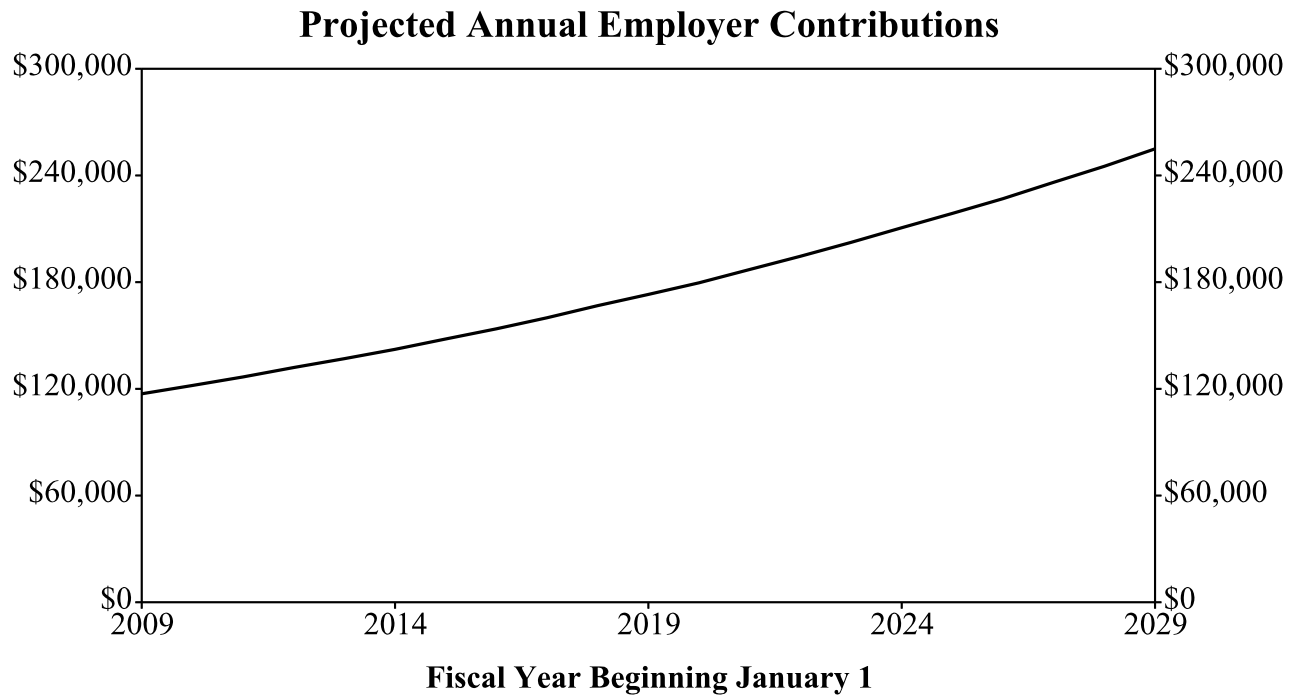
Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 41 - MCF Management
Chart 17.5Q



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 41 - MCF Management

Table 18Q
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001				(3)	(4)			6	18
2002					(3)			3	18
2003					(3)	(1)	2	3	19
2004				(1)	(2)		2	2	20
2005				(1)	(2)		2	3	22
2006					(2)			3	23
2007	(1)			(3)	(1)	(1)	1	4	22

Table 19Q
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001							3	10
2002								10
2003	(1)	(1)						8
2004							2	10
2005	(1)						1	10
2006								10
2007							3	13

Ingham County (3303)

Division 41 - MCF Management

Table 20Q
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001		\$	\$		\$	\$	8	\$ 52,672
2002							8	52,672
2003	1	4,267					9	56,939
2004							9	56,939
2005	1	7,282					10	64,221
2006							10	64,221
2007	1	7,362					11	71,583

@ 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.

Ingham County (3303)

Division 41 - MCF Management

Table 21Q
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 79,895	\$ 0	\$ 89,535	\$ (52,922)	\$ (649)	\$ 0	\$ 1,022	\$ 1,227,752
2002	64,333	88	46,962	(52,672)	(65)	0	238	1,286,636
2003	71,663	149	114,743	(57,295)	0	(14,538)	28,627	1,429,985
2004	77,574	0	101,983	(56,939)	0	0	23,263	1,575,866
2005	90,036	178	105,328	(63,615)	(3,220)	0	28,590	1,733,163
2006	97,557	0	141,324	(64,221)	0	(54)	0	1,907,769
2007	115,615	563	156,636	(68,516)	0	0	595	2,112,662

* 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
2004	1,681,884	1,575,866	94	106,018	12
2005	1,870,787	1,733,163	93	137,624	14
2006	2,047,129	1,907,769	93	139,360	13
2007	2,223,290	2,112,662	95	110,628	10

Ingham County (3303)

Division 42 - ICEA Unit 11

Table 16R

**Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009**

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	6.43%	\$3,739
Amortization of Unfunded Accrued Liability (28 years)	<u>2.66</u>	<u>1,547</u>
Total Long Term Contribution	9.09	5,286
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	9.09%	\$5,286 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)**Division 42 - ICEA Unit 11****Table 17R****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2001	9	381,171	8.67%	8.22%
2002	10	382,838	8.69%	8.46%
2003	9	346,899	8.51%	8.51%
2004	12	486,936	8.82%	8.82%
2005	11	514,686	8.53%	8.53%
2006	6	314,901	11.52%	11.52%
2007	14	697,841	9.09%	9.09%

Notes:

Adoption of Benefit FAC-3 reflected in 1996 valuation.

Adoption of 3.95% member contributions reflected in 1996 valuation.

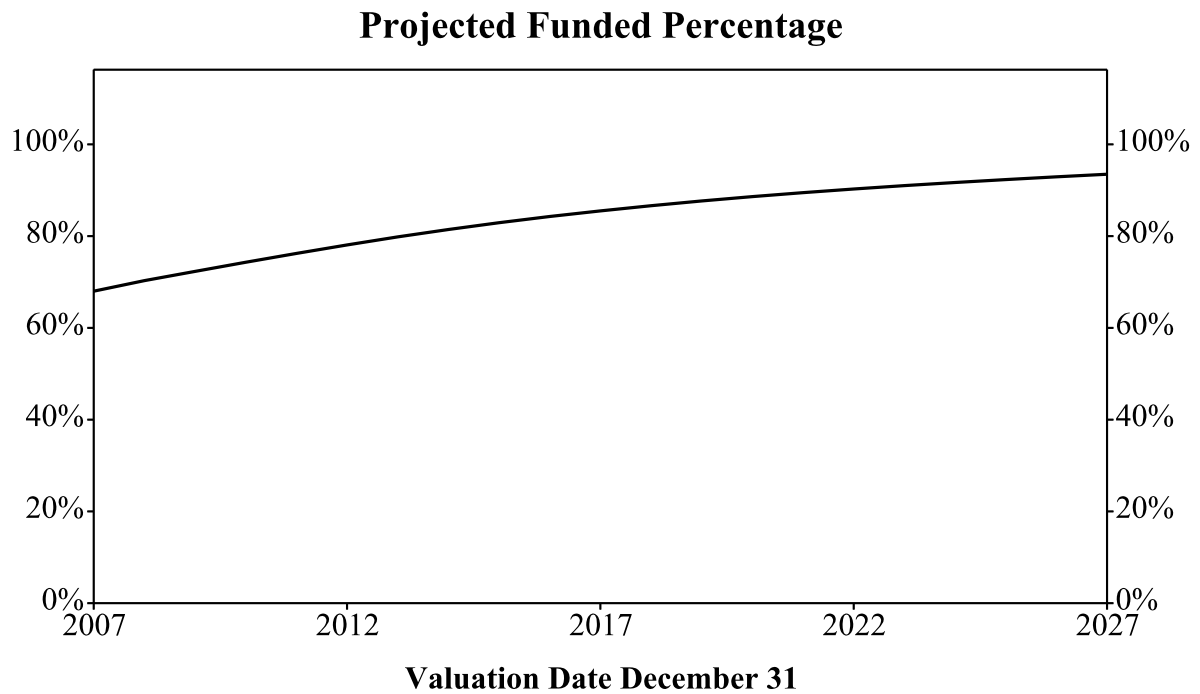
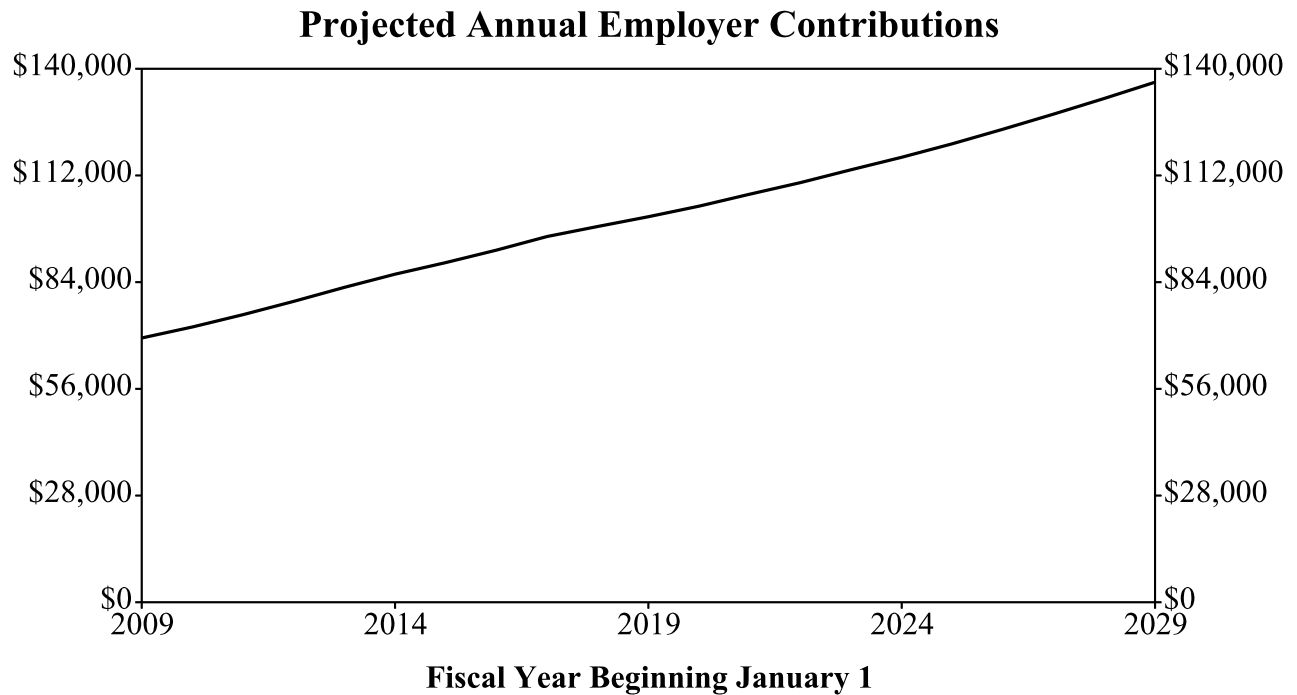
Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 42 - ICEA Unit 11
Chart 17.5R



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 42 - ICEA Unit 11

Table 18R
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001					(2)			2	9
2002								1	10
2003					(1)	(1)		1	9
2004					(2)		1	4	12
2005	(2)				(1)	(1)		3	11
2006	(2)			(1)	(3)			1	6
2007							1	7	14

Table 19R
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001	(1)			(1)			1	4
2002				(2)				2
2003								2
2004		(1)						1
2005								1
2006							1	2
2007								2

Ingham County (3303)
Division 42 - ICEA Unit 11

Table 20R
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	1	\$ 10,146	\$		\$	\$	1	\$ 10,146
2002							1	10,146
2003							1	10,146
2004							1	10,146
2005	2	9,342					3	19,488
2006	2	46,264				(728)	5	65,024
2007			925				5	65,949

@ 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.

Ingham County (3303)
Division 42 - ICEA Unit 11

Table 21R
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 27,140	\$ 14,818	\$ 24,862	\$ (10,146)	\$ (1,866)	\$ (757)	\$ 44	\$ 336,159
2002	26,108	14,918	19,124	(10,146)	(80)	(238)	0	385,845
2003	30,627	13,582	30,571	(10,146)	(684)	(36,780)	0	413,015
2004	39,929	17,175	40,555	(10,146)	(7,887)	0	66,579	559,220
2005	48,848	23,125	37,851	(15,657)	0	(26,066)	0	627,321
2006	47,654	21,692	51,902	(19,488)	(4,747)	0	604	724,938
2007	40,196	18,651	57,615	(66,434)	0	(155)	155	774,966

* 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
2004	778,753	559,220	72	219,533	45
2005	862,237	627,321	73	234,916	46
2006	1,042,417	724,938	70	317,479	101
2007	1,146,704	774,966	68	371,738	53

Ingham County (3303)

Division 43 - ICEA Unit 1

Table 16S

**Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009**

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	5.57%	\$2,255
Amortization of Unfunded Accrued Liability (28 years)	<u>2.16</u>	<u>874</u>
Total Long Term Contribution	7.73	3,129
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	7.73%	\$3,129 *

@ 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 28 year amortization) will decrease/increase by 0.91% 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 43 - ICEA Unit 1

Table 17S

Computed Employer Contributions - Comparative Statement

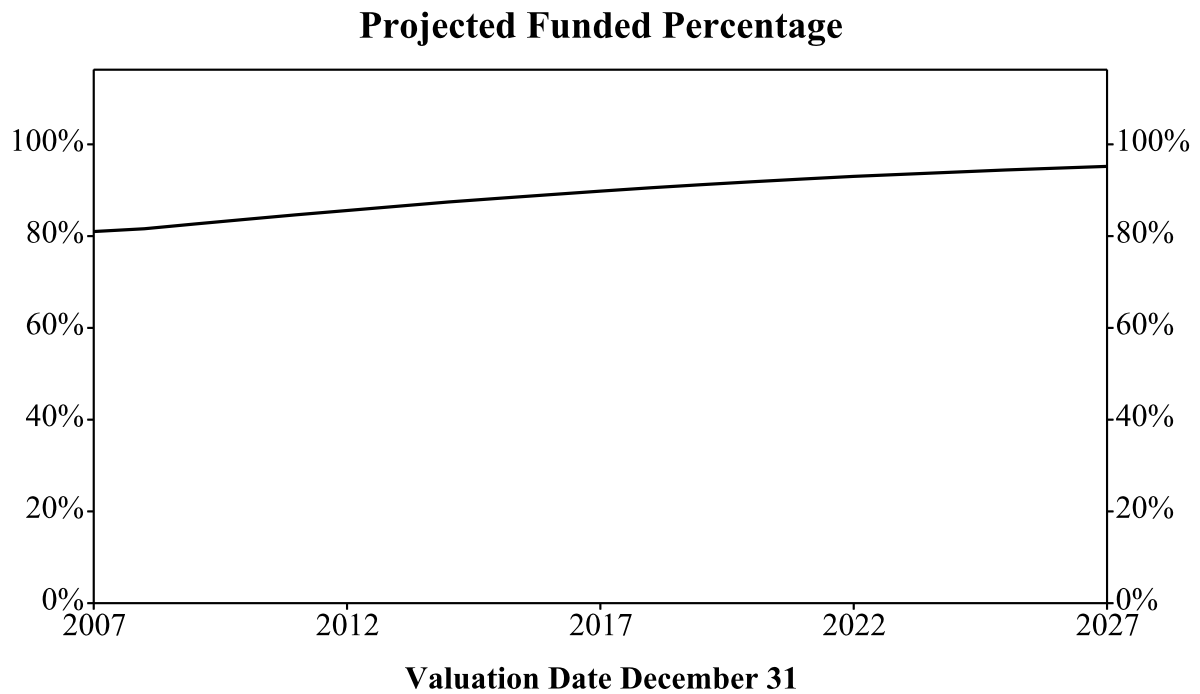
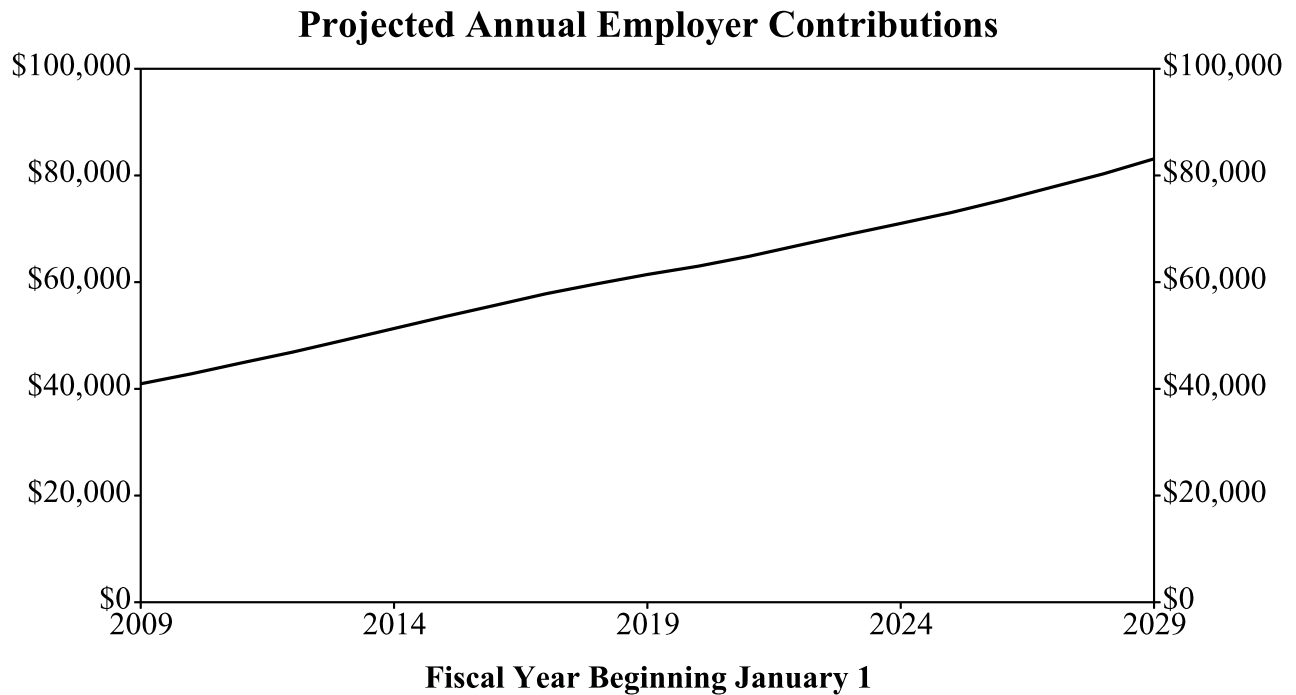
Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1995	8	\$ 313,942	7.53%	5.44%
1996	12	432,683	8.84%	8.15%
1997	9	323,039	10.39%	10.39%
1998	6	253,946	11.99%	11.99%
1999	5	211,746	12.18%	12.18%
2000	7	243,297	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%
2004	9	292,294	11.66%	11.66%
2005	10	346,063	8.05%	8.05%
2006	9	356,184	7.40%	7.40%
2007	12	485,721	7.73%	7.73%

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.
Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 43 - ICEA Unit 1
Chart 17.5S



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)
Division 43 - ICEA Unit 1

Table 18S
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001					(1)			3	9
2002					(2)	(1)			6
2003					(1)	(1)		2	6
2004					(1)	(1)	2	3	9
2005				(1)		(1)	1	2	10
2006					(1)	(1)		1	9
2007					(2)	(1)	4	2	12

Table 19S
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001				(2)				3
2002								3
2003								3
2004								3
2005							1	4
2006								4
2007								4

Ingham County (3303)
Division 43 - ICEA Unit 1

Table 20S
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001		\$	\$		\$	\$	5	\$ 67,200
2002						(2,486)	5	64,714
2003							5	64,714
2004							5	64,714
2005				(1)	(19,900)	(1,855)	4	42,959
2006						(1,942)	4	41,017
2007							4	41,017

@ 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.

Ingham County (3303)
Division 43 - ICEA Unit 1

Table 21S
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 34,066	\$ 9,884	\$ 40,727	\$ (67,200)	\$ (9,791)	\$ (1,476)	\$ 1,476	\$ 587,407
2002	35,461	9,905	14,187	(66,371)	(2,323)	(5,918)	4,356	576,704
2003	24,835	7,488	27,909	(64,714)	0	(33,739)	0	538,483
2004	47,852	11,515	25,234	(64,714)	(1,156)	(67,860)	0	489,354
2005	60,617	13,034	31,499	(59,739)	0	(496)	0	534,269
2006	43,731	13,295	42,292	(43,578)	0	(9,031)	0	580,978
2007	31,522	13,925	44,174	(42,151)	(4,245)	0	210,633	834,836

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

Table 22S
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	\$ 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
2004	830,135	489,354	59	340,781	117
2005	709,607	534,269	75	175,338	51
2006	715,421	580,978	81	134,443	38
2007	1,033,397	834,836	81	198,561	41

Ingham County (3303)

Division 44 - MCF Exec Mgr

Table 16T

**Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009**

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	17.20%	\$1,776
Amortization of Unfunded Accrued Liability (28 years)	<u>2.86</u>	<u>295</u>
Total Long Term Contribution	20.06	2,071
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	20.06%	\$2,071 *

@ 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 28 year amortization) will decrease/increase by 0.79% 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 44 - MCF Exec Mgr

Table 17T

Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution
	Number	Annual Payroll	
2003	1	\$ 108,383	23.01%
2004	1	107,468	20.86%
2005	1	116,476	20.75%
2006	1	119,043	20.35%
2007	1	123,882	20.06%

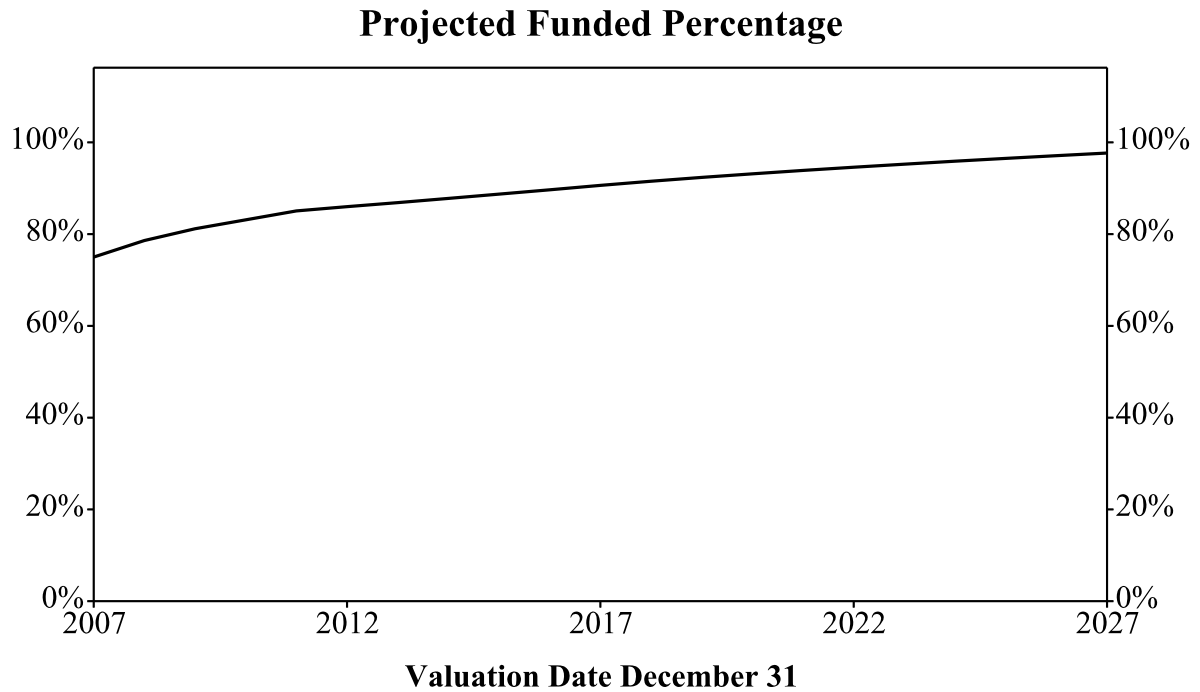
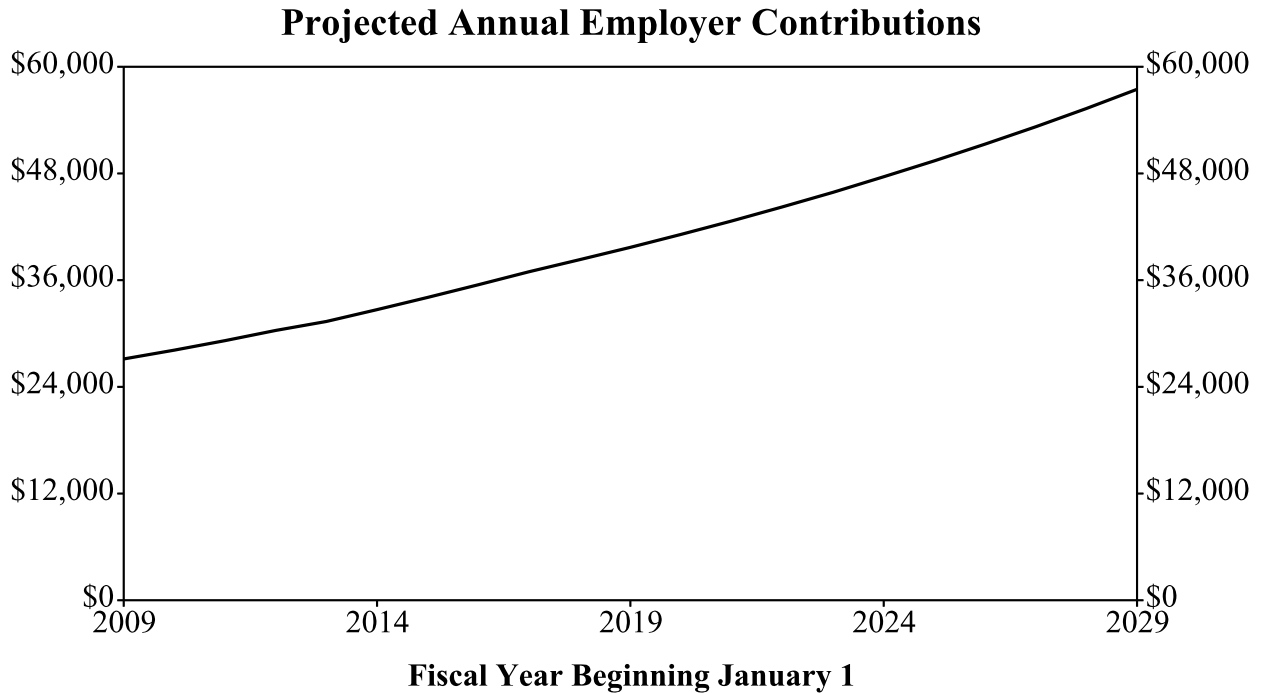
Notes:

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.

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 44 - MCF Exec Mgr
Chart 17.5T



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 44 - MCF Exec Mgr

Table 18T
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2003							1		1
2004									1
2005									1
2006									1
2007									1

Table 19T
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2003								0
2004								0
2005								0
2006								0
2007								0

Ingham County (3303)

Division 44 - MCF Exec Mgr

Table 20T

Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2003		\$	\$		\$	\$	0	\$ 0
2004							0	0
2005							0	0
2006							0	0
2007							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.

Ingham County (3303)

Division 44 - MCF Exec Mgr

Table 21T
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2003	\$ 1,647	\$ 0	\$ 8,085	\$ 0	\$ 0	\$ 0	\$ 56,751	\$ 66,483
2004	22,557	0	5,936	0	0	0	0	94,976
2005	26,801	0	7,136	0	0	0	0	128,913
2006	24,832	0	10,659	0	0	0	0	164,404
2007	25,706	0	12,696	0	0	0	0	202,806

* 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%
2004	175,405	94,976	54	80,429	75
2005	211,238	128,913	61	82,325	71
2006	238,051	164,404	69	73,647	62
2007	270,934	202,806	75	68,128	55

Ingham County (3303)

Division 90 - Asst Pros Attnys

Table 16U

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	10.11%	\$17,245
Amortization of Unfunded Accrued Liability (28 years)	<u>3.62</u>	<u>6,175</u>
Total Long Term Contribution	13.73	23,420
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	13.73%	\$23,420 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)

Division 90 - Asst Pros Attnys

Table 17U

Computed Employer Contributions - Comparative Statement

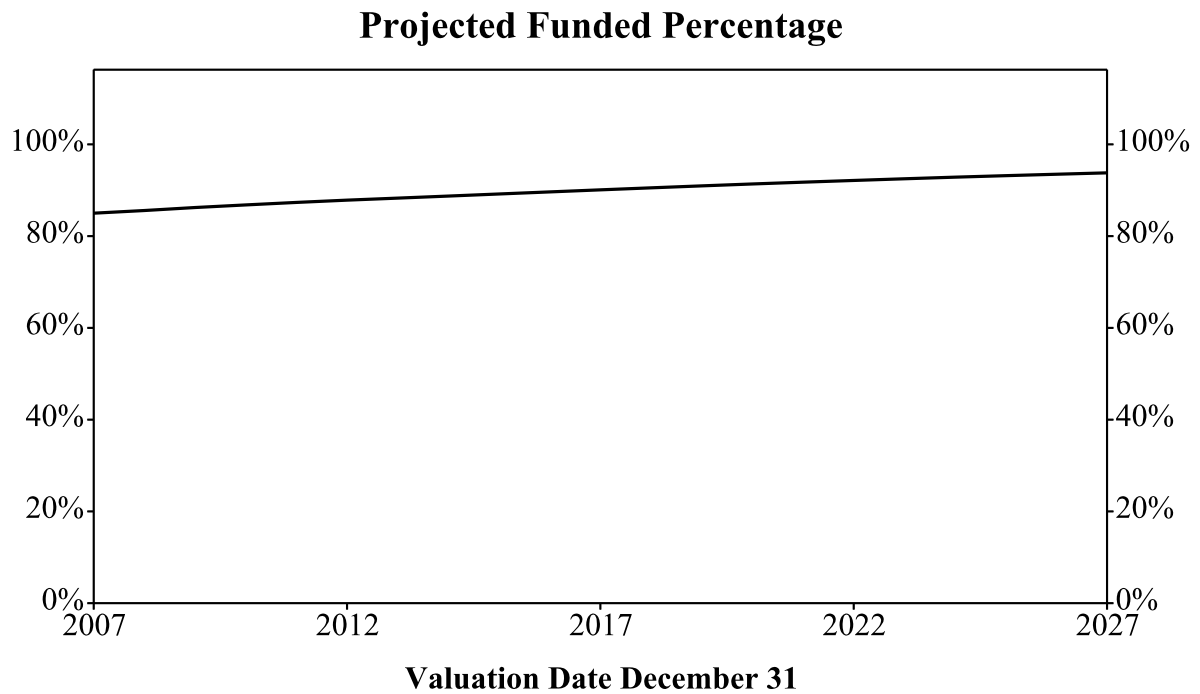
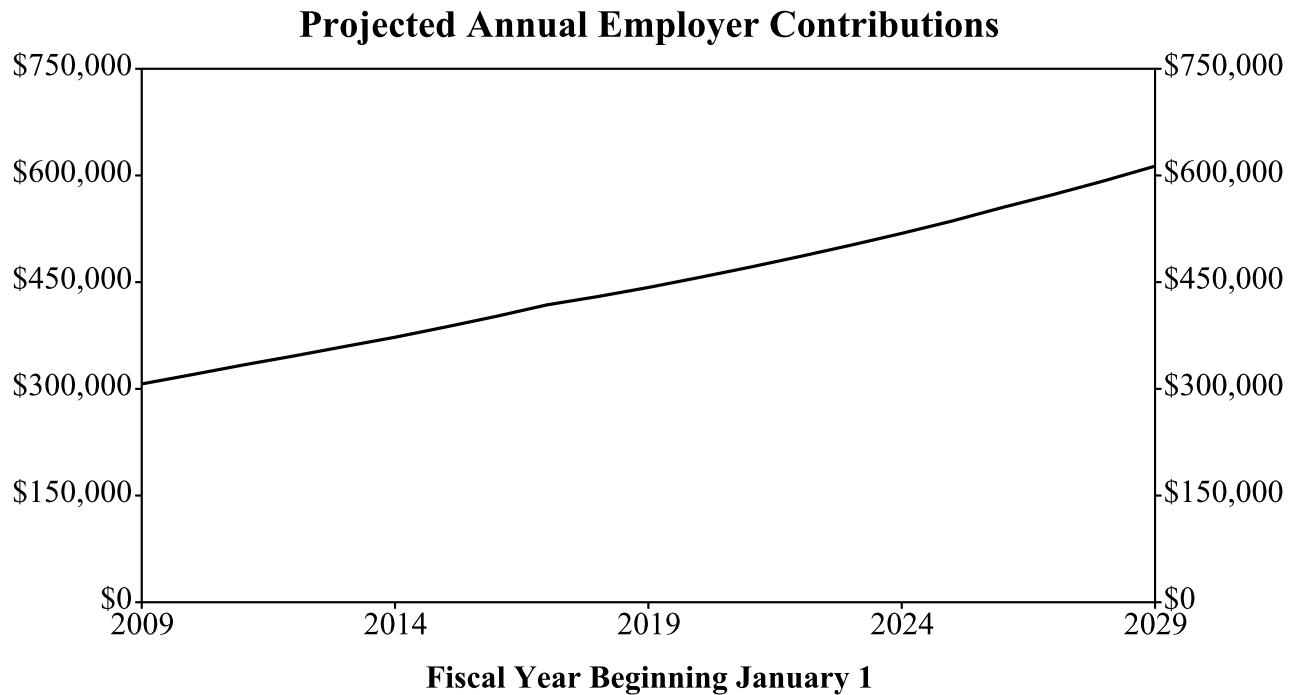
Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1993	27	\$ 1,413,378	9.75%	4.12%
1994	29	1,531,585	10.93%	5.71%
1995	29	1,479,614	10.54%	7.61%
1996	29	1,607,654	10.68%	9.85%
1997	29	1,596,005	8.88%	8.88%
1998	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%
2004	28	1,906,913	14.28%	14.28%
2005	29	1,838,035	13.16%	13.16%
2006	31	2,149,529	13.17%	13.17%
2007	30	2,046,925	13.73%	13.73%

Notes:

Actuarial assumptions were revised for the 1993 valuation.
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.
Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 90 - Asst Pros Attnys
Chart 17.5U



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 90 - Asst Pros Attnys

Table 18U
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001				(3)	(1)	(1)		6	30
2002				(1)				3	32
2003				(1)				1	32
2004	(1)			(2)		(1)			28
2005	(1)			(1)		(1)		4	29
2006								2	31
2007	(3)			(1)	(2)			5	30

Table 19U
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001	(1)					5	6	14
2002							1	15
2003							1	16
2004							2	18
2005			(1)				1	18
2006								18
2007	(1)			(2)			1	16

Ingham County (3303)

Division 90 - Asst Pros Attnys

Table 20U
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001	1	\$ 8,246	\$		\$	\$	5	\$ 97,627
2002							5	97,627
2003				(1)	(5,028)		4	92,599
2004	1	40,154					5	132,753
2005	2	73,163					7	205,916
2006	1	1,190					8	207,106
2007	4	160,747					12	367,853

@ 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.

Ingham County (3303)
Division 90 - Asst Pros Attnys

Table 21U
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 225,254	\$ 22,971	\$ 328,575	\$ (93,505)	\$ 0	\$ (4,527)	\$ 40,928	\$ 4,445,017
2002	247,769	25,826	232,163	(97,628)	(74)	0	117,514	4,970,587
2003	262,996	26,954	446,233	(97,628)	0	(38,107)	0	5,571,035
2004	282,316	28,332	400,460	(129,408)	(196)	(15,030)	0	6,137,509
2005	262,013	26,912	407,207	(163,238)	0	(12,751)	0	6,657,652
2006	305,563	30,040	544,097	(205,917)	0	0	0	7,331,435
2007	286,098	30,570	596,160	(261,902)	0	0	0	7,982,361

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

Table 22U
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	\$ 5,629,717	\$ 4,445,017	79%	\$ 1,184,700	73%
2002	6,359,505	4,970,587	78	1,388,918	76
2003	6,826,732	5,571,035	82	1,255,697	65
2004	7,635,030	6,137,509	80	1,497,521	79
2005	7,730,182	6,657,652	86	1,072,530	58
2006	8,530,792	7,331,435	86	1,199,357	56
2007	9,386,372	7,982,361	85	1,404,011	69

Ingham County (3303)

Division 91 - Parks Union Empl

Table 16V

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	8.94%	\$1,787
Amortization of Unfunded Accrued Liability (28 years)	<u>0.58</u>	<u>116</u>
Total Long Term Contribution	9.52	1,903
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	9.52%	\$1,903 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)**Division 91 - Parks Union Empl****Table 17V****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
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%
2001	5	167,040	11.30%	11.30%
2002	5	159,732	9.44%	9.44%
2003	6	184,247	8.02%	8.02%
2004	6	208,094	8.92%	8.92%
2005	6	224,976	9.18%	9.18%
2006	7	273,951	8.92%	8.92%
2007	6	239,863	9.52%	9.52%

Notes:

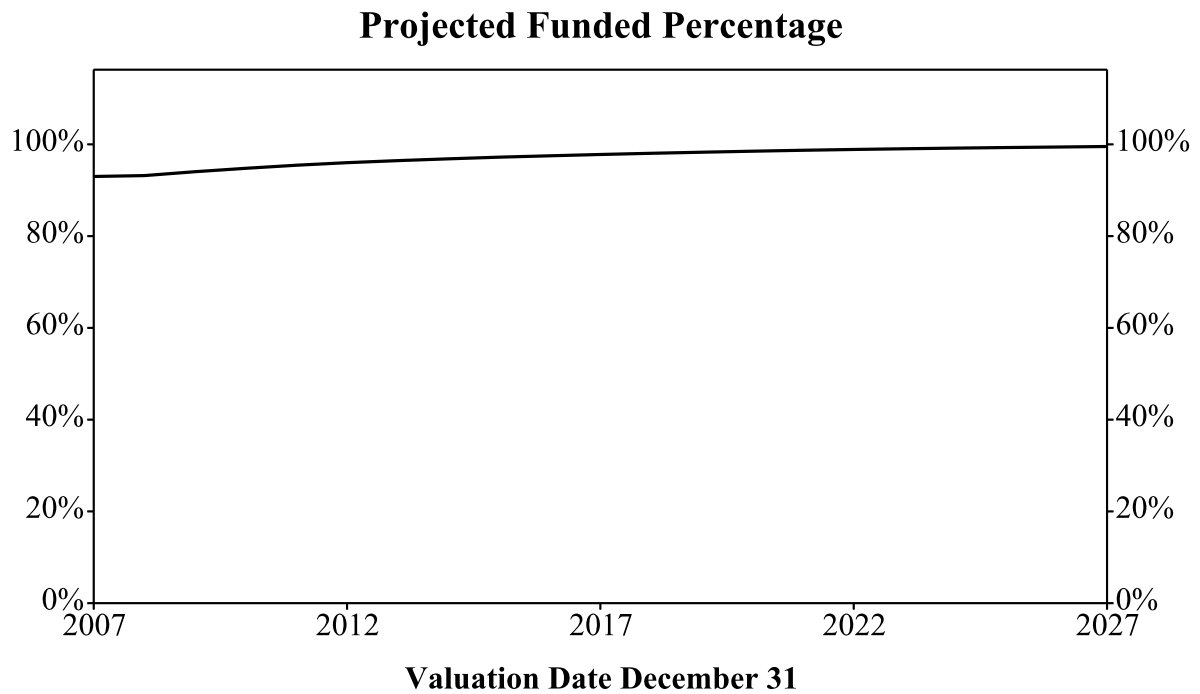
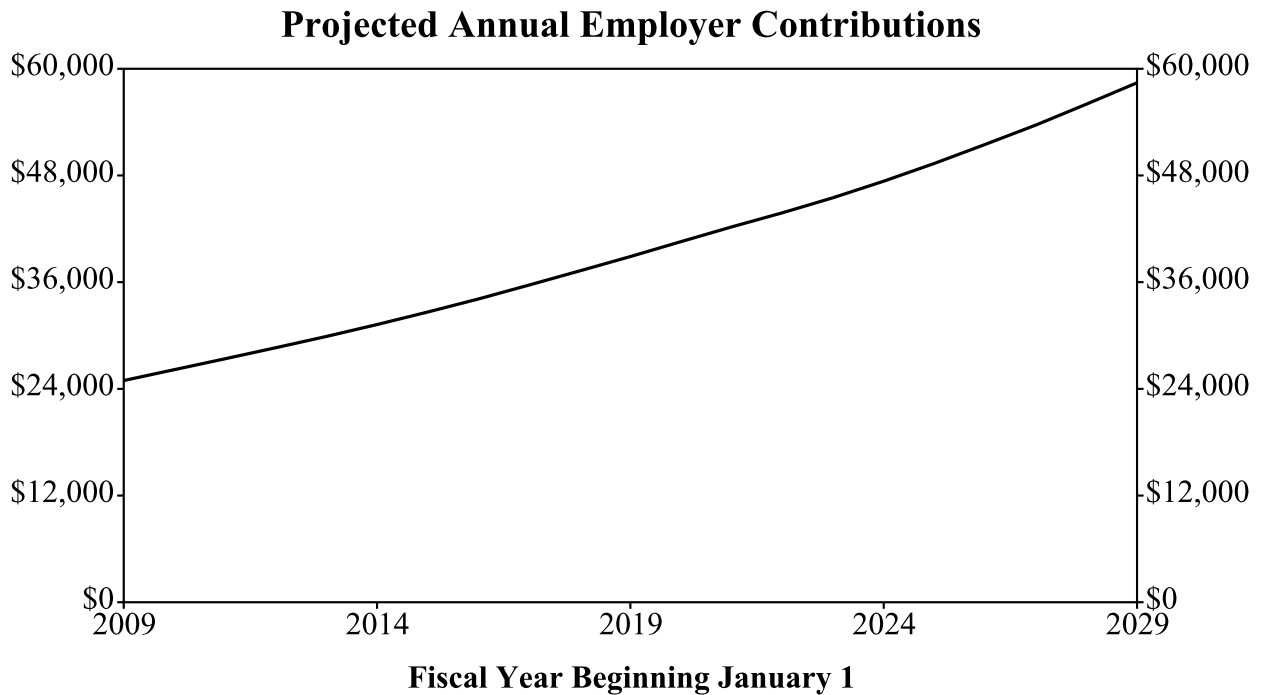
Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 91 - Parks Union Empl
Chart 17.5V



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 91 - Parks Union Empl

Table 18V
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001						(1)			5
2002					(2)			2	5
2003				(1)				2	6
2004									6
2005									6
2006								1	7
2007					(2)			1	6

Table 19V
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001								0
2002								0
2003							1	1
2004								1
2005								1
2006								1
2007								1

Ingham County (3303)

Division 91 - Parks Union Empl

Table 20V

Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001		\$	\$		\$	\$	0	\$ 0
2002							0	0
2003							0	0
2004							0	0
2005							0	0
2006							0	0
2007							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.

Ingham County (3303)

Division 91 - Parks Union Empl

Table 21V
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 20,080	\$ 0	\$ 5,528	\$ 0	\$ 0	\$ (58,303)	\$ 0	\$ 104,266
2002	18,925	0	7,697	0	0	0	0	130,888
2003	19,450	0	14,890	0	0	0	0	165,228
2004	19,644	0	12,616	0	0	0	0	197,488
2005	18,043	0	13,239	0	0	0	0	228,770
2006	22,182	0	18,712	0	0	0	0	269,664
2007	25,299	0	21,289	0	0	0	0	316,252

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

Table 22V
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	\$ 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
2004	210,675	197,488	94	13,187	6
2005	256,186	228,770	89	27,416	12
2006	307,770	269,664	88	38,106	14
2007	341,487	316,252	93	25,235	11

Ingham County (3303)

Division 92 - Parks Non Union

Table 16W

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	8.44%	\$1,111
Amortization of Unfunded Accrued Liability (28 years)	<u>8.65</u>	<u>1,139</u>
Total Long Term Contribution	17.09	2,250
Overfunding Credit #	<u>0.00</u>	<u>0</u>
Total Contribution	17.09%	\$2,250 *

@ 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 28 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 projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24).

Ingham County (3303)**Division 92 - Parks Non Union****Table 17W****Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	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%
2004	3	199,981	14.22%	14.22%
2005	3	197,797	12.54%	12.54%
2006	2	143,923	17.23%	17.23%
2007	2	157,991	17.09%	17.09%

Notes:

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

Actuarial assumptions were revised for the 1997 valuation.

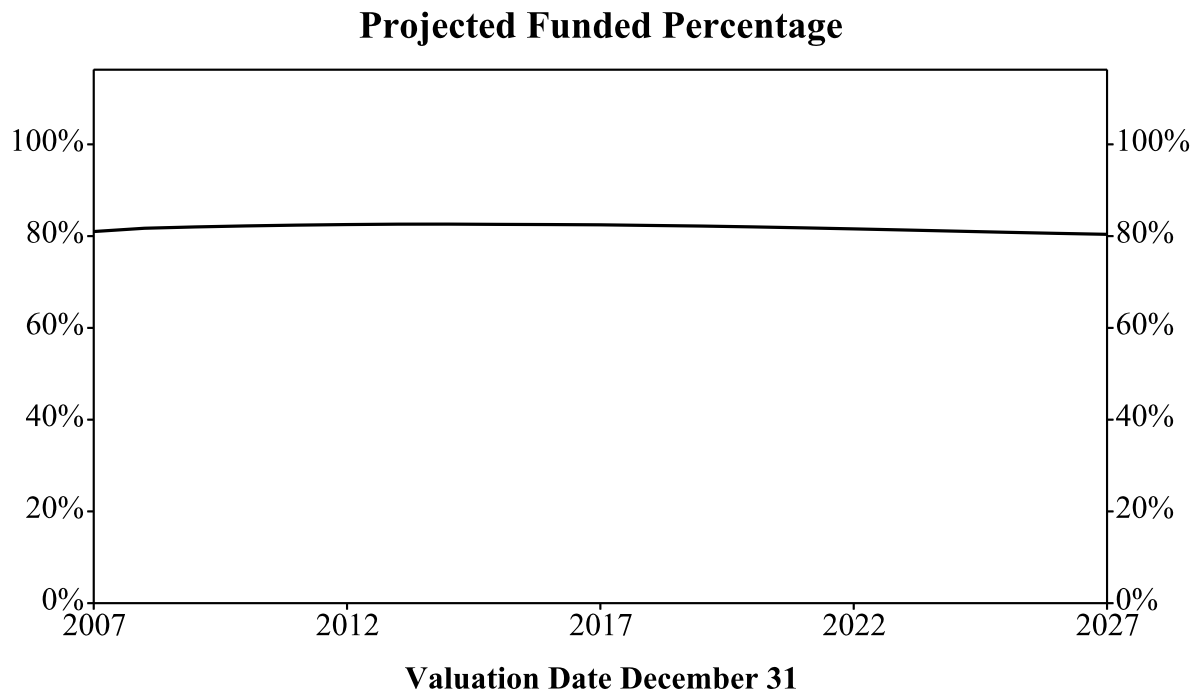
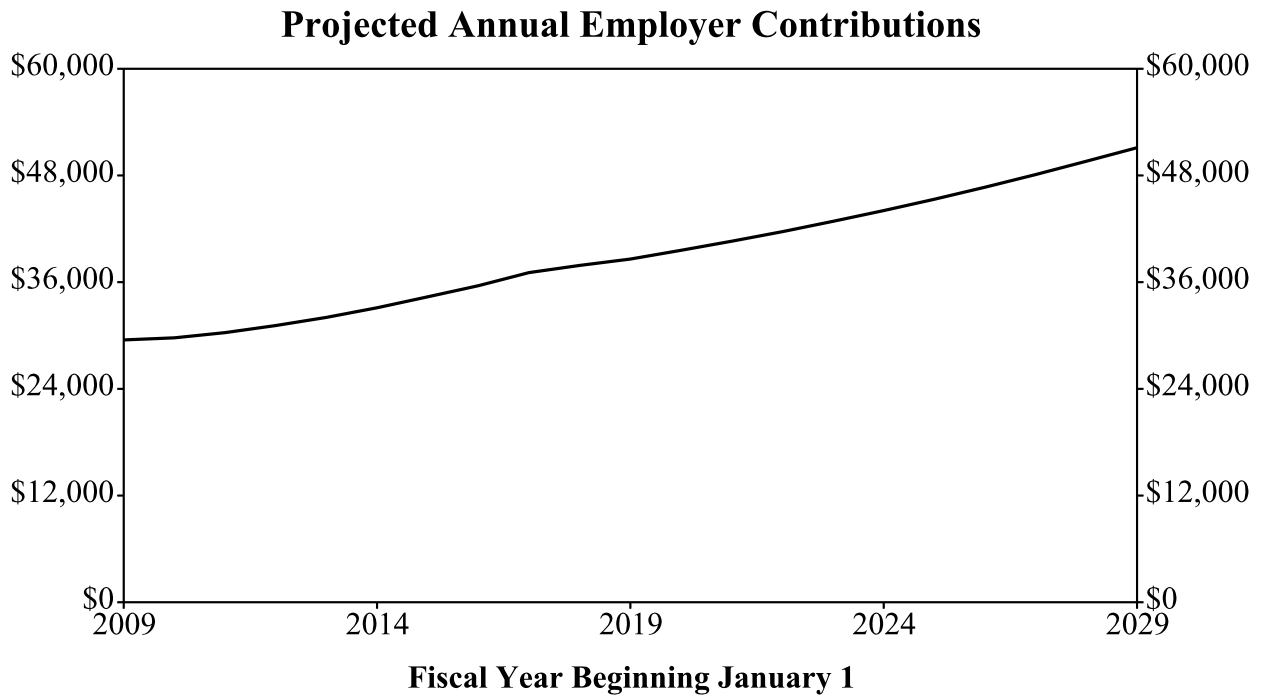
Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit FAC-3 reflected in 2002 valuation.

Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 92 - Parks Non Union
Chart 17.5W



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 92 - Parks Non Union

Table 18W
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001									3
2002									3
2003									3
2004									3
2005									3
2006	(1)								2
2007									2

Table 19W
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001								0
2002								0
2003								0
2004								0
2005								0
2006								0
2007								0

Ingham County (3303)
Division 92 - Parks Non Union

Table 20W
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001		\$	\$		\$	\$	0	\$ 0
2002							0	0
2003							0	0
2004							0	0
2005							0	0
2006	1	40,397					1	40,397
2007							1	40,397

@ 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.

Ingham County (3303)

Division 92 - Parks Non Union

Table 21W
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 22,273	\$ 0	\$ 48,447	\$ 0	\$ 0	\$ 0	\$ 0	\$ 665,460
2002	25,026	0	29,437	0	0	0	0	719,923
2003	25,960	0	64,513	0	0	0	0	810,396
2004	27,597	0	58,067	0	0	0	0	896,060
2005	25,199	0	59,428	0	0	0	0	980,687
2006	24,825	0	79,814	(20,199)	0	0	0	1,065,127
2007	19,812	0	85,646	(40,397)	0	0	0	1,130,188

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

Table 22W

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	\$ 851,222	\$ 665,460	78%	\$ 185,762	104%
2002	934,422	719,923	77	214,499	118
2003	993,615	810,396	82	183,219	98
2004	1,132,821	896,060	79	236,761	118
2005	1,155,434	980,687	85	174,747	88
2006	1,303,505	1,065,127	82	238,378	166
2007	1,391,315	1,130,188	81	261,127	165

Ingham County (3303)
Division 93 - Lgl Rsrch Clerks

Table 16X

Computed Employer Contributions to the Retirement System
For the Fiscal Year Beginning January 1, 2009

Contribution for	Employer Contribution @	
	As Percentage of Active Member Payroll	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	6.22%	\$1,836
Amortization of Unfunded Accrued Liability (28 years) #	<u>(1.03)</u>	<u>(304)</u>
Total Long Term Contribution	5.19	1,532
Overfunding Credit #	<u>(1.19)</u>	<u>(351)</u>
Total Contribution	4.00%	\$1,181 *

@ 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 28 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, projected assets exceed projected liabilities as of the beginning of the January 1, 2009 fiscal year (see Table 24). The negative unfunded accrued liability is amortized (spread) over 10 years, and used to reduce the employer contribution rate. The total credit is 2.22% (1.03% plus 1.19%). The additional 1.19% results from spreading the negative unfunded accrued liability over 10 years instead of 28 years.

Ingham County (3303)
Division 93 - Lgl Rsrch Clerks

Table 17X

Computed Employer Contributions - Comparative Statement

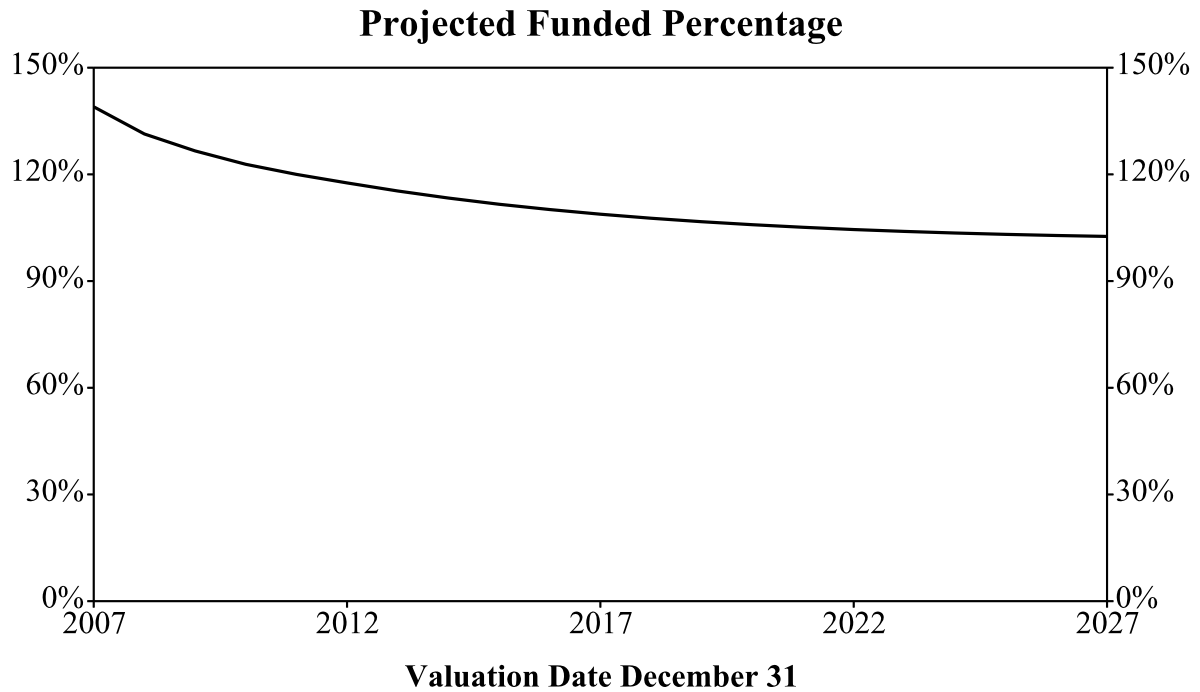
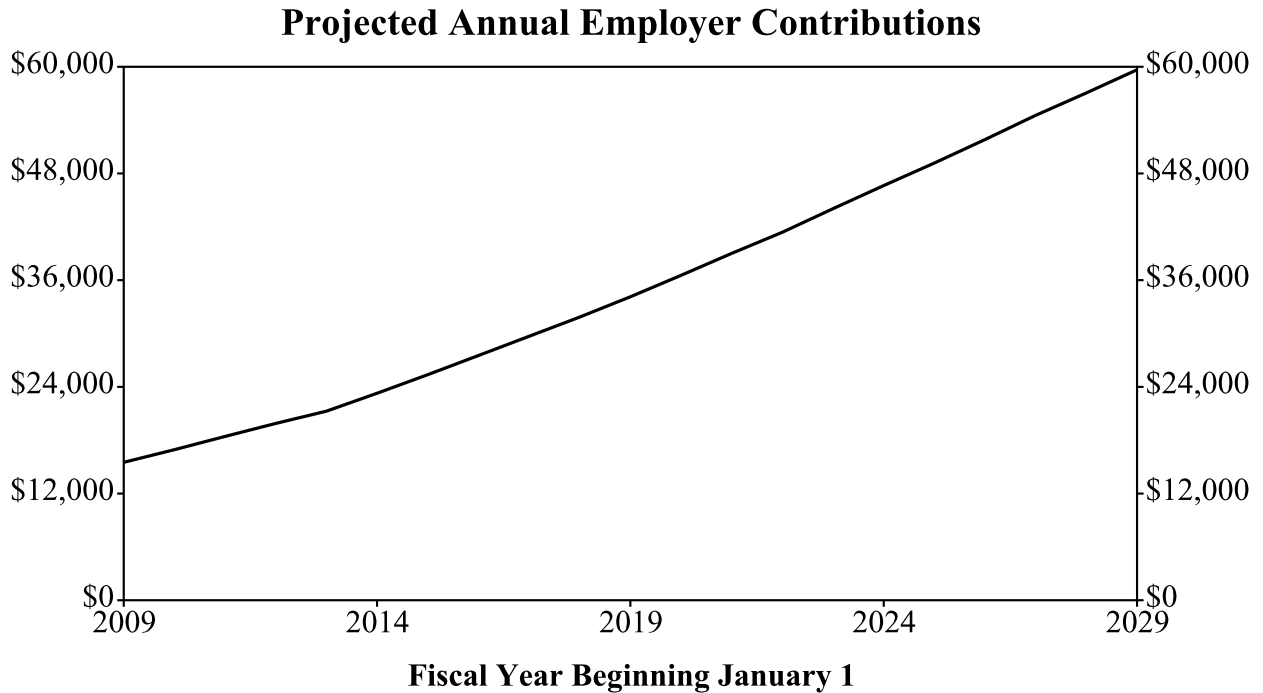
Valuation Date December 31,	Active Members		Employer Contribution
	Number	Annual Payroll	
1997	8	\$ 250,777	6.84%
1998	5	175,963	7.21%
1999	6	163,718	6.95%
2000	8	225,369	6.73%
2001	7	235,907	7.68%
2002	6	227,014	7.16%
2003	6	219,613	6.71%
2004	7	267,468	6.31%
2005	6	240,550	5.20%
2006	7	271,510	3.39%
2007	8	354,267	4.00%

Notes:

Actuarial assumptions were revised for the 1997 valuation.
Actuarial assumptions were revised for the 2000 valuation.
Actuarial assumptions were revised for the 2004 valuation.

Up to 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

Ingham County (3303)
Division 93 - Lgl Rsrch Clerks
Chart 17.5X



Note: Please refer to page 216 for a discussion of the projection.

Ingham County (3303)

Division 93 - Lgl Rsrch Clerks

Table 18X
Flow of Active Membership

Year Ended 12/31	Retired	Disabled	Died (Survivor Benefit)	Other Termination		Transfer		New Member	End of Year
				Vested	Non-Vested	Out	In		
2001					(3)			2	7
2002					(2)			1	6
2003					(2)			2	6
2004					(1)			2	7
2005					(2)			1	6
2006					(3)			4	7
2007					(2)			3	8

Table 19X
Flow of Vested Former Members

Year Ended 12/31	Retired	Return To Work	Died (Survivor Benefit)	Forfeit Benefit	Transfer		New	End of Year
					Out	In		
2001								0
2002								0
2003								0
2004								0
2005								0
2006								0
2007								0

Ingham County (3303)
Division 93 - Lgl Rsrch Clerks

Table 20X
Flow of Retirees and Beneficiaries

Year Ended 12/31	Added to Rolls			Removed from Rolls			Year End	
	Number@	Annual Benefits	Benefit Adjust.*	Number	Annual Benefits	Benefit Adjust.#	Number	Annual Benefits
2001		\$	\$		\$	\$	0	\$ 0
2002							0	0
2003							0	0
2004							0	0
2005							0	0
2006							0	0
2007							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.

Ingham County (3303)
Division 93 - Lgl Rsrch Clerks

Table 21X
Flow of Valuation Assets (Actuarial Value)

Year Ended 12/31	Contributions		Investment Income	Benefit Payments	Member Contrib. Refunds	Transfer*		Balance
	Employer	Member				Out	In	
2001	\$ 17,007	\$ 0	\$ 5,820	\$ 0	\$ 0	\$ 0	\$ 0	\$ 80,280
2002	17,925	0	6,542	0	0	0	0	104,747
2003	20,588	0	12,956	0	0	0	0	138,291
2004	21,502	0	10,857	0	0	0	0	170,650
2005	19,550	0	11,655	0	0	0	0	201,855
2006	18,060	0	16,397	0	0	0	0	236,312
2007	18,339	0	18,525	0	0	0	0	273,176

* 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
2004	165,023	170,650	103	(5,627)	0
2005	171,202	201,855	118	(30,653)	0
2006	173,940	236,312	136	(62,372)	0
2007	196,845	273,176	139	(76,331)	0

Ingham County (3303)

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, 1997.

All entries and the annual employer contribution amount were based on the actuarial methods and assumptions used in the December 31, 2007 actuarial valuation. The entry age normal actuarial method was used to determine the disclosure entries.

GASB 25 Information (as of 12/31/2007)

Actuarial Accrued Liability

Retirees and beneficiaries currently receiving benefits	\$118,176,001
Terminated employees (vested former members) not yet receiving benefits	13,318,587
Non-vested terminated employees (pending refunds of accumulated member contributions)	855,136
Current employees - Accumulated employee contributions including allocated investment income	31,516,629
Employer financed	<u>96,462,456</u>
Total Actuarial Accrued Liability	\$260,328,809
Net Assets Available for Benefits at Actuarial Value	<u>202,178,200</u>
(Market Value is \$204,536,711)	
Unfunded (Overfunded) Actuarial Accrued Liability	\$58,150,609

GASB 27 Information (as of 12/31/2007)

Fiscal Year Beginning	January 1, 2009
Annual Required Contribution (ARC)	\$ 6,359,112*
Amortization Factor Used - Underfunded Liabilities (28 years)	0.055889
Amortization Factor Used - Underfunded Liabilities (18 years)	0.075270
Amortization Factor Used - Underfunded Liabilities (30 year level \$)	0.085453
Amortization Factor Used - Overfunded Liabilities (10 years)	0.119963

* Based on valuation payroll. For divisions that are open to new hires the actual required contribution will be based on current monthly payroll (during the fiscal year beginning January 1, 2009) times the computed employer contribution rate(s) shown in Tables 15 and 16. The ARC shown here is the sum of the ARC's calculated separately for each division.

Ingham County (3303)

Table 24

Development of Projected Unfunded Accrued Liability At Beginning of Fiscal Year (January 1, 2009)

Division	Unfunded Accrued Liability 12/31/2007	Employer Normal Cost	Expected Employer Contrib.	Interest	Unfunded Accrued Liability 1/1/2009	Projected Fiscal Year Payroll
01 - Confidentiali	\$ 1,337,821	\$ 100,109	\$ (176,130)	\$ 103,985	\$ 1,365,785	\$ 1,454,988
02 - Sheriff FO	12,177,885	(26,580)	(600,744)	949,138	12,499,699	2,458,018
04 - MCF	491,537	230,553	(262,889)	38,030	497,231	4,388,490
09 - Judges	857,406	12,259	(59,264)	66,712	877,113	119,834
10 - Gnrl Mgmt	10,333,406	474,928	(1,010,009)	805,269	10,603,594	7,309,278
11 - Gnrl Libra #	178,981	0	(10,932)	13,881	181,930	-
12 - Gnrl ICEA	6,614,548	160,177	(510,778)	515,140	6,779,087	7,183,885
13 - Gnrl OPEIU	2,547,087	51,006	(184,281)	198,436	2,612,248	2,149,262
14 - Gnrl TOPS	5,741,615	1,153,608	(1,440,904)	447,837	5,902,156	15,396,167
15 - Animal Cnt	1,098,702	5,382	(74,303)	85,139	1,114,920	476,653
16 - Gnrl Comms	38,162	12,477	(15,512)	2,932	38,059	220,249
17 - ICEA Nurse	3,005,867	165,797	(328,374)	233,966	3,077,256	4,205,275
18 - ICEA Ct. P	3,236,256	69,672	(230,340)	252,474	3,328,062	2,206,280
19 - Cnstutnl O	114,253	33,932	(54,420)	8,321	102,086	608,223
21 - FOP Shrf D	8,041,085	448,114	(871,333)	626,358	8,244,224	8,970,871
40 - ICEA Unit	(27,099)	86,144	(83,095)	(2,046)	(26,096)	1,593,281
41 - MCF Manage	110,628	105,837	(109,526)	8,703	115,642	1,204,790
42 - ICEA Unit	371,738	46,890	(84,009)	28,254	362,873	762,060
43 - ICEA Unit	198,561	28,272	(37,561)	15,513	204,785	530,419
44 - MCF Exec M	68,128	22,267	(26,344)	5,287	69,338	135,283
90 - Asst Pros	1,404,011	216,257	(281,711)	109,703	1,448,260	2,235,294
91 - Parks Unio	25,235	22,409	(22,359)	2,021	27,306	261,937
92 - Parks Non	261,127	13,935	(28,447)	20,310	266,925	172,531
93 - Lgl Rsrch	(76,331)	23,027	(12,550)	(5,687)	(71,541)	386,868

This division is closed to new hires.

The unfunded accrued liability as of December 31, 2007 (see Table 13) is projected to the beginning of the fiscal year for which employer contributions are being calculated (January 1, 2009). This allows the 2007 valuation to take into account the expected future contributions that are based on past valuations. This projection process will result in more stable computed contribution rates, and was first used for the December 31, 2004 actuarial valuations.

The projected unfunded accrued liability is amortized over the appropriate period (see Table 16 for each division) to determine the amortization payment. For divisions that are closed to new hires this is the dollar amortization payment. For divisions that are open to new hires this payment is divided by the projected fiscal year payroll to determine the amortization payment as a percentage of active member payroll. The resulting amortization contributions are displayed in

Ingham County (3303)

Table 24 (continued)

Development of Projected Unfunded Accrued Liability

Table 16 for each division.

Ingham County (3303)

Table 25

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 Sharlene Pallick (800-767-6377 ext. 252; SPallick@mersofmich.com).

Division 01 - Confidential

Provisions by Date

1/1/2002	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/2002	Benefit B-4 (80% max)
1/1/2002	Member Contribution Rate 5.36%
6/25/1996	Day of work defined as 4 Hours a Mnth for parttime employees
6/25/1996	Day of work defined as 8 Hours a Mnth for fulltime employees
1/1/1995	Benefit B-3 (80% max)
1/1/1995	Member Contribution Rate 4.50%
12/31/1994	Member Contribution Rate 0.00%
1/1/1994	Flexible E 2% COLA Adopted (01/01/1994)
1/1/1993	6 Year Vesting
10/1/1991	Member Contribution Rate 1.00%
10/1/1991	Benefit F55 (With 15 Years of Service)
7/1/1991	Benefit C-2/Base B-1
10/1/1990	Member Contribution Rate 0.00%
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
1/1/1969	Benefit C-1 (Old)
9/29/1965	Covered by ACT 88
11/15/1950	10 Year Vesting
11/15/1950	Benefit FAC-5 (5 Year Final Average Compensation)
11/15/1950	Benefit C (Old)
11/15/1950	Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00%
11/15/1950	Fiscal Month - January

Division 02 - Sheriff FOP Spvs

Provisions by Date

10/1/1997	3.2% Multiplier (80% max)
10/1/1997	Member Contribution Rate 19.61%
1/1/1995	25 Years & Out
1/1/1995	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/1995	Benefit B-4 (80% max)
1/1/1995	Member Contribution Rate 10.45%
12/31/1994	Member Contribution Rate 0.00%
7/1/1994	Member Contribution Rate 5.40%

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 02 - Sheriff FOP Spvs

Provisions by Date

6/30/1994	Member Contribution Rate 0.00%
1/1/1994	Flexible E 2% COLA Adopted (01/01/1994)
7/1/1993	Benefit B-3 (80% max)
7/1/1993	Member Contribution Rate 6.40%
6/30/1993	Member Contribution Rate 0.00%
10/1/1991	Member Contribution Rate 1.85%
1/1/1991	Member Contribution Rate 1.60%
10/1/1990	Member Contribution Rate 1.80%
10/1/1990	Benefit F50 (With 25 Years of Service)
1/1/1990	Day of work defined as 4 Hours a Mnth for parttime employees
1/1/1990	Day of work defined as 8 Hours a Mnth for fulltime employees
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
1/1/1987	Benefit C-2/Base C-1 (Old)
12/16/1986	Blanket Resolution (All Service)
1/1/1986	Member Contribution Rate 1.00%
1/1/1986	Benefit F55 (With 15 Years of Service)
10/15/1980	Exclude Temporary Employees
1/1/1976	Member Contribution Rate 0.00%
1/1/1969	Benefit C-1 (Old)
9/29/1965	Covered by ACT 88
11/15/1950	10 Year Vesting
11/15/1950	Benefit FAC-5 (5 Year Final Average Compensation)
11/15/1950	Benefit C (Old)
11/15/1950	Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00%
11/15/1950	Fiscal Month - January

Division 03 - Ingham Med Clsd

Provisions by Date

1/1/1901	10 Year Vesting
1/1/1901	Benefit FAC-5 (5 Year Final Average Compensation)
	Fiscal Month - January

Division 04 - MCF

Provisions by Date

1/1/1995	Flexible E 2% COLA Adopted (01/01/1995)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
10/15/1980	Exclude Temporary Employees
6/1/1977	Member Contribution Rate 0.00%
1/1/1969	Benefit C-1 (Old)
11/15/1950	10 Year Vesting
11/15/1950	Benefit FAC-5 (5 Year Final Average Compensation)

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 04 - MCF

Provisions by Date

11/15/1950 Benefit C (Old)
11/15/1950 Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00%
Fiscal Month - January

Division 09 - Judges

Provisions by Date

1/1/2002 Benefit B-4 (80% max)
1/1/2002 Member Contribution Rate 3.14%
1/1/1998 Benefit B-3 (80% max)
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 Member Contribution Rate 0.00%
4/1/1991 10 Year Vesting
4/1/1991 Benefit FAC-5 (5 Year Final Average Compensation)
10/15/1980 Exclude Temporary Employees
9/29/1965 Covered by ACT 88
11/15/1950 Fiscal Month - January

Division 10 - Gnrl Mgmt

Provisions by Date

1/1/2002 Benefit FAC-3 (3 Year Final Average Compensation)
1/1/2002 Benefit B-4 (80% max)
1/1/2002 Member Contribution Rate 6.39%
6/25/1996 Day of work defined as 4 Hours a Mnth for parttime employees
6/25/1996 Day of work defined as 8 Hours a Mnth for fulltime employees
1/1/1995 Benefit B-3 (80% max)
1/1/1995 Member Contribution Rate 5.00%
12/31/1994 Member Contribution Rate 0.00%
1/1/1994 Flexible E 2% COLA Adopted (01/01/1994)
1/1/1993 6 Year Vesting
7/1/1991 Member Contribution Rate 1.00%
7/1/1988 Benefit FAC-5 (5 Year Final Average Compensation)
7/1/1988 Benefit C-2/Base B-1
7/1/1988 Member Contribution Rate 3.00%
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)
7/1/1987 Member Contribution Rate 0.00%
12/16/1986 Blanket Resolution (All Service)
5/1/1986 10 Year Vesting
5/1/1986 Benefit F55 (With 15 Years of Service)
10/15/1980 Exclude Temporary Employees

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 10 - Gnrl Mgmt

Provisions by Date

9/29/1965 Covered by ACT 88
11/15/1950 Fiscal Month - January

Division 11 - Gnrl Library

Provisions by Date

1/1/1994 Flexible E 2% COLA Adopted (01/01/1994)
3/24/1992 Day of work defined as 4 Hours a Day for parttime employees
3/24/1992 Day of work defined as 8 Hours a Day for fulltime employees
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)
7/1/1987 10 Year Vesting
7/1/1987 Benefit FAC-5 (5 Year Final Average Compensation)
7/1/1987 Benefit C-1 (Old)
7/1/1987 Member Contribution Rate 0.00%
7/1/1987 Fiscal Month - January
10/15/1980 Exclude Temporary Employees
9/29/1965 Covered by ACT 88

Division 12 - Gnrl ICEA Profs

Provisions by Date

1/1/2003 Benefit B-4 (80% max)
1/1/2003 Member Contribution Rate 13.42%
1/1/2003 E2 2.5% Annual COLA for future retirees (01/01/2003)
6/1/1997 Member Contribution Rate 6.08%
6/1/1997 Benefit F55 (With 15 Years of Service)
5/31/1997 Member Contribution Rate 0.00%
1/1/1995 Benefit B-3 (80% max)
1/1/1995 Member Contribution Rate 4.10%
12/31/1994 Member Contribution Rate 0.00%
1/1/1994 Flexible E 2% COLA Adopted (01/01/1994)
1/1/1992 Benefit C-2/Base B-1
1/1/1992 Day of work defined as 4 Hours a Mnth for parttime employees
1/1/1992 Day of work defined as 8 Hours a Mnth for fulltime employees
1/1/1992 Member Contribution Rate 1.10%
12/31/1991 Member Contribution Rate 0.00%
10/1/1990 Member Contribution Rate 0.90%
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)
12/16/1986 Blanket Resolution (All Service)
7/1/1983 10 Year Vesting
7/1/1983 Benefit FAC-5 (5 Year Final Average Compensation)
7/1/1983 Benefit C-2/Base C-1 (Old)
10/15/1980 Exclude Temporary Employees

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 12 - Gnrl ICEA Profs

Provisions by Date

9/29/1965 Covered by ACT 88
11/15/1950 Fiscal Month - January

Division 13 - Gnrl OPEIU Prob

Provisions by Date

7/1/2003 Benefit B-4 (80% max)
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 (80% max)
1/1/1998 Member Contribution Rate 7.13%
12/31/1997 Member Contribution Rate 7.10%
1/1/1995 Benefit C-2/Base B-1
1/1/1995 Member Contribution Rate 2.96%
12/31/1994 Member Contribution Rate 0.00%
1/1/1994 Flexible E 2% COLA Adopted (01/01/1994)
1/1/1992 Day of work defined as 4 Hours a Mnth for parttime employees
1/1/1992 Day of work defined as 8 Hours a Mnth for fulltime employees
10/1/1991 Member Contribution Rate 1.88%
9/30/1991 Member Contribution Rate 0.00%
10/1/1990 10 Year Vesting
10/1/1990 Benefit FAC-5 (5 Year Final Average Compensation)
10/1/1990 Benefit C-1 (Old)
10/1/1990 Member Contribution Rate 1.80%
12/1/1988 Member Contribution Rate 1.00%
12/1/1988 Benefit F55 (With 15 Years of Service)
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)
12/16/1986 Blanket Resolution (All Service)
10/15/1980 Exclude Temporary Employees
9/29/1965 Covered by ACT 88
11/15/1950 Fiscal Month - January

Division 14 - Gnrl TOPS UAW

Provisions by Date

1/1/2004 Benefit B-4 (80% max)
1/1/2004 Member Contribution Rate 3.62%
1/1/2001 Member Contribution Rate 1.60%
10/1/1995 Benefit B-3 (80% max)
10/1/1995 Member Contribution Rate 4.85%
1/1/1994 Flexible E 2% COLA Adopted (01/01/1994)
1/1/1992 Day of work defined as 4 Hours a Mnth for parttime employees
1/1/1992 Day of work defined as 8 Hours a Mnth for fulltime employees

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 14 - Gnrl TOPS UAW

Provisions by Date

7/1/1991	Member Contribution Rate 1.00%
1/1/1989	10 Year Vesting
1/1/1989	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1989	Benefit C-2/Base C-1 (Old)
1/1/1989	Member Contribution Rate 3.00%
1/1/1989	Benefit F55 (With 15 Years of Service)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

Division 15 - Animal Cntrl FOP

Provisions by Date

6/1/2002	25 Years & Out
6/1/2002	Member Contribution Rate 15.49%
1/1/2001	Member Contribution Rate 14.28%
1/1/2001	E2 2.5% Annual COLA for future retirees (01/01/2001)
7/1/1997	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/1997	Benefit B-4 (80% max)
7/1/1997	Member Contribution Rate 8.90%
7/1/1997	Benefit F50 (With 25 Years of Service)
1/1/1994	E 2% COLA Adopted (01/01/1994)
1/1/1993	Benefit B-1
1/1/1993	Day of work defined as 4 Hours a Mnth for parttime employees
1/1/1993	Day of work defined as 8 Hours a Mnth for fulltime employees
1/1/1993	Member Contribution Rate 1.10%
10/1/1990	Member Contribution Rate 0.90%
1/1/1990	10 Year Vesting
1/1/1990	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1990	Benefit C-1 (Old)
1/1/1990	Member Contribution Rate 0.00%
1/1/1990	Benefit F55 (With 15 Years of Service)
1/1/1988	E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 16 - Gnrl Commsnrs

Provisions by Date

1/1/1999	6 Year Vesting
1/1/1994	Flexible E 2% COLA Adopted (01/01/1994)
10/1/1991	Member Contribution Rate 3.56%
10/1/1990	Benefit F55 (With 15 Years of Service)
12/2/1988	Member Contribution Rate 0.00%
12/1/1988	10 Year Vesting
12/1/1988	Benefit FAC-5 (5 Year Final Average Compensation)
12/1/1988	Benefit C-2/Base B-1
12/1/1988	Member Contribution Rate 4.00%
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

Division 17 - ICEA Nurses

Provisions by Date

1/1/2001	E2 2.5% Annual COLA for future retirees (07/01/1995)
7/1/1999	6 Year Vesting
7/1/1999	Benefit FAC-3 (3 Year Final Average Compensation)
7/1/1999	Benefit B-3 (80% max)
7/1/1999	Member Contribution Rate 11.87%
7/1/1995	Member Contribution Rate 5.07%
7/1/1995	Benefit F55 (With 15 Years of Service)
6/30/1995	Member Contribution Rate 0.00%
1/1/1994	E 2% COLA Adopted (01/01/1994)
1/1/1991	Day of work defined as 4 Hours a Mnth for parttime employees
1/1/1991	Day of work defined as 8 Hours a Mnth for fulltime employees
10/1/1990	Member Contribution Rate 0.70%
1/1/1990	10 Year Vesting
1/1/1990	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1990	Benefit C-2/Base C-1 (Old)
1/1/1990	Member Contribution Rate 1.00%
1/1/1988	E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 18 - 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 0.00%
1/1/1995	Benefit B-3 (80% max)
1/1/1995	Member Contribution Rate 7.50%
12/31/1994	Member Contribution Rate 0.00%
1/1/1994	E 2% COLA Adopted (01/01/1994)
1/1/1992	Day of work defined as 4 Hours a Mnth for parttime employees
1/1/1992	Day of work defined as 8 Hours a Mnth for fulltime employees
1/1/1992	Member Contribution Rate 3.10%
1/1/1991	10 Year Vesting
1/1/1991	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1991	Benefit C-2/Base B-1
1/1/1991	Member Contribution Rate 2.80%
1/1/1991	Benefit F55 (With 15 Years of Service)
1/1/1988	E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

Division 19 - Cnstutnl Offcls

Provisions by Date

1/1/2002	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/2002	Benefit B-4 (80% max)
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 defined as 4 Hours a Mnth for parttime employees
6/25/1996	Day of work defined as 8 Hours a Mnth for fulltime employees
1/1/1995	Benefit B-3 (80% max)
1/1/1995	Member Contribution Rate 7.00%
12/31/1994	Member Contribution Rate 0.00%
1/1/1994	E 2% COLA Adopted (01/01/1994)
4/1/1991	10 Year Vesting
4/1/1991	Benefit FAC-5 (5 Year Final Average Compensation)
4/1/1991	Benefit C-2/Base B-1
4/1/1991	Member Contribution Rate 3.00%
4/1/1991	Benefit F55 (With 15 Years of Service)

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 19 - Cnstutnl Offcls

Provisions by Date

1/1/1988	E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

Division 20 - 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 (80% max)
1/1/1995	Member Contribution Rate 7.00%
12/31/1994	Member Contribution Rate 0.00%
1/1/1994	Flexible E 2% COLA Adopted (01/01/1994)
10/1/1990	10 Year Vesting
10/1/1990	Benefit FAC-5 (5 Year Final Average Compensation)
10/1/1990	Benefit C-2/Base B-1
10/1/1990	Member Contribution Rate 3.00%
10/1/1990	Benefit F55 (With 15 Years of Service)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
11/15/1950	Fiscal Month - January

Division 21 - FOP Shrf Deputies

Provisions by Date

2/1/2001	25 Years & Out
2/1/2001	Member Contribution Rate 10.96%
1/1/1998	3.2% Multiplier (80% max)
1/1/1998	Member Contribution Rate 10.43%
1/1/1994	Benefit B-4 (80% max)
1/1/1994	Member Contribution Rate 6.55%
1/1/1994	E 2% COLA Adopted (01/01/1994)
12/31/1993	Member Contribution Rate 0.00%
10/1/1991	Member Contribution Rate 1.65%
10/1/1990	Member Contribution Rate 1.60%
5/3/1990	Day of work defined as 4 Hours a Mnth for parttime employees
5/3/1990	Day of work defined as 8 Hours a Mnth for fulltime employees
1/1/1990	10 Year Vesting
1/1/1990	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1990	Benefit C-2/Base C-1 (Old)
1/1/1990	Member Contribution Rate 1.00%
1/1/1990	Benefit F50 (With 25 Years of Service)

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 21 - FOP Shrf Deputies

Provisions by Date

1/1/1990	Benefit F55 (With 15 Years of Service)
1/1/1988	E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

Division 40 - ICEA Unit 111

Provisions by Date

1/1/1995	Flexible E 2% COLA Adopted (01/01/1995)
12/1/1988	10 Year Vesting
12/1/1988	Benefit FAC-5 (5 Year Final Average Compensation)
12/1/1988	Benefit C-2/Base B-1
12/1/1988	Member Contribution Rate 3.00%
12/1/1988	Benefit F55 (With 15 Years of Service)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
	Fiscal Month - January

Division 41 - MCF Management

Provisions by Date

1/1/1995	Flexible E 2% COLA Adopted (01/01/1995)
10/1/1990	Member Contribution Rate 0.00%
1/1/1990	6 Year Vesting
4/1/1989	10 Year Vesting
4/1/1989	Benefit FAC-5 (5 Year Final Average Compensation)
4/1/1989	Benefit C-2/Base B-1
4/1/1989	Benefit F55 (With 15 Years of Service)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
	Fiscal Month - January

Division 42 - ICEA Unit 11

Provisions by Date

4/1/1997	Benefit FAC-3 (3 Year Final Average Compensation)
4/1/1997	Member Contribution Rate 3.95%
4/1/1996	Member Contribution Rate 3.44%
1/1/1996	6 Year Vesting

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 42 - ICEA Unit 11

Provisions by Date

1/1/1996	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1996	Benefit C-2/Base B-1
1/1/1996	Member Contribution Rate 3.40%
1/1/1996	Benefit F55 (With 15 Years of Service)
1/1/1988	E 2% COLA Adopted (01/01/1988)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
	Fiscal Month - January

Division 43 - ICEA Unit 1

Provisions by Date

4/1/1996	Member Contribution Rate 3.51%
1/1/1996	6 Year Vesting
1/1/1996	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1996	Benefit C-2/Base B-1
1/1/1996	Member Contribution Rate 3.50%
1/1/1996	Benefit F55 (With 15 Years of Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
	Fiscal Month - January

Division 44 - MCF Exec Mgr

Provisions by Date

1/1/2004	E2 2.5% Annual COLA for future retirees (09/01/2003)
9/1/2003	6 Year Vesting
9/1/2003	Benefit FAC-3 (3 Year Final Average Compensation)
9/1/2003	Benefit B-4 (80% max)
9/1/2003	Member Contribution Rate 0.00%
9/1/2003	Benefit F55 (With 15 Years of Service)
9/29/1965	Covered by ACT 88
	Fiscal Month - January

Division 90 - Asst Pros Attnys

Provisions by Date

10/1/1998	6 Year Vesting
10/1/1998	Benefit B-4 (80% max)
10/1/1998	Benefit F55 (With 15 Years of Service)
4/1/1993	10 Year Vesting
4/1/1993	Benefit FAC-5 (5 Year Final Average Compensation)
4/1/1993	Benefit B-3 (80% max)

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 90 - Asst Pros Attnys

Provisions by Date

4/1/1993	Member Contribution Rate 1.40%
7/1/1992	Day of work defined as 4 Hours a Mnth for parttime employees
7/1/1992	Day of work defined as 8 Hours a Mnth for fulltime employees
1/1/1988	E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

Division 91 - Parks Union Empl

Provisions by Date

6/25/1996	Day of work defined as 4 Hours a Day for parttime employees
6/25/1996	Day of work defined as 8 Hours a Day for fulltime employees
7/1/1995	Benefit B-3 (80% max)
1/1/1995	10 Year Vesting
1/1/1995	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1995	Benefit C-1 (Old)
1/1/1995	Member Contribution Rate 0.00%
1/1/1988	E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

Division 92 - Parks Non Union

Provisions by Date

1/1/2002	Benefit FAC-3 (3 Year Final Average Compensation)
6/25/1996	Day of work defined as 4 Hours a Day for parttime employees
6/25/1996	Day of work defined as 8 Hours a Day for fulltime employees
7/1/1995	Benefit B-4 (80% max)
7/1/1995	Benefit F55 (With 25 Years of Service)
1/1/1995	10 Year Vesting
1/1/1995	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1995	Benefit C-1 (Old)
1/1/1995	Member Contribution Rate 0.00%
1/1/1988	E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

Ingham County (3303)

Table 25 (continued)

Benefit Provision History

Division 93 - Lgl Rsrch Clerks

Provisions by Date

1/1/1998	10 Year Vesting
1/1/1998	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1998	Benefit C-1 (Old)
1/1/1998	Member Contribution Rate 0.00%
6/25/1996	Day of work defined as 4 Hours a Mnth for parttime employees
6/25/1996	Day of work defined as 8 Hours a Mnth for fulltime employees
1/1/1988	E 2% COLA Adopted (01/01/1988)
12/16/1986	Blanket Resolution (All Service)
10/15/1980	Exclude Temporary Employees
9/29/1965	Covered by ACT 88
11/15/1950	Fiscal Month - January

APPENDIX

SUMMARY OF

PLAN PROVISIONS

AND

ACTUARIAL ASSUMPTIONS

AND

ACTUARIAL FUNDING METHOD

AS OF DECEMBER 31, 2007

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, 2007 actuarial valuation are those adopted by the Retirement Board. The actuarial assumptions were last revised as of December 31, 2004 to reflect the results of the study of plan experience covering the period from December 31, 1998 through December 31, 2003.

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 $\frac{1}{2}$ 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 refunded 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 (Plan Section 55)

The maximum benefit that may be paid by MERS is governed by Section 415 of the Internal Revenue Code (see page 204). Benefits in excess of the maximum benefit will be paid by the MERS Excess Benefit Plan under Plan Section 55A.

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 eligibility 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 204). 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 204). 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. Interest is credited to accumulated member contributions each December 31 (and reflected in the Annual Member Statement provided to each member) at a rate determined by MERS, currently the one-year U.S. Treasury Bill rate determined as of each December 1. The interest rate credited for the 12-month period ending on the valuation date was 3.19%.

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 (as described above) 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 (Plan Section 19A): 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 - 2008**

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#
35	\$ 32,748	\$ 185,000
36	34,625	185,000
37	36,623	185,000
38	38,751	185,000
39	41,019	185,000
40	43,439	185,000
41	46,022	185,000
42	48,782	185,000
43	51,735	185,000
44	54,895	185,000
45	58,283	185,000
46	61,918	185,000
47	65,822	185,000
48	70,022	185,000
49	74,544	185,000
50	79,422	185,000
51	84,691	185,000
52	90,390	185,000
53	96,565	185,000
54	103,268	185,000
55	110,557	185,000
56	118,500	185,000
57	127,171	185,000
58	136,657	185,000
59	147,060	185,000
60	158,493	185,000
61	171,088	185,000
62	185,000	185,000
63	185,000	185,000
64	185,000	185,000
65 & older	185,000	185,000

If individual has at least 15 years of service in a police or fire department or other department providing police, fire or emergency medical service (includes service in the Armed Forces). Otherwise, same as general employees.

IRC Section 401(a)(17) Compensation Limit - 2008

For 2008 the IRC Section 401(a)(17) limit is \$230,000. 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 pay increase to project member compensation in future years.

The actuarial assumptions used in connection with this December 31, 2007 actuarial valuation are unchanged from the December 31, 2006 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 2007 actuarial valuation, the net long-term investment yield is assumed to be 8%. This assumption was first used for the December 31, 1981 actuarial valuations.

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

The pay increase assumption for selected ages is shown below. The 4.5% wage inflation assumption was first used for the December 31, 1997 actuarial valuations. The merit and longevity pay increase assumption was first used for the December 31, 2004 actuarial valuations.

Age	Base (Wage Inflation)	Merit and Longevity	Total Percentage Increase in Pay
20	4.50%	8.40%	12.90%
25	4.50	5.33	9.83
30	4.50	3.26	7.76
35	4.50	2.05	6.55
40	4.50	1.30	5.80
45	4.50	0.81	5.31
50	4.50	0.52	5.02
55	4.50	0.30	4.80
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. This assumption was first used for the December 31, 1997 actuarial valuations.

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. These rates were first used for the December 31, 2000 actuarial valuations.

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 and on the next page. The Normal Retirement rates were first used for the December 31, 2000 actuarial valuations. The Early Retirement rates were first used for the December 31, 2004 actuarial valuations.

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

Retirement Ages	Percent of Eligible Active Members Retiring Within Next Year		
	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 PROVISION - F(N) ADOPTED

Age	Percent of Eligible Active Members Retiring Within Next Year	Age	Percent of Eligible Active Members Retiring Within Next Year	Age	Percent of Eligible Active Members Retiring Within Next Year
40	22%	51	22%	61	24%
41	22	52	22	62	24
42	22	53	22	63	24
43	22	54	24	64	27
44	22	55	18	65	30
45	22	56	14	66	30
46	22	57	16	67	30
47	22	58	18	68	30
48	22	59	18	69	30
49	22	60	20	70	100
50	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	2%
51	2
52	3
53	5
54	8
55	4
56	4
57	4
58	6
59	8

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. These rates were first used for the December 31, 2004 actuarial valuations.

Sample Ages	Percent Becoming Disabled Within Next Year
20	0.02%
25	0.02
30	0.02
35	0.06
40	0.06
45	0.11
50	0.24
55	0.41
60	0.41
65	0.41

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 a 50% Male - 50% Female blend of the 1994 Group Annuity Mortality Table. For disabled retirees, the regular mortality table is used with a 10-year set forward in ages to reflect the higher expected mortality rates of disabled members. These mortality tables were first used for the December 31, 2004 actuarial valuations.

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 for **non-disabled** members are shown below for selected ages:

Age	Expected Years of Life Remaining	Mortality Rates
20	61.55	0.04%
25	56.68	0.05
30	51.82	0.06
35	46.97	0.07
40	42.13	0.09
45	37.34	0.13
50	32.60	0.20
55	27.98	0.34
60	23.53	0.62
65	19.40	1.16
70	15.66	1.87
75	12.24	2.99
80	9.25	5.07

The life expectancies and mortality rates projected for **disabled** members are shown below for selected ages:

Age	Expected Years of Life Remaining	Mortality Rates
20	51.82	0.06%
25	46.97	0.07
30	42.13	0.09
35	37.34	0.13
40	32.60	0.20
45	27.98	0.34
50	23.53	0.62
55	19.40	1.16
60	15.66	1.87
65	12.24	2.99
70	9.25	5.07
75	6.81	8.25
80	4.85	13.46

Miscellaneous and Technical Assumptions

Loads	- None												
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	- None.												
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	- Future retiring members are assumed to elect: <table><tr><th><u>Form of Payment</u></th><th><u>Percentage</u></th></tr><tr><td>SL</td><td>45%</td></tr><tr><td>II</td><td>25</td></tr><tr><td>IIA</td><td>10</td></tr><tr><td>III</td><td>15</td></tr><tr><td>IV</td><td>5</td></tr></table>	<u>Form of Payment</u>	<u>Percentage</u>	SL	45%	II	25	IIA	10	III	15	IV	5
<u>Form of Payment</u>	<u>Percentage</u>												
SL	45%												
II	25												
IIA	10												
III	15												
IV	5												
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 (Police), 05 and 50-59 (Fire) are presumed eligible for the public safety benefit limits. No benefits in excess of the IRC section 415 limits are projected to be paid, except as provided under the Qualified Excess Benefit Arrangement, Plan Section 55A.												
Member Contribution Interest	- The interest rate credited on member contributions is the one-year Treasury Bill rate as of December 1, determined annually. The long-term rate assumed in the valuation is 4%, which is consistent with the 3% to 4% price inflation assumption.												

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 pay throughout each member's working lifetime. The funding method used in this actuarial valuation – the entry age normal cost method – is intended to i) meet this objective, and ii) result in a relatively level long-term contribution requirement as a percentage of pay. This actuarial method was first used for the December 31, 1993 actuarial valuations.

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-pay 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, 2007, 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

The unfunded actuarial accrued liability is projected to the beginning of the fiscal year for which employer contributions are being calculated (see page 181 for a description of the projection). The projected unfunded accrued liability is then 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 28 years for positive unfunded liabilities in the 2007 valuation. This period will be reduced by one year in each of the next eight annual valuations, reaching 20 years in the 2015 valuation. Beginning with the 2016 valuation the 20 year period will be reestablished with each annual valuation. Section 20m of Act No. 314 of the Public Acts of 1965 as amended (MCL 38.1140m) requires that the amortization period not exceed 30 years.

The standard amortization period for negative unfunded liabilities is 10 years, with the 10 year period reestablished with each annual actuarial valuation.

For divisions that are closed to new hires, and the new hires are not covered by MERS defined benefit provisions (in a linked division), the otherwise applicable MERS-wide standard amortization period for positive unfunded liabilities in effect in the valuation year in which the division is closed 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 the standard amortization period described above), plus ii) an overfunding credit resulting from using a 10 year amortization.

In calculating the annual required contribution (ARC) for reporting and disclosure purposes under Statement Nos. 25 and 27 of the Governmental Accounting Standards Board, the following amortization methods are used:

- A level percentage of payroll amortization is used, based on the amortization periods described in the previous paragraph and based on the assumption that payroll increases 4.5% per year.
- For divisions that are less than 100% funded and are closed to new hires (and new hires are not covered by MERS defined benefit provisions in a linked division), a 30-year level dollar amortization is used if it results in a higher amortization payment.

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, for valuation purposes only, 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 and non-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 benefits are assumed to commence at age 60).

Projections of Employer Contributions and Funded Percentage

The 20-year projections of employer contributions and funded percentages displayed in Chart 17.5 are based on the following assumptions:

- All demographic assumptions will be met during the projection period.
- The actuarial value of assets will earn the assumed 8% return each year during the projection period.
- There will be no benefit changes during the projection period.
- The employer contributions through January 1, 2009 are not affected, and are based on previous annual actuarial valuations.
- For open divisions (new hires are added to the division), the number of active members is assumed to remain constant.

The projected contribution amounts should not be used for short term budgeting purposes because the assumptions are designed to be a long term expectation of future events. These projections generally illustrate the pattern of employer contributions under current funding policies. A more precise projection of contribution rates for budgeting purposes would require additional short-term analysis, which is beyond the scope of this report.

Most open division projections (an open division is open to newly hired employees) will show a very gradual change, up or down, in the funded percentage toward 100% funding. For divisions that are currently less than 100% funded, the reader may be surprised at how long it takes to approach 100% funding. This happens because the standard amortization period for unfunded accrued liabilities, after declining to 20 years in the 2015 annual actuarial valuations, will be reset each year thereafter to a new 20 year period. This results in more stable employer contribution rates, but also a very gradual approach to 100% funding. Additional employer contributions would accelerate the funding progress.

A closed division (no new hires) that is not linked to an open division (see the next page for a discussion of linked divisions) and is less than 100% funded will have a projected employer contribution that increases each year for the first 11-12 years after closure. This results in a more rapid amortization of unfunded accrued liabilities and a more rapid increase in the division's funded percentage. This is necessary to ensure that the division has adequate assets to pay benefits.

A few open divisions will see a decline in the funded percentage. This is usually an open division with a very small number of active members (often only one) and a much larger number of retirees. Because the division is open to new hires, the standard amortization period is used. For many years this may result in a declining funded percentage, which may actually become negative temporarily, before the funded percentage begins to head up toward 100% funding. Negative assets means the division is temporarily borrowing from better funded divisions within the same municipality. Such a division should be considered a candidate for either merging with a different division, or an accelerated funding schedule.

A closed division (no new hires) that is linked to an open division within the same employee classification (with new hires – please refer to the next section on Linked Divisions) will typically show a projected funded percentage that declines and even becomes negative. This is an expected condition, because the linked closed division is allowed to share the assets of the linked open division. The closed division alone will run out of assets; however, the combined closed division and linked open division will not run out of assets and the combined funded percentage will head towards 100%.

A small number of divisions currently have negative assets, and a negative funded percentage. These are generally divisions for which many or most of the employees have been transferred to a different division, with the bulk of the assets also being transferred to the other division. Negative assets means the division is temporarily borrowing from better funded divisions within the same municipality. Such a division should be considered a candidate for either merging with a different division, or an accelerated funding schedule.

Some divisions are so well funded that no future employer contributions will be needed; assuming that there are no major changes in the covered participants, benefit provisions are not changed, and the actuarial assumptions are met. Assets substantially exceed present liabilities. The funded percentage will continue to increase during the projection period. Such a division may be a candidate for a reallocation of assets among other divisions, if appropriate.

Linked Divisions

The closed division funding policy described at the bottom of page 214 was adopted by the Retirement Board (Amortization Policy for Closed Divisions Within Open Municipalities, as revised by the Retirement Board on May 8, 2007). The purpose is to ensure that a defined benefit (DB) division that is closed to new hires does not run out of money. Funding the unfunded liabilities over

the MERS standard amortization period will likely deplete a closed division's assets before the death of the last participant in the division. Assets cannot be shared between the closed DB division and the defined contribution (DC) plan covering the new hires, or a non-MERS DB plan covering the new hires, even if the employees are part of the same employee classification (bargaining unit).

However, if the new hires are covered by a new tier of benefits in the MERS DB Plan (including the DB portion of the MERS Hybrid Plan), there can be a sharing of employer assets between the closed DB division with the old benefit structure and the DB/Hybrid division covering the new hires within the same employee classification. The employer can avoid the required more rapid amortization of the unfunded liabilities by putting new hires into a MERS DB or MERS Hybrid division, instead of a DC plan or non-MERS DB plan.

If a closed division is "linked" to an open MERS DB division, this is indicated in Table 1, and also in the footnote to Table 16. Both the closed division and the linked open division will use the standard open division funding policy.

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 10-year period at the rate of 10% per year. This asset valuation method was first adopted for the December 31, 2005 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 10% of the current year's gain (loss) plus 10% of the gain (loss) from each of the 9 preceding years. The cumulative difference between the market value and valuation assets as of December 31, 2005 is recognized over 9 years.

During 2007, 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 8.12%. The corresponding amounts for 2006, 2005, 2004, and 2003 were 8.14%, 6.51%, 6.82%, and 8.00%, respectively.

For the December 31, 2007 valuation, the actuarial value of assets is equal to 98.85% of market value (compared to 98.62%, 102.71%, 102.45%, and 109.52% in 2006, 2005, 2004, and 2003, 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 220 provides the details of the derivation of the actuarial value of assets for the retirement system in the aggregate.

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

Valuation Date December 31:	2006	2007	2008	2009	2010
1. Beginning of Year Assets					
a) Market Value	\$ 4,906,288,690	\$ 5,590,042,317			
b) Valuation Assets	5,039,071,709	5,512,924,466			
2. End of Year Market Value Assets	5,590,042,317	6,071,046,914			
3. Net Additions to Market Value					
a) Net Contributions	371,505,157	386,942,952			
b) Net Investment Income = (3d) - (3a) - (3c)	622,409,716	442,377,206			
c) Benefit Payments	(310,161,246)	(348,315,561)			
d) Total Additions to Market Value = (2) - (1a)	683,753,627	481,004,597			
4. Average Valuation Assets = (1b) + .5x[(3a) + (3c)]	5,069,743,665	5,532,238,162			
5. Expected Income at Valuation Rate = 8% x (4)	405,579,493	442,579,053			
6. Gain (Loss) = (3b) - (5)	216,830,223	(201,847)			
7. Phased-In Recognition of Investment Return					
a) Current Year: 0.1 x (6)	21,683,022	(20,185)			
b) First Prior Year	(14,753,669)	21,683,022	(20,185)		
c) Second Prior Year		(14,753,669)	21,683,022	(20,185)	
d) Third Prior Year			(14,753,669)	21,683,022	(20,185)
e) Fourth Prior Year				(14,753,669)	21,683,022
f) Fifth Prior Year					(14,753,669)
g) Sixth Prior Year					
h) Seventh Prior Year					
i) Eighth Prior Year					
j) Ninth Prior Year					
k) Total Recognized Investment Gain (Loss)	6,929,353	6,909,168	6,909,168	6,909,168	6,909,168
8. Change in Valuation Assets (3a) + (3c) + (5) + (7k)	473,852,757	488,115,612			
9. End of Year Assets					
a) Market Value = (2)	5,590,042,317	6,071,046,914			
b) Valuation Assets = (1b) + (8)	5,512,924,466	6,001,040,078			
c) Difference Between Market & Valuation Assets	77,117,851	70,006,836			
10. Recognized Rate of Return = [(5) + (7k)] / (4)	8.14%	8.12%			
11. Market Rate of Return	12.61%	7.89%			
12. Valuation Asset Adjustment Factor = (9b) / (9a)	0.986204	0.988469			

Municipal Employees' Retirement System of Michigan
Derivation of Actuarial Value of Assets (cont.)

Valuation Date December 31:	2001	2002	2003	2004	2005
1. Beginning of Year Assets					
a) Market Value	\$ 3,788,886,471	\$ 3,647,820,869	\$ 3,285,304,333	\$ 4,071,997,180	\$ 4,619,201,287
b) Valuation Assets	3,791,423,339	4,034,377,419	4,134,404,645	4,459,492,020	4,732,208,229
2. End of Year Market Value Assets	3,647,820,869	3,285,304,333	4,071,997,180	4,619,201,287	4,906,288,690
3. Net Additions to Market Value					
a) Net Contributions	154,103,475	167,427,558	223,450,393	223,057,268	277,589,524
b) Net Investment Income = (3d) - (3a) - (3c)	(93,269,286)	(324,926,459)	792,139,959	577,562,751	288,223,418
c) Benefit Payments	(201,899,791)	(205,017,635)	(228,897,505)	(253,415,912)	(278,725,539)
d) Total Additions to Market Value = (2) - (1a)	(141,065,602)	(362,516,536)	786,692,847	547,204,107	287,087,403
4. Average Valuation Assets = (1b) + .5x[(3a) + (3c)]	3,767,525,181	4,015,582,381	4,131,681,089	4,444,312,698	4,731,640,222
5. Expected Income at Valuation Rate = 8% x (4)	301,402,014	321,246,590	330,534,487	355,545,016	378,531,218
6. Gain (Loss) = (3b) - (5)	(394,671,300)	(646,173,049)	461,605,472	222,017,735	(90,307,800)
7. Phased-In Recognition of Investment Return					
a) Current Year: 0.2 x (6)	(78,934,260)	(129,234,610)		44,403,547	(18,061,560)
b) First Prior Year	(79,670,266)	(78,934,260)			44,403,547
c) Second Prior Year	63,981,441	(79,670,266)			
d) Third Prior Year	40,228,410	63,981,441			
e) Fourth Prior Year	43,743,057	40,228,408			
f) 1999-2003 Years Combined	N/A	N/A	0	(96,873,710)	(96,873,710)
g) Total Recognized Investment Gain (Loss)	(10,651,618)	(183,629,287)	0	(52,470,163)	(70,531,723)
8. Change in Valuation Assets (3a) + (3c) + (5) + (7g)	242,954,080	100,027,226	325,087,375	272,716,209	306,863,480
9. End of Year Assets					
a) Market Value = (2)	3,647,820,869	3,285,304,333	4,071,997,180	4,619,201,287	4,906,288,690
b) Valuation Assets = (1b) + (8)	4,034,377,419	4,134,404,645	4,459,492,020	4,732,208,229	5,039,071,709
c) Difference Between Market & Valuation Assets	(386,556,550)	(849,100,312)	(387,494,840)	(113,006,942)	(132,783,019)
10. Recognized Rate of Return = [(5) + (7g)] / (4)	7.72%	3.43%	8.00%	6.82%	6.51%
11. Market Rate of Return	(2.48%)	(8.95%)	24.13%	14.24%	6.24%
12. Valuation Asset Adjustment Factor = (9b) / (9a)	1.105969	1.258454	1.095161	1.024465	1.027064



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MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN

ANNUAL ACTUARIAL VALUATION REPORT

INGHAM COUNTY (3303)

DECEMBER 31, 2007