



Municipal Employees' Retirement System  
of Michigan

**MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN**

ANNUAL ACTUARIAL VALUATION REPORT

SAGINAW COUNTY (7303)

DECEMBER 31, 2008



June 22, 2009

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, 2008. The report includes the determination of liabilities and contribution rates resulting from the participation of Saginaw 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, as amended, and is an instrumentality of the participating municipalities and courts. Saginaw 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.

For this annual actuarial valuation, the Retirement Board adopted new actuarial assumptions and/or methods. Please refer to page 178 for an explanation of the Board's action.

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

To the best of our knowledge, this report is complete and accurate and was made in accordance with generally recognized actuarial methods in compliance with Act No. 220 of the Public Acts of 1996, as amended, and the MERS Plan Document as revised. All of the undersigned are Members of the American Academy of Actuaries (MAAA) 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 review the Comments on the Investment Markets on page 3.**

**This report may be provided to other interested parties only in its entirety and only with the prior permission of MERS and the municipality.**

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

# TABLE OF CONTENTS

	<b>Page</b>
Executive Summary	2
Table 1 Benefit Provisions Evaluated and/or Considered	5
Table 2 Membership Summary	12
Table 3 Active Members in the Valuation - Comparative Schedule	15
Table 4 Flow of Active Membership	15
Table 5 Vested Former Members in the Valuation - Comparative Schedule	16
Table 6 Flow of Vested Former Members	16
Table 7 Retirees and Beneficiaries in the Valuation - Comparative Schedule	17
Table 8 Flow of Retirees and Beneficiaries	17
Table 9 Retirees and Beneficiaries on the Rolls - by Type of Benefit	18
Table 10 Reported Assets (Market Value)	19
Table 11 Flow of Valuation Assets (Actuarial Value)	20
Table 12 Termination Liabilities and Present Value of Accrued Benefits	21
Table 13 Actuarial Accrued Liabilities and Valuation Assets	25
Table 14 Actuarial Accrued Liabilities - Comparative Schedule	33
Table 15 Computed Employer Contributions to the Retirement System	34
Table 16 Computed Employer Contributions by Division	36
Table 17 Computed Contributions - Comparative Statement by Division	37
Chart 17.5 Projected Contributions and Funded Percent by Division	38
Table 18 Flow of Active Membership by Division	39
Table 19 Flow of Vested Former Members by Division	39
Table 20 Flow of Retirees and Beneficiaries by Division	40
Table 21 Flow of Valuation Assets (Actuarial Value) by Division	41
Table 22 Actuarial Accrued Liabilities - Comparative Schedule by Division	41
Table 23 GASB 25 and GASB 27 Information	162
Table 24 Development of Projected Unfunded Accrued Liability	163
Table 25 Benefit Provision History	164
Appendix Summary of MERS Provisions, Methods and Assumptions	177
Introduction	178
Summary of Plan Provisions - Defined Benefit Plan	179
Summary of Plan Provisions - Hybrid Plan	186
Actuarial Assumptions	190
Actuarial Funding Method	199
Asset Valuation Method	205

# Saginaw County (7303)

## Executive Summary

### Required Employer Contributions

The computed minimum required employer contributions to the retirement system for the fiscal years beginning October 1, 2010 (2008 Valuation) and October 1, 2009 (2007 Valuation) are as follows:

Division	Minimum Required Monthly Employer Contributions @			
	Percentage of Payroll		\$ Based on Valuation Payroll	
	2008 Valuation	2007 Valuation	2008 Valuation	2007 Valuation
01 - General #	-%	-%	\$45,027	\$34,152
02 - Sheriff POAM #	-%	-%	44,048	37,574
09 - UAW Managers #	-%	-%	82,298	51,074
10 - UAW Professional #	-%	-%	24,076	18,457
11 - Gnrl Local486 #	-%	-%	8,774	7,734
13 - Sheriff/Cooks #	-%	-%	4,017	3,466
14 - Nurses #	-%	-%	3,965	4,989
15 - Hlth Dept #	-%	-%	21,152	17,031
16 - Elctd Commsnrs #	-%	-%	3,179	2,347
17 - Animal Control #	-%	-%	1,870	2,671
18 - Judges #	-%	-%	1,469	1,857
19 - Dist Judges #	-%	-%	2,372	2,139
20 - Sheriff FOP #	-%	-%	16,958	12,663
21 - Shrff/Lts/Capts #	-%	-%	8,361	6,217
23 - P.O.A.M. Non 312 #	-%	-%	20,886	15,523
91 - Juvenile Probtn #	-%	-%	2,533	2,198
92 - Dist Court Prob #	-%	-%	2,460	1,636
93 - Pros Attys Union #	-%	-%	7,647	7,159
94 - Upper Management #	-%	-%	13,724	10,830
95 - NonUnion Mgmnt #	-%	-%	1,580	686
96 - UAW Para prof. #	-%	-%	3,225	2,398
<b>Total Municipality</b>			<b>\$319,621</b>	<b>\$242,801</b>

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

# This division will not have new hires. Invoices will be based on the dollar contribution amounts shown in this table.

**Please see the Comments on the Investment Markets on page 3.**

For additional details see Table 15.

It is important to note that the contribution rates shown above are not expected to remain at

# **Saginaw County (7303)**

## **Executive Summary (continued)**

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 and are not linked to an open division, the computed employer dollar contribution would increase 4%-8% annually, until full funding is reached. The required employer contribution for such 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).

The 2008 valuation reflects changes in actuarial assumptions and/or methods (please refer to page 178). The effects of the changes are shown in the note below Table 16 for each division. For benefit provision changes see Table 1.

### **2008 System Experience**

Based on the smoothed Actuarial Value of Assets, the recognized rate of investment return for MERS overall was 4.7% (less than the 8% actuarial assumption). On average this will result in increases in 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.

### **2008 Funded Position**

The ratio of the Valuation Assets to the Actuarial Accrued Liability for Saginaw County in aggregate is 71%; last year's ratio was 77%.

### **Comments on the Investment Markets**

The dramatic price declines across the world financial markets in 2008 led to volatility unlike any experienced in decades. 2009 has continued to be only somewhat less volatile. This is a crisis of the global economy focused on the financial sector. The U.S. government and business leaders are doing all they can to address the issues. Even so, it is going to be difficult in the short term to meet the investment assumption of 8% annual return.

# Saginaw County (7303)

## Executive Summary (continued)

The actuarial value of assets (funding value), used to determine both your funded status and your required employer contribution, is based on a 10-year smoothed value of assets. Only a portion (one-tenth) of the 2008 investment market losses were recognized in this actuarial valuation report. This reduces the volatility of the valuation results, which affects your required employer contribution and actuarial funded percentage.

As of December 31, 2008 the actuarial value of assets is 139% of market value. This means that meeting the actuarial assumption in the next few years will require average annual market returns that substantially exceed the 8% investment return assumption.

If the December 31, 2008 valuation results were based on market value on that date instead of 10-year smoothed funding value: i) the funded percent of your entire municipality would be 51% (instead of 71%); and ii) your total employer contribution requirement for the fiscal year starting October 1, 2010 would be \$6,308,988 (instead of \$3,835,452). If the investment markets do not turn around, employer contribution requirements can be expected to rise. MERS is doing everything it can to make sure that if this proves to be the case, the increases are incremental as opposed to steep.

Remember that only one-tenth of the 2008 market losses are reflected in this actuarial valuation report. As was true for past market downturns, MERS expects the markets to rebound over time. By the time the 2008 market losses would be fully recognized (over the following 9 years), future market gains are expected to partly or fully offset 2008 market losses. This smoothing method is a powerful tool for reducing the volatility of your required employer contributions. However, if the financial markets do not rebound, the result would be gradual increases in your employer contribution requirement over the next 9 years (as described above).

### **Possible Future Changes in Actuarial Assumptions**

Actuarial assumptions are reviewed every five years, and sometimes more often. The next review of MERS actuarial assumptions will begin in July 2009, and will cover the 2004-2008 valuation years. All areas of activity will be studied, and it is very likely that there will be new actuarial assumptions reflected in the December 31, 2009 and December 31, 2010 valuations. As done in February 2009, MERS expects to provide employers with updates concerning pending new actuarial assumptions and the ongoing effects of the financial markets.

**Comment on Actuarial Calculations - The projections of your future employer contributions in this report are based on the current actuarial assumptions used in the December 31, 2008 actuarial valuation. As always, your required employer contribution rate changes every year, in response to demographic changes, financial experience, benefit provision changes, etc, within your specific plan. The results of future actuarial valuations will differ from the projections, sometimes materially.**

# Saginaw County (7303)

## Table 1

### Benefit Provisions Evaluated and/or Considered

Division	2008 Valuation	2007 Valuation
01 - General#	B-4 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 E (2.0%) (01/01/1989) 3.88% Member Contrib. DC Plan for New Hires (01/01/2000) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 E (2.0%) (01/01/1989) 3.88% Member Contrib. DC Plan for New Hires (01/01/2000) Act 88 Election (10/19/1965)
02 - Sheriff POAM#	B-4 - 80% Max Normal Ret Age: 60 V-6 F/N(25) FAC-5 E (2.0%) (01/01/1989) E-2 (2.5%) (01/01/1995) 4.00% Member Contrib. DC Plan for New Hires (09/30/2000) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F/N(25) FAC-5 E (2.0%) (01/01/1989) E-2 (2.5%) (01/01/1995) 4.00% Member Contrib. DC Plan for New Hires (09/30/2000) Act 88 Election (10/19/1965)
09 - UAW Managers#	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1989) E-2 (2.5%) (06/01/2005) 3.20% Member Contrib. DC Plan for New Hires (03/01/1998) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1989) E-2 (2.5%) (06/01/2005) 3.20% Member Contrib. DC Plan for New Hires (03/01/1998) Act 88 Election (10/19/1965)

# Saginaw County (7303)

## Table 1 (continued)

### Benefit Provisions Evaluated and/or Considered

Division	2008 Valuation	2007 Valuation
10 - UAWProfessional#	B-3 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(15) FAC-5 E (2.0%) (01/01/1989) 0.00% Member Contrib. DC Plan for New Hires (03/01/1998) Act 88 Election (10/19/1965)	B-3 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(15) FAC-5 E (2.0%) (01/01/1989) 0.00% Member Contrib. DC Plan for New Hires (03/01/1998) Act 88 Election (10/19/1965)
11 - Gnrl Local486#	B-3 - 80% Max Normal Ret Age: 60 V-6 F55(20) FAC-5 E (2.0%) (01/01/1989) 0.00% Member Contrib. DC Plan for New Hires (09/30/2000) Act 88 Election (10/19/1965)	B-3 - 80% Max Normal Ret Age: 60 V-6 F55(20) FAC-5 E (2.0%) (01/01/1989) 0.00% Member Contrib. DC Plan for New Hires (09/30/2000) Act 88 Election (10/19/1965)
13 - Sheriff/Cooks#	B-4 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 E (2.0%) (01/01/1989) 1.00% Member Contrib. DC Plan for New Hires (09/30/2000) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 E (2.0%) (01/01/1989) 1.00% Member Contrib. DC Plan for New Hires (09/30/2000) Act 88 Election (10/19/1965)
14 - Nurses#	B-3 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 E (2.0%) (01/01/1989) 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)	B-3 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 E (2.0%) (01/01/1989) 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)



# Saginaw County (7303)

## Table 1 (continued)

### Benefit Provisions Evaluated and/or Considered

Division	2008 Valuation	2007 Valuation
15 - Hlth Dept#	B-3 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)	B-3 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)
16 - Elctd Commsnrs#	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-3 E (2.0%) (01/01/1989) E-2 (2.5%) (01/01/1995) 0.00% Member Contrib. DC Plan for New Hires (03/01/1998) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-3 E (2.0%) (01/01/1989) E-2 (2.5%) (01/01/1995) 0.00% Member Contrib. DC Plan for New Hires (03/01/1998) Act 88 Election (10/19/1965)
17 - Animal Control#	B-3 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 E (2.0%) (01/01/1989) 0.00% Member Contrib. DC Plan for New Hires (01/01/2000) Act 88 Election (10/19/1965)	B-3 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 E (2.0%) (01/01/1989) 0.00% Member Contrib. DC Plan for New Hires (01/01/2000) Act 88 Election (10/19/1965)

# Saginaw County (7303)

## Table 1 (continued)

### Benefit Provisions Evaluated and/or Considered

Division	2008 Valuation	2007 Valuation
18 - Judges#	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1989) E-2 (2.5%) (04/01/2001) 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1989) E-2 (2.5%) (04/01/2001) 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)
19 - Dist Judges#	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1989) E-2 (2.5%) (04/01/2001) 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1989) E-2 (2.5%) (04/01/2001) 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)
20 - Sheriff FOP#	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1989) 0.00% Member Contrib. DC Plan for New Hires (01/01/2000) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1989) 0.00% Member Contrib. DC Plan for New Hires (01/01/2000) Act 88 Election (10/19/1965)

# Saginaw County (7303)

## Table 1 (continued)

### Benefit Provisions Evaluated and/or Considered

Division	2008 Valuation	2007 Valuation
21 - Shrff/Lts/Capts#	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1989) E-2 (2.5%) (01/01/2001) 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E (2.0%) (01/01/1989) E-2 (2.5%) (01/01/2001) 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)
23 - P.O.A.M. Non 312#	B-4 - 80% Max Normal Ret Age: 60 V-6 F/N(25) FAC-5 E-2 (2.5%) (12/01/1999) 4.00% Member Contrib. DC Plan for New Hires (09/30/2000) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F/N(25) FAC-5 E-2 (2.5%) (12/01/1999) 4.00% Member Contrib. DC Plan for New Hires (09/30/2000) Act 88 Election (10/19/1965)
91 - Juvenile Probtn#	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(20) F/N(25) FAC-5 E (2.0%) (01/01/1989) 3.45% Member Contrib. DC Plan for New Hires (09/30/2000) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(20) F/N(25) FAC-5 E (2.0%) (01/01/1989) 3.45% Member Contrib. DC Plan for New Hires (09/30/2000) Act 88 Election (10/19/1965)
92 - Dist Court Prob#	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(20) F/N(25) FAC-5 E (2.0%) (01/01/1989) 3.84% Member Contrib. DC Plan for New Hires (01/01/2000) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(20) F/N(25) FAC-5 E (2.0%) (01/01/1989) 3.84% Member Contrib. DC Plan for New Hires (01/01/2000) Act 88 Election (10/19/1965)

# Saginaw County (7303)

## Table 1 (continued)

### Benefit Provisions Evaluated and/or Considered

Division	2008 Valuation	2007 Valuation
93 - Pros Attys Union#	B-3 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)	B-3 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(20) FAC-5 0.00% Member Contrib. DC Plan for New Hires (01/01/1999) Act 88 Election (10/19/1965)
94 - Upper Management#	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-3 RS50% E-2 (2.5%) (02/01/1999) 0.00% Member Contrib. DC Plan for New Hires (06/20/2006) Act 88 Election (10/19/1965)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-3 RS50% E-2 (2.5%) (02/01/1999) 0.00% Member Contrib. DC Plan for New Hires (06/20/2006) Act 88 Election (10/19/1965)
95 - NonUnion Mgmt#	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E-2 (2.5%) (10/01/2005) 0.00% Member Contrib. DC Plan for New Hires (06/20/2006) Act 88 Election (10/01/2005)	B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) F/N(25) FAC-5 E-2 (2.5%) (10/01/2005) 0.00% Member Contrib. DC Plan for New Hires (06/20/2006) Act 88 Election (10/01/2005)
96 - UAW Para prof.#	B-4 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(15) FAC-5 4.34% Member Contrib. DC Plan for New Hires (06/20/2006)	B-4 - 80% Max Normal Ret Age: 60 V-6 F50(25) F55(15) FAC-5 4.34% Member Contrib. DC Plan for New Hires (06/20/2006)

# This division is closed to new hires, so the closed division amortization policy applies. Please refer to the Amortization of Unfunded

# Saginaw County (7303)

## Table 1 (continued)

### **Benefit Provisions Evaluated and/or Considered**

*Actuarial Accrued Liability on page 200.*

# Saginaw County (7303)

## Table 2

### Membership Summary

Division	2008 Valuation		2007 Valuation	
	Number	Annual Payroll*	Number	Annual Payroll*
01 - General				
Active Members	33	\$1,161,510	49	\$1,663,682
Vested Former Members	21	115,673	22	121,842
Retirees and Beneficiaries	181	1,613,794	172	1,287,051
02 - Sheriff POAM				
Active Members	9	\$556,792	16	\$1,051,611
Vested Former Members	10	85,091	10	85,149
Retirees and Beneficiaries	64	1,305,581	57	1,055,484
09 - UAW Managers				
Active Members	19	\$1,138,639	31	\$1,823,338
Vested Former Members	7	93,288	8	120,869
Retirees and Beneficiaries	72	2,244,928	57	1,546,430
10 - UAW Professional				
Active Members	9	\$499,823	18	\$920,299
Vested Former Members	18	94,906	20	108,609
Retirees and Beneficiaries	51	814,981	42	596,671
11 - Gnrl Local486				
Active Members	6	\$231,803	10	\$404,372
Vested Former Members	2	19,563	2	15,718
Retirees and Beneficiaries	11	204,505	7	122,057
13 - Sheriff/Cooks				
Active Members	2	\$65,922	5	\$193,655
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	6	99,333	3	26,052
14 - Nurses				
Active Members	3	\$146,401	6	\$288,478
Vested Former Members	3	31,248	3	17,336
Retirees and Beneficiaries	16	259,636	14	215,035
15 - Hlth Dept				
Active Members	17	\$570,302	27	\$928,261
Vested Former Members	12	53,927	12	49,319
Retirees and Beneficiaries	59	618,177	51	429,313

# Saginaw County (7303)

## Table 2 (continued)

### Membership Summary

Division	2008 Valuation		2007 Valuation	
	Number	Annual Payroll*	Number	Annual Payroll*
16 - Elctd Commsnrs				
Active Members	2	\$32,688	4	\$60,095
Vested Former Members	5	18,178	6	19,301
Retirees and Beneficiaries	12	124,057	9	109,645
17 - Animal Control				
Active Members	2	\$82,737	2	\$90,340
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	3	55,050	4	66,036
18 - Judges				
Active Members	2	\$54,868	3	\$82,302
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	5	53,086	5	52,760
19 - Dist Judges				
Active Members	3	\$82,302	3	\$82,302
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	4	51,384	4	50,997
20 - Sheriff FOP				
Active Members	8	\$556,083	11	\$721,835
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	15	529,035	12	404,704
21 - Shrff/Lts/Capts				
Active Members	1	\$71,891	2	\$143,928
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	8	292,766	7	229,666
23 - P.O.A.M. Non 312				
Active Members	6	\$338,658	12	\$693,801
Vested Former Members	1	9,062	1	9,062
Retirees and Beneficiaries	17	468,002	11	246,623
91 - Juvenile Probtn				
Active Members	1	\$50,064	1	\$48,971
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	4	104,311	4	104,311

# Saginaw County (7303)

## Table 2 (continued)

### Membership Summary

Division	2008 Valuation		2007 Valuation	
	Number	Annual Payroll*	Number	Annual Payroll*
92 - Dist Court Prob				
Active Members	3	\$151,163	3	\$143,756
Vested Former Members	1	4,713	1	4,713
Retirees and Beneficiaries	1	30,043	1	30,043
93 - Pros Attys Union				
Active Members	6	\$477,852	7	\$551,261
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	2	46,554	2	46,554
94 - Upper Management				
Active Members	5	\$560,090	7	\$785,865
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	5	168,827	3	88,334
95 - NonUnion Mgmnt				
Active Members	0	0	1	\$62,066
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	1	46,658	0	0
96 - UAW Para prof.				
Active Members	2	\$91,310	4	\$166,460
Vested Former Members	0	0	0	0
Retirees and Beneficiaries	4	80,768	2	35,641
<b>Total Municipality</b>				
<b>Active Members</b>	<b>139</b>	<b>\$6,920,898</b>	<b>222</b>	<b>\$10,906,678</b>
<b>Vested Former Members</b>	<b>80</b>	<b>525,649</b>	<b>85</b>	<b>551,918</b>
<b>Retirees and Beneficiaries</b>	<b><u>541</u></b>	<b><u>9,211,476</u></b>	<b><u>467</u></b>	<b><u>6,743,407</u></b>
<b>Total Participants</b>	<b>760</b>		<b>774</b>	

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



## Saginaw County (7303)

### Table 3

#### Active Members in the Valuation - Comparative Schedule

Valuation Date 12/31	Number	Annual Payroll	Average Pay		Average Age	Average Benefit Service*	Average Eligibility Service*
			Annual \$	% Increase			
1998	436	\$ 15,427,345	\$ 35,383	7.5%	46.4	15.4	
1999	409	14,459,362	35,352	(0.1)	47.0	16.1	
2000	370	13,911,080	37,597	6.4	47.7	17.0	
2001	343	13,636,683	39,757	5.7	48.4	17.6	17.8
2002	315	13,083,241	41,534	4.5	49.0	18.3	18.5
2003	302	13,005,956	43,066	3.7	49.8	19.0	19.2
2004	284	12,470,470	43,910	2.0	50.5	19.8	19.8
2005	264	12,113,877	45,886	4.5	51.1	20.7	20.7
2006	246	11,662,175	47,407	3.3	51.6	21.3	21.4
2007	222	10,906,678	49,129	3.6	52.1	22.4	22.4
2008	139	6,920,898	49,791	1.3	52.5	21.5	21.6

\* See description on page 197.

### 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	(15)	(2)		(8)	(5)	(3)	6	343
2002	(24)			(5)	(1)		2	315
2003	(16)			(3)		1	5	302
2004	(17)			(1)	(1)		1	284
2005	(15)			(5)	(1)		1	264
2006	(19)			(1)			2	246
2007	(18)	(2)	(1)	(2)	(1)			222
2008	(76)		(2)	(3)		(2)		139

\* Net transfers can include members transferring to a Defined Contribution plan or members who transfer between divisions and subsequently retire or terminate within the same plan year.

## Saginaw County (7303)

### Table 5

#### Vested Former Members in the Valuation - Comparative Schedule

Valuation Date 12/31	Number	Annual Deferred Benefits	Average Age	Average Benefit Service*	Average Eligibility Service*
1998	83	\$			
1999	83				
2000	78				
2001	85	523,819	47.7	10.4	11.5
2002	87	578,665	47.3	10.5	11.9
2003	80	519,212	47.5	10.4	11.7
2004	83	545,823	48.2	10.3	11.5
2005	88	600,465	49.0	10.3	11.7
2006	84	552,934	49.7	10.1	11.5
2007	85	551,918	50.1	10.0	11.4
2008	80	525,649	50.6	10.2	11.7

\* See description on page 197.

### 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	(2)			(3)		12	85
2002	(3)	(1)		(1)		7	87
2003	(6)			(3)	(1)	3	80
2004						3	83
2005	(1)					6	88
2006	(2)	(2)		(1)		1	84
2007	(5)			(1)		7	85
2008	(5)			(3)		3	80

## Saginaw County (7303)

### 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		
1998		\$		\$	339	\$ 3,020,874	1.3	19.6%
1999					355	3,299,808	1.2	22.8
2000					369	3,677,199	1.0	26.4
2001	324	3,593,671	56	364,045	380	3,957,716	0.9	29.0
2002	340	4,114,983	57	370,799	397	4,485,782	0.8	34.3
2003	356	4,493,179	60	378,967	416	4,872,146	0.7	37.5
2004	371	4,971,025	61	396,543	432	5,367,568	0.7	43.0
2005	379	5,289,388	61	435,637	440	5,725,025	0.6	47.3
2006	388	5,796,764	61	452,007	449	6,248,771	0.5	53.6
2007	401	6,236,533	66	506,874	467	6,743,407	0.5	61.8
2008	472	8,646,506	69	564,970	541	9,211,476	0.3	133.1

### 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
1998	38	\$ 572,794	\$	(16)	\$ (99,616)	\$	339	\$ 3,020,874
1999	24	305,912		(8)	(26,978)		355	3,299,808
2000	24	446,413		(10)	(69,021)		369	3,677,199
2001	22	335,136	12,831	(11)	(40,004)	(27,448)	380	3,957,716
2002	30	569,999	13,623	(13)	(55,267)	(289)	397	4,485,782
2003	26	460,752	18,723	(7)	(39,945)	(53,166)	416	4,872,146
2004	21	517,185	22,611	(5)	(30,643)	(13,731)	432	5,367,568
2005	20	401,144	31,423	(12)	(75,110)		440	5,725,025
2006	23	568,054	31,098	(14)	(74,394)	(1,012)	449	6,248,771
2007	31	595,911	31,938	(13)	(130,290)	(2,923)	467	6,743,407
2008	87	2,511,343	57,235	(13)	(90,190)	(10,319)	541	9,211,476

@ 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.

# Saginaw County (7303)

## Table 9

### Retirees and Beneficiaries on the Rolls as of December 31, 2008

#### Distribution by Type of Benefit Being Paid

Benefits Being Paid to:	Annual Benefits	
	Number	Amount
Age and service retirants	436	\$8,272,068
Non-duty disability retirants	28	284,862
Duty disability retirants	8	89,576
Beneficiaries of deceased retirants	51	360,095
Beneficiaries of deceased members:		
Non-duty death	17	200,181
Duty death	<u>1</u>	<u>4,694</u>
Total Benefits Being Paid	541	\$9,211,476

# Saginaw County (7303)

## Table 10

### Reported Assets (Market Value)

Division	2008 Valuation		2007 Valuation	
	Employer And Retiree*	Employee#	Employer And Retiree*	Employee#
01 - General	\$ 10,178,357	\$ 415,012	\$ 14,626,792	\$ 569,047
02 - Sheriff POAM	8,427,595	577,339	11,708,250	896,830
09 - UAW Managers	16,431,100	405,600	21,510,454	949,982
10 - UAW Professional	5,587,906	232,478	8,171,316	454,255
11 - Gnrl Local486	1,409,708	28,882	1,936,737	121,519
13 - Sheriff/Cooks	566,073	11,753	753,556	75,510
14 - Nurses	1,772,128	7,341	2,468,210	9,676
15 - Hlth Dept	4,344,863	106,629	6,196,332	192,774
16 - Elctd Commsnrs	779,391	17,659	1,168,918	34,391
17 - Animal Control	528,114	6,305	730,374	6,305
18 - Judges	419,362	65,436	807,143	93,376
19 - Dist Judges	563,323	50,484	813,770	50,118
20 - Sheriff FOP	4,321,323	220,304	5,958,563	216,714
21 - Shrff/Lts/Capts	2,118,812	0	2,857,717	65,574
23 - P.O.A.M. Non 312	3,202,065	330,935	4,608,511	486,620
91 - Juvenile Probtn	698,829	9,817	977,051	7,883
92 - Dist Court Prob	545,671	57,685	790,335	51,504
93 - Pros Attys Union	1,162,298	106,594	1,983,966	43,213
94 - Upper Management	2,082,811	345,966	2,956,079	704,060
95 - NonUnion Mgmt	259,885	0	341,171	37,733
96 - UAW Para prof.	625,193	17,763	906,936	23,995
<b>Total Municipality</b>	<b>\$ 66,024,807</b>	<b>\$ 3,013,982</b>	<b>\$ 92,272,181</b>	<b>\$ 5,091,079</b>
<b>Combined Reserves</b>	<b>\$69,038,789</b>		<b>\$97,363,260</b>	

\* Reserve for Employer Contributions and Benefit Payments

# Reserve for Employee Contributions

The December 31, 2008 Valuation Assets are equal to 1.391482 times the reported Market Value of assets. The derivation of Valuation Assets is described on page 205.

# Saginaw County (7303)

## 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	\$ 2,250,194	\$ 86,665	\$ 5,508,502	\$ (3,795,500)	\$ (41,594)	\$ (87,470)	\$ 76,976,633
2002	2,208,495	105,947	2,517,049	(4,094,304)	(9,942)	591,781	78,295,659
2003	2,220,294	104,421	5,809,653	(4,674,339)	(5,018)	625,226	82,375,896
2004	2,295,040	96,460	5,384,627	(5,042,833)	(9,849)	239,126	85,338,467
2005	2,393,756	84,348	5,351,532	(5,526,819)	(51,759)	329,837	87,919,362
2006	2,718,336	216,719	6,996,640	(5,982,593)	(2,893)	68,448	91,934,019
2007	3,042,832	220,975	7,437,289	(6,482,434)	(4,111)	91,996	96,240,566
2008	3,161,891	187,842	3,863,205	(7,805,116)	(3,575)	421,418	96,066,231

# Saginaw County (7303)

## Table 12

### Termination Liability and Present Value of Accrued Benefits as of December 31, 2008

Termination Liability*	Term. Liability % Funded	Division	PVAB* Present Value of Accrued Benefits	Valuation Assets	PVAB Percent Funded	Unfunded (Overfunded) PVAB
\$ 5,356,078 529,926 14,472,040 <u>8,047</u> \$ 20,366,091	72.4%	01 - General Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 4,292,610 529,926 14,472,040 <u>8,047</u> \$ 19,302,623	\$ 14,740,482	76.4%	\$ 4,562,141
\$ 659,069 624,787 15,261,359 <u>555</u> \$ 16,545,770	75.7%	02 - Sheriff POAM Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 1,167,774 624,787 15,261,359 <u>555</u> \$ 17,054,475	\$ 12,530,204	73.5%	\$ 4,524,271
\$ 6,839,387 560,582 26,342,909 <u>0</u> \$ 33,742,878	69.4%	09 - UAW Managers Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 5,547,188 560,582 26,342,909 <u>0</u> \$ 32,450,679	\$ 23,427,965	72.2%	\$ 9,022,714
\$ 2,384,372 585,539 8,045,358 <u>28,131</u> \$ 11,043,400	73.3%	10 - UAW Professional Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 1,933,800 585,539 8,045,358 <u>28,131</u> \$ 10,592,828	\$ 8,098,960	76.5%	\$ 2,493,868
\$ 680,453 66,243 2,137,387 <u>0</u> \$ 2,884,083	69.4%	11 - Gnrl Local486 Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 604,731 66,243 2,137,387 <u>0</u> \$ 2,808,361	\$ 2,001,772	71.3%	\$ 806,589
\$ 217,417 0 1,076,877 <u>0</u> \$ 1,294,294	62.1%	13 - Sheriff/Cooks Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 188,903 0 1,076,877 <u>0</u> \$ 1,265,780	\$ 804,034	63.5%	\$ 461,746

# Saginaw County (7303)

## Table 12 (continued)

### Termination Liability and Present Value of Accrued Benefits as of December 31, 2008

Termination Liability*	Term. Liability % Funded	Division	PVAB* Present Value of Accrued Benefits	Valuation Assets	PVAB Percent Funded	Unfunded (Overfunded) PVAB
\$ 484,089 113,537 2,315,856 0 \$ 2,913,482	85.0%	14 - Nurses Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 408,089 113,537 2,315,856 0 \$ 2,837,482	\$ 2,476,099	87.3%	\$ 361,383
\$ 2,528,918 247,676 5,830,788 0 \$ 8,607,382	72.0%	15 - Hlth Dept Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 2,069,042 247,676 5,830,788 0 \$ 8,147,506	\$ 6,194,171	76.0%	\$ 1,953,335
\$ 154,599 146,222 1,232,342 0 \$ 1,533,163	72.3%	16 - Elctd Commsnrs Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 132,348 146,222 1,232,342 0 \$ 1,510,912	\$ 1,109,081	73.4%	\$ 401,831
\$ 247,802 0 622,001 0 \$ 869,803	85.5%	17 - Animal Control Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 218,325 0 622,001 0 \$ 840,326	\$ 743,634	88.5%	\$ 96,692
\$ 537,432 0 447,600 0 \$ 985,032	68.5%	18 - Judges Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 433,311 0 447,600 0 \$ 880,911	\$ 674,588	76.6%	\$ 206,323
\$ 876,867 0 439,157 0 \$ 1,316,024	64.9%	19 - Dist Judges Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 619,632 0 439,157 0 \$ 1,058,789	\$ 854,101	80.7%	\$ 204,688



# Saginaw County (7303)

## Table 12 (continued)

### Termination Liability and Present Value of Accrued Benefits as of December 31, 2008

Termination Liability*	Term. Liability % Funded	Division	PVAB* Present Value of Accrued Benefits	Valuation Assets	PVAB Percent Funded	Unfunded (Overfunded) PVAB
\$ 1,641,763 0 5,680,023 0 \$ 7,321,786	86.3%	20 - Sheriff FOP Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 1,677,211 0 5,680,023 0 \$ 7,357,234	\$ 6,319,592	85.9%	\$ 1,037,642
\$ 394,894 0 3,745,025 0 \$ 4,139,919	71.2%	21 - Shrrff/Lts/Capts Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 287,353 0 3,745,025 0 \$ 4,032,378	\$ 2,948,289	73.1%	\$ 1,084,089
\$ 1,214,389 26,450 6,050,249 0 \$ 7,291,088	67.4%	23 - P.O.A.M. Non 312 Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 1,176,525 26,450 6,050,249 0 \$ 7,253,224	\$ 4,916,106	67.8%	\$ 2,337,118
\$ 277,705 0 1,051,832 0 \$ 1,329,537	74.2%	91 - Juvenile Probtn Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 224,984 0 1,051,832 0 \$ 1,276,816	\$ 986,068	77.2%	\$ 290,748
\$ 607,937 15,659 284,737 0 \$ 908,333	92.4%	92 - Dist Court Prob Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 621,915 15,659 284,737 0 \$ 922,311	\$ 839,559	91.0%	\$ 82,752
\$ 2,016,208 0 352,004 0 \$ 2,368,212	74.6%	93 - Pros Attys Union Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 1,672,513 0 352,004 0 \$ 2,024,517	\$ 1,765,640	87.2%	\$ 258,877

# Saginaw County (7303)

## Table 12 (continued)

### Termination Liability and Present Value of Accrued Benefits as of December 31, 2008

Termination Liability*	Term. Liability % Funded	Division	PVAB* Present Value of Accrued Benefits	Valuation Assets	PVAB Percent Funded	Unfunded (Overfunded) PVAB
\$ 3,113,830 0 2,233,476 0 \$ 5,347,306	63.2%	94 - Upper Management Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 2,646,321 0 2,233,476 0 \$ 4,879,797	\$ 3,379,599	69.3%	\$ 1,500,198
\$ 0 0 642,217 0 \$ 642,217	56.3%	95 - NonUnion Mgmt Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 0 0 642,217 0 \$ 642,217	\$ 361,625	56.3%	\$ 280,592
\$ 500,361 0 930,470 0 \$ 1,430,831	62.5%	96 - UAW Para prof. Active Members Vested Former Members Retirees and Beneficiaries Pending Refunds Total	\$ 374,543 0 930,470 0 \$ 1,305,013	\$ 894,662	68.6%	\$ 410,351
<b>\$ 30,733,570</b> <b>2,916,621</b> <b>99,193,707</b> <b>36,733</b> <b>\$ 132,880,631</b>	<b>72.3%</b>	<b>Total Municipality</b> <b>Active Members</b> <b>Vested Former</b> <b>Members</b> <b>Retirees and</b> <b>Beneficiaries</b> <b>Pending Refunds</b> <b>Total</b>	<b>\$ 26,297,118</b> <b>2,916,621</b> <b>99,193,707</b> <b>36,733</b> <b>\$ 128,444,179</b>	<b>\$ 96,066,231</b>	<b>74.8%</b>	<b>\$ 32,377,948</b>

\* The Termination Liability represents the present value of benefits payable in the event that all active members terminate employment on December 31, 2008, 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, 2008. 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.

**Please see the Comments on the Investment Markets on page 3.**

# Saginaw County (7303)

## Table 13

### Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2008

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
<b>01 - General</b>				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 4,831,364	\$ 0	0.0%	\$ 4,831,364
Vested Former Members	420,043	0	0.0	420,043
Retirees and Beneficiaries	<u>14,472,040</u>	<u>14,327,231</u>	99.0	<u>144,809</u>
Total	\$ 19,723,447	\$ 14,327,231	72.6%	\$ 5,396,216
Reserve for Employee Contributions				
Active Members	\$ 295,321	\$ 295,321		
Vested Former Members	109,883	109,883		
Pending Refunds	<u>8,047</u>	<u>8,047</u>		
Total	\$ 413,251	\$ 413,251	100.0%	\$ 0
Division Total	<b>\$ 20,136,698</b>	<b>\$ 14,740,482</b>	<b>73.2%</b>	<b>\$ 5,396,216</b>
<b>02 - Sheriff POAM</b>				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 1,783,206	\$ 0	0.0%	\$ 1,783,206
Vested Former Members	523,177	0	0.0	523,177
Retirees and Beneficiaries	<u>15,261,359</u>	<u>12,000,263</u>	78.6	<u>3,261,096</u>
Total	\$ 17,567,742	\$ 12,000,263	68.3%	\$ 5,567,479
Reserve for Employee Contributions				
Active Members	\$ 427,776	\$ 427,776		
Vested Former Members	101,610	101,610		
Pending Refunds	<u>555</u>	<u>555</u>		
Total	\$ 529,941	\$ 529,941	100.0%	\$ 0
Division Total	<b>\$ 18,097,683</b>	<b>\$ 12,530,204</b>	<b>69.2%</b>	<b>\$ 5,567,479</b>
<b>09 - UAW Managers</b>				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 6,445,749	\$ 0	0.0%	\$ 6,445,749
Vested Former Members	462,408	0	0.0	462,408
Retirees and Beneficiaries	<u>26,342,909</u>	<u>23,023,238</u>	87.4	<u>3,319,671</u>
Total	\$ 33,251,066	\$ 23,023,238	69.2%	\$ 10,227,828
Reserve for Employee Contributions				
Active Members	\$ 306,553	\$ 306,553		
Vested Former Members	98,174	98,174		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 404,727	\$ 404,727	100.0%	\$ 0
Division Total	<b>\$ 33,655,793</b>	<b>\$ 23,427,965</b>	<b>69.6%</b>	<b>\$ 10,227,828</b>

# Saginaw County (7303)

## Table 13 (continued)

### Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2008

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
10 - UAWProfessional				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 2,175,387	\$ 0	0.0%	\$ 2,175,387
Vested Former Members	514,183	0	0.0	514,183
Retirees and Beneficiaries	<u>8,045,358</u>	<u>7,866,483</u>	97.8	<u>178,875</u>
Total	\$ 10,734,928	\$ 7,866,483	73.3%	\$ 2,868,445
Reserve for Employee Contributions				
Active Members	\$ 132,990	\$ 132,990		
Vested Former Members	71,356	71,356		
Pending Refunds	<u>28,131</u>	<u>28,131</u>		
Total	\$ 232,477	\$ 232,477	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 10,967,405</b>	<b>\$ 8,098,960</b>	<b>73.8%</b>	<b>\$ 2,868,445</b>
11 - Gnrl Local486				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 853,647	\$ 0	0.0%	\$ 853,647
Vested Former Members	66,243	0	0.0	66,243
Retirees and Beneficiaries	<u>2,137,387</u>	<u>1,982,655</u>	92.8	<u>154,732</u>
Total	\$ 3,057,277	\$ 1,982,655	64.9%	\$ 1,074,622
Reserve for Employee Contributions				
Active Members	\$ 19,117	\$ 19,117		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 19,117	\$ 19,117	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 3,076,394</b>	<b>\$ 2,001,772</b>	<b>65.1%</b>	<b>\$ 1,074,622</b>
13 - Sheriff/Cooks				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 237,886	\$ 0	0.0%	\$ 237,886
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>1,076,877</u>	<u>792,281</u>	73.6	<u>284,596</u>
Total	\$ 1,314,763	\$ 792,281	60.3%	\$ 522,482
Reserve for Employee Contributions				
Active Members	\$ 11,753	\$ 11,753		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 11,753	\$ 11,753	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 1,326,516</b>	<b>\$ 804,034</b>	<b>60.6%</b>	<b>\$ 522,482</b>

# Saginaw County (7303)

## Table 13 (continued)

### Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2008

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
14 - Nurses				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 506,496	\$ 46,706	9.2%	\$ 459,790
Vested Former Members	106,196	106,196	100.0	0
Retirees and Beneficiaries	<u>2,315,856</u>	<u>2,315,856</u>	100.0	<u>0</u>
Total	\$ 2,928,548	\$ 2,468,758	84.3%	\$ 459,790
Reserve for Employee Contributions				
Active Members	\$ 0	\$ 0		
Vested Former Members	7,341	7,341		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 7,341	\$ 7,341	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 2,935,889</b>	<b>\$ 2,476,099</b>	<b>84.3%</b>	<b>\$ 459,790</b>
15 - Hlth Dept				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 2,462,497	\$ 30,436	1.2%	\$ 2,432,061
Vested Former Members	226,840	226,840	100.0	0
Retirees and Beneficiaries	<u>5,830,788</u>	<u>5,830,788</u>	100.0	<u>0</u>
Total	\$ 8,520,125	\$ 6,088,064	71.5%	\$ 2,432,061
Reserve for Employee Contributions				
Active Members	\$ 85,271	\$ 85,271		
Vested Former Members	20,836	20,836		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 106,107	\$ 106,107	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 8,626,232</b>	<b>\$ 6,194,171</b>	<b>71.8%</b>	<b>\$ 2,432,061</b>
16 - Elctd Commsnrs				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 133,237	\$ 0	0.0%	\$ 133,237
Vested Former Members	133,645	0	0.0	133,645
Retirees and Beneficiaries	<u>1,232,342</u>	<u>1,091,422</u>	88.6	<u>140,920</u>
Total	\$ 1,499,224	\$ 1,091,422	72.8%	\$ 407,802
Reserve for Employee Contributions				
Active Members	\$ 5,082	\$ 5,082		
Vested Former Members	12,577	12,577		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 17,659	\$ 17,659	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 1,516,883</b>	<b>\$ 1,109,081</b>	<b>73.1%</b>	<b>\$ 407,802</b>

# Saginaw County (7303)

## Table 13 (continued)

### Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2008

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
17 - Animal Control				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 305,729	\$ 121,633	39.8%	\$ 184,096
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>622,001</u>	<u>622,001</u>	100.0	<u>0</u>
Total	\$ 927,730	\$ 743,634	80.2%	\$ 184,096
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
<b>Division Total</b>	<b>\$ 927,730</b>	<b>\$ 743,634</b>	<b>80.2%</b>	<b>\$ 184,096</b>
18 - Judges				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 357,741	\$ 161,552	45.2%	\$ 196,189
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>447,600</u>	<u>447,600</u>	100.0	<u>0</u>
Total	\$ 805,341	\$ 609,152	75.6%	\$ 196,189
Reserve for Employee Contributions				
Active Members	\$ 65,436	\$ 65,436		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 65,436	\$ 65,436	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 870,777</b>	<b>\$ 674,588</b>	<b>77.5%</b>	<b>\$ 196,189</b>
19 - Dist Judges				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 612,681	\$ 364,461	59.5%	\$ 248,220
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>439,157</u>	<u>439,157</u>	100.0	<u>0</u>
Total	\$ 1,051,838	\$ 803,618	76.4%	\$ 248,220
Reserve for Employee Contributions				
Active Members	\$ 50,483	\$ 50,483		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 50,483	\$ 50,483	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 1,102,321</b>	<b>\$ 854,101</b>	<b>77.5%</b>	<b>\$ 248,220</b>

# Saginaw County (7303)

## Table 13 (continued)

### Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2008

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
20 - Sheriff FOP				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 2,236,634	\$ 437,532	19.6%	\$ 1,799,102
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>5,680,023</u>	<u>5,680,023</u>	100.0	<u>0</u>
Total	\$ 7,916,657	\$ 6,117,555	77.3%	\$ 1,799,102
Reserve for Employee Contributions				
Active Members	\$ 202,037	\$ 202,037		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 202,037	\$ 202,037	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 8,118,694</b>	<b>\$ 6,319,592</b>	<b>77.8%</b>	<b>\$ 1,799,102</b>
21 - Shrrff/Lts/Capts				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 394,238	\$ 0	0.0%	\$ 394,238
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>3,745,025</u>	<u>2,948,289</u>	78.7	<u>796,736</u>
Total	\$ 4,139,263	\$ 2,948,289	71.2%	\$ 1,190,974
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
<b>Division Total</b>	<b>\$ 4,139,263</b>	<b>\$ 2,948,289</b>	<b>71.2%</b>	<b>\$ 1,190,974</b>
23 - P.O.A.M. Non 312				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 1,417,444	\$ 0	0.0%	\$ 1,417,444
Vested Former Members	7,018	0	0.0	7,018
Retirees and Beneficiaries	<u>6,050,249</u>	<u>4,667,938</u>	77.2	<u>1,382,311</u>
Total	\$ 7,474,711	\$ 4,667,938	62.4%	\$ 2,806,773
Reserve for Employee Contributions				
Active Members	\$ 228,736	\$ 228,736		
Vested Former Members	19,432	19,432		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 248,168	\$ 248,168	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 7,722,879</b>	<b>\$ 4,916,106</b>	<b>63.7%</b>	<b>\$ 2,806,773</b>

# Saginaw County (7303)

## Table 13 (continued)

### Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2008

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
91 - Juvenile Probtn				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 261,661	\$ 0	0.0%	\$ 261,661
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>1,051,832</u>	<u>976,251</u>	92.8	<u>75,581</u>
Total	\$ 1,313,493	\$ 976,251	74.3%	\$ 337,242
Reserve for Employee Contributions				
Active Members	\$ 9,817	\$ 9,817		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 9,817	\$ 9,817	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 1,323,310</b>	<b>\$ 986,068</b>	<b>74.5%</b>	<b>\$ 337,242</b>
92 - Dist Court Prob				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 699,762	\$ 481,479	68.8%	\$ 218,283
Vested Former Members	15,659	15,659	100.0	0
Retirees and Beneficiaries	<u>284,737</u>	<u>284,737</u>	100.0	<u>0</u>
Total	\$ 1,000,158	\$ 781,875	78.2%	\$ 218,283
Reserve for Employee Contributions				
Active Members	\$ 57,684	\$ 57,684		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 57,684	\$ 57,684	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 1,057,842</b>	<b>\$ 839,559</b>	<b>79.4%</b>	<b>\$ 218,283</b>
93 - Pros Attys Union				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 1,928,082	\$ 1,307,042	67.8%	\$ 621,040
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>352,004</u>	<u>352,004</u>	100.0	<u>0</u>
Total	\$ 2,280,086	\$ 1,659,046	72.8%	\$ 621,040
Reserve for Employee Contributions				
Active Members	\$ 106,594	\$ 106,594		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 106,594	\$ 106,594	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 2,386,680</b>	<b>\$ 1,765,640</b>	<b>74.0%</b>	<b>\$ 621,040</b>



# Saginaw County (7303)

## Table 13 (continued)

### Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2008

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
94 - Upper Management				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 2,449,450	\$ 800,157	32.7%	\$ 1,649,293
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>2,233,476</u>	<u>2,233,476</u>	100.0	<u>0</u>
Total	\$ 4,682,926	\$ 3,033,633	64.8%	\$ 1,649,293
Reserve for Employee Contributions				
Active Members	\$ 345,966	\$ 345,966		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 345,966	\$ 345,966	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 5,028,892</b>	<b>\$ 3,379,599</b>	<b>67.2%</b>	<b>\$ 1,649,293</b>
95 - NonUnion Mgmnt				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 0	\$ 0	0.0%	\$ 0
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>642,217</u>	<u>361,625</u>	56.3	<u>280,592</u>
Total	\$ 642,217	\$ 361,625	56.3%	\$ 280,592
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
<b>Division Total</b>	<b>\$ 642,217</b>	<b>\$ 361,625</b>	<b>56.3%</b>	<b>\$ 280,592</b>
96 - UAW Para prof.				
Reserve for Employer Contributions and Benefit Payments				
Active Members	\$ 436,087	\$ 0	0.0%	\$ 436,087
Vested Former Members	0	0	0.0	0
Retirees and Beneficiaries	<u>930,470</u>	<u>876,899</u>	94.2	<u>53,571</u>
Total	\$ 1,366,557	\$ 876,899	64.2%	\$ 489,658
Reserve for Employee Contributions				
Active Members	\$ 17,763	\$ 17,763		
Vested Former Members	0	0		
Pending Refunds	<u>0</u>	<u>0</u>		
Total	\$ 17,763	\$ 17,763	100.0%	\$ 0
<b>Division Total</b>	<b>\$ 1,384,320</b>	<b>\$ 894,662</b>	<b>64.6%</b>	<b>\$ 489,658</b>

# Saginaw County (7303)

## Table 13 (continued)

### Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2008

Division	Actuarial Accrued Liabilities	Valuation Assets	Percent Funded	Unfunded (Overfunded) Accrued Liabilities
<b>Municipality Totals</b>				
<b>Reserve for Employer Contributions and Benefit Payments</b>				
Active Members	\$ 30,528,978	\$ 3,750,998	12.3%	\$ 26,777,980
Vested Former Members	2,475,412	348,695	14.1	2,126,717
Retirees and Beneficiaries	<u>99,193,707</u>	<u>89,120,217</u>	89.8	<u>10,073,490</u>
<b>Total</b>	<b>\$ 132,198,097</b>	<b>\$ 93,219,910</b>	<b>70.5%</b>	<b>\$ 38,978,187</b>
<b>Reserve for Employee Contributions</b>				
Active Members	\$ 2,368,379	\$ 2,368,379		
Vested Former Members	441,209	441,209		
Pending Refunds	<u>36,733</u>	<u>36,733</u>		
<b>Total</b>	<b>\$ 2,846,321</b>	<b>\$ 2,846,321</b>	<b>100.0%</b>	<b>\$ 0</b>
<b>Municipality Total</b>	<b>\$ 135,044,418</b>	<b>\$ 96,066,231</b>	<b>71.1%</b>	<b>\$ 38,978,187</b>

Please see the Comments on the Investment Markets on page 3.

# Saginaw County (7303)

## 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
1994	\$ 64,406,021	\$ 44,355,667	69%	\$ 20,050,354	90%
1995	70,825,829	47,818,427	68	23,007,402	111
1996	76,911,954	53,190,884	69	23,721,070	115
1997	75,889,984	58,396,134	77	17,493,850	105
1998	78,211,735	60,895,281	78	17,316,454	112
1999	79,432,582	67,384,350	85	12,048,232	83
2000	88,485,517	73,055,834	83	15,429,683	111
2001	93,444,440	76,976,633	82	16,467,807	121
2002	99,129,201	78,295,659	79	20,833,542	159
2003	104,989,442	82,375,896	78	22,613,546	174
2004	109,067,562	85,338,467	78	23,729,095	190
2005	116,271,363	87,919,362	76	28,352,001	234
2006	121,846,675	91,934,019	75	29,912,656	256
2007	125,684,383	96,240,566	77	29,443,817	270
2008	135,044,418	96,066,231	71	38,978,187	563

**Notes:** Actuarial assumptions were revised for the 1997, 2000, 2004, and 2008 actuarial valuations.

# Saginaw County (7303)

## Table 15

### Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning October 1, 2010

Division	Employer Contributions @		
	Normal Cost	Unfunded Accrued Liability #	Total Required Employer Contribution
<b>Percentage of Payroll</b>			
01 - General &	-%	-%	-%
02 - Sheriff POAM &	-%	-%	-%
09 - UAW Managers &	-%	-%	-%
10 - UAW Professional &	-%	-%	-%
11 - Gnrl Local486 &	-%	-%	-%
13 - Sheriff/Cooks &	-%	-%	-%
14 - Nurses &	-%	-%	-%
15 - Hlth Dept &	-%	-%	-%
16 - Elctd Commsnrs &	-%	-%	-%
17 - Animal Control &	-%	-%	-%
18 - Judges &	-%	-%	-%
19 - Dist Judges &	-%	-%	-%
20 - Sheriff FOP &	-%	-%	-%
21 - Shrff/Lts/Capts &	-%	-%	-%
23 - P.O.A.M. Non 312 &	-%	-%	-%
91 - Juvenile Probtn &	-%	-%	-%
92 - Dist Court Prob &	-%	-%	-%
93 - Pros Attys Union &	-%	-%	-%
94 - Upper Management &	-%	-%	-%
95 - NonUnion Mgmnt &	-%	-%	-%
96 - UAW Para prof. &	-%	-%	-%

# Saginaw County (7303)

## Table 15 (continued)

### Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning October 1, 2010

Division	Employer Contributions @		
	Normal Cost	Unfunded Accrued Liability #	Total Required Employer Contribution
<b>Estimated Monthly Contribution*</b>			
01 - General	\$ 6,515	\$ 38,512	\$ 45,027
02 - Sheriff POAM	5,466	38,582	44,048
09 - UAW Managers	9,803	72,495	82,298
10 - UAW Professional	3,625	20,451	24,076
11 - Gnrl Local486	1,845	6,929	8,774
13 - Sheriff/Cooks	510	3,507	4,017
14 - Nurses	1,105	2,860	3,965
15 - Hlth Dept	3,905	17,247	21,152
16 - Elctd Commsnrs	141	3,038	3,179
17 - Animal Control	711	1,159	1,870
18 - Judges	220	1,249	1,469
19 - Dist Judges	759	1,613	2,372
20 - Sheriff FOP	5,737	11,221	16,958
21 - Shrff/Lts/Capts	864	7,497	8,361
23 - P.O.A.M. Non 312	2,547	18,339	20,886
91 - Juvenile Probtn	238	2,295	2,533
92 - Dist Court Prob	888	1,572	2,460
93 - Pros Attys Union	3,355	4,292	7,647
94 - Upper Management	3,812	9,912	13,724
95 - NonUnion Mgmnt	0	1,580	1,580
96 - UAW Para prof.	518	2,707	3,225
<b>Total Municipality</b>	<b>\$ 52,564</b>	<b>\$ 267,057</b>	<b>\$ 319,621</b>
<b>Estimated Annual Contribution*</b>			
<b>Total Municipality</b>	<b>\$ 630,768</b>	<b>\$3,204,684</b>	<b>\$ 3,835,452</b>

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

\* Based on Valuation Payroll. Invoices will be based on the above dollar amounts.

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

& This division will not have new hires. Invoices will be based on the dollar contribution amounts shown in this table.

**Please see the Comments on the Investment Markets on page 3.**

# Saginaw County (7303)

## Division 01 - General

### Table 16A

#### Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning October 1, 2010

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$6,515
Amortization of Unfunded Accrued Liability (16 years) ^	<u>38,512</u> ^
Total Long Term Contribution	45,027
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$45,027 *</b>

@ The above Employer contribution requirement is based on Member contributions of 3.88% of pay.

\* Invoices will be based on this dollar amount.

# Only applies if projected assets exceed projected liabilities as of the beginning of the October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$480,516 and the ARC is \$558,696). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

Increase in Actuarial Accrued Liabilities:	\$(40,775)
Increase in Computed Long Term Employer Contribution	
Monthly Normal Cost:	\$680
Monthly Amortization Payment:	\$(198)
Monthly Total:	\$482

Please see the Comments on the Investment Markets on page 3.

# Saginaw County (7303)

## Division 01 - General

### Table 17A

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	173	\$ 3,423,717	13.53%	7.58%
1995	174	3,574,041	15.14%	11.51%
1996	168	3,697,041	14.27%	13.70%
1997	134	3,219,857	13.22%	13.22%
1998	118	3,157,970	13.35%	13.35%
1999	109	2,949,699	11.82%	11.82%
2000	93	2,587,895	10.61%	10.61%
2001	84	2,429,463	10.99%	10.99%
2002	74	2,236,707	13.81%	13.81%
2003	68	2,110,485	15.06%	15.06%
2004	67	2,155,983	\$ 27,367 #	\$ 27,367 #
2005	57	1,891,182	\$ 28,023	\$ 28,023
2006	52	1,836,864	\$ 29,798	\$ 29,798
2007	49	1,663,682	\$ 34,152	\$ 34,152
2008	33	1,161,510	\$ 45,027	\$ 45,027

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

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.

Adoption of Benefit B-4 - 80% Maximum, 3.88% Member Contributions reflected in 2006 valuation.

Actuarial assumptions were revised for the 2008 valuation.

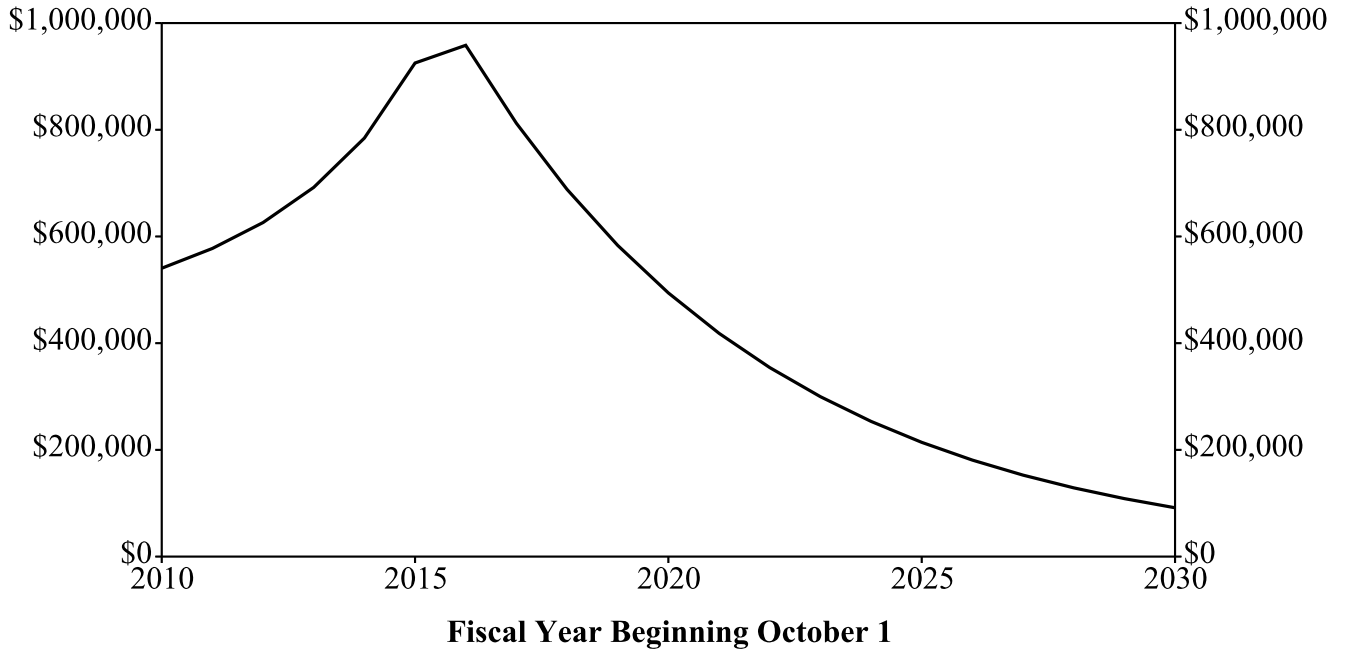
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

# Saginaw County (7303)

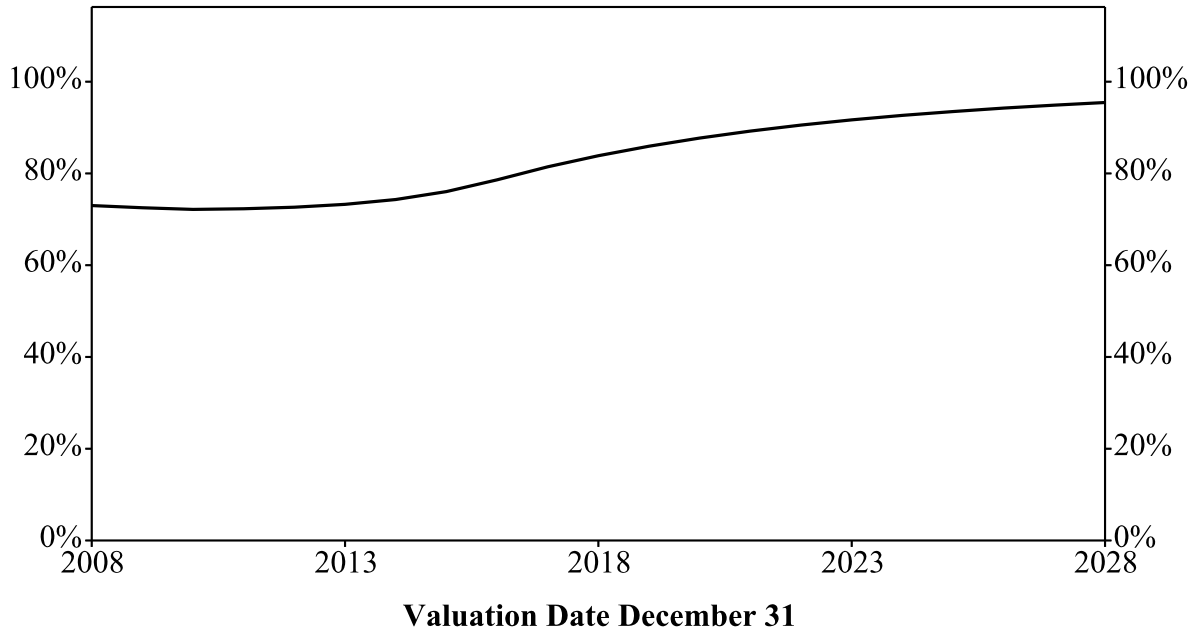
## Division 01 - General

### Chart 17.5A

#### Projected Annual Employer Contributions



#### Projected Funded Percentage



Note: Please refer to page 202 for a discussion of the projection.



**Saginaw County (7303)**

**Division 01 - General**

**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	(2)	(2)		(2)	(3)				84
2002	(7)			(1)		(2)			74
2003	(5)			(2)		(2)	1	2	68
2004						(1)			67
2005	(7)			(2)		(1)			57
2006	(5)			(1)				1	52
2007	(2)		(1)						49
2008	(14)		(1)			(1)			33

**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							2	21
2002							1	22
2003	(1)						2	23
2004							1	24
2005							3	27
2006	(1)	(1)		(1)			1	25
2007	(3)							22
2008	(1)							21

# Saginaw County (7303)

## Division 01 - General

**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	6	\$ 45,602	\$	(9)	\$ (29,504)	\$ (830)	174	\$ 953,628
2002	9	122,553		(9)	(24,937)	(289)	174	1,050,955
2003	10	85,055		(5)	(22,106)	(14,531)	179	1,099,373
2004			1,605	(2)	(7,598)	(2,407)	177	1,090,973
2005	7	118,629	3,066	(8)	(23,356)		176	1,189,312
2006	6	99,512	4,593	(11)	(38,955)	(1,012)	171	1,253,450
2007	7	57,934	286	(6)	(21,696)	(2,923)	172	1,287,051
2008	17	350,814	5,562	(8)	(29,633)		181	1,613,794

@ 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.

# Saginaw County (7303)

## Division 01 - General

**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	\$ 308,253	\$ 0	\$ 1,127,357	\$ (956,071)	\$ (2,266)	\$ (29)	\$ 29	\$ 15,938,069
2002	290,587	15,815	408,710	(963,842)	0	(134,350)	0	15,554,989
2003	254,713	4,167	1,020,772	(1,081,439)	(1,827)	(85,840)	16,959	15,682,494
2004	258,256	0	950,946	(1,096,507)	0	(103,599)	0	15,691,590
2005	295,201	0	956,333	(1,126,017)	0	(80,235)	20,046	15,756,918
2006	298,617	50,156	1,239,082	(1,194,276)	0	(19,206)	19,206	16,150,497
2007	330,372	66,397	1,333,228	(1,264,400)	0	(1,595,478)	0	15,020,616
2008	341,564	64,351	549,774	(1,429,851)	(3,575)	(3,499)	201,102	14,740,482

\* 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	\$ 16,672,009	\$ 15,938,069	96%	\$ 733,940	30%
2002	17,285,939	15,554,989	90	1,730,950	77
2003	17,674,309	15,682,494	89	1,991,815	94
2004	17,555,879	15,691,590	89	1,864,289	86
2005	18,062,828	15,756,918	87	2,305,910	122
2006	19,290,800	16,150,497	84	3,140,303	171
2007	19,151,816	15,020,616	78	4,131,200	248
2008	20,136,698	14,740,482	73	5,396,216	465

**Saginaw County (7303)**  
**Division 02 - Sheriff POAM**

**Table 16B**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$5,466
Amortization of Unfunded Accrued Liability (16 years) ^	<u>38,582</u> ^
Total Long Term Contribution	44,048
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$44,048 *</b>

@ The above Employer contribution requirement is based on Member contributions of 4.00% of pay.

\* Invoices will be based on this dollar amount.

# Only applies if projected assets exceed projected liabilities as of the beginning of the October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$481,392 and the ARC is \$546,984). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$44,339</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$1,370</b>
<b>Monthly Amortization Payment:</b>	<b>\$553</b>
<b>Monthly Total:</b>	<b>\$1,923</b>

**Please see the Comments on the Investment Markets on page 3.**

# Saginaw County (7303)

## Division 02 - Sheriff POAM

### Table 17B

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	92	\$ 3,121,183	10.82%	6.06%
1995	83	3,071,903	14.50%	11.02%
1996	75	2,899,527	14.76%	14.17%
1997	71	2,844,070	14.56%	14.56%
1998	66	2,824,142	14.77%	14.77%
1999	37	1,599,811	15.24%	15.24%
2000	32	1,542,932	21.71%	21.70%
2001	28	1,301,816	22.42%	22.42%
2002	24	1,126,899	27.90%	27.90%
2003	22	1,163,557	31.29%	31.29%
2004	20	1,046,070	\$ 34,350 #	\$ 34,350 #
2005	18	971,244	\$ 34,308	\$ 34,308
2006	18	993,622	\$ 39,039	\$ 39,039
2007	16	1,051,611	\$ 37,574	\$ 37,574
2008	9	556,792	\$ 44,048	\$ 44,048

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

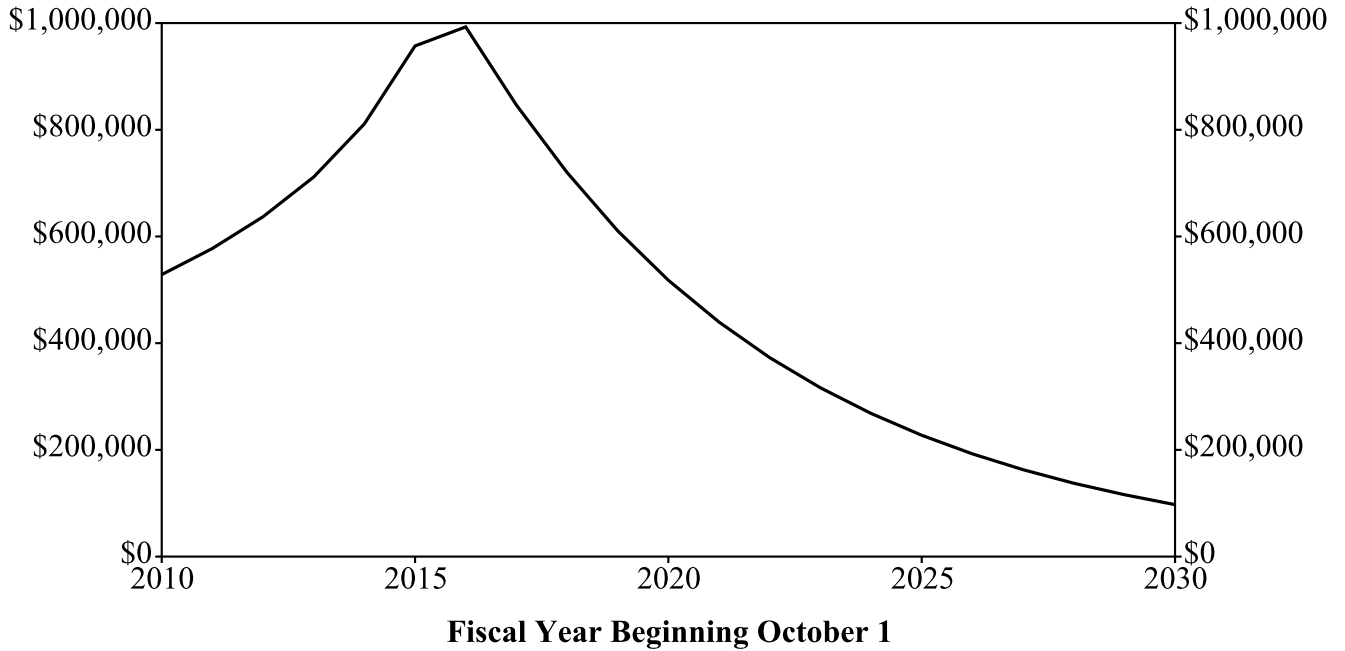
Notes:

- Adoption of Benefits B-4 and 25 years and Out reflected in 1994 valuation.
- Adoption of 8% member contributions reflected in 1994 valuation.
- Adoption of Benefit E-2 reflected in 1994 valuation.
- Adoption of 7.09% member contributions reflected in 1995 valuation.
- Actuarial assumptions were revised for the 1997 valuation.
- Adoption of 4.00% member contributions reflected in 2000 valuation.
- Actuarial assumptions were revised for the 2000 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

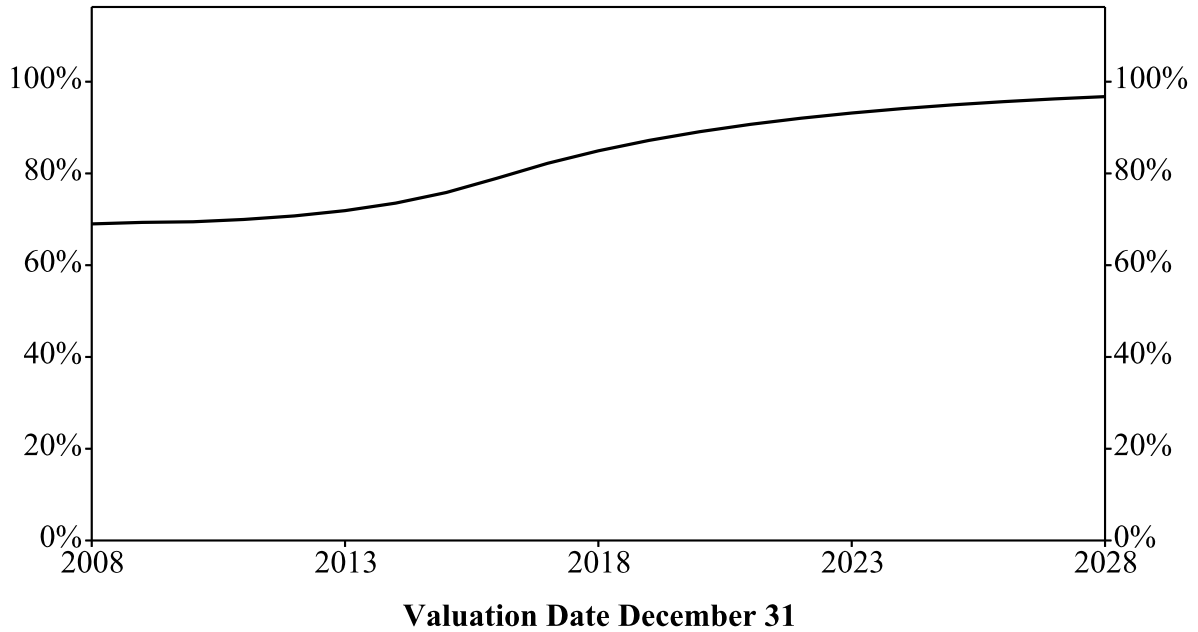
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 02 - Sheriff POAM**  
**Chart 17.5B**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**

**Division 02 - Sheriff POAM**

**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)	(1)	(2)			28
2002	(2)			(1)		(1)			24
2003	(2)								22
2004	(1)			(1)					20
2005	(1)					(1)			18
2006	(1)						1		18
2007	(2)								16
2008	(6)		(1)						9

**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				(1)			1	7
2002							1	8
2003	(1)			(1)				6
2004							2	8
2005								8
2006								8
2007							2	10
2008								10

**Saginaw County (7303)**  
**Division 02 - Sheriff POAM**

**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		\$	\$ 11,366		\$	\$ (5,741)	49	\$ 747,410
2002	3	70,862	11,366	(1)	(16,279)		51	813,359
2003	3	76,610	11,649	(2)	(17,839)	(38,635)	52	845,144
2004	3	55,582	13,622	(1)	(7,848)	(1,050)	54	905,450
2005	1	33,358	19,085	(1)	(33,024)		54	924,869
2006	1	44,483	14,771				55	984,123
2007	2	55,016	16,345				57	1,055,484
2008	7	231,969	18,128				64	1,305,581

@ 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.



**Saginaw County (7303)**  
**Division 02 - Sheriff POAM**

**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	\$ 233,025	\$ 52,755	\$ 718,329	\$ (741,425)	\$ (22,894)	\$ (368,303)	\$ 0	\$ 10,356,645
2002	254,801	51,692	227,624	(773,263)	0	(97,595)	0	10,019,904
2003	281,711	50,182	670,228	(848,083)	(2,238)	0	0	10,171,704
2004	280,384	44,983	639,990	(865,235)	0	0	0	10,271,826
2005	302,010	40,925	626,175	(922,297)	(51,759)	(86,253)	89,278	10,269,905
2006	332,377	39,628	821,927	(961,034)	0	0	263,504	10,766,307
2007	412,074	43,575	847,134	(1,031,278)	0	(564)	1,422,483	12,459,731
2008	428,872	30,509	501,802	(1,202,571)	0	0	311,861	12,530,204

\* 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	\$ 13,956,505	\$ 10,356,645	74%	\$ 3,599,860	277%
2002	14,125,175	10,019,904	71	4,105,271	364
2003	14,865,331	10,171,704	68	4,693,627	403
2004	15,258,160	10,271,826	67	4,986,334	477
2005	15,162,346	10,269,905	68	4,892,441	504
2006	16,093,985	10,766,307	67	5,327,678	536
2007	17,404,182	12,459,731	72	4,944,451	470
2008	18,097,683	12,530,204	69	5,567,479	1,000

**Saginaw County (7303)**  
**Division 09 - UAW Managers**

**Table 16C**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$9,803
Amortization of Unfunded Accrued Liability (16 years) ^	<u>72,495</u> ^
Total Long Term Contribution	82,298
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$82,298 *</b>

@ The above Employer contribution requirement is based on Member contributions of 3.20% of pay.

\* Invoices will be based on this dollar amount.

# Only applies if projected assets exceed projected liabilities as of the beginning of the October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$904,536 and the ARC is \$1,022,172). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(74,020)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$1,837</b>
<b>Monthly Amortization Payment:</b>	<b>\$(260)</b>
<b>Monthly Total:</b>	<b>\$1,577</b>

**Please see the Comments on the Investment Markets on page 3.**

# Saginaw County (7303)

## Division 09 - UAW Managers

### Table 17C

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	68	\$ 2,716,377	17.17%	9.61%
1995	60	2,461,392	18.98%	14.42%
1996	56	2,460,494	18.43%	17.70%
1997	62	2,741,041	19.94%	19.94%
1998	47	2,180,551	23.02%	23.02%
1999	47	2,255,087	22.21%	22.21%
2000	49	2,432,142	19.53%	19.53%
2001	45	2,310,715	20.76%	20.76%
2002	40	2,112,912	24.48%	24.48%
2003	41	2,236,389	25.94%	25.94%
2004	39	2,165,420	\$ 54,816 #	\$ 54,816 #
2005	36	2,119,452	\$ 74,457	\$ 74,457
2006	35	1,958,416	\$ 73,549	\$ 73,549
2007	31	1,823,338	\$ 51,074	\$ 51,074
2008	19	1,138,639	\$ 82,298	\$ 82,298

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

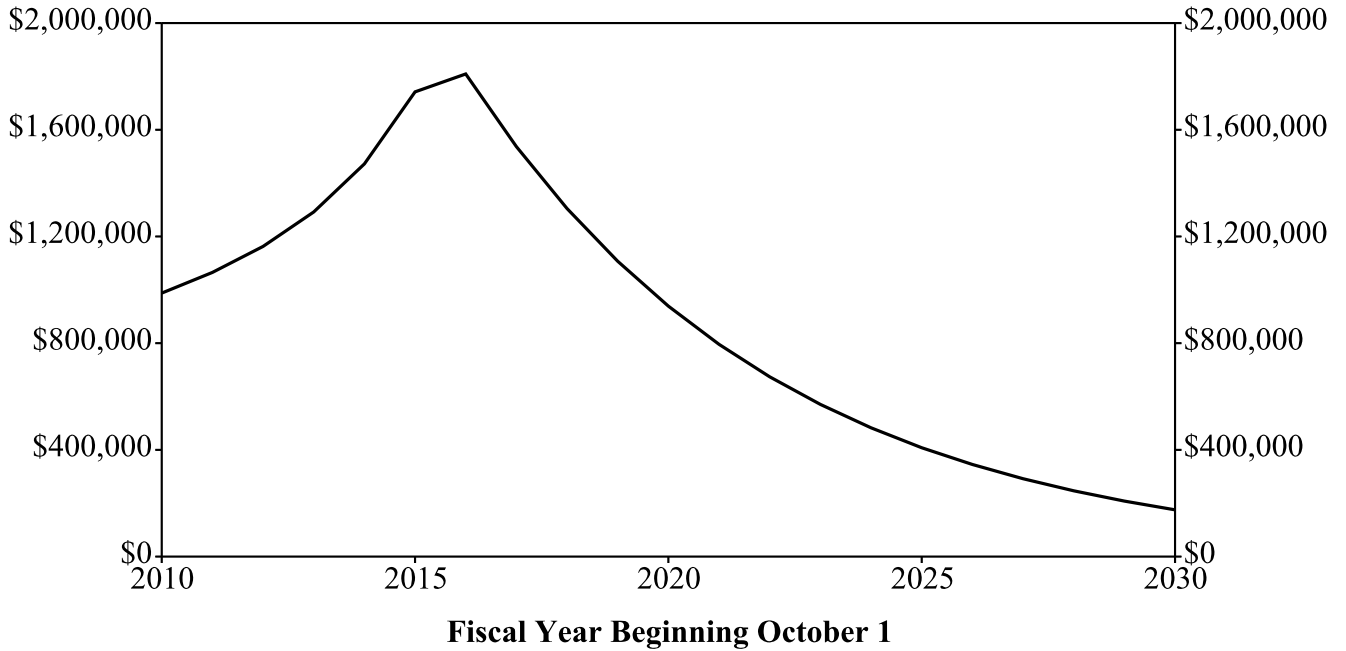
**Notes:**

- Adoption of Benefits F55 (15 years) and 25 years and out 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.
- Adoption of Benefit E-2 (2.5%), 3.20% Member Contributions reflected in 2005 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

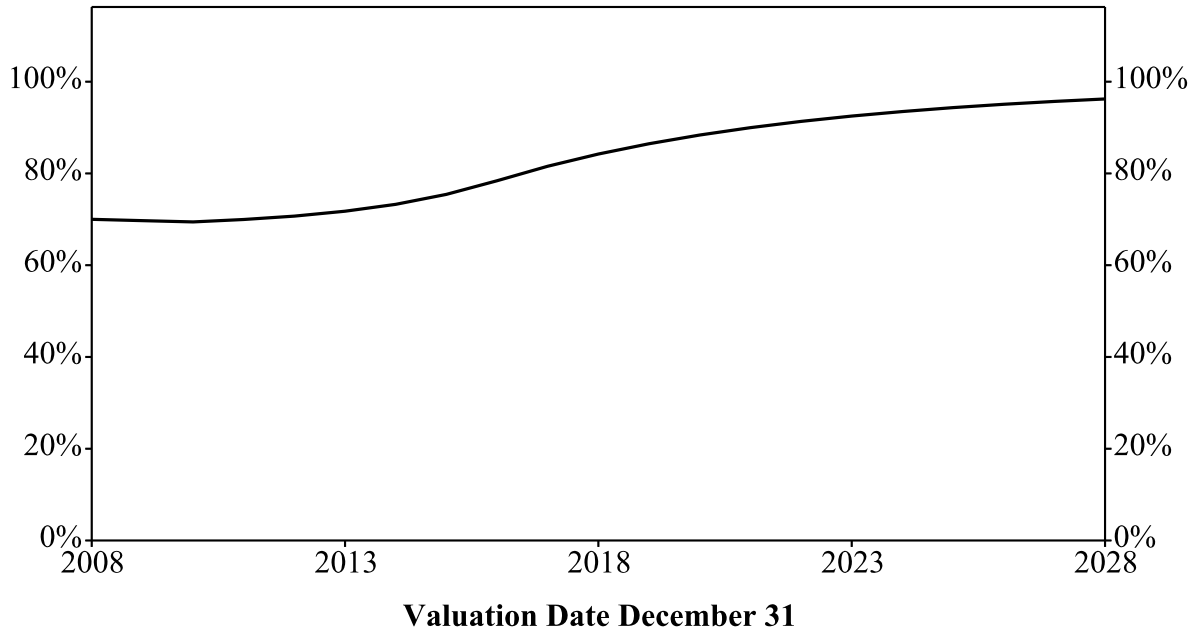
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 09 - UAW Managers**  
**Chart 17.5C**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**  
**Division 09 - UAW Managers**

**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	(3)			(2)		(1)	1	1	45
2002	(5)			(2)			2		40
2003	(3)						4		41
2004	(4)						2		39
2005	(2)				(1)				36
2006	(3)					(1)	3		35
2007	(4)								31
2008	(14)						2		19

**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	8
2002							2	10
2003				(1)				9
2004								9
2005								9
2006	(1)							8
2007								8
2008	(1)							7

**Saginaw County (7303)**  
**Division 09 - UAW Managers**

**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	\$ 100,743	\$		\$	\$ (14,288)	34	\$ 711,364
2002	5	163,493					39	874,857
2003	3	114,162					42	989,019
2004	4	173,543					46	1,162,562
2005	3	101,568	2,239				49	1,266,369
2006	4	138,961	1,646				53	1,406,976
2007	4	134,521	4,933				57	1,546,430
2008	17	707,395	13,267	(2)	(22,164)		72	2,244,928

@ 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.

# Saginaw County (7303)

## Division 09 - UAW Managers

### 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	\$ 543,617	\$ 0	\$ 1,006,227	\$ (640,933)	\$ 0	\$ (105,639)	\$ 62,913	\$ 13,852,645
2002	534,847	0	542,023	(724,705)	0	(1,289)	368,665	14,572,186
2003	504,314	5,966	1,250,232	(919,375)	(953)	0	621,882	16,034,252
2004	503,233	0	1,097,563	(1,052,879)	0	0	450,637	17,032,806
2005	587,821	4,664	1,070,512	(1,213,954)	0	(2,465)	45,461	17,524,845
2006	821,341	63,186	1,405,471	(1,359,038)	0	0	165,550	18,621,355
2007	867,051	62,873	1,462,462	(1,476,068)	0	0	2,663,772	22,201,445
2008	890,760	58,136	1,062,038	(1,809,764)	0	0	1,025,350	23,427,965

\* 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	\$ 18,617,702	\$ 13,852,645	74%	\$ 4,765,057	206%
2002	20,087,337	14,572,186	73	5,515,151	261
2003	22,188,531	16,034,252	72	6,154,279	275
2004	23,700,975	17,032,806	72	6,668,169	308
2005	27,381,296	17,524,845	64	9,856,451	465
2006	28,210,689	18,621,355	66	9,589,334	490
2007	29,073,477	22,201,445	76	6,872,032	377
2008	33,655,793	23,427,965	70	10,227,828	898

**Saginaw County (7303)**

**Division 10 - UAW Professional**

**Table 16D**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$3,625
Amortization of Unfunded Accrued Liability (16 years) ^	<u>20,451</u> ^
Total Long Term Contribution	24,076
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$24,076 *</b>

@ 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 October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$255,168 and the ARC is \$298,668). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(31,340)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$560</b>
<b>Monthly Amortization Payment:</b>	<b>\$(146)</b>
<b>Monthly Total:</b>	<b>\$414</b>

**Please see the Comments on the Investment Markets on page 3.**



# Saginaw County (7303)

## Division 10 - UAW Professional

### Table 17D

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	106	\$ 3,116,988	14.13%	7.92%
1995	91	2,658,408	15.05%	11.43%
1996	79	2,545,058	14.41%	13.83%
1997	68	2,324,044	14.48%	14.48%
1998	52	1,887,695	14.68%	14.67%
1999	50	1,813,870	12.56%	12.55%
2000	43	1,624,278	12.26%	12.26%
2001	40	1,599,712	13.26%	13.26%
2002	35	1,517,147	15.35%	15.35%
2003	33	1,496,305	16.34%	16.34%
2004	29	1,338,454	\$ 20,121 #	\$ 20,121 #
2005	28	1,316,123	\$ 21,208	\$ 21,208
2006	19	968,541	\$ 16,191	\$ 16,191
2007	18	920,299	\$ 18,457	\$ 18,457
2008	9	499,823	\$ 24,076	\$ 24,076

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

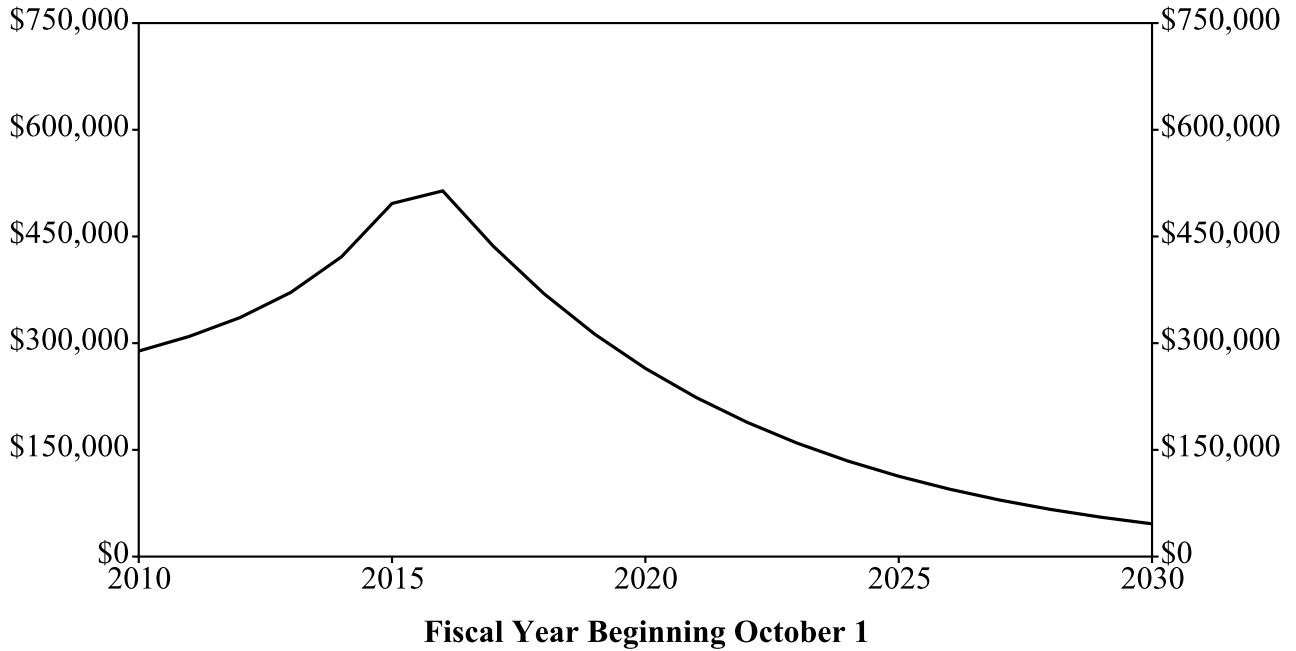
Notes:

- Adoption of Benefit F55 (15 years) 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.
- Actuarial assumptions were revised for the 2008 valuation.

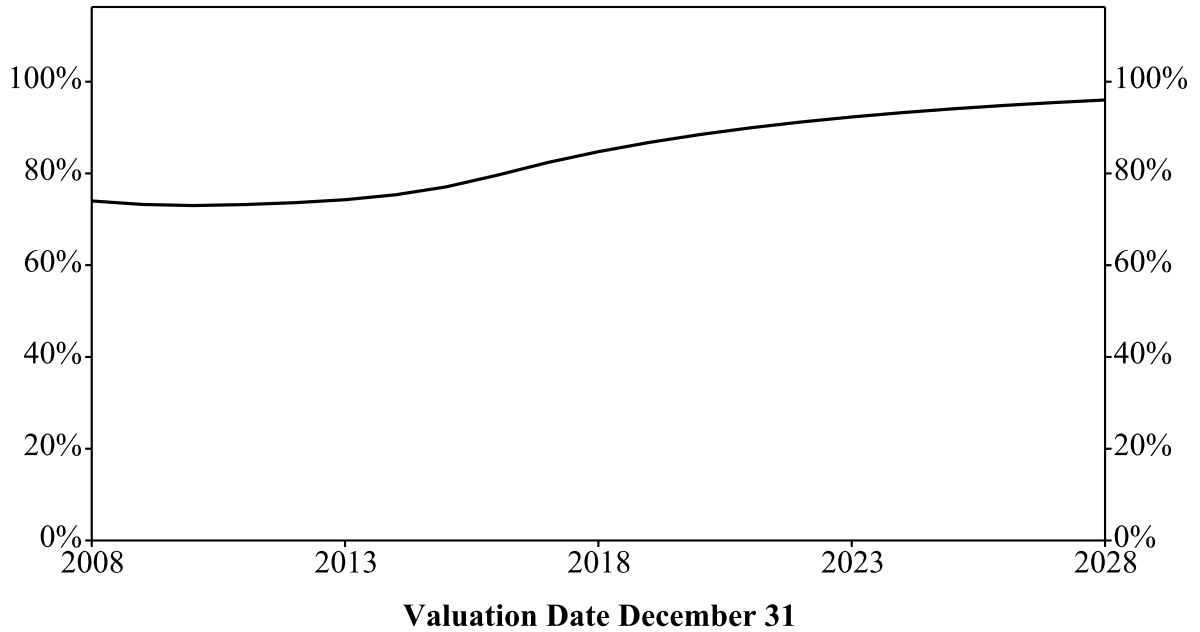
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 10 - UAW Professional**  
**Chart 17.5D**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**

**Division 10 - UAW Professional**

**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)	(2)			40
2002	(3)			(1)		(2)		1	35
2003	(2)					(1)	1		33
2004	(3)					(2)	1		29
2005				(1)		(1)		1	28
2006	(2)					(7)			19
2007	(1)								18
2008	(8)					(2)	1		9

**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	22
2002	(1)			(1)			1	21
2003								21
2004								21
2005							1	22
2006								22
2007	(2)							20
2008	(1)			(1)				18

# Saginaw County (7303)

## Division 10 - UAW Professional

### 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		\$	\$	(1)	\$ (3,432)	\$	30	\$ 400,707
2002	4	45,756					34	446,463
2003	2	33,674					36	480,137
2004	3	79,012		(1)	(12,106)		38	547,043
2005	1	2,161					39	549,204
2006	3	59,799		(1)	(6,115)		41	602,888
2007	5	71,115		(4)	(77,332)		42	596,671
2008	10	233,027	2,582	(1)	(17,299)		51	814,981

@ 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.

# Saginaw County (7303)

## Division 10 - UAW Professional

### 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	\$ 218,306	\$ 0	\$ 637,552	\$ (402,206)	\$ (6,135)	\$ (241,107)	\$ 20,819	\$ 8,915,324
2002	213,389	143	290,199	(408,590)	(9,942)	(96,768)	150,327	9,054,082
2003	191,744	0	662,365	(474,419)	0	(85,984)	114,455	9,462,243
2004	203,132	0	587,285	(500,853)	0	(312,379)	37,441	9,476,869
2005	211,303	0	587,925	(550,506)	0	(69,460)	39,900	9,696,031
2006	194,445	0	712,539	(576,385)	(2,893)	(841,600)	0	9,182,137
2007	219,517	0	759,650	(636,848)	0	(1,040,228)	41,882	8,526,110
2008	255,040	0	307,845	(680,585)	0	(397,584)	88,134	8,098,960

\* 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	\$ 10,071,222	\$ 8,915,324	89%	\$ 1,155,898	72%
2002	10,746,003	9,054,082	84	1,691,921	112
2003	11,407,226	9,462,243	83	1,944,983	130
2004	11,320,703	9,476,869	84	1,843,834	138
2005	11,663,061	9,696,031	83	1,967,030	149
2006	10,791,050	9,182,137	85	1,608,913	166
2007	10,624,411	8,526,110	80	2,098,301	228
2008	10,967,405	8,098,960	74	2,868,445	574

**Saginaw County (7303)**  
**Division 11 - Gnrl Local486**

**Table 16E**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$1,845
Amortization of Unfunded Accrued Liability (18 years) ^	<u>6,929</u> ^
Total Long Term Contribution	8,774
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$8,774 *</b>

@ 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 October 1, 2010 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 \$94,392 and the ARC is \$116,532). 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(6,766)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$189</b>
<b>Monthly Amortization Payment:</b>	<b>\$(21)</b>
<b>Monthly Total:</b>	<b>\$168</b>

**Please see the Comments on the Investment Markets on page 3.**

# Saginaw County (7303)

## Division 11 - Gnrl Local486

### Table 17E

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	22	\$ 467,913	10.04%	5.62%
1995	19	491,150	13.88%	10.55%
1996	17	495,149	14.70%	14.12%
1997	16	436,234	13.24%	13.24%
1998	12	422,099	16.61%	16.61%
1999	12	411,887	15.42%	15.42%
2000	12	418,445	14.23%	14.23%
2001	11	403,646	15.59%	15.59%
2002	12	437,661	16.89%	16.89%
2003	12	454,828	17.24%	17.24%
2004	12	472,591	\$ 7,475 #	\$ 7,475 #
2005	12	457,629	\$ 7,203	\$ 7,203
2006	12	468,009	\$ 7,171	\$ 7,171
2007	10	404,372	\$ 7,734	\$ 7,734
2008	6	231,803	\$ 8,774	\$ 8,774

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

**Notes:**

Adoption of Benefits C-2 (B-1 base) and F55 (25 years) reflected in 1994.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of DC Plan for New Hires reflected in 2003 valuation.

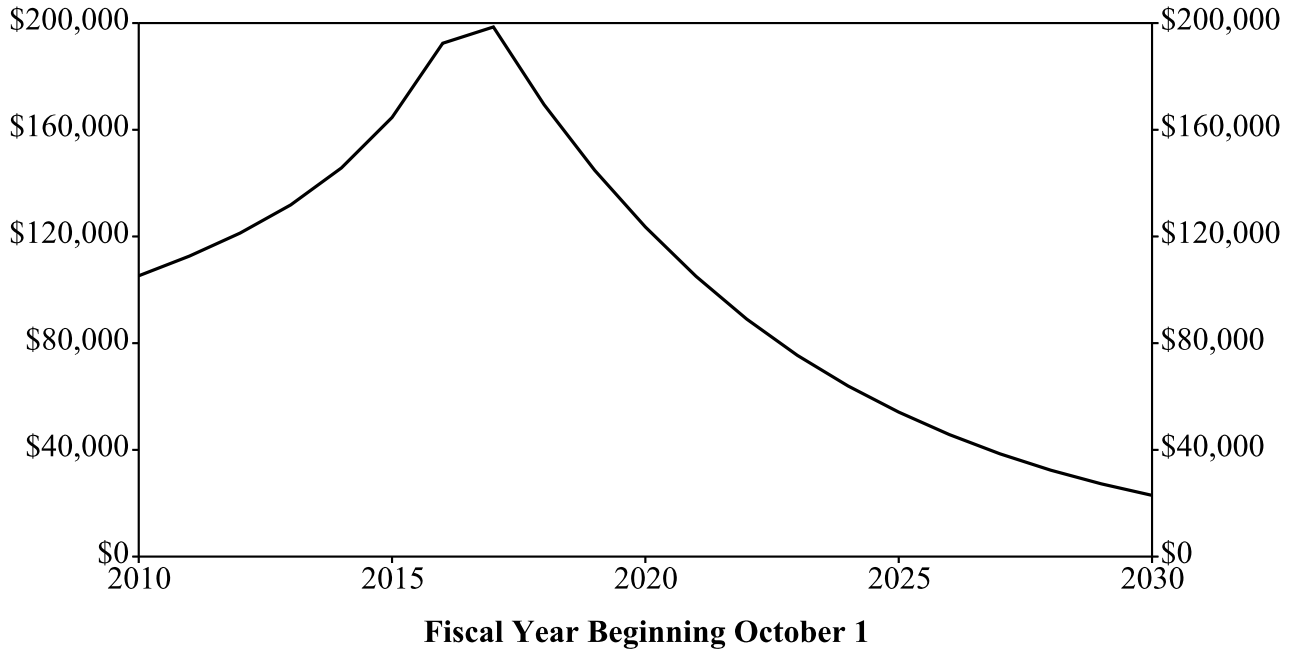
Actuarial assumptions were revised for the 2004 valuation.

Actuarial assumptions were revised for the 2008 valuation.

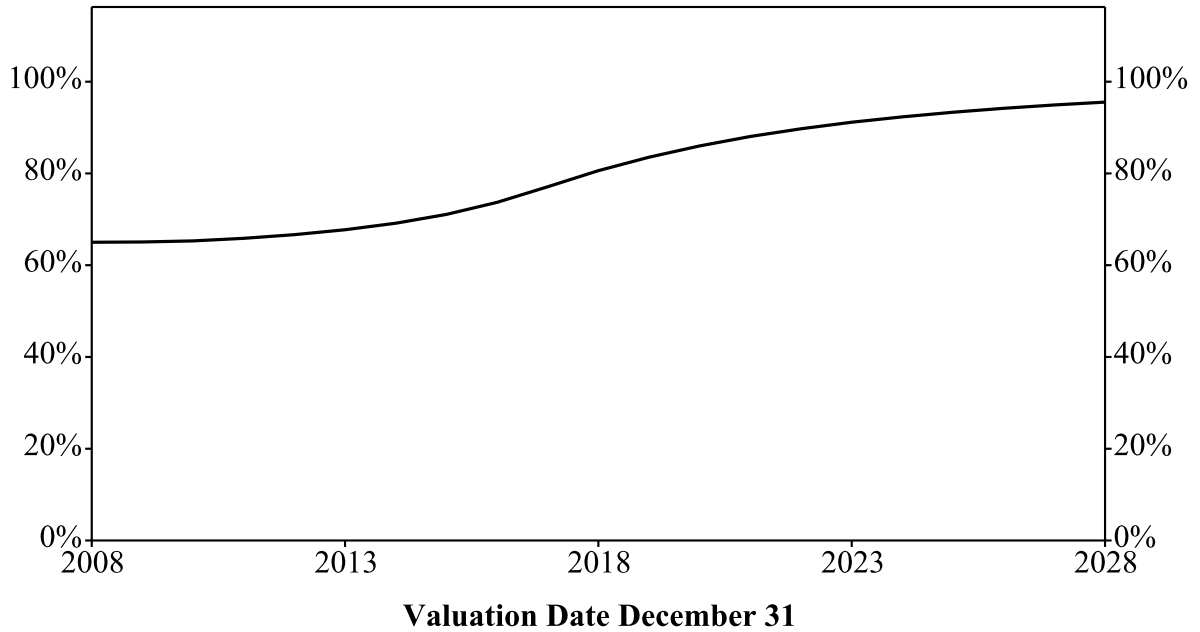
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 11 - Gnrl Local486**  
**Chart 17.5E**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.



**Saginaw County (7303)**

**Division 11 - Gnrl Local486**

**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				(1)					11
2002							1		12
2003									12
2004									12
2005	(1)						1		12
2006									12
2007	(1)	(1)							10
2008	(3)			(1)					6

**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							1	1
2002	(1)						1	1
2003								1
2004								1
2005								1
2006								1
2007							1	2
2008	(1)						1	2

**Saginaw County (7303)**  
**Division 11 - Gnrl Local486**

**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		\$	\$		\$	\$	3	\$ 51,026
2002	1	15,662					4	66,688
2003			1,164				4	67,852
2004						(10,274)	4	57,578
2005	1	13,749					5	71,327
2006							5	71,327
2007	2	50,730					7	122,057
2008	4	91,897	870			(10,319)	11	204,505

@ 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.

**Saginaw County (7303)**

**Division 11 - Gnrl Local486**

**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	\$ 64,837	\$ 0	\$ 84,328	\$ (51,026)	\$ 0	\$ 0	\$ 0	\$ 1,160,386
2002	66,687	0	54,494	(75,825)	0	0	73,358	1,279,100
2003	66,577	0	101,360	(67,561)	0	0	0	1,379,476
2004	75,686	0	94,910	(67,852)	0	0	0	1,482,220
2005	77,262	0	103,681	(72,448)	0	0	68,052	1,658,767
2006	81,401	0	134,691	(71,327)	0	0	0	1,803,532
2007	88,884	0	144,789	(88,973)	0	0	86,290	2,034,522
2008	86,340	223	81,718	(141,527)	0	(59,504)	0	2,001,772

\* 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	\$ 1,740,223	\$ 1,160,386	67%	\$ 579,837	144%
2002	2,008,522	1,279,100	64	729,422	167
2003	2,134,946	1,379,476	65	755,470	166
2004	2,286,190	1,482,220	65	803,970	170
2005	2,410,948	1,658,767	69	752,181	164
2006	2,504,715	1,803,532	72	701,183	150
2007	2,899,137	2,034,522	70	864,615	214
2008	3,076,394	2,001,772	65	1,074,622	464

**Saginaw County (7303)**  
**Division 13 - Sheriff/Cooks**

**Table 16F**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$510
Amortization of Unfunded Accrued Liability (18 years) ^	<u>3,507</u> ^
Total Long Term Contribution	4,017
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$4,017 *</b>

@ The above Employer contribution requirement is based on Member contributions of 1.00% of pay.

\* Invoices will be based on this dollar amount.

# Only applies if projected assets exceed projected liabilities as of the beginning of the October 1, 2010 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 \$47,784 and the ARC is \$53,904). 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$1,252</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$56</b>
<b>Monthly Amortization Payment:</b>	<b>\$17</b>
<b>Monthly Total:</b>	<b>\$73</b>

**Please see the Comments on the Investment Markets on page 3.**

**Saginaw County (7303)**  
**Division 13 - Sheriff/Cooks**

**Table 17F**

**Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	10	\$ 169,239	13.75%	7.70%
1995	10	180,586	14.96%	11.37%
1996	10	210,437	11.27%	10.82%
1997	4	97,070	1.99%	1.99%
1998	4	107,151	3.75%	3.74%
1999	4	108,961	2.39%	2.38%
2000	4	111,799	3.92%	3.91%
2001	4	114,783	0.00%	0.00%
2002	4	119,907	0.00%	0.00%
2003	5	145,831	7.37%	7.37%
2004	5	150,764	\$ 1,071 #	\$ 1,071 #
2005	5	156,881	\$ 1,152	\$ 1,152
2006	5	157,360	\$ 863	\$ 863
2007	5	193,655	\$ 3,466	\$ 3,466
2008	2	65,922	\$ 4,017	\$ 4,017

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

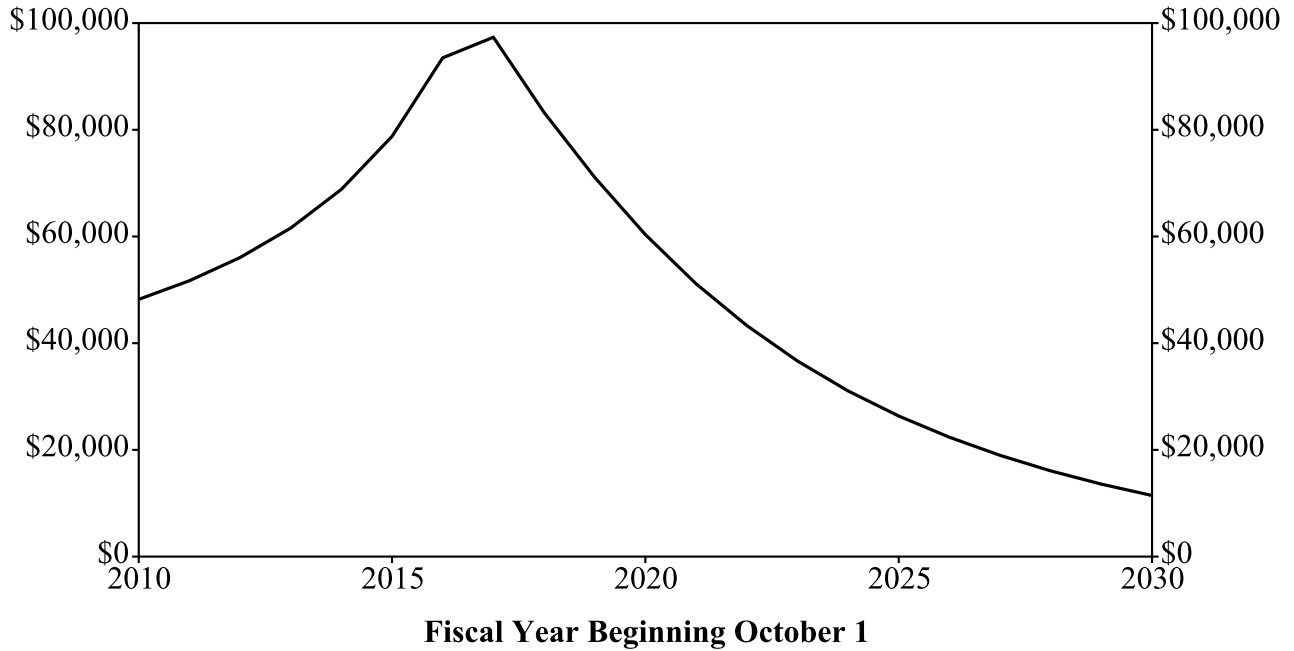
Notes:

- Adoption of Benefits B-3, F55 (20 years) and V-6 reflected in 1994 valuation.
- Actuarial assumptions were revised for the 1997 valuation.
- Adoption of Benefit F50(25 years) reflected in 2000 valuation.
- Actuarial assumptions were revised for the 2000 valuation.
- Adoption of Benefit B-4 - 80% Maximum, 1.00% Member Contributions reflected in 2001 valuation.
- Adoption of DC Plan for New Hires reflected in 2003 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

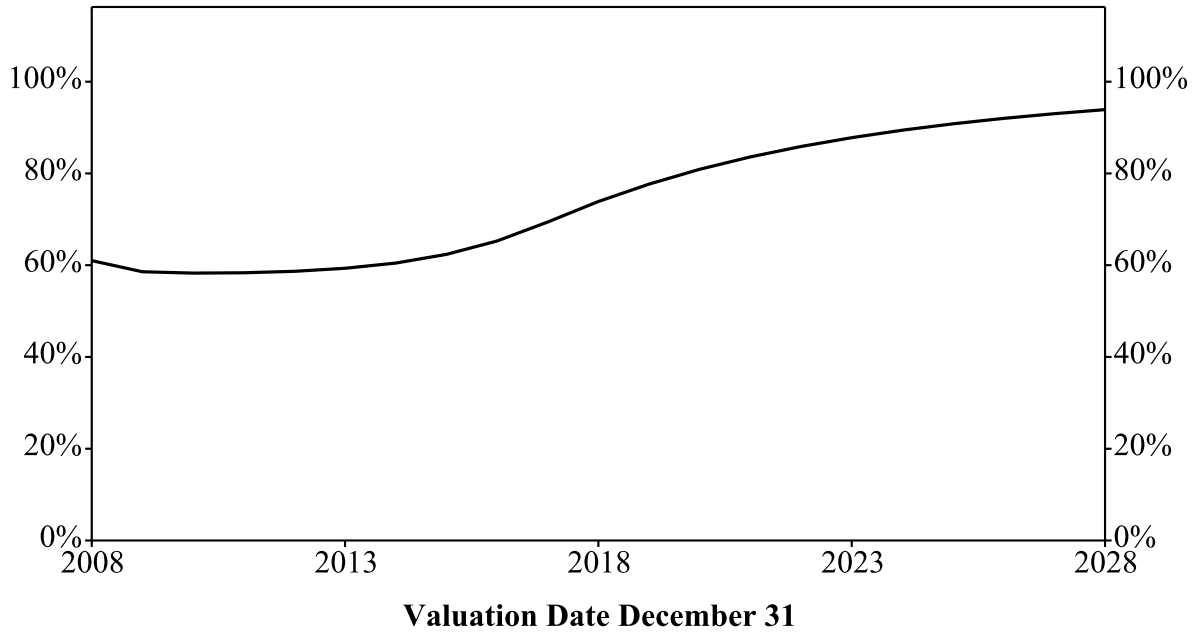
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 13 - Sheriff/Cooks**  
**Chart 17.5F**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**  
**Division 13 - Sheriff/Cooks**

**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									4
2002									4
2003	(1)							2	5
2004									5
2005									5
2006									5
2007									5
2008	(3)								2

**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								0
2002								0
2003								0
2004								0
2005								0
2006								0
2007								0
2008								0

**Saginaw County (7303)**  
**Division 13 - Sheriff/Cooks**

**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)	\$ (7,068)	\$	2	\$ 6,429
2002							2	6,429
2003	1	19,623					3	26,052
2004							3	26,052
2005							3	26,052
2006							3	26,052
2007							3	26,052
2008	3	73,281					6	99,333

@ 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.



**Saginaw County (7303)**  
**Division 13 - Sheriff/Cooks**

**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	\$ 6,420	\$ 268	\$ 54,427	\$ (10,551)	\$ 0	\$ (44)	\$ 44	\$ 761,352
2002	5,028	1,243	26,490	(6,428)	0	(44)	44	787,685
2003	9,917	5,855	68,636	(6,428)	0	0	0	865,665
2004	12,158	9,134	59,006	(26,051)	(3,556)	0	0	916,356
2005	2,970	1,569	57,422	(26,051)	0	0	0	952,266
2006	11,807	1,573	76,301	(26,051)	0	0	0	1,015,896
2007	13,095	1,936	86,687	(26,051)	0	(272,057)	0	819,506
2008	12,957	1,387	29,891	(58,213)	0	(45,064)	43,570	804,034

\* 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	\$ 639,338	\$ 761,352	119%	\$ (122,014)	0%
2002	687,760	787,685	115	(99,925)	0
2003	843,757	865,665	103	(21,908)	0
2004	897,202	916,356	102	(19,154)	0
2005	944,740	952,266	101	(7,526)	0
2006	985,858	1,015,896	103	(30,038)	0
2007	1,171,090	819,506	70	351,584	182
2008	1,326,516	804,034	61	522,482	793

# Saginaw County (7303)

## Division 14 - Nurses

### Table 16G

#### Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning October 1, 2010

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$1,105
Amortization of Unfunded Accrued Liability (16 years) ^	<u>2,860</u> ^
Total Long Term Contribution	3,965
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$3,965 *</b>

@ 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 October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$35,688 and the ARC is \$48,948). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

Increase in Actuarial Accrued Liabilities:	\$(2,174)
Increase in Computed Long Term Employer Contribution	
Monthly Normal Cost:	\$54
Monthly Amortization Payment:	\$(7)
Monthly Total:	\$47

Please see the Comments on the Investment Markets on page 3.

# Saginaw County (7303)

## Division 14 - Nurses

### Table 17G

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	24	\$ 777,699	14.61%	8.18%
1995	22	756,375	15.26%	11.60%
1996	21	747,645	14.85%	14.26%
1997	19	699,954	14.73%	14.73%
1998	18	692,836	15.12%	15.12%
1999	15	591,264	12.95%	12.95%
2000	13	510,442	12.70%	12.70%
2001	9	359,471	16.02%	16.02%
2002	9	378,107	18.82%	18.82%
2003	9	375,375	19.99%	19.99%
2004	7	296,759	\$ 5,575 #	\$ 5,575 #
2005	7	313,024	\$ 6,572	\$ 6,572
2006	6	308,972	\$ 7,474	\$ 7,474
2007	6	288,478	\$ 4,989	\$ 4,989
2008	3	146,401	\$ 3,965	\$ 3,965

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

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.

Actuarial assumptions were revised for the 2008 valuation.

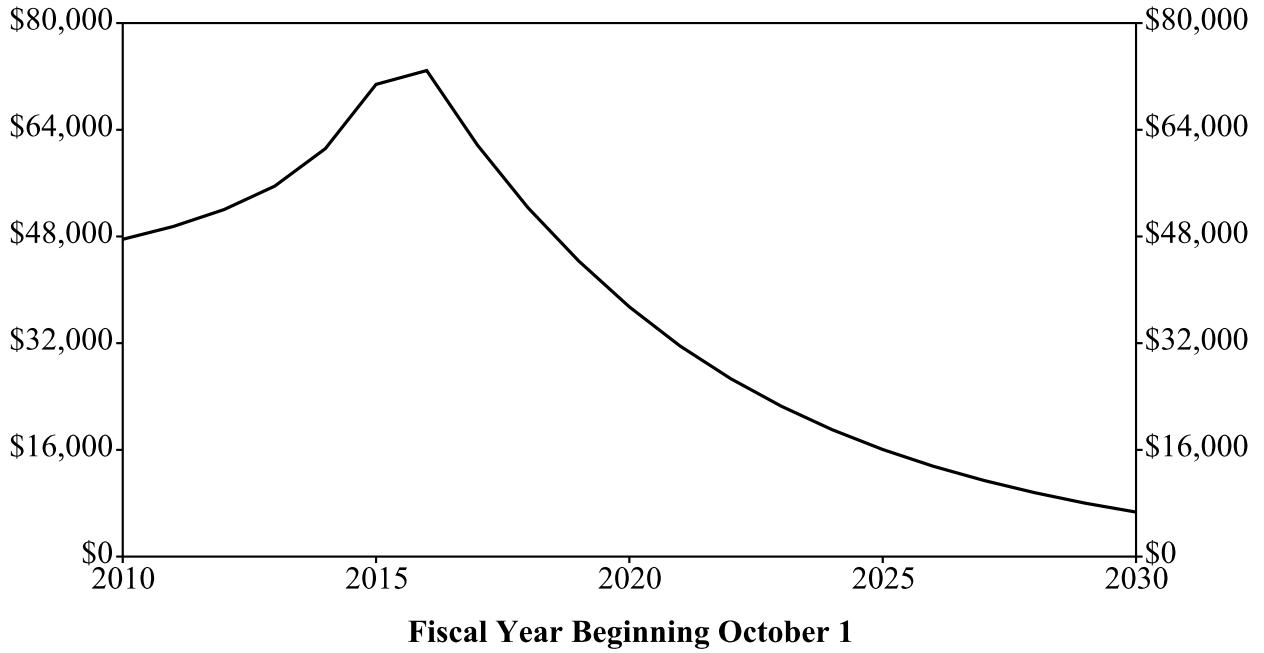
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

# Saginaw County (7303)

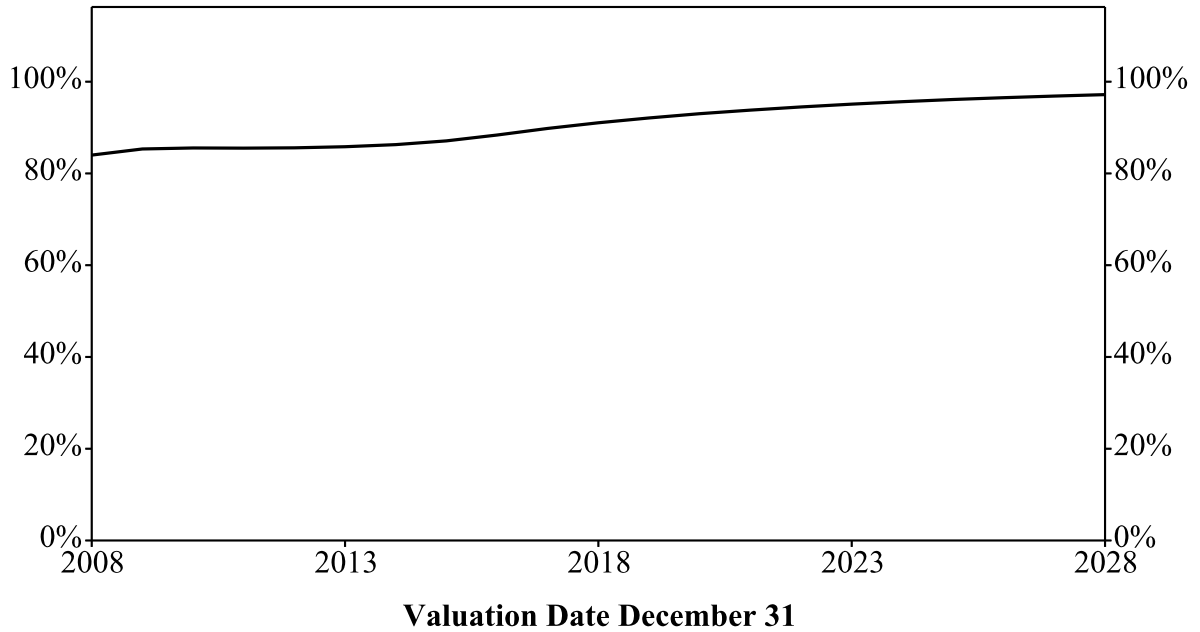
## Division 14 - Nurses

### Chart 17.5G

#### Projected Annual Employer Contributions



#### Projected Funded Percentage



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**

**Division 14 - Nurses**

**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	(4)								9
2002									9
2003									9
2004	(2)								7
2005									7
2006						(1)			6
2007									6
2008	(2)			(1)					3

**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)							4
2002								4
2003	(1)							3
2004								3
2005								3
2006								3
2007								3
2008				(1)			1	3

# Saginaw County (7303)

## Division 14 - Nurses

**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	5	\$ 96,967	\$		\$	\$	12	\$ 200,884
2002							12	200,884
2003	1	6,423					13	207,307
2004	2	32,941					15	240,248
2005							15	240,248
2006							15	240,248
2007				(1)	(25,213)		14	215,035
2008	2	44,601					16	259,636

@ 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.

# Saginaw County (7303)

## Division 14 - Nurses

**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	\$ 68,287	\$ 0	\$ 183,232	\$ (133,522)	\$ 0	\$ 0	\$ 0	\$ 2,575,889
2002	50,454	0	54,843	(200,884)	0	0	0	2,480,302
2003	51,399	0	157,173	(205,166)	0	0	0	2,483,708
2004	56,568	0	152,945	(220,474)	0	0	0	2,472,747
2005	59,823	0	147,186	(240,248)	0	(97)	97	2,439,508
2006	67,586	0	185,424	(240,248)	0	(73,000)	0	2,379,270
2007	69,891	0	190,011	(223,439)	(4,111)	0	37,691	2,449,313
2008	81,570	0	97,381	(241,070)	0	0	88,905	2,476,099

\* 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	\$ 2,974,870	\$ 2,575,889	87%	\$ 398,981	111%
2002	3,072,421	2,480,302	81	592,119	157
2003	3,116,960	2,483,708	80	633,252	169
2004	3,086,739	2,472,747	80	613,992	207
2005	3,155,553	2,439,508	77	716,045	229
2006	3,203,370	2,379,270	74	824,100	267
2007	2,969,253	2,449,313	82	519,940	180
2008	2,935,889	2,476,099	84	459,790	314

# Saginaw County (7303)

## Division 15 - Hlth Dept

### Table 16H

#### Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning October 1, 2010

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$3,905
Amortization of Unfunded Accrued Liability (16 years) ^	<u>17,247</u> ^
Total Long Term Contribution	21,152
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$21,152 *</b>

@ 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 October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$215,196 and the ARC is \$262,056). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(25,216)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$517</b>
<b>Monthly Amortization Payment:</b>	<b>\$(105)</b>
<b>Monthly Total:</b>	<b>\$412</b>

Please see the Comments on the Investment Markets on page 3.



# Saginaw County (7303)

## Division 15 - Hlth Dept

### Table 17H

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	82	\$ 1,560,673	14.29%	8.00%
1995	68	1,340,077	15.00%	11.40%
1996	64	1,326,109	15.81%	15.17%
1997	58	1,226,415	15.71%	15.71%
1998	53	1,239,292	15.66%	15.66%
1999	48	1,153,719	13.84%	13.83%
2000	43	1,140,911	14.17%	14.17%
2001	37	1,017,013	15.44%	15.44%
2002	37	1,085,665	17.05%	17.05%
2003	35	1,053,130	17.27%	17.27%
2004	34	1,061,739	\$ 15,654 #	\$ 15,654 #
2005	33	1,139,926	\$ 18,605	\$ 18,605
2006	29	949,862	\$ 15,552	\$ 15,552
2007	27	928,261	\$ 17,031	\$ 17,031
2008	17	570,302	\$ 21,152	\$ 21,152

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

Notes:

- Adoption of F50 (25 years) 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.
- Actuarial assumptions were revised for the 2008 valuation.

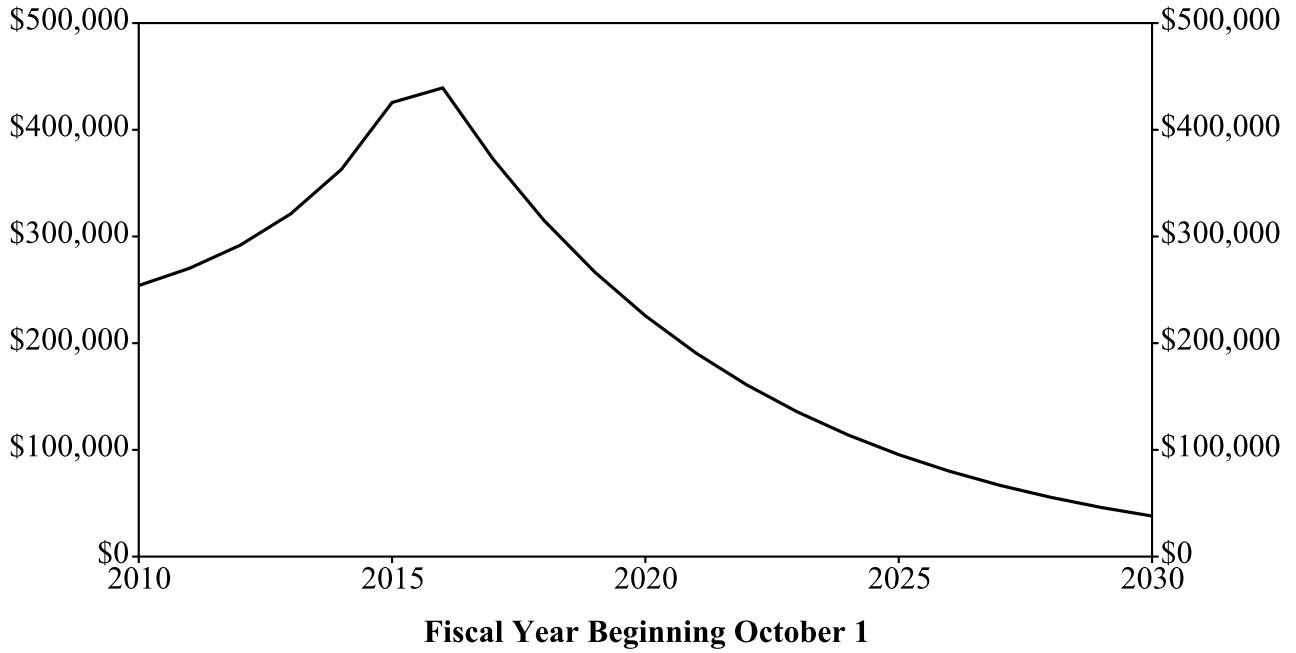
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

# Saginaw County (7303)

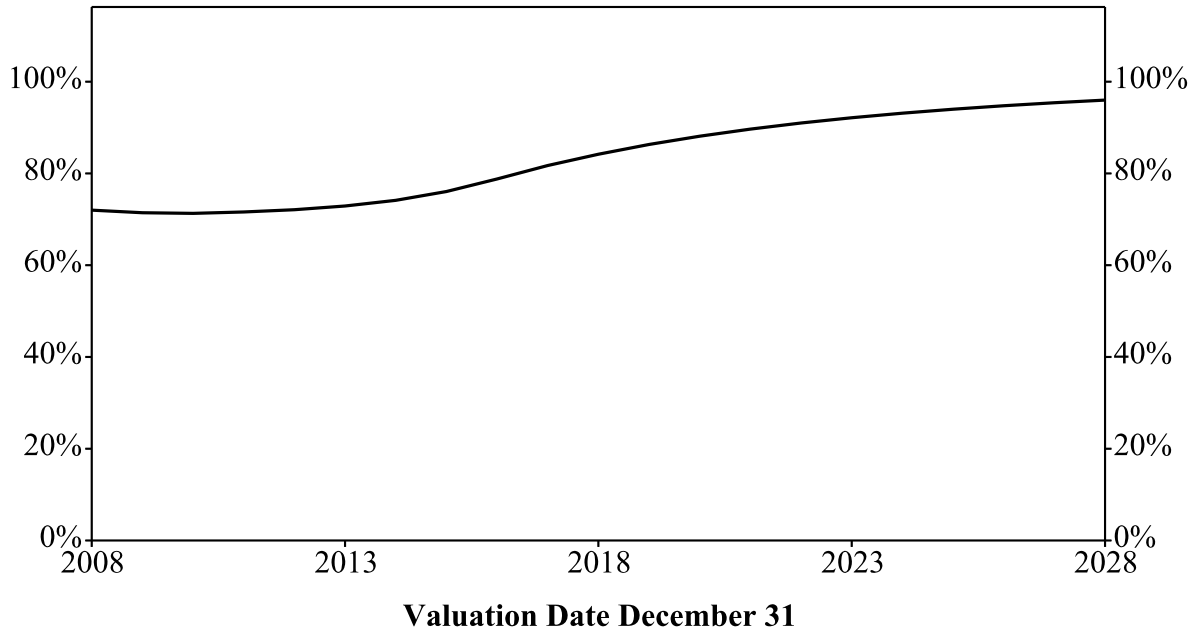
## Division 15 - Hlth Dept

### Chart 17.5H

#### Projected Annual Employer Contributions



#### Projected Funded Percentage



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**

**Division 15 - Hlth Dept**

**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	(5)			(1)					37
2002	(1)						1		37
2003	(1)			(1)					35
2004	(1)								34
2005				(1)					33
2006	(4)								29
2007	(2)								27
2008	(9)			(1)					17

**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)			3	12
2002							1	13
2003	(1)			(1)	(1)		1	11
2004								11
2005	(1)						1	11
2006								11
2007				(1)			2	12
2008				(1)			1	12

# Saginaw County (7303)

## Division 15 - Hlth Dept

**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	\$ 59,256	\$			\$ (6,589)	46	\$ 322,031
2002	1	3,368		(3)	(14,051)		44	311,348
2003	2	8,326					46	319,674
2004	2	20,928	716	(1)	(3,091)		47	338,227
2005	1	7,383		(1)	(3,368)		47	342,242
2006	4	68,132		(1)	(5,817)		50	404,557
2007	3	30,805		(2)	(6,049)		51	429,313
2008	9	198,838	134	(1)	(10,108)		59	618,177

@ 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.

# Saginaw County (7303)

## Division 15 - Hlth Dept

**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	\$ 159,463	\$ 0	\$ 390,257	\$ (300,609)	\$ (10,299)	\$ 0	\$ 28,048	\$ 5,462,027
2002	156,130	0	165,655	(313,202)	0	0	23,410	5,494,020
2003	155,233	0	399,405	(312,346)	0	(6,593)	6,593	5,736,312
2004	171,928	0	377,687	(330,518)	0	0	0	5,955,409
2005	196,099	0	377,161	(338,219)	0	(466)	466	6,190,450
2006	176,536	0	494,218	(366,504)	0	0	0	6,494,700
2007	211,168	0	535,908	(411,511)	0	(519,724)	4,892	6,315,433
2008	214,101	0	243,806	(517,830)	0	(63,489)	2,150	6,194,171

\* 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	\$ 6,635,746	\$ 5,462,027	82%	\$ 1,173,719	115%
2002	7,020,586	5,494,020	78	1,526,566	141
2003	7,192,072	5,736,312	80	1,455,760	138
2004	7,349,970	5,955,409	81	1,394,561	131
2005	7,884,053	6,190,450	79	1,693,603	149
2006	7,919,060	6,494,700	82	1,424,360	150
2007	8,229,526	6,315,433	77	1,914,093	206
2008	8,626,232	6,194,171	72	2,432,061	426

**Saginaw County (7303)**  
**Division 16 - Elctd Commsnrs**

**Table 16I**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$141
Amortization of Unfunded Accrued Liability (16 years) ^	<u>3,038</u> ^
Total Long Term Contribution	3,179
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$3,179 *</b>

@ 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 October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$37,896 and the ARC is \$39,588). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(128)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$3</b>
<b>Monthly Amortization Payment:</b>	<b>\$0</b>
<b>Monthly Total:</b>	<b>\$3</b>

**Please see the Comments on the Investment Markets on page 3.**

**Saginaw County (7303)**

**Division 16 - Elctd Commsnrs**

**Table 17I**

**Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	19	\$ 497,697	19.06%	10.67%
1995	0	0	-	-
1996	7	76,374	5.57%	5.34%
1997	16	552,453	12.47%	12.47%
1998	11	215,157	0.61%	0.60%
1999	9	206,568	0.00%	0.00%
2000	9	202,684	0.00%	0.00%
2001	7	97,015	0.00%	0.00%
2002	7	95,446	0.00%	0.00%
2003	7	98,044	0.00%	0.00%
2004	7	97,744	\$ 0 #	\$ 0 #
2005	7	100,256	\$ 0	\$ 0
2006	7	98,454	\$ 0	\$ 0
2007	4	60,095	\$ 2,347	\$ 2,347
2008	2	32,688	\$ 3,179	\$ 3,179

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

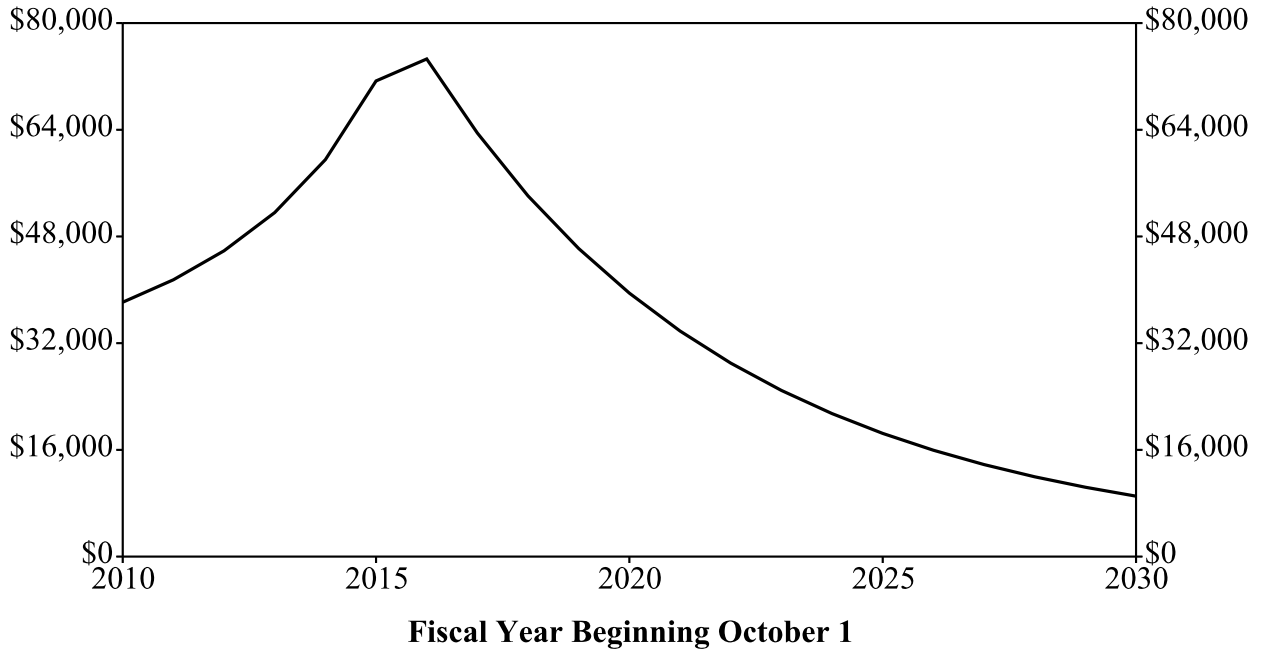
Notes:

- Adoption of Benefits FAC-3 and E-2 reflected in 1994 valuation.
- Adoption of Benefits F55 (15 years) and 25 years and out 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.
- Actuarial assumptions were revised for the 2008 valuation.

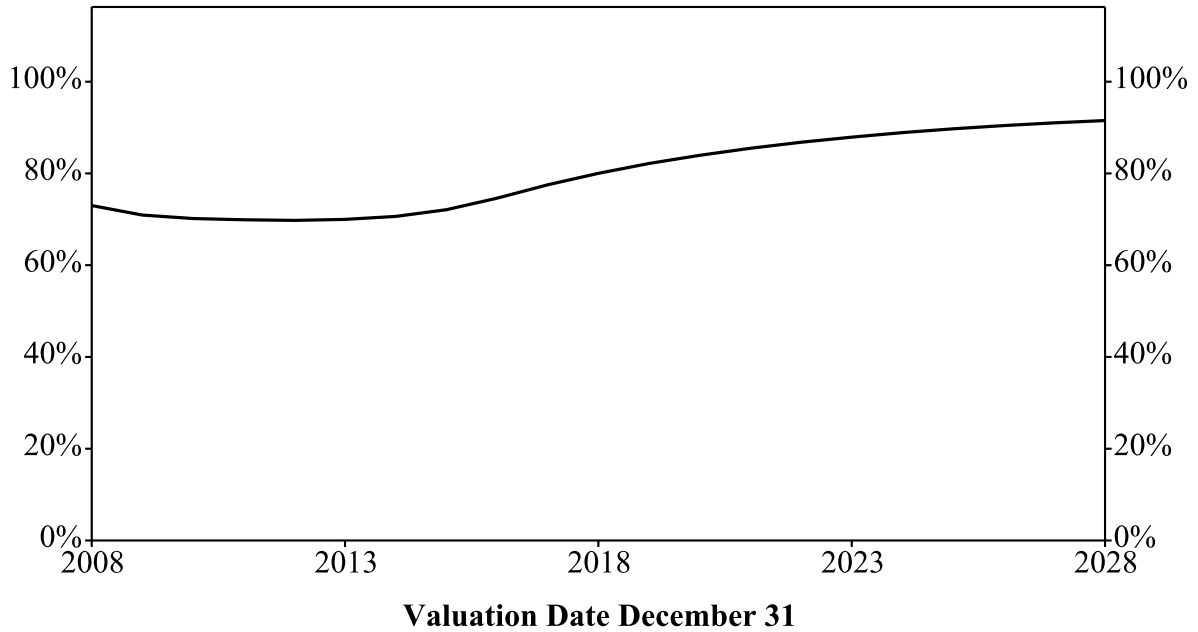
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 16 - Elctd Commsnrs**  
**Chart 17.5I**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.



**Saginaw County (7303)**  
**Division 16 - Elctd Commsnrs**

**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				(1)		(2)		1	7
2002	(1)							1	7
2003									7
2004									7
2005									7
2006									7
2007	(1)			(2)					4
2008	(2)								2

**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	7
2002	(1)	(1)						5
2003	(1)							4
2004								4
2005								4
2006								4
2007							2	6
2008	(1)							5

**Saginaw County (7303)**  
**Division 16 - Elctd Commsnrs**

**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		\$	\$ 1,044		\$	\$	5	\$ 84,901
2002	2	6,588	1,044				7	92,533
2003	1	3,138	1,206				8	96,877
2004			1,285				8	98,162
2005			1,284				8	99,446
2006			1,283				8	100,729
2007	1	7,674	1,242				9	109,645
2008	3	12,979	1,433				12	124,057

@ 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.

**Saginaw County (7303)**

**Division 16 - Elctd Commsnrs**

**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	\$ 1,282	\$ 0	\$ 78,186	\$ (83,857)	\$ 0	\$ (1,938,395)	\$ 0	\$ 1,830,454
2002	0	0	44,246	(86,466)	0	(13,982)	13,982	1,788,234
2003	0	0	140,903	(95,083)	0	0	38,564	1,872,618
2004	0	0	121,316	(96,878)	0	0	0	1,897,056
2005	0	0	97,590	(98,162)	0	(160)	160	1,896,484
2006	0	0	148,998	(99,446)	0	0	0	1,946,036
2007	0	0	171,345	(103,927)	0	(824,020)	0	1,189,434
2008	0	0	38,308	(111,612)	0	(7,049)	0	1,109,081

\* 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	\$ 1,338,840	\$ 1,830,454	137%	\$ (491,614)	0%
2002	1,395,113	1,788,234	128	(393,121)	0
2003	1,460,839	1,872,618	128	(411,779)	0
2004	1,453,249	1,897,056	131	(443,807)	0
2005	1,478,703	1,896,484	128	(417,781)	0
2006	1,487,088	1,946,036	131	(458,948)	0
2007	1,484,242	1,189,434	80	294,808	491
2008	1,516,883	1,109,081	73	407,802	1,248

**Saginaw County (7303)**  
**Division 17 - Animal Control**

**Table 16J**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$711
Amortization of Unfunded Accrued Liability (16 years) ^	<u>1,159</u> ^
Total Long Term Contribution	1,870
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$1,870 *</b>

@ 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 October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$14,460 and the ARC is \$22,992). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(2,198)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$39</b>
<b>Monthly Amortization Payment:</b>	<b>\$(11)</b>
<b>Monthly Total:</b>	<b>\$28</b>

**Please see the Comments on the Investment Markets on page 3.**

# Saginaw County (7303)

## Division 17 - Animal Control

### Table 17J

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	8	\$ 190,318	12.47%	6.98%
1995	8	201,841	12.62%	9.59%
1996	7	185,667	13.61%	13.06%
1997	5	144,112	12.26%	12.26%
1998	5	160,264	12.24%	12.24%
1999	5	159,956	10.95%	10.95%
2000	5	163,723	10.37%	10.37%
2001	5	170,382	13.42%	13.42%
2002	5	178,689	14.52%	14.52%
2003	4	148,224	15.10%	15.10%
2004	2	78,857	\$ 1,932 #	\$ 1,932 #
2005	3	123,213	\$ 2,988	\$ 2,988
2006	3	119,466	\$ 2,437	\$ 2,437
2007	2	90,340	\$ 2,671	\$ 2,671
2008	2	82,737	\$ 1,870	\$ 1,870

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

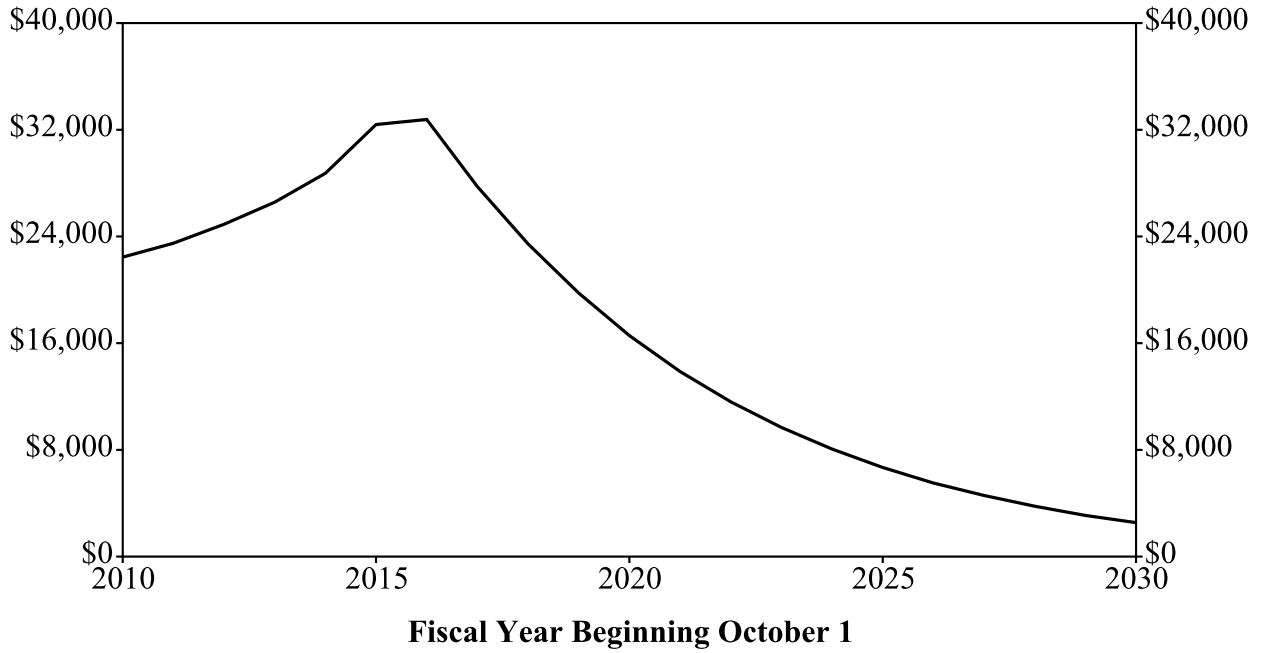
**Notes:**

- Adoption of Benefits B-3, F55 (20 years) and V-6 reflected in 1994 valuation.
- Actuarial assumptions were revised for the 1997 valuation.
- Actuarial assumptions were revised for the 2000 valuation.
- Adoption of Benefit F50(25) reflected in 2001 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

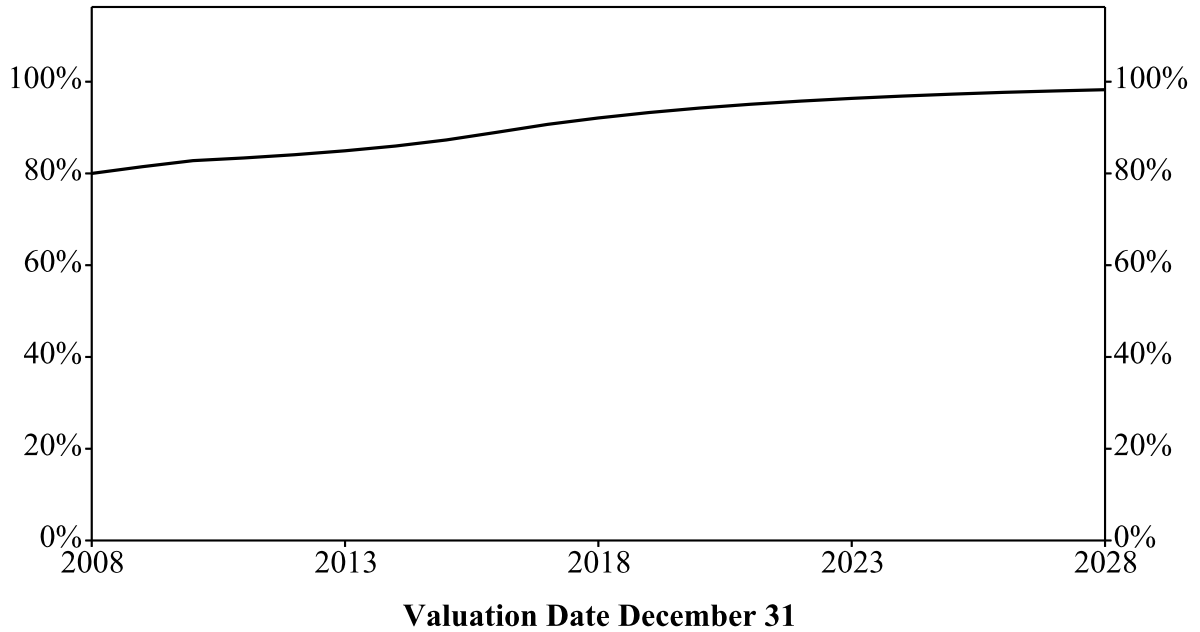
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 17 - Animal Control**  
**Chart 17.5J**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**

**Division 17 - Animal Control**

**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									5
2002									5
2003						(1)			4
2004	(2)								2
2005							1		3
2006									3
2007		(1)							2
2008									2

**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								0
2002								0
2003								0
2004								0
2005								0
2006								0
2007								0
2008								0

# Saginaw County (7303)

## Division 17 - Animal Control

### 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		\$	\$		\$	\$	1	\$ 10,986
2002							1	10,986
2003							1	10,986
2004	2	41,901					3	52,887
2005							3	52,887
2006	1	17,630		(1)	(23,507)		3	47,010
2007	1	19,026					4	66,036
2008				(1)	(10,986)		3	55,050

@ 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.



**Saginaw County (7303)**

**Division 17 - Animal Control**

**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	\$ 23,976	\$ 0	\$ 39,878	\$ (10,986)	\$ 0	\$ 0	\$ 0	\$ 549,865
2002	23,576	0	22,169	(10,986)	0	0	0	584,624
2003	16,713	0	29,726	(10,986)	0	(50,311)	0	569,766
2004	14,690	0	36,404	(38,920)	0	0	0	581,940
2005	16,670	0	41,106	(52,887)	0	0	60,189	647,018
2006	19,495	0	50,197	(51,907)	0	0	0	664,803
2007	26,352	0	52,496	(51,767)	0	0	36,300	728,184
2008	34,203	0	30,692	(54,134)	0	0	4,689	743,634

\* 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	\$ 720,081	\$ 549,865	76%	\$ 170,216	100%
2002	790,449	584,624	74	205,825	115
2003	752,421	569,766	76	182,655	123
2004	843,449	581,940	69	261,509	332
2005	1,001,215	647,018	65	354,197	287
2006	929,221	664,803	72	264,418	221
2007	1,037,974	728,184	70	309,790	343
2008	927,730	743,634	80	184,096	223

# Saginaw County (7303)

## Division 18 - Judges

### Table 16K

#### Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning October 1, 2010

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$220
Amortization of Unfunded Accrued Liability (18 years) ^	<u>1,249</u> ^
Total Long Term Contribution	1,469
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$1,469 *</b>

@ 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 October 1, 2010 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 \$17,016 and the ARC is \$19,656). 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

Increase in Actuarial Accrued Liabilities:	\$(1,064)
Increase in Computed Long Term Employer Contribution	
Monthly Normal Cost:	\$13
Monthly Amortization Payment:	\$(3)
Monthly Total:	\$10

Please see the Comments on the Investment Markets on page 3.

# Saginaw County (7303)

## Division 18 - Judges

### Table 17K

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	5	\$ 141,275	18.33%	10.26%
1995	5	142,805	18.73%	14.24%
1996	5	151,018	18.54%	17.80%
1997	5	133,465	16.05%	16.05%
1998	5	133,465	13.69%	13.69%
1999	4	110,914	13.32%	13.30%
2000	4	109,736	16.18%	16.18%
2001	4	109,736	17.46%	17.46%
2002	4	109,736	17.67%	17.67%
2003	4	109,736	12.11%	12.11%
2004	4	109,736	\$ 1,027 #	\$ 1,027 #
2005	4	109,736	\$ 626	\$ 626
2006	3	82,302	\$ 1,439	\$ 1,439
2007	3	82,302	\$ 1,857	\$ 1,857
2008	2	54,868	\$ 1,469	\$ 1,469

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

**Notes:**

- Adoption of Benefits B-4 and F50 (25 years) reflected in 1994 valuation.
- Adoption of Benefits F55 (15 years) and 25 years and out 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 Benefit E-2 (2.5%) reflected in 2001 valuation.
- Adoption of DC Plan for New Hires reflected in 2003 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

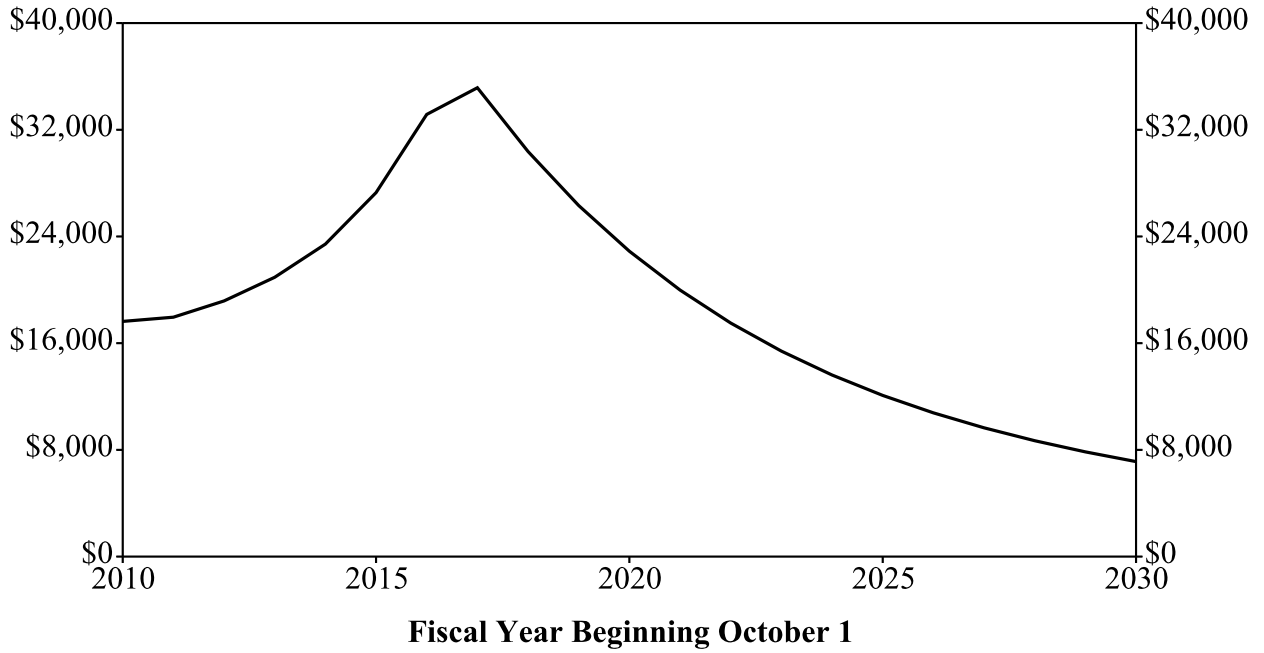
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

# Saginaw County (7303)

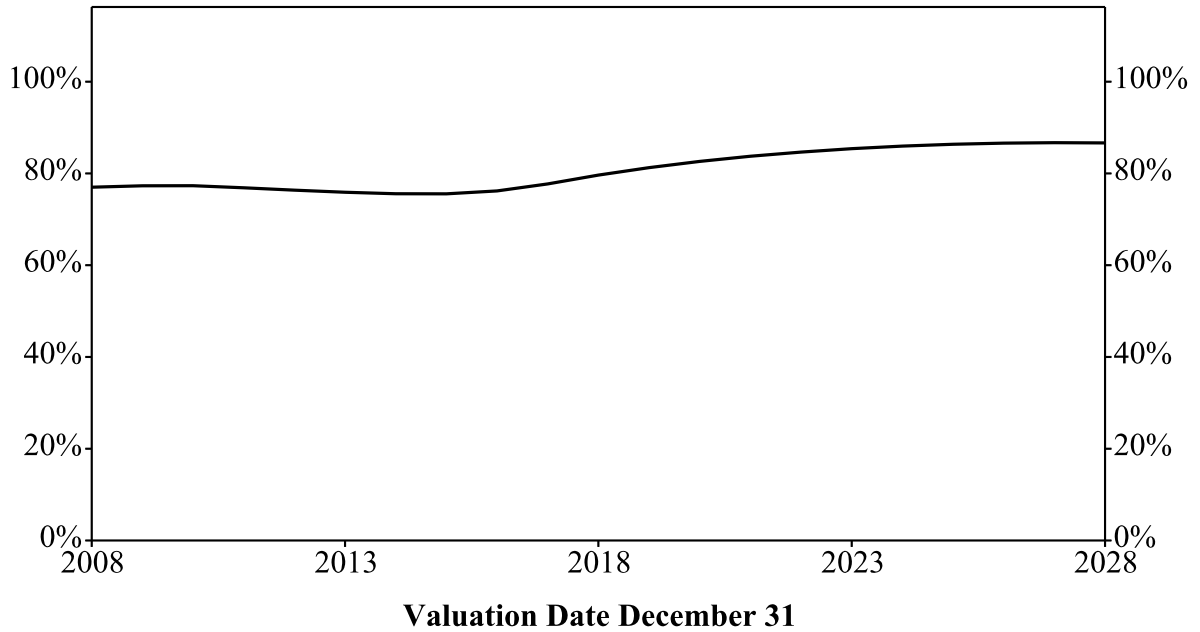
## Division 18 - Judges

### Chart 17.5K

#### Projected Annual Employer Contributions



#### Projected Funded Percentage



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**

**Division 18 - Judges**

**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									4
2002									4
2003									4
2004									4
2005									4
2006	(1)								3
2007									3
2008						(1)			2

**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								1
2002								1
2003	(1)							0
2004								0
2005								0
2006								0
2007								0
2008								0

# Saginaw County (7303)

## Division 18 - Judges

**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		\$	\$		\$	\$	3	\$ 21,989
2002							3	21,989
2003	1	17,088					4	39,077
2004							4	39,077
2005							4	39,077
2006	1	13,357					5	52,434
2007			326				5	52,760
2008			326				5	53,086

@ 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.

# Saginaw County (7303)

## Division 18 - Judges

**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	\$ 18,919	\$ 0	\$ 60,453	\$ (21,989)	\$ 0	\$ 0	\$ 0	\$ 844,894
2002	20,937	0	29,369	(21,989)	0	0	0	873,211
2003	18,133	0	65,800	(34,805)	0	0	0	922,339
2004	19,222	0	60,850	(39,077)	0	0	0	963,334
2005	17,982	0	60,649	(39,077)	0	0	0	1,002,888
2006	11,898	0	79,384	(47,764)	0	0	0	1,046,406
2007	11,121	0	87,663	(52,434)	0	(202,621)	0	890,135
2008	9,951	0	20,972	(52,760)	0	(193,710)	0	674,588

\* 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	\$ 921,749	\$ 844,894	92%	\$ 76,855	70%
2002	954,529	873,211	91	81,318	74
2003	907,713	922,339	102	(14,626)	0
2004	937,968	963,334	103	(25,366)	0
2005	937,226	1,002,888	107	(65,662)	0
2006	1,118,328	1,046,406	94	71,922	87
2007	1,122,311	890,135	79	232,176	282
2008	870,777	674,588	77	196,189	358

**Saginaw County (7303)**

**Division 19 - Dist Judges**

**Table 16L**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$759
Amortization of Unfunded Accrued Liability (18 years) ^	<u>1,613</u> ^
Total Long Term Contribution	2,372
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$2,372 *</b>

@ 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 October 1, 2010 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 \$21,972 and the ARC is \$31,080). 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(2,622)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$45</b>
<b>Monthly Amortization Payment:</b>	<b>\$(11)</b>
<b>Monthly Total:</b>	<b>\$34</b>

**Please see the Comments on the Investment Markets on page 3.**



# Saginaw County (7303)

## Division 19 - Dist Judges

### Table 17L

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	7	\$ 180,945	16.93%	9.48%
1995	7	186,445	16.94%	12.87%
1996	7	199,156	14.28%	13.71%
1997	6	171,377	15.96%	15.96%
1998	5	142,814	15.06%	15.06%
1999	5	135,802	10.84%	10.82%
2000	4	109,736	18.61%	18.61%
2001	4	109,736	18.07%	18.07%
2002	3	82,302	21.55%	21.55%
2003	3	82,302	21.49%	21.49%
2004	3	82,302	\$ 1,700 #	\$ 1,700 #
2005	3	82,302	\$ 1,386	\$ 1,386
2006	3	82,302	\$ 2,151	\$ 2,151
2007	3	82,302	\$ 2,139	\$ 2,139
2008	3	82,302	\$ 2,372	\$ 2,372

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

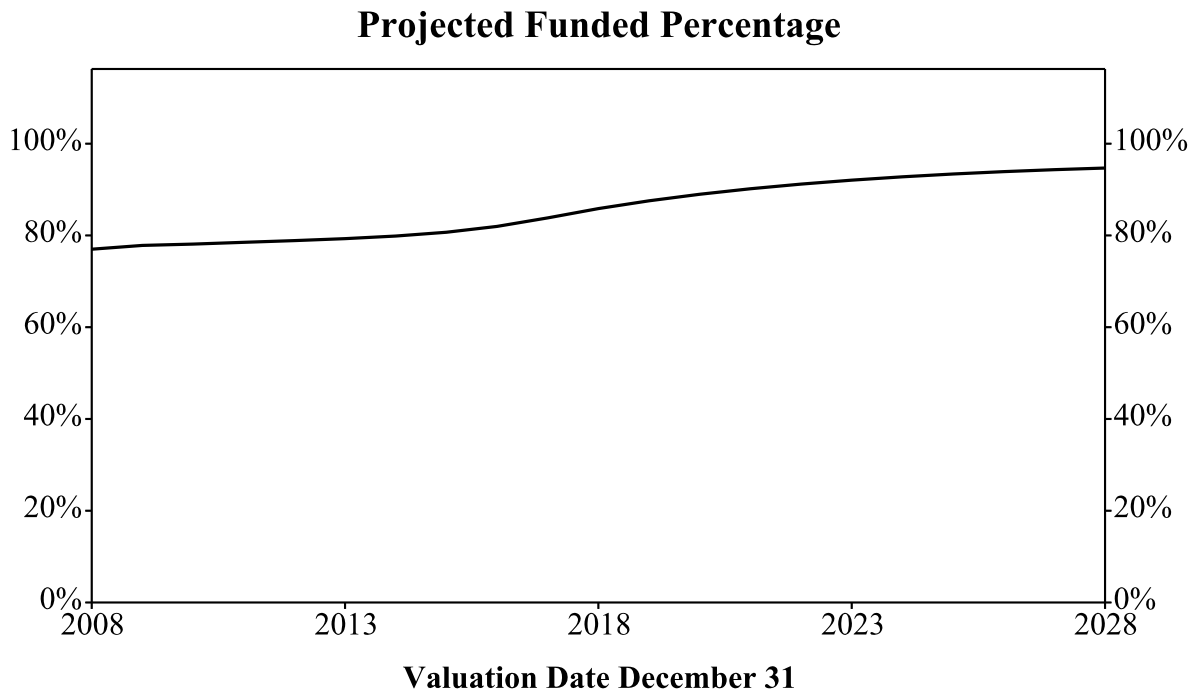
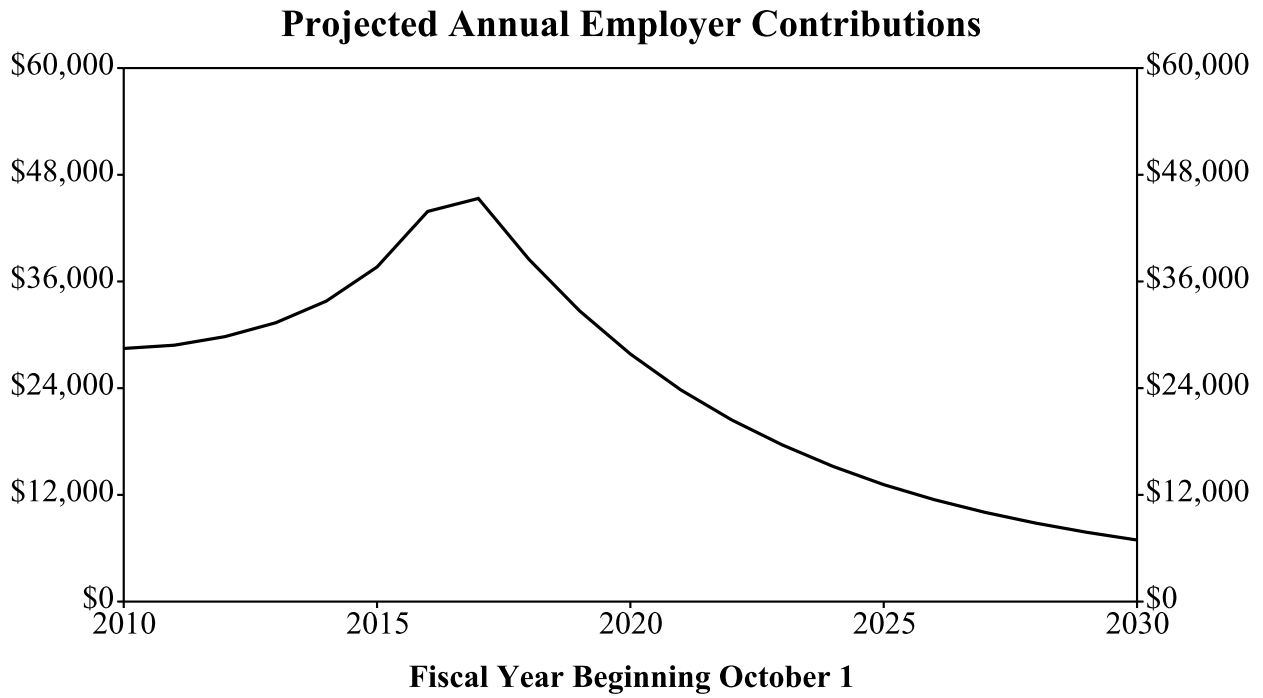
Notes:

- Adoption of Benefits B-4 and F50 (25 years) reflected in 1994 valuation.
- Adoption of Benefits F55 (15 years) and 25 years and out 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 Benefit E-2 (2.5%) reflected in 2001 valuation.
- Adoption of DC Plan for New Hires reflected in 2003 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 19 - Dist Judges**

**Chart 17.5L**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**

**Division 19 - Dist Judges**

**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	(1)								4
2002									3
2003									3
2004									3
2005									3
2006									3
2007									3
2008									3

**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								0
2002								0
2003								0
2004								0
2005								0
2006								0
2007								0
2008								0

**Saginaw County (7303)**

**Division 19 - Dist Judges**

**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		\$	\$		\$	\$	4	\$ 40,385
2002	1	15,865					5	56,250
2003			387				5	56,637
2004			387				5	57,024
2005			387	(1)	(7,188)		4	50,223
2006			387				4	50,610
2007			387				4	50,997
2008			387				4	51,384

@ 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.

**Saginaw County (7303)**

**Division 19 - Dist Judges**

**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	\$ 19,748	\$ 0	\$ 57,631	\$ (40,384)	\$ 0	\$ 0	\$ 0	\$ 815,000
2002	17,499	0	20,556	(48,123)	0	0	0	804,932
2003	15,197	0	53,150	(56,249)	0	0	0	817,030
2004	15,643	0	51,140	(56,636)	0	0	0	827,177
2005	17,725	0	50,520	(53,429)	0	0	0	841,993
2006	18,705	0	66,266	(50,222)	0	0	0	876,742
2007	19,458	0	71,456	(50,609)	0	(63,120)	0	853,927
2008	18,927	0	34,810	(50,996)	0	(2,567)	0	854,101

\* 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	\$ 903,924	\$ 815,000	90%	\$ 88,924	81%
2002	930,838	804,932	86	125,906	153
2003	937,146	817,030	87	120,116	146
2004	969,466	827,177	85	142,289	173
2005	926,324	841,993	91	84,331	102
2006	1,078,351	876,742	81	201,609	245
2007	1,087,270	853,927	79	233,343	284
2008	1,102,321	854,101	77	248,220	302

**Saginaw County (7303)**

**Division 20 - Sheriff FOP**

**Table 16M**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$5,737
Amortization of Unfunded Accrued Liability (18 years) ^	<u>11,221</u> ^
Total Long Term Contribution	16,958
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$16,958 *</b>

@ 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 October 1, 2010 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 \$152,868 and the ARC is \$221,712). 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(17,554)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$1,140</b>
<b>Monthly Amortization Payment:</b>	<b>\$38</b>
<b>Monthly Total:</b>	<b>\$1,178</b>

**Please see the Comments on the Investment Markets on page 3.**

**Saginaw County (7303)**

**Division 20 - Sheriff FOP**

**Table 17M**

**Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	15	\$ 674,208	16.91%	9.47%
1995	14	650,609	19.07%	14.49%
1996	14	673,136	18.20%	17.48%
1997	14	695,760	19.29%	19.29%
1998	14	734,151	18.18%	18.18%
1999	15	795,772	15.97%	15.97%
2000	15	800,689	18.91%	18.91%
2001	15	828,759	19.51%	19.51%
2002	15	843,148	20.73%	20.73%
2003	15	857,575	20.53%	20.53%
2004	14	813,678	\$ 14,728 #	\$ 14,728 #
2005	13	750,653	\$ 13,134	\$ 13,134
2006	12	968,028	\$ 24,393	\$ 24,393
2007	11	721,835	\$ 12,663	\$ 12,663
2008	8	556,083	\$ 16,958	\$ 16,958

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

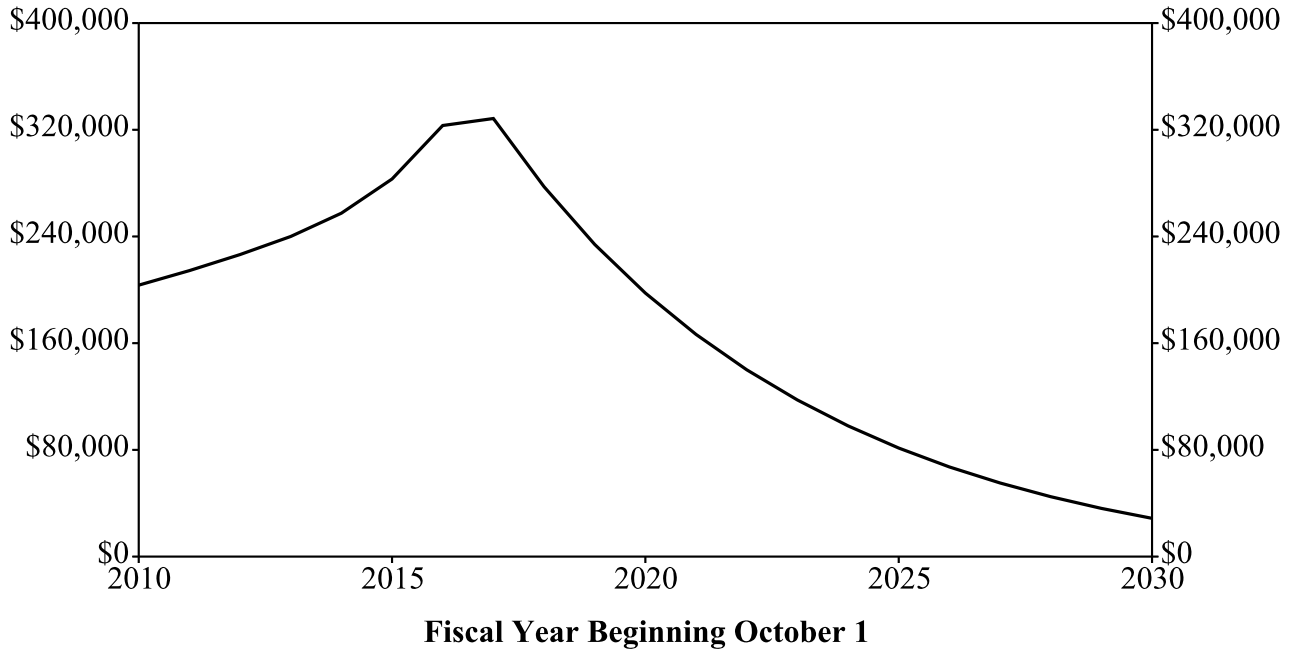
Notes:

- Adoption of Benefit B-4 reflected in 1994 valuation.
- Actuarial assumptions were revised for the 1997 valuation.
- Adoption of Benefit F55(15 years) reflected in 2000 valuation.
- Adoption of Benefit 25 and Out reflected in 2000 valuation.
- Actuarial assumptions were revised for the 2000 valuation.
- Adoption of DC Plan for New Hires reflected in 2003 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

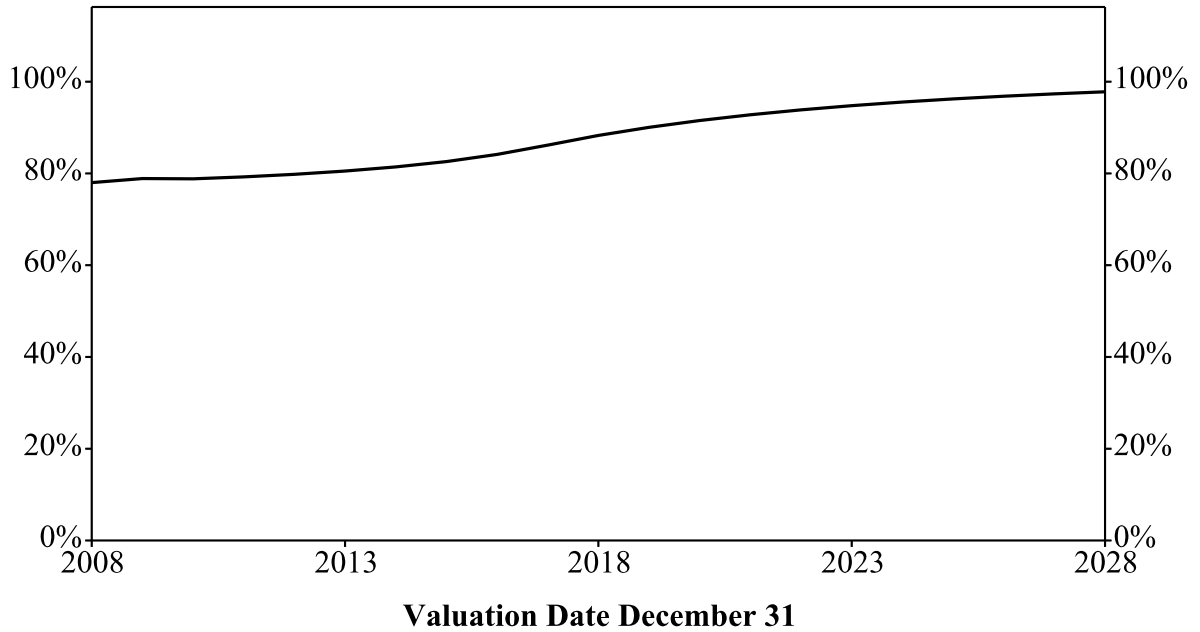
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 20 - Sheriff FOP**  
**Chart 17.5M**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.



**Saginaw County (7303)**

**Division 20 - Sheriff FOP**

**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						(1)	1		15
2002	(1)						1		15
2003									15
2004					(1)				14
2005				(1)		(1)	1		13
2006	(3)						1	1	12
2007	(1)								11
2008	(3)								8

**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								0
2002								0
2003								0
2004								0
2005							1	1
2006		(1)						0
2007								0
2008								0

**Saginaw County (7303)**

**Division 20 - Sheriff FOP**

**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		\$	\$		\$	\$	7	\$ 199,777
2002	1	32,843					8	232,620
2003							8	232,620
2004							8	232,620
2005							8	232,620
2006	3	126,180					11	358,800
2007	1	45,904					12	404,704
2008	3	124,331					15	529,035

@ 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.

**Saginaw County (7303)**

**Division 20 - Sheriff FOP**

**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	\$ 155,061	\$ 84	\$ 287,302	\$ (199,777)	\$ 0	\$ (69,351)	\$ 25,441	\$ 3,974,095
2002	147,087	78	163,074	(207,988)	0	0	123,065	4,199,411
2003	163,837	0	318,504	(232,620)	0	0	0	4,449,132
2004	168,962	0	299,132	(232,620)	(2,517)	0	0	4,682,089
2005	158,301	0	287,795	(232,620)	0	(219,225)	42,330	4,718,670
2006	213,410	0	388,751	(313,812)	0	0	135,608	5,142,627
2007	172,751	0	402,718	(385,576)	0	0	771,550	6,104,070
2008	190,833	221	265,826	(470,641)	0	0	229,283	6,319,592

\* 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	\$ 5,462,126	\$ 3,974,095	73%	\$ 1,488,031	180%
2002	5,921,280	4,199,411	71	1,721,869	204
2003	6,099,754	4,449,132	73	1,650,622	192
2004	6,200,918	4,682,089	76	1,518,829	187
2005	5,996,764	4,718,670	79	1,278,094	170
2006	7,838,478	5,142,627	66	2,695,851	278
2007	7,450,313	6,104,070	82	1,346,243	187
2008	8,118,694	6,319,592	78	1,799,102	324

**Saginaw County (7303)**  
**Division 21 - Shrrff/Lts/Capts**

**Table 16N**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$864
Amortization of Unfunded Accrued Liability (18 years) ^	<u>7,497</u> ^
Total Long Term Contribution	8,361
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$8,361 *</b>

@ 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 October 1, 2010 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 \$102,132 and the ARC is \$112,500). 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(3,127)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$41</b>
<b>Monthly Amortization Payment:</b>	<b>\$(17)</b>
<b>Monthly Total:</b>	<b>\$24</b>

**Please see the Comments on the Investment Markets on page 3.**

**Saginaw County (7303)**  
**Division 21 - Shrrff/Lts/Capts**

**Table 17N**

**Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	3	\$ 144,094	20.90%	11.71%
1995	3	143,353	40.35%	30.66%
1996	3	149,012	40.98%	39.34%
1997	3	159,135	46.20%	46.20%
1998	3	176,555	44.66%	44.66%
1999	3	174,388	41.12%	41.12%
2000	2	120,715	44.24%	44.24%
2001	3	188,158	42.35%	42.35%
2002	3	196,150	41.97%	41.97%
2003	3	200,804	41.41%	41.41%
2004	3	204,549	\$ 7,651 #	\$ 7,651 #
2005	3	214,537	\$ 10,856	\$ 10,856
2006	3	219,058	\$ 11,067	\$ 11,067
2007	2	143,928	\$ 6,217	\$ 6,217
2008	1	71,891	\$ 8,361	\$ 8,361

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

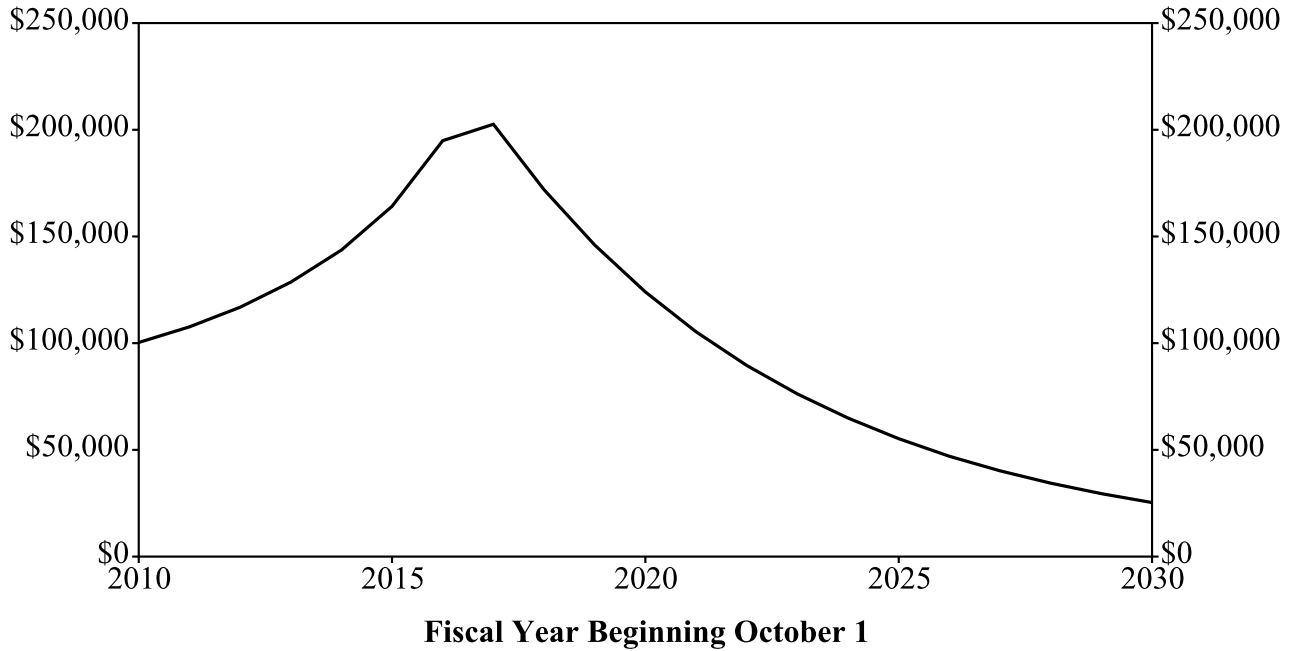
Notes:

- Adoption of Benefit B-4 reflected in 1994 valuation.
- Actuarial assumptions were revised for the 1997 valuation.
- Actuarial assumptions were revised for the 2000 valuation.
- Adoption of Benefit F55(15), F/N(25), E-2 (2.5%) reflected in 2001 valuation.
- Adoption of DC Plan for New Hires reflected in 2003 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

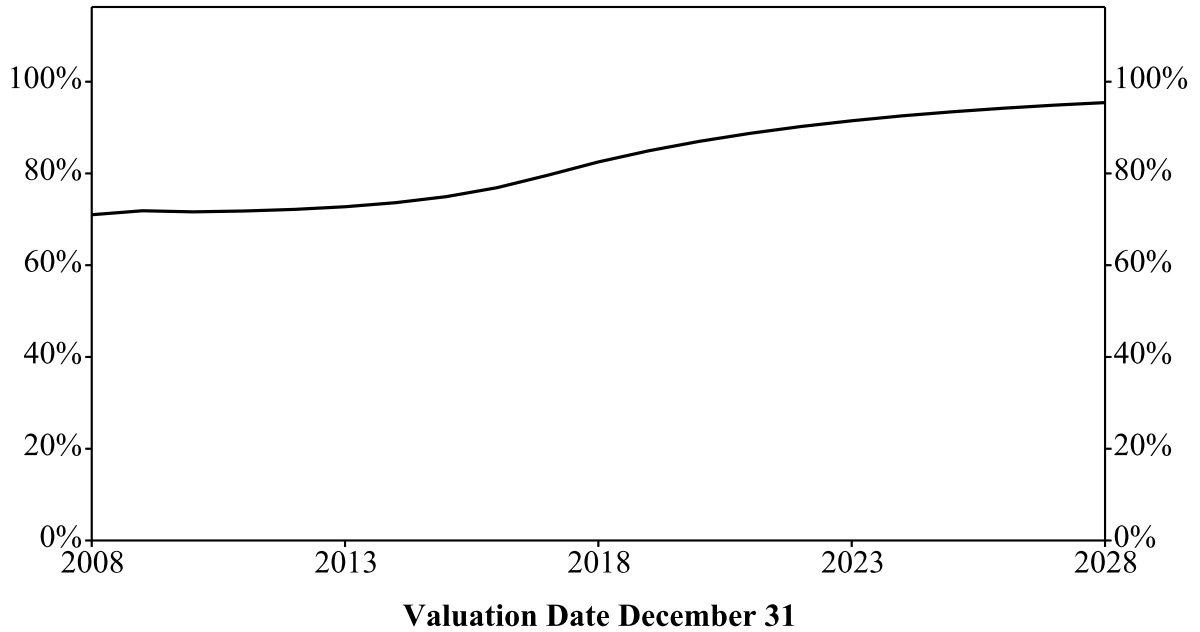
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 21 - Shrrff/Lts/Capts**  
**Chart 17.5N**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**  
**Division 21 - Shrrff/Lts/Capts**

**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							1		3
2002									3
2003									3
2004									3
2005	(1)						1		3
2006									3
2007	(1)								2
2008	(1)								1

**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
2008								0

**Saginaw County (7303)**  
**Division 21 - Shrff/Lts/Capts**

**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		\$	\$		\$	\$	5	\$ 130,368
2002							5	130,368
2003							5	130,368
2004							5	130,368
2005	1	51,459					6	181,827
2006			1,287				6	183,114
2007	1	45,266	1,286				7	229,666
2008	1	56,118	6,982				8	292,766

@ 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.



**Saginaw County (7303)**

**Division 21 - Shrrff/Lts/Capts**

**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	\$ 98,927	\$ 0	\$ 110,779	\$ (130,367)	\$ 0	\$ 0	\$ 97,618	\$ 1,557,538
2002	101,531	0	48,751	(130,367)	0	0	0	1,577,453
2003	87,730	0	113,971	(130,367)	0	0	0	1,648,787
2004	86,402	0	107,921	(130,367)	0	0	0	1,712,743
2005	98,333	0	128,007	(151,809)	0	0	295,363	2,082,637
2006	91,716	0	164,139	(181,826)	0	0	0	2,156,666
2007	101,427	0	162,149	(183,113)	0	0	652,454	2,889,583
2008	130,905	0	121,079	(246,653)	0	0	53,375	2,948,289

\* 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	\$ 2,651,070	\$ 1,557,538	59%	\$ 1,093,532	581%
2002	2,703,305	1,577,453	58	1,125,852	574
2003	2,734,662	1,648,787	60	1,085,875	541
2004	2,799,352	1,712,743	61	1,086,609	531
2005	3,663,346	2,082,637	57	1,580,709	737
2006	3,723,126	2,156,666	58	1,566,460	715
2007	3,836,042	2,889,583	75	946,459	658
2008	4,139,263	2,948,289	71	1,190,974	1,657

**Saginaw County (7303)**  
**Division 23 - P.O.A.M. Non 312**

**Table 160**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$2,547
Amortization of Unfunded Accrued Liability (18 years) ^	<u>18,339</u> ^
Total Long Term Contribution	20,886
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$20,886 *</b>

@ The above Employer contribution requirement is based on Member contributions of 4.00% of pay.

\* Invoices will be based on this dollar amount.

# Only applies if projected assets exceed projected liabilities as of the beginning of the October 1, 2010 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 \$249,840 and the ARC is \$280,404). 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$1,437</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$266</b>
<b>Monthly Amortization Payment:</b>	<b>\$50</b>
<b>Monthly Total:</b>	<b>\$316</b>

**Please see the Comments on the Investment Markets on page 3.**

**Saginaw County (7303)**

**Division 23 - P.O.A.M. Non 312**

**Table 170**

**Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1999	25	\$ 1,004,629	10.19%	10.18%
2000	22	928,589	15.19%	15.19%
2001	21	856,902	16.62%	16.62%
2002	18	830,780	19.53%	19.53%
2003	18	832,574	20.64%	20.64%
2004	18	891,992	\$ 18,347 #	\$ 18,347 #
2005	15	786,868	\$ 18,877	\$ 18,877
2006	13	656,257	\$ 15,580	\$ 15,580
2007	12	693,801	\$ 15,523	\$ 15,523
2008	6	338,658	\$ 20,886	\$ 20,886

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

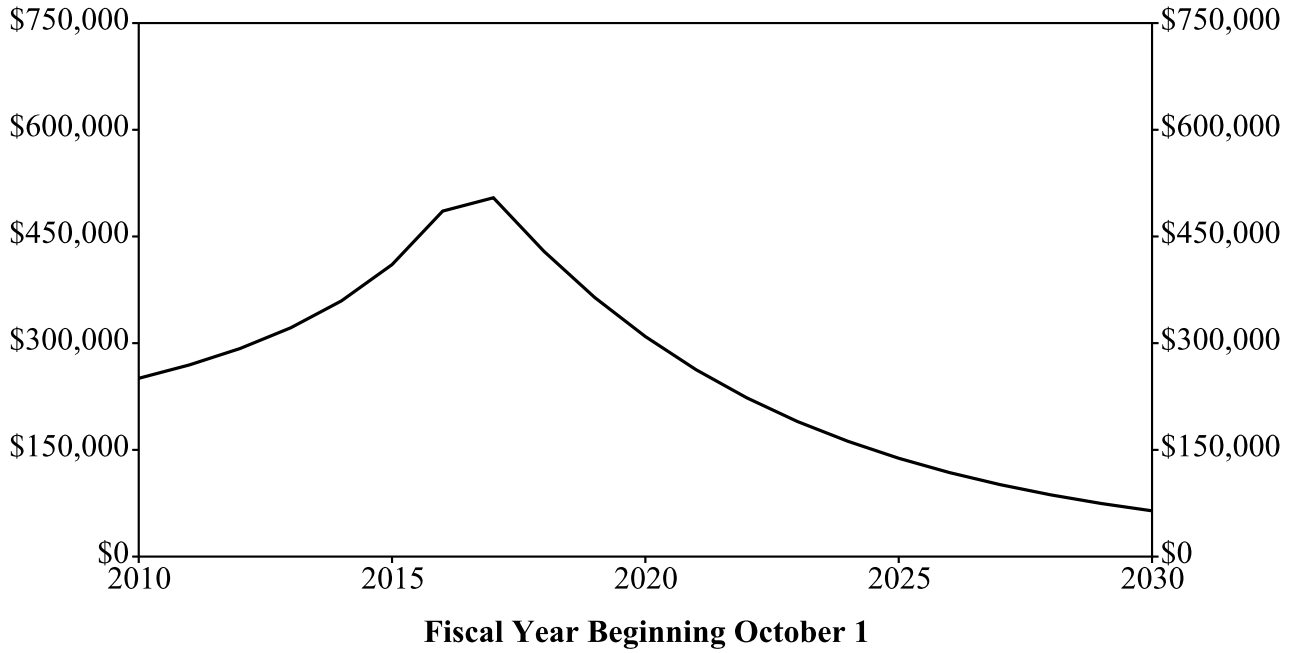
Notes:

- Actuarial assumptions were revised for the 2000 valuation.
- Adoption of Benefit E-2 reflected in 2000 valuation.
- Adoption of DC Plan for New Hires reflected in 2003 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

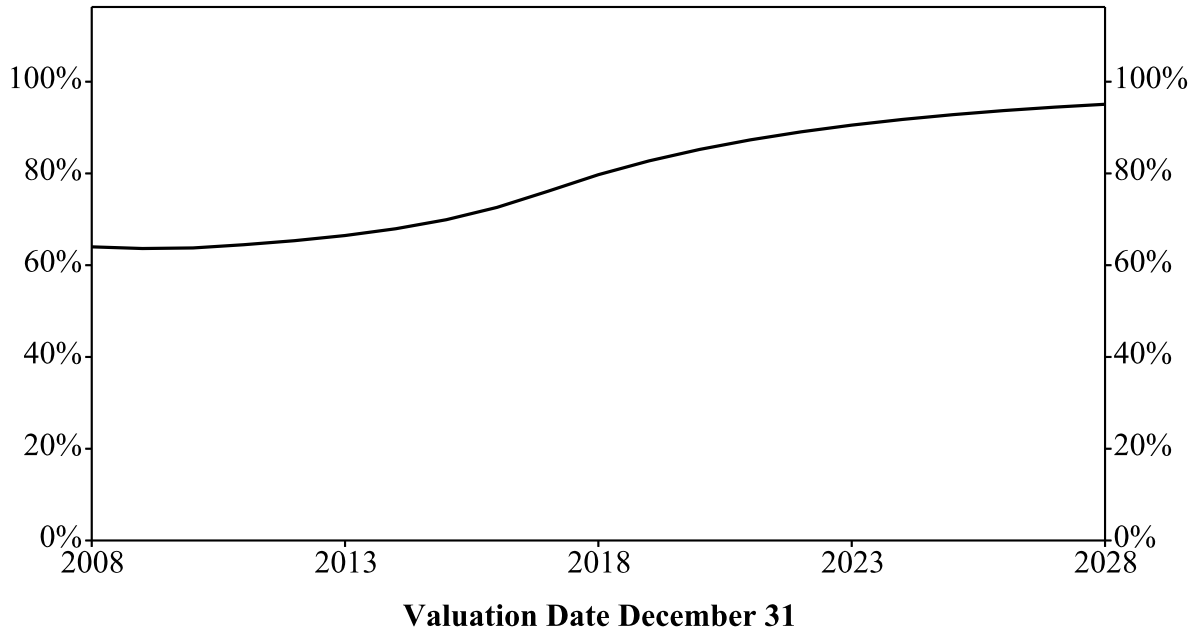
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 23 - P.O.A.M. Non 312**  
**Chart 17.50**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**  
**Division 23 - P.O.A.M. Non 312**

**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	(1)								21
2002	(2)				(1)				18
2003	(1)							1	18
2004									18
2005	(3)								15
2006						(2)			13
2007					(1)				12
2008	(6)								6

**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)							1
2002								1
2003								1
2004								1
2005								1
2006								1
2007								1
2008								1

**Saginaw County (7303)**  
**Division 23 - P.O.A.M. Non 312**

**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	2	\$ 32,568	\$ 421				3	\$ 49,807
2002	2	55,359	1,213				5	106,379
2003	1	25,093	2,583				6	134,055
2004	1	15,968	3,207				7	153,230
2005	4	70,197	3,413	(1)	(8,174)		10	218,666
2006			5,118				10	223,784
2007	1	17,718	5,121				11	246,623
2008	6	215,828	5,551				17	468,002

@ 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.

**Saginaw County (7303)**

**Division 23 - P.O.A.M. Non 312**

**Table 210  
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	\$ 130,925	\$ 33,558	\$ 233,324	\$ (45,773)	\$ 0	\$ (1,211)	\$ 1,211	\$ 3,144,516
2002	106,416	36,976	130,751	(70,522)	0	(1,211)	1,211	3,348,137
2003	144,774	38,251	288,597	(116,836)	0	0	0	3,702,923
2004	156,411	35,681	259,207	(147,036)	0	0	0	4,007,186
2005	167,690	34,121	262,343	(187,119)	0	(256)	256	4,284,221
2006	163,975	45,677	321,055	(218,665)	0	(399,112)	0	4,197,151
2007	221,754	29,337	332,359	(235,309)	0	0	491,087	5,036,379
2008	216,021	18,996	198,922	(401,144)	0	(153,068)	0	4,916,106

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

**Table 220**

**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	\$ 4,511,343	\$ 3,144,516	70%	\$ 1,366,827	160%
2002	5,126,856	3,348,137	65	1,778,719	214
2003	5,547,660	3,702,923	67	1,844,737	222
2004	6,240,035	4,007,186	64	2,232,849	250
2005	6,754,877	4,284,221	63	2,470,656	314
2006	6,213,655	4,197,151	68	2,016,504	307
2007	7,012,471	5,036,379	72	1,976,092	285
2008	7,722,879	4,916,106	64	2,806,773	829

**Saginaw County (7303)**  
**Division 91 - Juvenile Probtn**

**Table 16P**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$238
Amortization of Unfunded Accrued Liability (16 years) ^	<u>2,295</u> ^
Total Long Term Contribution	2,533
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$2,533 *</b>

@ The above Employer contribution requirement is based on Member contributions of 3.45% of pay.

\* Invoices will be based on this dollar amount.

# Only applies if projected assets exceed projected liabilities as of the beginning of the October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$28,632 and the ARC is \$31,488). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(1,679)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$24</b>
<b>Monthly Amortization Payment:</b>	<b>\$(9)</b>
<b>Monthly Total:</b>	<b>\$15</b>

**Please see the Comments on the Investment Markets on page 3.**



# Saginaw County (7303)

## Division 91 - Juvenile Probtn

### Table 17P

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	8	\$ 237,430	16.14%	9.04%
1995	7	223,623	15.73%	11.96%
1996	6	200,860	15.65%	15.03%
1997	7	235,835	16.53%	16.53%
1998	7	256,160	17.79%	17.79%
1999	8	250,019	16.52%	16.52%
2000	7	312,925	18.66%	18.66%
2001	6	260,615	18.38%	18.38%
2002	6	270,472	18.74%	18.74%
2003	5	232,540	18.25%	18.25%
2004	3	142,165	\$ 3,835 #	\$ 3,835 #
2005	3	152,014	\$ 4,398	\$ 4,398
2006	2	95,194	\$ 3,019	\$ 3,019
2007	1	48,971	\$ 2,198	\$ 2,198
2008	1	50,064	\$ 2,533	\$ 2,533

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

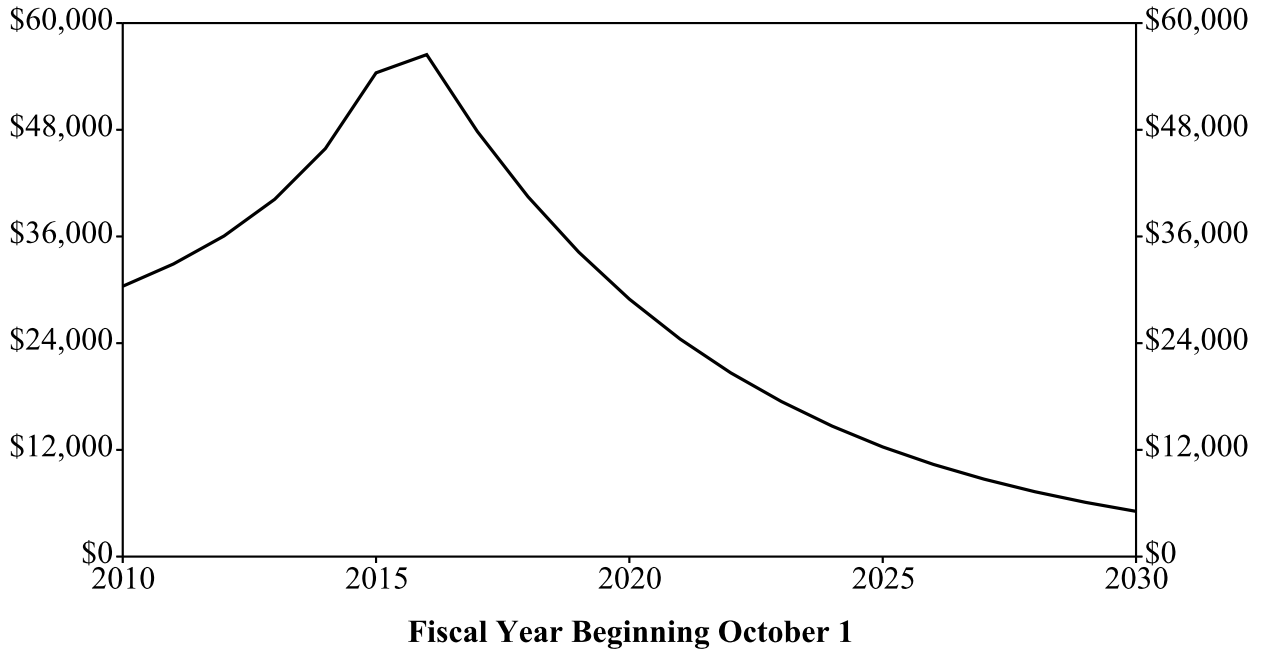
**Notes:**

- Actuarial assumptions were revised for the 1997 valuation.
- Actuarial assumptions were revised for the 2000 valuation.
- Adoption of Benefit F/N(25) reflected in 2001 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Adoption of Benefit B-4 - 80% Maximum, 3.45% Member Contributions reflected in 2005 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

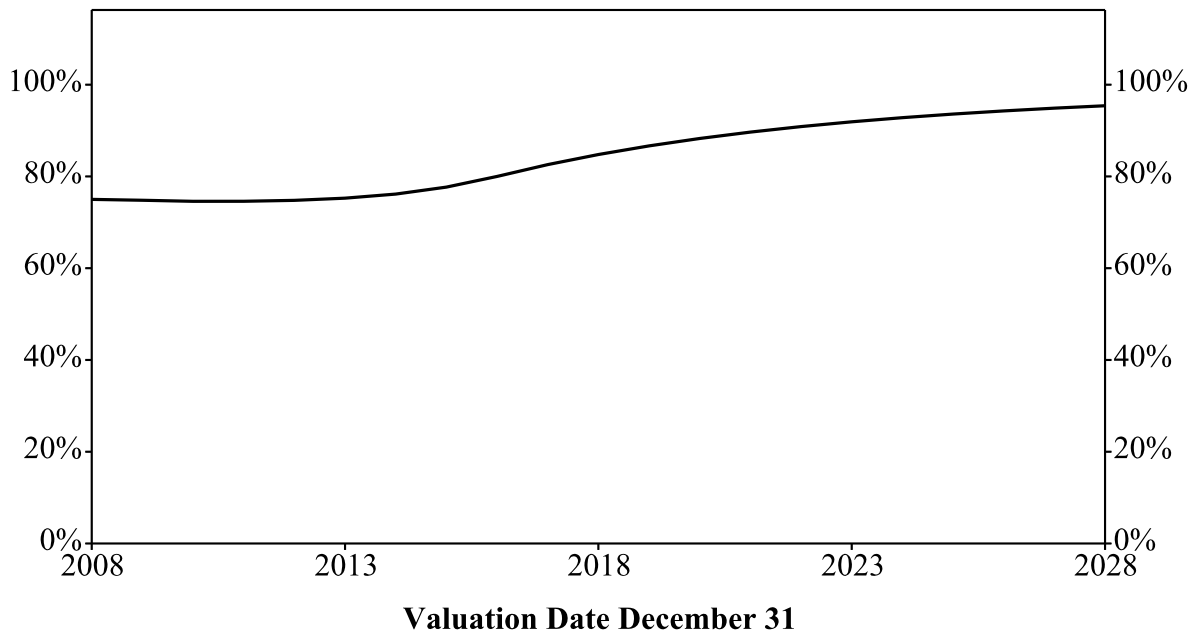
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 91 - Juvenile Probtn**  
**Chart 17.5P**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**

**Division 91 - Juvenile Probtn**

**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						(1)			6
2002									6
2003						(1)			5
2004	(2)								3
2005									3
2006						(1)			2
2007	(1)								1
2008									1

**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								0
2002								0
2003								0
2004								0
2005								0
2006								0
2007								0
2008								0

**Saginaw County (7303)**

**Division 91 - Juvenile Probtn**

**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		\$	\$		\$	\$	1	\$ 18,854
2002							1	18,854
2003							1	18,854
2004	2	60,896					3	79,750
2005							3	79,750
2006							3	79,750
2007	1	24,561					4	104,311
2008							4	104,311

@ 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.

# Saginaw County (7303)

## Division 91 - Juvenile Probtn

### 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	\$ 45,961	\$ 0	\$ 62,449	\$ (18,854)	\$ 0	\$ (24,658)	\$ 0	\$ 865,206
2002	50,028	0	38,445	(18,854)	0	(346)	346	934,825
2003	45,339	0	43,540	(18,854)	0	(103,274)	0	901,576
2004	41,190	0	62,755	(39,152)	0	0	0	966,369
2005	42,013	3,069	59,322	(79,749)	0	0	0	991,024
2006	42,305	4,072	65,371	(79,749)	0	(186,946)	0	836,077
2007	48,141	2,540	65,013	(94,076)	0	0	115,882	973,577
2008	48,639	1,877	38,916	(104,310)	0	0	27,369	986,068

\* 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	\$ 1,330,419	\$ 865,206	65%	\$ 465,213	179%
2002	1,414,645	934,825	66	479,820	177
2003	1,272,547	901,576	71	370,971	160
2004	1,475,410	966,369	65	509,041	358
2005	1,593,730	991,024	62	602,706	396
2006	1,261,699	836,077	66	425,622	447
2007	1,315,958	973,577	74	342,381	699
2008	1,323,310	986,068	75	337,242	674

**Saginaw County (7303)**  
**Division 92 - Dist Court Prob**

**Table 16Q**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$888
Amortization of Unfunded Accrued Liability (16 years) ^	<u>1,572</u> ^
Total Long Term Contribution	2,460
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$2,460 *</b>

@ The above Employer contribution requirement is based on Member contributions of 3.84% of pay.

\* Invoices will be based on this dollar amount.

# Only applies if projected assets exceed projected liabilities as of the beginning of the October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$19,608 and the ARC is \$30,264). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(8,863)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$255</b>
<b>Monthly Amortization Payment:</b>	<b>\$(25)</b>
<b>Monthly Total:</b>	<b>\$230</b>

**Please see the Comments on the Investment Markets on page 3.**

# Saginaw County (7303)

## Division 92 - Dist Court Prob

### Table 17Q

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1994	6	\$ 191,840	11.99%	6.72%
1995	6	197,938	12.63%	9.60%
1996	6	207,067	14.74%	14.15%
1997	4	131,275	14.06%	14.06%
1998	3	115,302	13.37%	13.37%
1999	4	153,590	12.00%	12.00%
2000	4	163,204	10.88%	10.88%
2001	4	173,994	11.87%	11.87%
2002	4	178,598	12.12%	12.12%
2003	4	184,814	11.71%	11.71%
2004	3	142,356	\$ 1,922 #	\$ 1,922 #
2005	3	145,806	\$ 2,031	\$ 2,031
2006	3	155,943	\$ 2,248	\$ 2,248
2007	3	143,756	\$ 1,636	\$ 1,636
2008	3	151,163	\$ 2,460	\$ 2,460

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

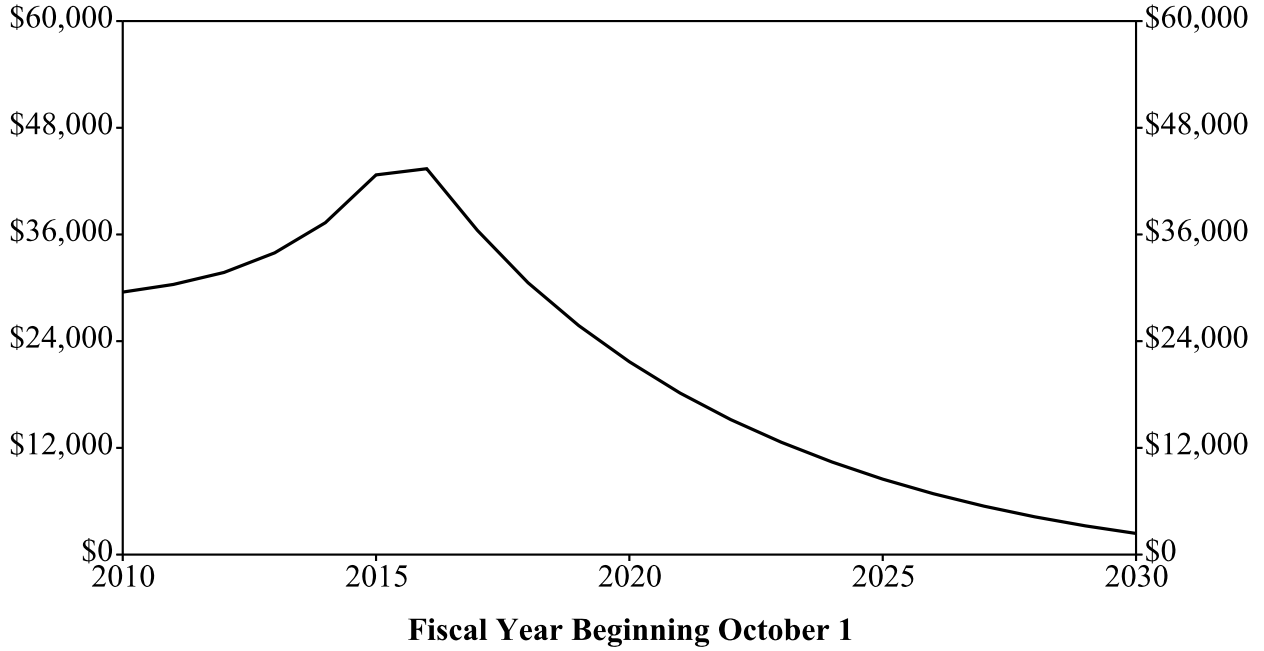
**Notes:**

- Adoption of Benefit F50 (25 years) and F55 (20 years) reflected in 1996 valuation.
- Actuarial assumptions were revised for the 1997 valuation.
- Actuarial assumptions were revised for the 2000 valuation.
- Adoption of Benefit F/N(25) reflected in 2001 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Adoption of Benefit B-4 - 80% Maximum, 3.84% Member Contributions reflected in 2006 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

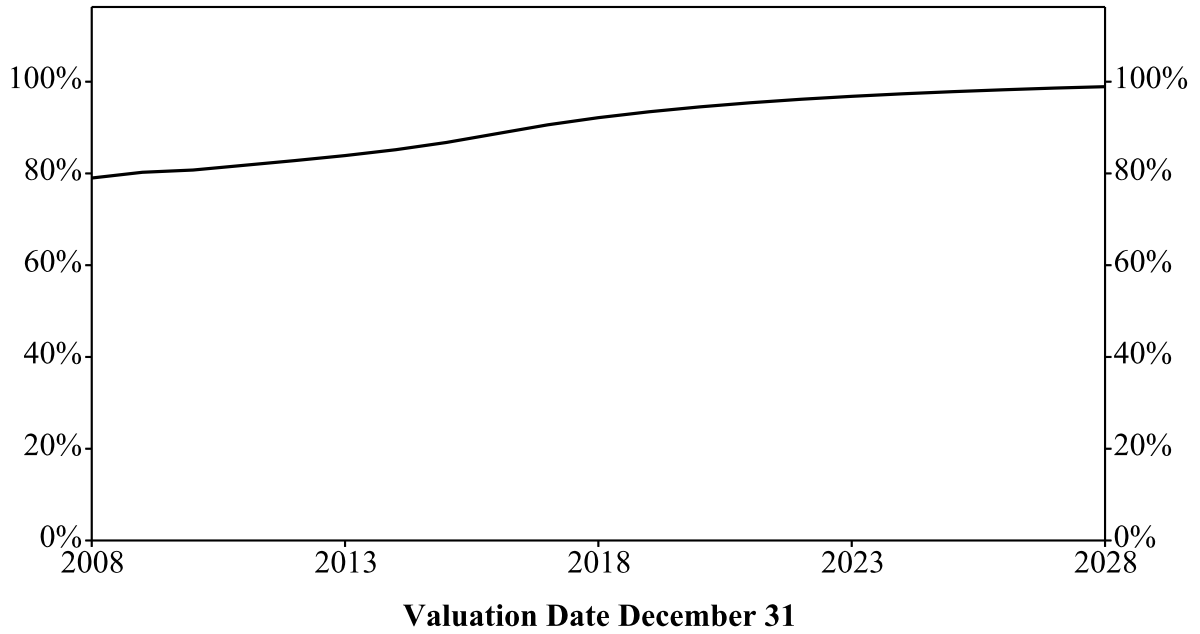
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 92 - Dist Court Prob**  
**Chart 17.5Q**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.



**Saginaw County (7303)**  
**Division 92 - Dist Court Prob**

**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	(1)								4
2002									4
2003									4
2004									3
2005									3
2006									3
2007									3
2008									3

**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								1
2002								1
2003								1
2004								1
2005								1
2006								1
2007								1
2008								1

**Saginaw County (7303)**  
**Division 92 - Dist Court Prob**

**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		\$	\$		\$	\$	0	\$ 0
2002							0	0
2003							0	0
2004	1	30,043					1	30,043
2005							1	30,043
2006							1	30,043
2007							1	30,043
2008							1	30,043

@ 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.

**Saginaw County (7303)**

**Division 92 - Dist Court Prob**

**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	\$ 21,815	\$ 0	\$ 36,682	\$ 0	\$ 0	\$ 0	\$ 6,329	\$ 497,626
2002	21,953	0	22,620	0	0	0	0	542,199
2003	20,856	0	50,704	0	0	0	8,850	622,609
2004	22,745	0	44,802	0	0	0	0	690,156
2005	18,274	0	43,435	(30,043)	0	0	0	721,822
2006	19,122	5,151	57,684	(30,043)	0	0	0	773,736
2007	23,391	5,520	62,270	(30,043)	0	(2,742)	0	832,132
2008	25,023	5,805	36,483	(30,043)	0	(29,841)	0	839,559

\* 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	\$ 624,690	\$ 497,626	80%	\$ 127,064	73%
2002	675,302	542,199	80	133,103	75
2003	742,527	622,609	84	119,918	65
2004	866,488	690,156	80	176,332	124
2005	903,352	721,822	80	181,530	125
2006	1,021,853	773,736	76	248,117	159
2007	1,007,781	832,132	83	175,649	122
2008	1,057,842	839,559	79	218,283	144

**Saginaw County (7303)**  
**Division 93 - Pros Attys Union**

**Table 16R**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$3,355
Amortization of Unfunded Accrued Liability (16 years) ^	<u>4,292</u> ^
Total Long Term Contribution	7,647
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$7,647 *</b>

@ 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 October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 16 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 \$53,544 and the ARC is \$93,804). Note that the 16 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(14,474)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$256</b>
<b>Monthly Amortization Payment:</b>	<b>\$(66)</b>
<b>Monthly Total:</b>	<b>\$190</b>

**Please see the Comments on the Investment Markets on page 3.**

**Saginaw County (7303)**  
**Division 93 - Pros Attys Union**

**Table 17R**

**Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution	
	Number	Annual Payroll	Regular Contribution	Minimum Required Contribution
1995	9	\$ 423,692	13.56%	10.30%
1996	11	580,618	15.53%	14.91%
1997	10	588,074	16.25%	16.25%
1998	10	644,614	16.80%	16.80%
1999	8	500,592	15.27%	15.27%
2000	7	458,232	14.94%	14.94%
2001	7	476,255	15.47%	15.47%
2002	6	420,665	17.60%	17.60%
2003	6	434,403	17.94%	17.94%
2004	7	501,341	\$ 8,132 #	\$ 8,132 #
2005	7	557,901	\$ 9,596	\$ 9,596
2006	7	534,234	\$ 8,550	\$ 8,550
2007	7	551,261	\$ 7,159	\$ 7,159
2008	6	477,852	\$ 7,647	\$ 7,647

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

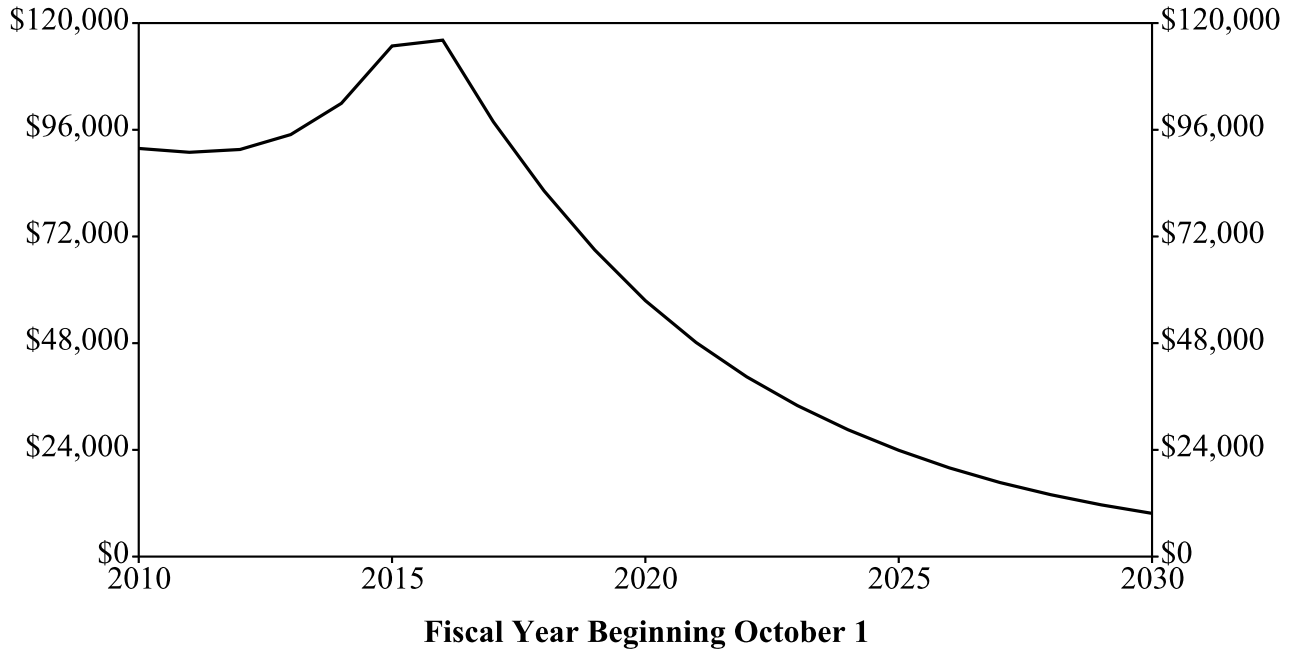
Notes:

- Adoption of 0% member contributions reflected in 1995 valuation.
- Adoption of Benefits B-3, F50 (25 years) and F55 (20 years) reflected in 1995.
- Adoption of Benefit V-6 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.
- Actuarial assumptions were revised for the 2008 valuation.

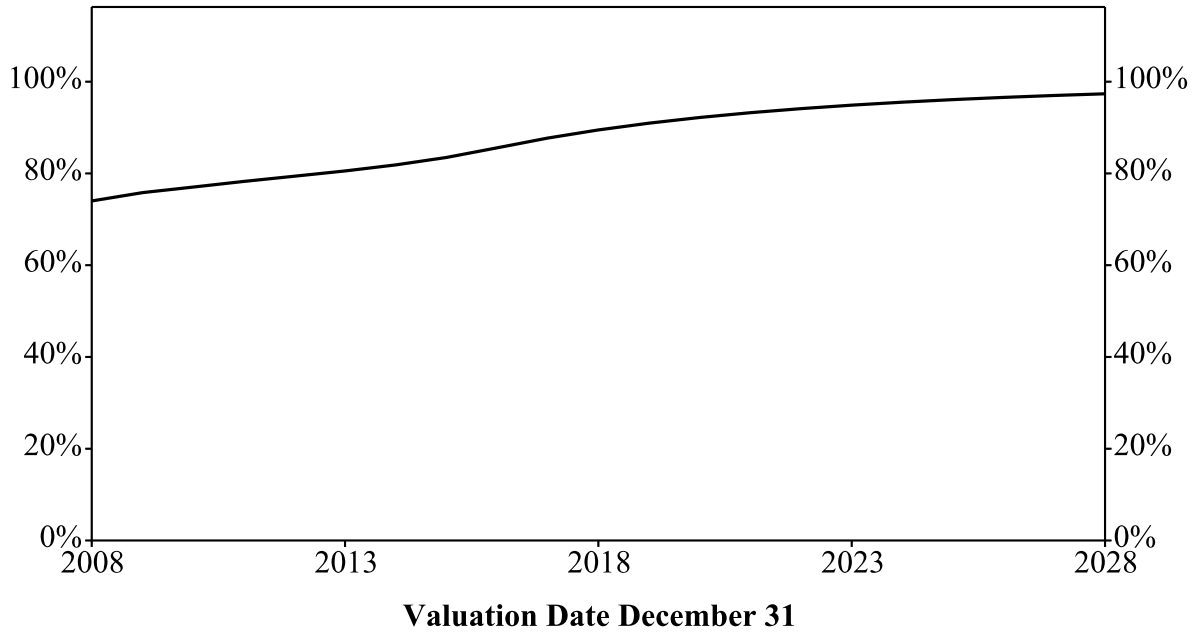
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 93 - Pros Attys Union**  
**Chart 17.5R**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**  
**Division 93 - Pros Attys Union**

**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	(1)								7
2002									6
2003									6
2004								1	7
2005									7
2006									7
2007									7
2008							(1)		6

**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								0
2002								0
2003								0
2004								0
2005								0
2006								0
2007								0
2008								0

**Saginaw County (7303)**  
**Division 93 - Pros Attys Union**

**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	\$ 7,170
2002	1	37,650					2	44,820
2003			1,734				2	46,554
2004							2	46,554
2005							2	46,554
2006							2	46,554
2007							2	46,554
2008							2	46,554

@ 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.



**Saginaw County (7303)**

**Division 93 - Pros Attys Union**

**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	\$ 75,098	\$ 0	\$ 76,806	\$ (7,170)	\$ 0	\$ 0	\$ 0	\$ 1,023,103
2002	70,131	0	44,806	(32,270)	0	0	0	1,105,770
2003	65,549	0	93,344	(45,832)	0	0	0	1,218,831
2004	110,248	6,662	91,364	(46,554)	(3,776)	0	0	1,376,775
2005	97,620	0	92,697	(46,554)	0	0	0	1,520,538
2006	96,417	0	125,479	(46,554)	0	0	0	1,695,880
2007	101,976	0	135,668	(46,554)	0	0	116,834	2,003,804
2008	112,014	333	13,886	(46,554)	0	(399,617)	81,774	1,765,640

\* 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	\$ 1,586,560	\$ 1,023,103	64%	\$ 563,457	118%
2002	1,757,145	1,105,770	63	651,375	155
2003	1,885,747	1,218,831	65	666,916	154
2004	2,100,442	1,376,775	66	723,667	144
2005	2,372,936	1,520,538	64	852,398	153
2006	2,402,518	1,695,880	71	706,638	132
2007	2,584,877	2,003,804	78	581,073	105
2008	2,386,680	1,765,640	74	621,040	130

# Saginaw County (7303)

## Division 94 - Upper Management

### Table 16S

#### Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning October 1, 2010

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$3,812
Amortization of Unfunded Accrued Liability (23 years) ^	<u>9,912</u> ^
Total Long Term Contribution	13,724
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$13,724 *</b>

@ 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 October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 23 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 \$160,368 and the ARC is \$206,112). Note that the 23 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

Increase in Actuarial Accrued Liabilities:	\$(19,094)
Increase in Computed Long Term Employer Contribution	
Monthly Normal Cost:	\$258
Monthly Amortization Payment:	\$(69)
Monthly Total:	\$189

Please see the Comments on the Investment Markets on page 3.

# Saginaw County (7303)

## Division 94 - Upper Management

### Table 17S

#### Computed Employer Contributions - Comparative Statement

Valuation Date December 31,	Active Members		Employer Contribution
	Number	Annual Payroll	
1999	1	\$ 82,834	17.82%
2000	2	172,003	20.91%
2001	9	828,512	6.98%
2002	9	862,250	5.20%
2003	8	789,040	7.61%
2004	7	717,970	8.21%
2005	7	725,130	5.34%
2006	7	719,880	\$ 583 #
2007	7	785,865	\$ 10,830
2008	5	560,090	\$ 13,724

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

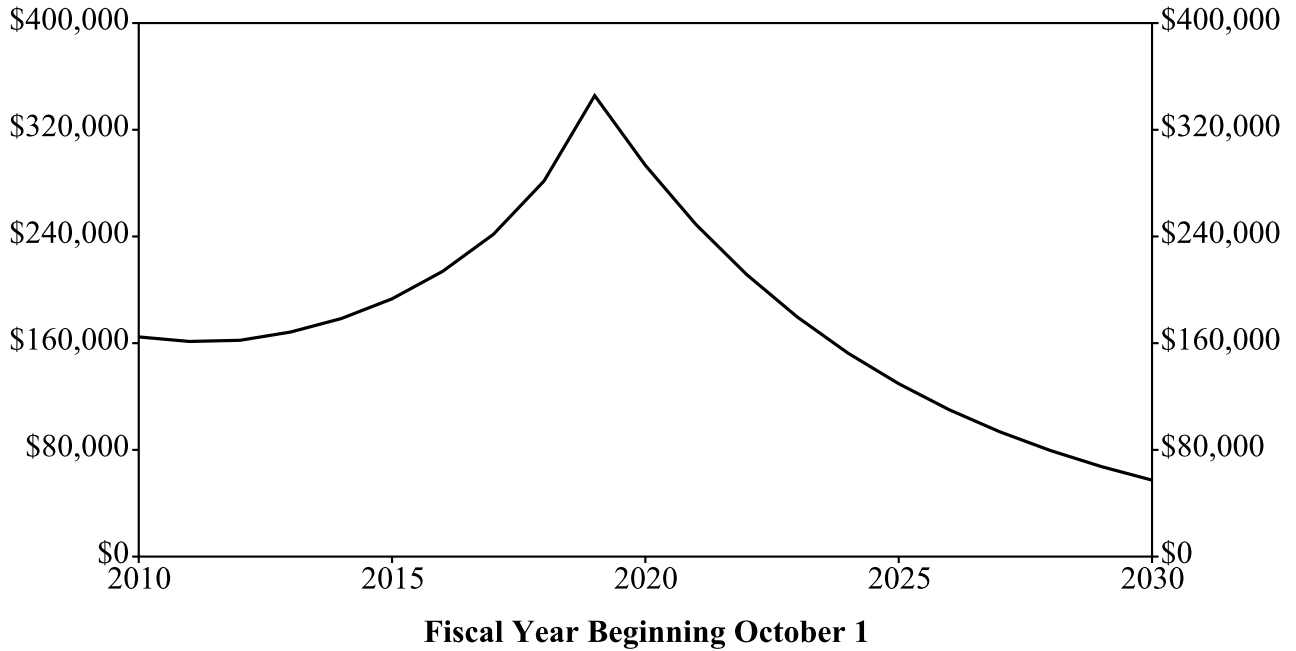
Notes:

- Actuarial assumptions were revised for the 2000 valuation.
- Actuarial assumptions were revised for the 2004 valuation.
- Adoption of DC Plan for New Hires reflected in 2006 valuation.
- Actuarial assumptions were revised for the 2008 valuation.

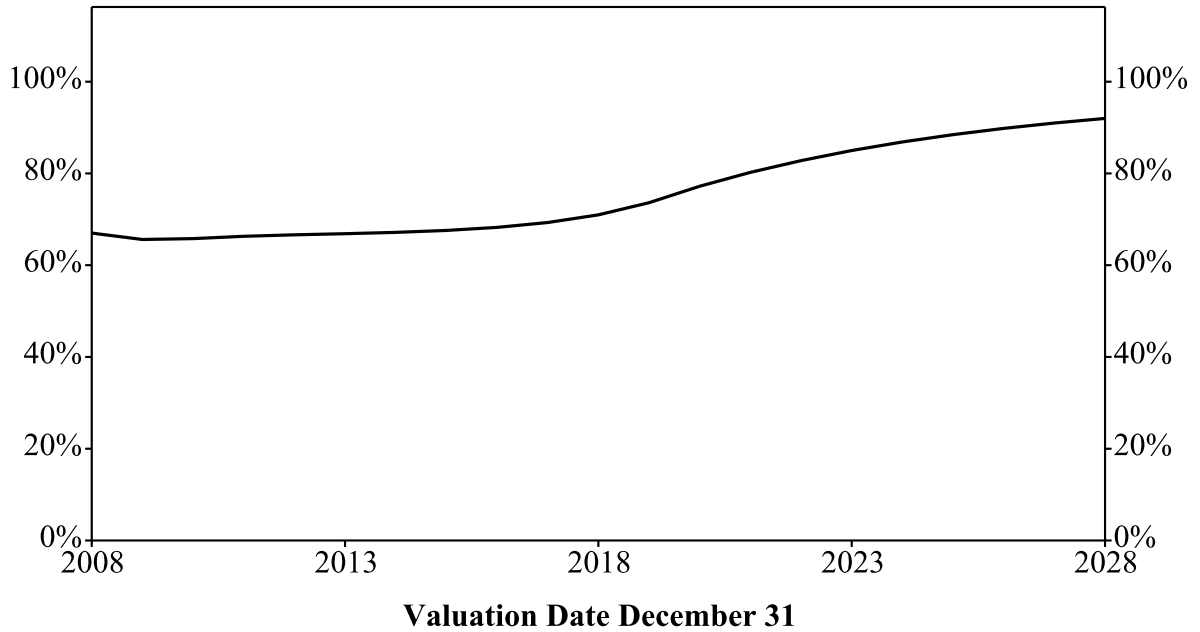
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 94 - Upper Management**  
**Chart 17.5S**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**

**Division 94 - Upper Management**

**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							3	4	9
2002									9
2003	(1)								8
2004	(1)								7
2005									7
2006									7
2007									7
2008	(2)								5

**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								0
2002								0
2003								0
2004								0
2005								0
2006								0
2007								0
2008								0

# Saginaw County (7303)

## Division 94 - Upper Management

### 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		\$	\$		\$	\$	0	\$ 0
2002							0	0
2003	1	71,560					1	71,560
2004	1	6,371	1,789				2	79,720
2005	1	2,640	1,949				3	84,309
2006			2,013				3	86,322
2007			2,012				3	88,334
2008	2	78,480	2,013				5	168,827

@ 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.

**Saginaw County (7303)**

**Division 94 - Upper Management**

**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	\$ 56,274	\$ 0	\$ 263,303	\$ 0	\$ 0	\$ 0	\$ 2,418,815	\$ 2,851,999
2002	77,414	0	182,224	0	0	0	182,958	3,294,595
2003	126,558	0	281,243	(17,890)	0	(959)	150,884	3,834,431
2004	98,182	0	289,404	(55,224)	0	(61,503)	228,529	4,333,819
2005	26,659	0	301,673	(65,630)	0	0	126,856	4,723,377
2006	23,312	0	386,790	(67,742)	0	0	68,447	5,134,184
2007	53,889	0	451,671	(69,639)	0	(1,952,171)	0	3,617,934
2008	14,109	0	139,684	(87,449)	0	(304,679)	0	3,379,599

\* 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	\$ 2,086,023	\$ 2,851,999	137%	\$ (765,976)	0%
2002	2,425,996	3,294,595	136	(868,599)	0
2003	3,225,294	3,834,431	119	(609,137)	0
2004	3,724,967	4,333,819	116	(608,852)	0
2005	3,978,065	4,723,377	119	(745,312)	0
2006	4,217,347	5,134,184	122	(916,837)	0
2007	4,519,896	3,617,934	80	901,962	115
2008	5,028,892	3,379,599	67	1,649,293	294

**Saginaw County (7303)**  
**Division 95 - NonUnion Mgmnt**

**Table 16T**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$0
Amortization of Unfunded Accrued Liability (23 years) ^	<u>1,580</u> ^
Total Long Term Contribution	1,580
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$1,580 *</b>

@ 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 October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 23 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 \$25,560 and the ARC is \$25,560). Note that the 23 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.

**Please see the Comments on the Investment Markets on page 3.**



**Saginaw County (7303)**  
**Division 95 - NonUnion Mgmnt**

**Table 17T**

**Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution
	Number	Annual Payroll	
2006	1	\$ 60,395	\$ 1,358 #
2007	1	62,066	\$ 686
2008	0	0	\$ 1,580

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

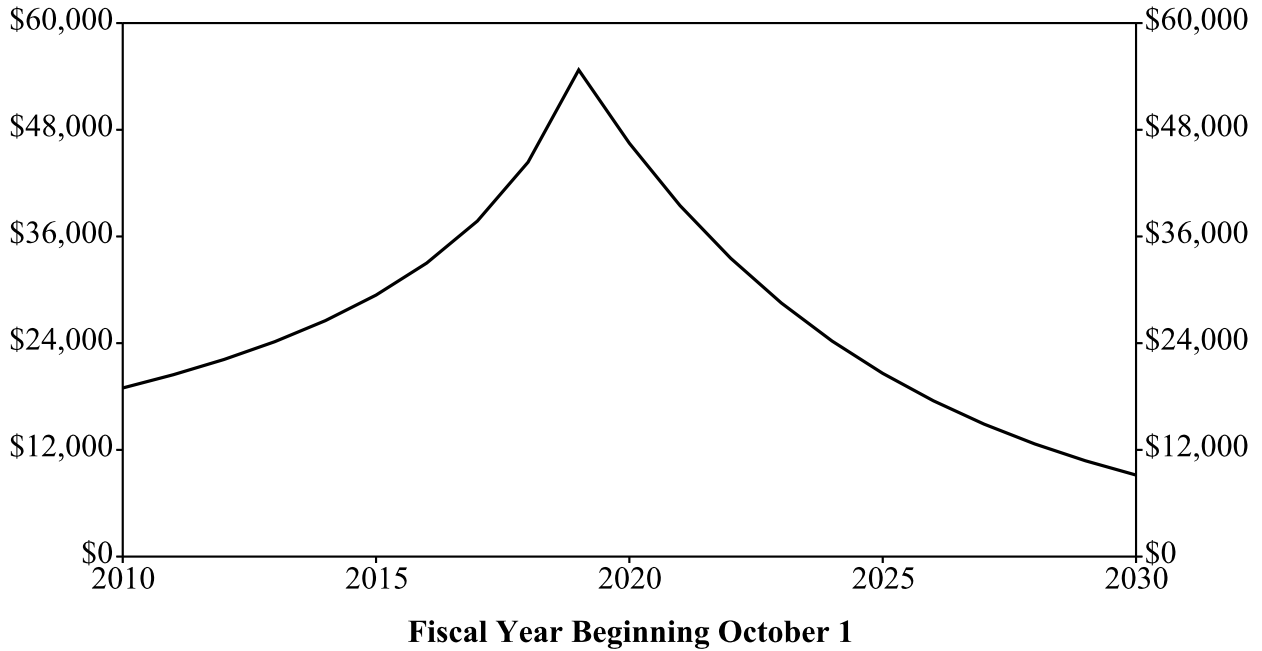
Notes:

Adoption of Benefit V-6, F55(15), F/N(25), FAC-5, B-4 - 80% Maximum, E-2 (2.5%), Normal Retirement: 60, DC Plan for New Hires, 0.00% Member Contributions reflected in 2006 valuation.

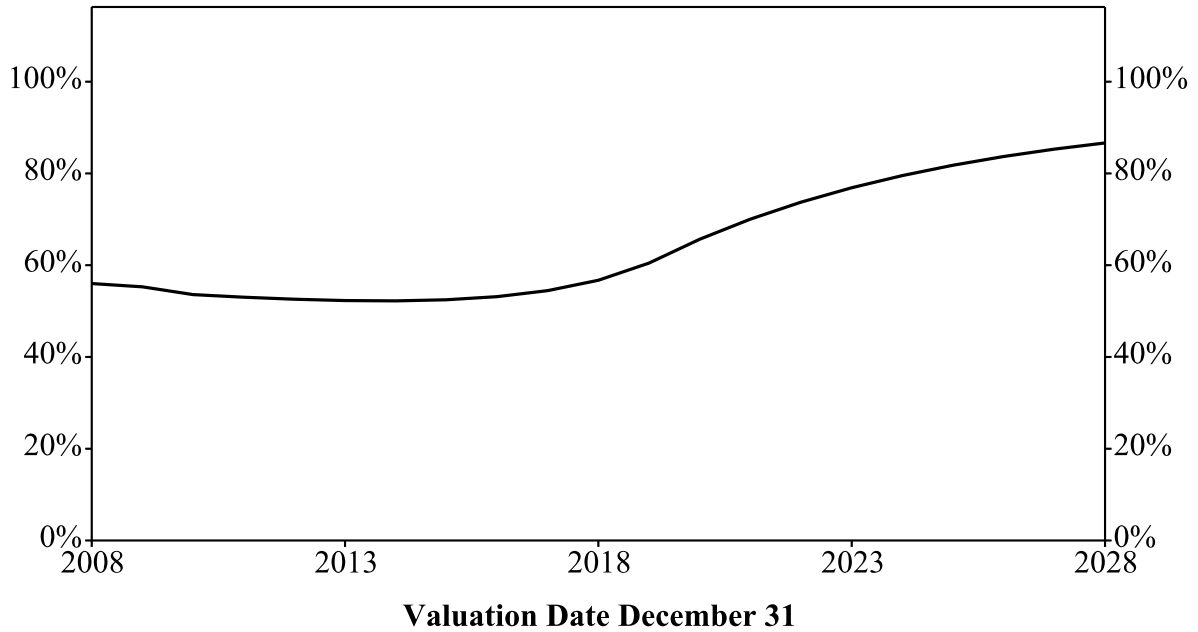
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 95 - NonUnion Mgmnt**  
**Chart 17.5T**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.

**Saginaw County (7303)**  
**Division 95 - NonUnion Mgmnt**

**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		
2006							1		1
2007									1
2008	(1)								0

**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		
2006								0
2007								0
2008								0

**Saginaw County (7303)**  
**Division 95 - NonUnion Mgmnt**

**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
2006		\$	\$		\$	\$	0	\$ 0
2007							0	0
2008	1	46,658					1	46,658

@ Includes beneficiaries of retirees who died during the year.

\* Includes where applicable E, E-1, and E-2 benefits, and corrections.

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

**Saginaw County (7303)**  
**Division 95 - NonUnion Mgmnt**

**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	
2006	\$ 10,584	\$ 0	\$ 28,707	\$ 0	\$ 0	\$ 0	\$ 255,629	\$ 294,920
2007	19,788	0	22,804	0	0	0	37,023	374,535
2008	17,557	0	13,249	(11,664)	0	(32,052)	0	361,625

\* 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
2006	\$ 439,948	\$ 294,920	67%	\$ 145,028	240%
2007	448,612	374,535	83	74,077	119
2008	642,217	361,625	56	280,592	

**Saginaw County (7303)**  
**Division 96 - UAW Para prof.**

**Table 16U**

**Computed Employer Contributions to the Retirement System  
For the Fiscal Year Beginning October 1, 2010**

Contribution for	Employer Contribution @
	Estimated Monthly Dollar Contribution *
Normal Cost (in addition to member contributions)	\$518
Amortization of Unfunded Accrued Liability (23 years) ^	<u>2,707</u> ^
Total Long Term Contribution	3,225
Overfunding Credit #	<u>0</u>
<b>Total Contribution</b>	<b>\$3,225 *</b>

@ The above Employer contribution requirement is based on Member contributions of 4.34% of pay.

\* Invoices will be based on this dollar amount.

# Only applies if projected assets exceed projected liabilities as of the beginning of the October 1, 2010 fiscal year (see Table 24).

^ This division is closed to new hires. This line displays the amortization funding requirement, and is based on a 23 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 \$43,800 and the ARC is \$50,016). Note that the 23 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.

**Note: Changes in actuarial assumptions and methods were reflected in the December 31, 2008 actuarial valuation. The effects of the changes are shown below:**

<b>Increase in Actuarial Accrued Liabilities:</b>	<b>\$(3,784)</b>
<b>Increase in Computed Long Term Employer Contribution</b>	
<b>Monthly Normal Cost:</b>	<b>\$77</b>
<b>Monthly Amortization Payment:</b>	<b>\$145</b>
<b>Monthly Total:</b>	<b>\$222</b>

**Please see the Comments on the Investment Markets on page 3.**

**Saginaw County (7303)**  
**Division 96 - UAW Para prof.**

**Table 17U**

**Computed Employer Contributions - Comparative Statement**

Valuation Date December 31,	Active Members		Employer Contribution
	Number	Annual Payroll	
2006	6	\$ 229,016	\$ 3,152 #
2007	4	166,460	\$ 2,398
2008	2	91,310	\$ 3,225

# Beginning with this valuation, a monthly dollar contribution is shown because the division will have no new hires.

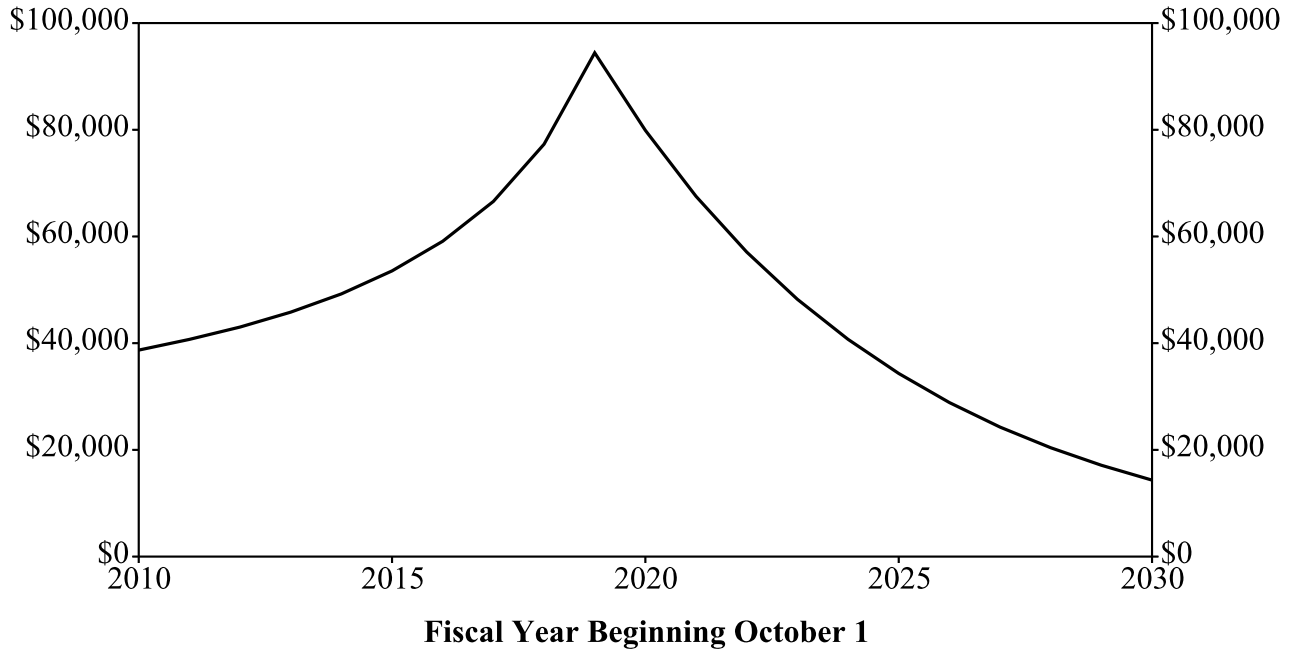
Notes:

Adoption of Benefit V-6, F50(25), F55(15), FAC-5, B-4 - 80% Maximum, Normal Retirement: 60, DC Plan for New Hires, 4.34% Member Contributions reflected in 2006 valuation.  
 Actuarial assumptions were revised for the 2008 valuation.

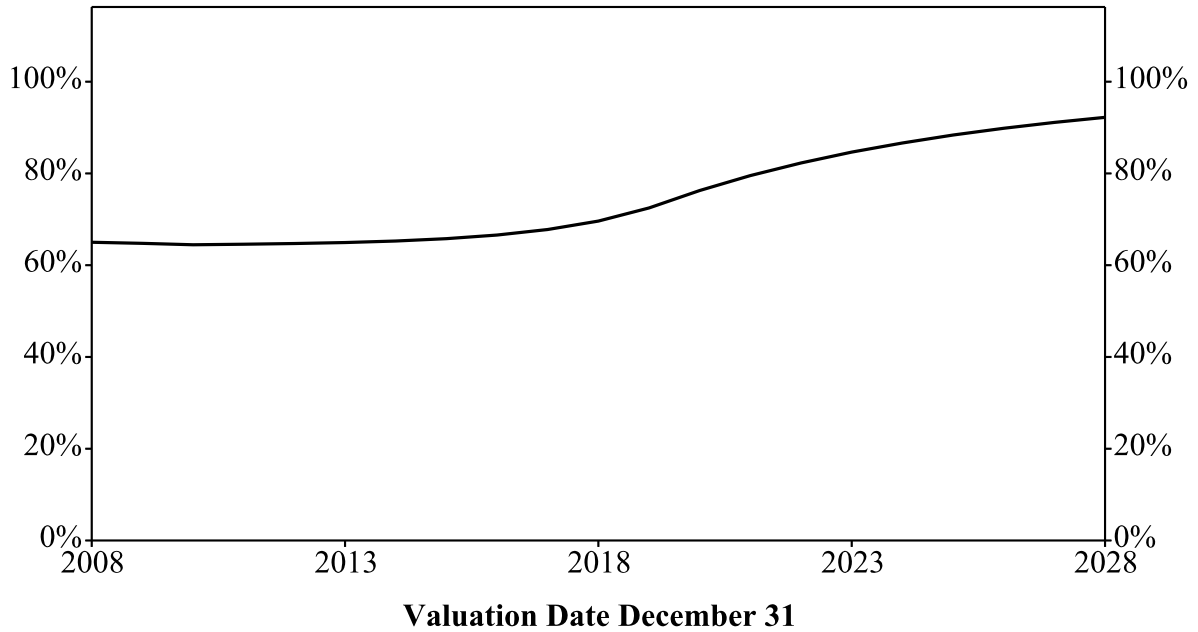
The most recent 15 years of benefit changes are reflected in this table. For a complete benefit history see Table 25.

**Saginaw County (7303)**  
**Division 96 - UAW Para prof.**  
**Chart 17.5U**

**Projected Annual Employer Contributions**



**Projected Funded Percentage**



Note: Please refer to page 202 for a discussion of the projection.



**Saginaw County (7303)**  
**Division 96 - UAW Para prof.**

**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		
2006							6		6
2007	(2)								4
2008	(2)								2

**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		
2006								0
2007								0
2008								0

**Saginaw County (7303)**  
**Division 96 - UAW Para prof.**

**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
2006		\$	\$		\$	\$	0	\$ 0
2007	2	35,641					2	35,641
2008	2	45,127					4	80,768

@ 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.

**Saginaw County (7303)**  
**Division 96 - UAW Para prof.**

**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	
2006	\$ 23,287	\$ 7,276	\$ 44,166	\$ 0	\$ 0	\$ 0	\$ 680,368	\$ 755,097
2007	30,732	8,797	59,808	(20,819)	0	0	86,581	920,196
2008	32,505	6,004	36,123	(55,745)	0	(44,421)	0	894,662

\* 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
2006	\$ 1,115,536	\$ 755,097	68%	\$ 360,439	157%
2007	1,253,744	920,196	73	333,548	200
2008	1,384,320	894,662	65	489,658	536

## Saginaw County (7303)

### 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, 2008 actuarial valuation. The entry age normal actuarial method was used to determine the disclosure entries.

#### GASB 25 Information (as of 12/31/2008)

Actuarial Accrued Liability	
Retirees and beneficiaries currently receiving benefits	\$99,193,707
Terminated employees (vested former members) not yet receiving benefits	2,916,621
Non-vested terminated employees (pending refunds of accumulated member contributions)	36,733
Current employees - Accumulated employee contributions including allocated investment income	2,368,379
Employer financed	<u>30,528,978</u>
Total Actuarial Accrued Liability	\$135,044,418
Net Assets Available for Benefits at Actuarial Value	<u>96,066,231</u>
(Market Value is \$69,038,789 )	
Unfunded (Overfunded) Actuarial Accrued Liability	\$38,978,187

#### GASB 27 Information (as of 12/31/2008)

Fiscal Year Beginning	October 1, 2010
Annual Required Contribution (ARC)	\$ 4,073,136*
Amortization Factor Used - Underfunded Liabilities (23 years)	0.063378
Amortization Factor Used - Underfunded Liabilities (18 years)	0.075270
Amortization Factor Used - Underfunded Liabilities (16 years)	0.082185
Amortization Factor Used - Underfunded Liabilities (30 year level \$)	0.085453

\* 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 October 1, 2010) 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.

# Saginaw County (7303)

## Table 24

### Development of Projected Unfunded Accrued Liability At Beginning of Fiscal Year (October 1, 2010)

Division	Unfunded Accrued Liability 12/31/2008	Employer Normal Cost	Expected Employer Contrib.	Interest	Unfunded Accrued Liability 10/1/2010	Projected Fiscal Year Payroll
01 - General #	\$ 5,396,216	\$ 158,617	\$ (678,006)	\$ 746,336	\$ 5,623,163	\$ -
02 - Sheriff PO #	5,567,479	111,674	(802,239)	756,544	5,633,458	-
09 - UAW Manage #	10,227,828	233,238	(1,274,829)	1,398,904	10,585,141	-
10 - UAWProfess #	2,868,445	88,350	(367,203)	396,526	2,986,118	-
11 - Gnrl Local #	1,074,622	39,861	(157,347)	147,482	1,104,618	-
13 - Sheriff/Co #	522,482	12,059	(49,359)	73,990	559,172	-
14 - Nurses #	459,790	26,392	(127,134)	58,527	417,575	-
15 - Hlth Dept #	2,432,061	95,359	(344,340)	335,184	2,518,264	-
16 - Elctd Comm #	407,802	5,527	(28,164)	58,363	443,528	-
17 - Animal Con #	184,096	15,088	(53,985)	23,979	169,178	-
18 - Judges #	196,189	11,217	(35,235)	26,935	199,106	-
19 - Dist Judge #	248,220	19,783	(45,027)	34,181	257,157	-
20 - Sheriff FO #	1,799,102	122,824	(371,493)	238,503	1,788,936	-
21 - Shrff/Lts/ #	1,190,974	18,862	(174,207)	159,609	1,195,238	-
23 - P.O.A.M. N #	2,806,773	56,193	(326,496)	387,216	2,923,686	-
91 - Juvenile P #	337,242	6,222	(53,547)	45,182	335,099	-
92 - Dist Court #	218,283	20,992	(39,864)	30,058	229,469	-
93 - Pros Attys #	621,040	84,479	(162,858)	83,969	626,630	-
94 - Upper Mana #	1,649,293	120,457	(135,207)	242,145	1,876,688	-
95 - NonUnion M #	280,592	0	(20,454)	38,927	299,065	-
96 - UAW Para p #	489,658	12,618	(57,144)	67,479	512,611	-

# This division will have no new hires.

The unfunded accrued liability as of December 31, 2008 (see Table 13) is projected to the beginning of the fiscal year for which employer contributions are being calculated (October 1, 2010). This allows the 2008 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 will have no 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 Table 16 for each division.

# Saginaw County (7303)

## 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 your Regional Manager in the MERS Office of Marketing and Employer Services.

#### Division 01 - General

##### Provisions by Date

4/1/2008	Temporary 20 Years & Out (04/01/2008 - 10/01/2008)
5/1/2006	Member Contribution Rate 3.88%
5/1/2006	Benefit B-4 (80% max)
10/1/2002	Temporary 20 Years & Out (10/01/2002 - 12/03/2002)
1/1/2000	DC Adoption Date 01-01-2000
5/1/1996	Benefit F55 (With 20 Years of Service)
5/1/1996	Benefit F50 (With 25 Years of Service)
1/1/1995	Benefit F55 (With 25 Years of Service)
1/1/1993	Benefit B-3 (80% max)
1/1/1993	6 Year Vesting
9/1/1990	Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit B-3 (09/01/1990 - 01/03/1991)
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
1/1/1988	Member Contribution Rate 0.00%
1/1/1988	Benefit C-2/Base B-1
1/1/1987	Flexible E 2% COLA Adopted (01/01/1987)
1/1/1985	Flexible E 2% COLA Adopted (01/01/1985)
4/1/1982	Member Contribution Rate 4.00%
1/1/1980	Flexible E 2% COLA Adopted (01/01/1980)
12/8/1972	Blanket Resolution (All Service)
1/1/1967	Benefit C-1 (Old)
10/19/1965	Covered by Act 88
1/1/1959	Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00%
1/1/1959	Benefit C (Old)
1/1/1959	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1959	10 Year Vesting
	Fiscal Month - October

#### Division 02 - Sheriff POAM

##### Provisions by Date

4/1/2008	Temporary 20 Years & Out (04/01/2008 - 10/01/2008)
10/1/2002	Temporary 20 Years & Out (10/01/2002 - 12/03/2002)
1/1/2001	E2 2.5% Annual COLA for future retirees (01/01/1995)

# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 02 - Sheriff POAM

##### Provisions by Date

9/30/2000	DC Adoption Date 09-30-2000
4/1/2000	Member Contribution Rate 4.00%
4/1/1995	Member Contribution Rate 7.09%
4/1/1995	Benefit B-4 (80% max)
1/1/1995	25 Years & Out
1/1/1992	Benefit F50 (With 25 Years of Service)
1/1/1992	Benefit B-3 (80% max)
1/1/1992	6 Year Vesting
9/1/1990	Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit B-3 (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)
1/1/1989	Member Contribution Rate 0.00%
1/1/1989	Benefit B-2
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
1/1/1987	Flexible E 2% COLA Adopted (01/01/1987)
1/1/1985	Flexible E 2% COLA Adopted (01/01/1985)
1/1/1983	Member Contribution Rate 4.00%
1/1/1980	Flexible E 2% COLA Adopted (01/01/1980)
12/8/1972	Blanket Resolution (All Service)
1/1/1967	Benefit C-1 (Old)
10/19/1965	Covered by Act 88
1/1/1959	Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00%
1/1/1959	Benefit C (Old)
1/1/1959	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1959	10 Year Vesting
	Fiscal Month - October

#### Division 09 - UAW Managers

##### Provisions by Date

4/1/2008	Temporary 20 Years & Out (04/01/2008 - 10/01/2008)
1/1/2006	E2 2.5% Annual COLA for future retirees (06/01/2005)
12/1/2005	Member Contribution Rate 3.20%
10/1/2002	Temporary 20 Years & Out (10/01/2002 - 12/03/2002)
3/1/1998	DC Adoption Date 03-01-1998
1/1/1998	25 Years & Out
1/1/1998	Benefit F55 (With 15 Years of Service)
1/1/1994	Benefit F55 (With 20 Years of Service)
1/1/1993	Benefit B-4 (80% max)
1/1/1993	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1993	6 Year Vesting

# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 09 - UAW Managers

##### Provisions by Date

1/1/1993	Benefit F50 (With 25 Years of Service)
9/1/1990	Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
1/1/1987	Flexible E 2% COLA Adopted (01/01/1987)
1/1/1985	Flexible E 2% COLA Adopted (01/01/1985)
1/1/1983	Member Contribution Rate 0.00%
4/1/1982	Member Contribution Rate 4.00%
1/1/1980	Flexible E 2% COLA Adopted (01/01/1980)
12/8/1972	Blanket Resolution (All Service)
10/19/1965	Covered by Act 88 Fiscal Month - October

#### Division 10 - UAW Professional

##### Provisions by Date

4/1/2008	Temporary 20 Years & Out (04/01/2008 - 10/01/2008)
10/1/2002	Temporary 20 Years & Out (10/01/2002 - 12/05/2002)
3/1/1998	DC Adoption Date 03-01-1998
1/1/1998	Benefit F55 (With 15 Years of Service)
1/1/1993	Benefit B-3 (80% max)
1/1/1993	Benefit F50 (With 25 Years of Service)
9/1/1990	Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit B-3 (09/01/1990 - 01/03/1991)
1/1/1990	Benefit B-2
1/1/1990	6 Year Vesting
1/1/1990	Benefit F55 (With 20 Years of Service)
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
1/1/1987	Flexible E 2% COLA Adopted (01/01/1987)
1/1/1987	Benefit F55 (With 25 Years of Service)
1/1/1987	Member Contribution Rate 0.00%
1/1/1987	Benefit C-2/Base B-1
1/1/1987	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1987	10 Year Vesting
4/1/1982	Member Contribution Rate 4.00%
12/8/1972	Blanket Resolution (All Service)
10/19/1965	Covered by Act 88 Fiscal Month - October



# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 11 - Gnrl Local486

##### Provisions by Date

4/1/2008	Temporary 20 Years & Out (04/01/2008 - 10/01/2008)
10/1/2002	Temporary 20 Years & Out (10/01/2002 - 12/03/2002)
9/30/2000	DC Adoption Date 09-30-2000
4/1/1996	Benefit F55 (With 20 Years of Service)
4/1/1996	Benefit B-3 (80% max)
4/1/1996	6 Year Vesting
1/1/1994	Benefit F55 (With 25 Years of Service)
1/1/1994	Benefit C-2/Base B-1
9/1/1990	Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit B-3 (09/01/1990 - 01/03/1991)
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
9/1/1987	Member Contribution Rate 0.00%
1/1/1987	Flexible E 2% COLA Adopted (01/01/1987)
1/1/1985	Flexible E 2% COLA Adopted (01/01/1985)
1/1/1985	Benefit C-1 (Old)
1/1/1985	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1985	10 Year Vesting
1/1/1982	Member Contribution Rate 4.00%
1/1/1980	Flexible E 2% COLA Adopted (01/01/1980)
12/8/1972	Blanket Resolution (All Service)
10/19/1965	Covered by Act 88 Fiscal Month - October

#### Division 13 - Sheriff/Cooks

##### Provisions by Date

4/1/2008	Temporary 20 Years & Out (04/01/2008 - 10/01/2008)
10/1/2002	Temporary 20 Years & Out (10/01/2002 - 12/03/2002)
10/1/2001	Benefit B-4 (80% max)
10/1/2001	Member Contribution Rate 1.00%
9/30/2000	DC Adoption Date 09-30-2000
3/1/2000	Benefit F50 (With 25 Years of Service)
1/1/1994	Benefit B-3 (80% max)
1/1/1994	6 Year Vesting
1/1/1994	Benefit F55 (With 20 Years of Service)
9/1/1990	Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)

# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 13 - Sheriff/Cooks

##### Provisions by Date

9/1/1987 Member Contribution Rate 0.00%  
9/1/1987 Benefit C-2/Base B-1  
9/1/1987 Benefit FAC-5 (5 Year Final Average Compensation)  
9/1/1987 10 Year Vesting  
9/1/1987 Benefit F55 (With 25 Years of Service)  
1/1/1987 Flexible E 2% COLA Adopted (01/01/1987)  
1/1/1985 Flexible E 2% COLA Adopted (01/01/1985)  
1/1/1980 Flexible E 2% COLA Adopted (01/01/1980)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 14 - Nurses

##### Provisions by Date

4/1/2008 Temporary 20 Years & Out (04/01/2008 - 10/01/2008)  
1/1/1999 DC Adoption Date 01-01-1999  
4/1/1996 Benefit F50 (With 25 Years of Service)  
1/1/1993 Benefit B-3 (80% max)  
1/1/1991 6 Year Vesting  
1/1/1991 Benefit F55 (With 20 Years of Service)  
1/1/1991 Benefit B-2  
9/1/1990 Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)  
9/1/1990 Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)  
1/1/1989 Benefit C-2/Base B-1  
1/1/1989 Benefit F55 (With 25 Years of Service)  
1/1/1989 Flexible E 2% COLA Adopted (01/01/1989)  
1/1/1988 Benefit FAC-5 (5 Year Final Average Compensation)  
1/1/1988 10 Year Vesting  
1/1/1988 Member Contribution Rate 0.00%  
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)  
1/1/1987 Flexible E 2% COLA Adopted (01/01/1987)  
1/1/1985 Flexible E 2% COLA Adopted (01/01/1985)  
1/1/1982 Member Contribution Rate 4.00%  
1/1/1980 Flexible E 2% COLA Adopted (01/01/1980)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 15 - Hlth Dept

##### Provisions by Date

4/1/2008 Temporary 20 Years & Out (04/01/2008 - 10/01/2008)

# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 15 - Hlth Dept

##### Provisions by Date

10/1/2002	Temporary 20 Years & Out (10/01/2002 - 12/03/2002)
1/1/1999	DC Adoption Date 01-01-1999
12/1/1996	Benefit F50 (With 25 Years of Service)
1/1/1993	Benefit B-3 (80% max)
9/1/1990	Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit B-3 (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)
1/1/1990	Benefit F55 (With 20 Years of Service)
1/1/1990	Member Contribution Rate 0.00%
1/1/1990	Benefit B-2
1/1/1990	6 Year Vesting
1/1/1988	Benefit F55 (With 25 Years of Service)
1/1/1988	Benefit C-2/Base B-1
1/1/1988	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1988	10 Year Vesting
4/1/1982	Member Contribution Rate 4.00%
12/8/1972	Blanket Resolution (All Service)
10/19/1965	Covered by Act 88
	Fiscal Month - October

#### Division 16 - Elctd Commsnrs

##### Provisions by Date

1/1/2000	E2 2.5% Annual COLA for future retirees (01/01/1995)
3/1/1998	DC Adoption Date 03-01-1998
1/1/1998	Benefit F55 (With 15 Years of Service)
1/1/1998	25 Years & Out
1/1/1995	Benefit FAC-3 (3 Year Final Average Compensation)
1/1/1993	Benefit F55 (With 20 Years of Service)
1/1/1993	Benefit F50 (With 25 Years of Service)
1/1/1993	Benefit B-4 (80% max)
1/1/1991	Member Contribution Rate 0.00%
9/1/1990	Temporary Benefit B-3 (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)
9/1/1990	Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)
1/1/1990	Benefit B-2
1/1/1990	Benefit FAC-5 (5 Year Final Average Compensation)
1/1/1990	6 Year Vesting
1/1/1989	Flexible E 2% COLA Adopted (01/01/1989)
1/1/1988	Flexible E 2% COLA Adopted (01/01/1988)
1/1/1987	Flexible E 2% COLA Adopted (01/01/1987)
1/1/1985	Flexible E 2% COLA Adopted (01/01/1985)

# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 16 - Elctd Commsnrs

##### Provisions by Date

1/1/1985 Member Contribution Rate 4.00%  
1/1/1980 Flexible E 2% COLA Adopted (01/01/1980)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 17 - Animal Control

##### Provisions by Date

4/1/2008 Temporary 20 Years & Out (04/01/2008 - 10/01/2008)  
10/1/2002 Temporary 20 Years & Out (10/01/2002 - 12/03/2002)  
1/1/2001 Benefit F50 (With 25 Years of Service)  
1/1/2000 DC Adoption Date 01-01-2000  
1/1/1994 Benefit B-3 (80% max)  
1/1/1994 6 Year Vesting  
1/1/1994 Benefit F55 (With 20 Years of Service)  
1/1/1992 Member Contribution Rate 0.00%  
1/1/1992 Benefit C-2/Base B-1  
1/1/1992 10 Year Vesting  
1/1/1992 Benefit F55 (With 25 Years of Service)  
9/1/1990 Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)  
9/1/1990 Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)  
1/1/1989 Flexible E 2% COLA Adopted (01/01/1989)  
1/1/1989 Benefit FAC-5 (5 Year Final Average Compensation)  
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)  
1/1/1987 Flexible E 2% COLA Adopted (01/01/1987)  
1/1/1985 Flexible E 2% COLA Adopted (01/01/1985)  
1/1/1984 Member Contribution Rate 4.00%  
1/1/1980 Flexible E 2% COLA Adopted (01/01/1980)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 18 - Judges

##### Provisions by Date

4/1/2001 E2 2.5% Annual COLA for future retirees (04/01/2001)  
1/1/1999 DC Adoption Date 01-01-1999  
1/1/1998 Benefit F55 (With 15 Years of Service)  
1/1/1998 25 Years & Out  
1/1/1994 Benefit F50 (With 25 Years of Service)  
1/1/1994 Benefit B-4 (80% max)  
9/1/1990 Temporary Benefit B-3 (09/01/1990 - 01/03/1991)

# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 18 - Judges

##### Provisions by Date

9/1/1990 Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/03/1991)  
9/1/1990 Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991)  
1/1/1990 Benefit F55 (With 20 Years of Service)  
1/1/1990 Member Contribution Rate 0.00%  
1/1/1990 Benefit B-2  
1/1/1990 Benefit FAC-5 (5 Year Final Average Compensation)  
1/1/1990 6 Year Vesting  
1/1/1989 Flexible E 2% COLA Adopted (01/01/1989)  
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)  
1/1/1987 Flexible E 2% COLA Adopted (01/01/1987)  
1/1/1985 Flexible E 2% COLA Adopted (01/01/1985)  
1/1/1985 Member Contribution Rate 4.00%  
1/1/1980 Flexible E 2% COLA Adopted (01/01/1980)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 19 - Dist Judges

##### Provisions by Date

4/1/2001 E2 2.5% Annual COLA for future retirees (04/01/2001)  
1/1/1999 DC Adoption Date 01-01-1999  
1/1/1998 25 Years & Out  
1/1/1998 Benefit F55 (With 15 Years of Service)  
1/1/1994 Benefit F50 (With 25 Years of Service)  
1/1/1994 Benefit B-4 (80% max)  
9/1/1990 Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/01/1991)  
9/1/1990 Temporary Benefit F50 (With 25 Years of Service) (09/01/1990 - 01/01/1991)  
9/1/1990 Temporary Benefit B-3 (09/01/1990 - 01/01/1991)  
1/1/1990 Benefit FAC-5 (5 Year Final Average Compensation)  
1/1/1990 6 Year Vesting  
1/1/1990 Benefit F55 (With 20 Years of Service)  
1/1/1990 Member Contribution Rate 0.00%  
1/1/1990 Benefit B-2  
1/1/1989 Flexible E 2% COLA Adopted (01/01/1989)  
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)  
1/1/1987 Flexible E 2% COLA Adopted (01/01/1987)  
1/1/1985 Member Contribution Rate 4.00%  
1/1/1985 Flexible E 2% COLA Adopted (01/01/1985)  
1/1/1980 Flexible E 2% COLA Adopted (01/01/1980)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88

# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 19 - Dist Judges

Provisions by Date

Fiscal Month - October

#### Division 20 - Sheriff FOP

Provisions by Date

4/1/2008 Temporary 20 Years & Out (04/01/2008 - 10/01/2008)  
10/1/2002 Temporary 20 Years & Out (10/01/2002 - 12/03/2002)  
1/1/2000 DC Adoption Date 01-01-2000  
1/1/2000 25 Years & Out  
1/1/2000 Benefit F55 (With 15 Years of Service)  
1/1/1994 Benefit B-4 (80% max)  
5/1/1992 Benefit B-3 (80% max)  
5/1/1992 6 Year Vesting  
5/1/1992 Benefit F50 (With 25 Years of Service)  
1/1/1991 Benefit B-2  
1/1/1989 Flexible E 2% COLA Adopted (01/01/1989)  
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)  
1/1/1987 Flexible E 2% COLA Adopted (01/01/1987)  
1/1/1986 Member Contribution Rate 0.00%  
1/1/1985 Flexible E 2% COLA Adopted (01/01/1985)  
1/1/1983 Member Contribution Rate 4.00%  
1/1/1983 Benefit C-2/Base B-1  
1/1/1983 Benefit FAC-5 (5 Year Final Average Compensation)  
1/1/1983 10 Year Vesting  
1/1/1983 Benefit F55 (With 25 Years of Service)  
1/1/1980 Flexible E 2% COLA Adopted (01/01/1980)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 21 - Shrff/Lts/Capts

Provisions by Date

4/1/2008 Temporary 20 Years & Out (04/01/2008 - 10/01/2008)  
10/1/2002 Temporary 20 Years & Out (10/01/2002 - 12/03/2002)  
1/1/2001 Benefit F55 (With 15 Years of Service)  
1/1/2001 E2 2.5% Annual COLA for future retirees (01/01/2001)  
1/1/2001 25 Years & Out  
1/1/1999 DC Adoption Date 01-01-1999  
1/1/1994 Benefit B-4 (80% max)  
5/1/1992 Member Contribution Rate 0.00%  
5/1/1992 Benefit B-3 (80% max)  
5/1/1992 Benefit F50 (With 25 Years of Service)

# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 21 - Shrff/Lts/Capts

##### Provisions by Date

5/1/1992 6 Year Vesting  
1/1/1991 Benefit B-2  
1/1/1991 Benefit FAC-5 (5 Year Final Average Compensation)  
1/1/1991 10 Year Vesting  
1/1/1989 Flexible E 2% COLA Adopted (01/01/1989)  
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)  
1/1/1987 Flexible E 2% COLA Adopted (01/01/1987)  
1/1/1985 Flexible E 2% COLA Adopted (01/01/1985)  
1/1/1980 Flexible E 2% COLA Adopted (01/01/1980)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 23 - P.O.A.M. Non 312

##### Provisions by Date

4/1/2008 Temporary 20 Years & Out (04/01/2008 - 10/01/2008)  
10/1/2002 Temporary 20 Years & Out (10/01/2002 - 12/03/2002)  
9/30/2000 DC Adoption Date 09-30-2000  
12/1/1999 25 Years & Out  
12/1/1999 6 Year Vesting  
12/1/1999 Benefit FAC-5 (5 Year Final Average Compensation)  
12/1/1999 Member Contribution Rate 4.00%  
12/1/1999 E2 2.5% Annual COLA for future retirees (12/01/1999)  
12/1/1999 Benefit B-4 (80% max)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 91 - Juvenile Probtn

##### Provisions by Date

4/1/2008 Temporary 20 Years & Out (04/01/2008 - 10/01/2008)  
6/1/2005 Member Contribution Rate 3.45%  
6/1/2005 Benefit B-4 (80% max)  
10/1/2002 Temporary 20 Years & Out (10/01/2002 - 12/03/2002)  
10/1/2001 25 Years & Out  
9/30/2000 DC Adoption Date 09-30-2000  
1/1/1994 6 Year Vesting  
1/1/1994 Benefit FAC-5 (5 Year Final Average Compensation)  
1/1/1994 Benefit B-3 (80% max)  
1/1/1994 Benefit F55 (With 20 Years of Service)  
1/1/1994 Benefit F50 (With 25 Years of Service)

# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 91 - Juvenile Probtm

##### Provisions by Date

1/1/1994 Member Contribution Rate 0.00%  
1/1/1989 Flexible E 2% COLA Adopted (01/01/1989)  
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)  
1/1/1987 Flexible E 2% COLA Adopted (01/01/1987)  
1/1/1985 Flexible E 2% COLA Adopted (01/01/1985)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 92 - Dist Court Prob

##### Provisions by Date

4/1/2008 Temporary 20 Years & Out (04/01/2008 - 10/01/2008)  
3/1/2006 Member Contribution Rate 3.84%  
3/1/2006 Benefit B-4 (80% max)  
10/1/2002 Temporary 20 Years & Out (10/01/2002 - 12/03/2002)  
10/1/2001 25 Years & Out  
1/1/2000 DC Adoption Date 01-01-2000  
12/1/1996 Benefit F55 (With 20 Years of Service)  
12/1/1996 Benefit F50 (With 25 Years of Service)  
1/1/1994 Benefit F55 (With 25 Years of Service)  
1/1/1994 Member Contribution Rate 0.00%  
1/1/1994 Benefit B-3 (80% max)  
1/1/1994 Benefit FAC-5 (5 Year Final Average Compensation)  
1/1/1994 6 Year Vesting  
1/1/1989 Flexible E 2% COLA Adopted (01/01/1989)  
1/1/1988 Flexible E 2% COLA Adopted (01/01/1988)  
1/1/1987 Flexible E 2% COLA Adopted (01/01/1987)  
1/1/1985 Flexible E 2% COLA Adopted (01/01/1985)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 93 - Pros Attys Union

##### Provisions by Date

10/1/2002 Temporary 20 Years & Out (10/01/2002 - 12/03/2002)  
1/1/1999 DC Adoption Date 01-01-1999  
11/1/1995 6 Year Vesting  
10/1/1995 10 Year Vesting  
10/1/1995 Benefit FAC-5 (5 Year Final Average Compensation)  
10/1/1995 Member Contribution Rate 0.00%  
10/1/1995 Benefit F55 (With 20 Years of Service)



# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 93 - Pros Attys Union

##### Provisions by Date

10/1/1995 Benefit F50 (With 25 Years of Service)  
10/1/1995 Benefit B-3 (80% max)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 94 - Upper Management

##### Provisions by Date

6/20/2006 DC Adoption Date 06-20-2006  
1/1/2000 E2 2.5% Annual COLA for future retirees (02/01/1999)  
2/1/1999 25 Years & Out  
2/1/1999 6 Year Vesting  
2/1/1999 Benefit RS 50 (50% Post-Ret. Spouse Benefits)  
2/1/1999 Benefit F55 (With 15 Years of Service)  
2/1/1999 Member Contribution Rate 0.00%  
2/1/1999 Benefit B-4 (80% max)  
2/1/1999 Benefit FAC-3 (3 Year Final Average Compensation)  
12/8/1972 Blanket Resolution (All Service)  
10/19/1965 Covered by Act 88  
Fiscal Month - October

#### Division 95 - NonUnion Mgmnt

##### Provisions by Date

6/20/2006 DC Adoption Date 06-20-2006  
1/1/2006 E2 2.5% Annual COLA for future retirees (10/01/2005)  
10/1/2005 25 Years & Out  
10/1/2005 6 Year Vesting  
10/1/2005 Benefit FAC-5 (5 Year Final Average Compensation)  
10/1/2005 Covered by Act 88  
10/1/2005 Benefit F55 (With 15 Years of Service)  
10/1/2005 Member Contribution Rate 0.00%  
10/1/2005 Benefit B-4 (80% max)  
10/1/2005 Blanket Resolution (All Service)  
Fiscal Month - October

#### Division 96 - UAW Para prof.

##### Provisions by Date

4/1/2008 Temporary 20 Years & Out (04/01/2008 - 10/01/2008)  
6/20/2006 DC Adoption Date 06-20-2006  
4/1/2006 6 Year Vesting

# Saginaw County (7303)

## Table 25 (continued)

### Benefit Provision History

#### Division 96 - UAW Para prof.

##### Provisions by Date

4/1/2006	Benefit FAC-5 (5 Year Final Average Compensation)
4/1/2006	Member Contribution Rate 4.34%
4/1/2006	Benefit F55 (With 15 Years of Service)
4/1/2006	Benefit F50 (With 25 Years of Service)
4/1/2006	Benefit B-4 (80% max)
	Fiscal Month - October

**APPENDIX**

**SUMMARY OF  
PLAN PROVISIONS  
AND  
ACTUARIAL ASSUMPTIONS  
AND  
ACTUARIAL FUNDING METHOD  
AS OF DECEMBER 31, 2008**

**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 amended), 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, 2008 actuarial valuation are those adopted by the Retirement Board. The actuarial assumptions were last revised as of December 31, 2008 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.

### **ASSUMPTION AND METHOD CHANGES FOR THE DECEMBER 31, 2008 ACTUARIAL VALUATION**

The December 31, 2008 actuarial valuation reflects the following change(s) in the actuarial assumptions and/or methods:

- Revised rates of expected employee turnover (withdrawal, or termination of employment before retirement).

The effects of these changes are shown in the note below Table 16 for each division.

## **SUMMARY OF PLAN PROVISIONS - DEFINED BENEFIT PLAN \***

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 filed with MERS 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.

*\* Please see page 186 for a description of the Hybrid Plan.*

## **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 189). 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 189). 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 189). 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 0.73%.

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.

## **DROP+ Delayed Retirement Option Partial Lump Sum (Plan Section 10(6))**

Any member who is eligible to retire with full, immediate retirement benefits has the option to:

- (i) Retire immediately and receive a monthly benefit payable immediately, or
- (ii) Delay his or her retirement date and continue to work.

If the member is covered by Benefit Program DROP+ and the member retires at least 12 months after first becoming eligible for unreduced benefits, at actual retirement the member *has the option* to receive a partial lump sum and a reduced monthly benefit:

- (i) The member can elect a lump sum equal to 12, 24, 36, 48, or 60 times the member's monthly accrued benefit (if the member has delayed retirement at least that many months).
- (ii) For each 12 months included in the lump sum, the member's lifetime benefit is reduced by the DROP+ Percentage adopted by the employer. The employer can adopt any of the following DROP+ reduction percentages: 4%, 5%, 6%, 7%, or 8%.

## SUMMARY OF PLAN PROVISIONS - HYBRID PLAN \*

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.

### Part I - Defined Benefit Portion of Hybrid Plan

#### Eligibility for Retirement (Plan Section 19B)

Age 60 and 6 or more years of service.

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

None

#### Mandatory Retirement

None

#### Deferred Retirement (Plan Sections 12 and 19B)

Termination of membership before age 60 other than death, after 6 years of credited service. Retirement allowances begin upon application filed with MERS, at age 60 or later. The deferred retirement allowance is computed in the same manner as a service retirement allowance, based on the final average compensation and years of service at termination.

#### Service Retirement Allowance (Plan Section 19B)

Credited service at time of termination is multiplied by:

Hybrid 1.0%	1.0% of a member's final average compensation (FAC)
Hybrid 1.25%	1.25% of FAC
Hybrid 1.5%	1.5% of FAC

\* Please see page 179 for a description of the Defined Benefit Plan.

**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 189). 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), 2A(11) and 19(B))**

Computed under defined benefit plan Benefit Program FAC-3.

**Disability Retirement Allowance (Plan Section 24)**

Benefits are the same as under the defined benefit plan, except that optional Benefit Program D-2 does not apply.

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

Benefits are the same as under the defined benefit plan.

**Duty-Connected Death Allowance (Plan Section 27)**

Benefits are the same as under the defined benefit plan, except that optional Benefit Program D-2 does not apply.

**Member Contributions (Plan Section 19B)**

None

**Post-Retirement Adjustments (Plan Sections 20-22)**

None

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

The same optional forms of payment are available as under the defined benefit plan, except that optional Benefit Program RS50% does not apply.

**DROP+ Delayed Retirement Option Partial Lump Sum (Plan Section 10(6))**

None

## **Part II - Defined Contribution Portion of Hybrid Plan**

### **Employer Contributions (Plan Section 19B)**

Contribution Amount - Any percentage of compensation allowed by federal law.

Vesting Schedule - One of the following vesting schedules for employer contributions can be adopted by the employer:

1. Immediate vesting upon participation, or
2. 100% vesting after stated years (participant is 100% vested after not to exceed maximum 5 years of service ("cliff" vesting)), or
3. Graded vesting percentages per year of service, not to exceed maximum 6 years of service for 100% vesting, nor be less than certain stated minimums

### **Member Contributions (Plan Section 19B)**

Contribution Amount - Any amount allowed by federal law and subject to procedures established by the Retirement Board.

Vesting Schedule - 100% immediate vesting

**Municipal Employees' Retirement System of Michigan  
IRC Section 415(b)(1)(A) Benefit Dollar Limits - 2009**

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.

<b>Age at Retirement</b>	<b>General Employees</b>	<b>Police and Fire Members #</b>
35	\$ 35,366	\$ 195,000
36	37,375	195,000
37	39,512	195,000
38	41,786	195,000
39	44,208	195,000
40	46,788	195,000
41	49,541	195,000
42	52,479	195,000
43	55,618	195,000
44	58,975	195,000
45	62,569	195,000
46	66,420	195,000
47	70,551	195,000
48	74,989	195,000
49	79,762	195,000
50	84,903	195,000
51	90,448	195,000
52	96,439	195,000
53	102,921	195,000
54	109,948	195,000
55	117,578	195,000
56	125,881	195,000
57	134,932	195,000
58	141,819	195,000
59	155,644	195,000
60	167,522	195,000
61	180,589	195,000
62	195,000	195,000
63	195,000	195,000
64	195,000	195,000
65 & older	195,000	195,000

# Requires that the member have at least 15 years of police, fire, and/or armed forces service as defined in the final regulations issues on April 5, 2007. Otherwise, use the limits for general members.

**IRC Section 401(a)(17) Compensation Limit - 2009**

For 2009 the IRC Section 401(a)(17) limit is \$245,000. 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, 2008 actuarial valuation are unchanged from the December 31, 2007 valuation assumptions , with the exceptions noted on page 178. 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 2008 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.

The reader should note that, given that the actuarial value of assets is currently 39% higher than the market value, meeting the actuarial assumption in the next few years will require average annual market returns that substantially exceed the 8% investment return assumption.

**Please see the Comments on the the Investment Markets on page 3 .**



## 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, and scaled up or down according to each division's experience.

<b>Division</b>	<b>Withdrawal Rate Scaling Factor</b>
All divisions	90%

The base withdrawal rates (see the table below) are multiplied by the scaling factor to obtain the assumed withdrawal rates.

Sample rates of withdrawal from active employment, before application of the scaling factor, are shown below. These rates were first used for the December 31, 2008 actuarial valuations.

<b>Sample Years of Service</b>	<b>% of Active Members Withdrawing Within the Next Year</b>
0	20.00%
1	17.00
2	14.00
3	11.00
4	9.00
5	6.50
10	5.00
15	3.70
20	3.00
25	2.70
30	2.60
34 and over	2.40

## 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**

<b>Age</b>	<b>Percent of Eligible Active Members Retiring Within Next Year</b>	<b>Age</b>	<b>Percent of Eligible Active Members Retiring Within Next Year</b>	<b>Age</b>	<b>Percent of Eligible Active Members Retiring Within Next Year</b>
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**

<b>Retirement Ages</b>	<b>Percent of Eligible Active Members Retiring Within Next Year</b>
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:

<b>Age</b>	<b>Expected Years of Life Remaining</b>	<b>Mortality Rates</b>
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:

<b>Age</b>	<b>Expected Years of Life Remaining</b>	<b>Mortality Rates</b>
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. Benefit service is the service used in the benefit formula.
- Eligibility Service - The larger of reported Eligibility Service and reported Vesting Service was used as eligibility service in the valuation. Eligibility service is the service used to meet the conditions for retirement, and is generally equal to or larger than benefit service.
- Decrement Relativity - Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
- Decrement Operation - Disability and withdrawal do not operate during retirement eligibility.
- Normal Form of Benefit - Future retiring members are assumed to elect:

<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.

## Miscellaneous and Technical Assumptions (continued)

- 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.
- DROP+ Assumptions - Each eligible member is assumed to make the DROP+ election with the most valuable combination of lump sum and reduced monthly benefit.
- The retirement probabilities on pages 193 - 194 are used for members who are *not* covered by Benefit Program DROP+. For members covered by Benefit Program DROP+, it is assumed that retirement will be delayed long enough to become eligible for at least 4 years worth of DROP+ lump sum.



## 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, 2008, 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 163 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 2008 valuation. This period will also be used for the 2009 valuation, and then will be reduced by one year in each of the next eight annual valuations, reaching 20 years in the 2017 valuation. Beginning with the 2018 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 or hybrid 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 or hybrid 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, including the assumption that active members' pays increase in accordance with the pay increase assumption (see page 191). If the number of active members remains constant, projected total active member payroll will increase about 4.5% annually, the wage inflation assumption. For open divisions (an open division is open to newly hired employees), this projected payroll growth results in increasing employer contributions even when the employer contribution rate is stable or slowly declining.
- The actuarial value of assets will earn the assumed 8% return each year during the projection period (see **Comments on the Investment Markets on page 3**).
- There will be no benefit changes during the projection period.
- The employer contributions through October 1, 2010 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. However, if an open division is linked to a division that will have no new hires (whose new hires enter the open division), the total number of active members in the linked divisions (combined) is assumed to remain constant. For closed divisions (no new hires), the number of active members is assumed to gradually decline to zero, based on the assumptions for retirement, disability, termination, and death.

**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 illustrate the long term pattern of employer contributions under current funding policies. A projection of contribution rates for budgeting purposes would require additional short-term actuarial 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 2017 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. However, the closed division's funded percentage may start to decline several years after all the members have retired. Once the average age of the retiree-only division reaches the late 70's or older, the 5-year amortization period may result in insufficient assets to cover the pension payout. This issue is being reviewed in the 2004-2008 study of MERS experience, and the 5-year amortization will likely be revised. For these closed divisions the projected funded percentage in Chart 17.5 may decrease (or go negative) in the later years of the projection.

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 division with 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 standard open division amortization policy applies to a division with no new hires that is linked to an open division. The linked division with no new hires is allowed to share the assets of the linked open division. The division with no new hires alone will run out of assets; however, the combined linked divisions will not run out of assets and the combined funded percentage will head towards 100%. For a linked division the projections also show a dashed line that represents the combined projection of all the linked divisions.

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.

For divisions that are affected by employer contribution rate caps, the projections of employer contributions in Chart 17.5 do not reflect the impact of the employer cap provision. Member contribution rates are assumed to remain constant at the rates shown in Table 1. The projected employer contribution rate is allowed to move up or down, as need, to adequately fund the benefit obligations. In other words, projection of the future impact of the employer cap provision is beyond the scope of the Chart 17.5 projections. Future annual actuarial valuation reports will, of course, reflect (in the results) the application of the then-current employer cap provision.

### **Linked Divisions**

The closed division funding policy described at the bottom of page 200 was adopted by the Retirement Board (Amortization Policy for Closed Divisions Within Open Municipalities, as revised by the Retirement Board on March 11, 2009). 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 a 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 DB division with no new hires (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 division with no new hires is "linked" to an open MERS DB division, this is indicated in Table 1, in the footnote to Table 16, and in the projections in Chart 17.5. Both the linked divisions 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 2008, 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 4.73%. The corresponding amounts for 2007, 2006, 2005, and 2004 were 8.12%, 8.14%, 6.51%, and 6.82%, respectively.

For the December 31, 2008 valuation, the actuarial value of assets is equal to 139.15% of market value (compared to 98.85%, 98.62%, 102.71%, and 102.45% in 2007, 2006, 2005, and 2004, 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 206 provides the details of the derivation of the actuarial value of assets for the retirement system in the aggregate.

The reader should note that, given that the actuarial value of assets is currently 39% higher than the market value, meeting the actuarial assumption in the next few years will require average annual market returns that substantially exceed the 8% investment return assumption.

**Please see the Comments on the Investment Markets on page 3 .**

**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	6,071,046,914		
b) Valuation Assets	5,039,071,709	5,512,924,466	6,001,040,078		
2. End of Year Market Value Assets	5,590,042,317	6,071,046,914	4,512,260,955		
3. Net Additions to Market Value					
a) Net Contributions	371,505,157	386,942,952	374,214,134		
b) Net Investment Income = (3d) - (3a) - (3c)	622,409,716	442,377,206	(1,553,001,917)		
c) Benefit Payments	(310,161,246)	(348,315,561)	(379,998,176)		
d) Total Additions to Market Value = (2) - (1a)	<u>683,753,627</u>	<u>481,004,597</u>	<u>(1,558,785,959)</u>		
4. Average Valuation Assets =					
(1b) + .5x[(3a) + (3c)]	5,069,743,665	5,532,238,162	5,998,148,057		
5. Expected Income at Valuation Rate = 8% x (4)	405,579,493	442,579,053	479,851,845		
6. Gain (Loss) = (3b) - (5)	216,830,223	(201,847)	(2,032,853,762)		
7. Phased-In Recognition of Investment Return					
a) Current Year: 0.1 x (6)	21,683,022	(20,185)	(203,285,376)		
b) First Prior Year	(14,753,669)	21,683,022	(20,185)	(203,285,376)	
c) Second Prior Year		(14,753,669)	21,683,022	(20,185)	(203,285,376)
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)	<u>6,929,353</u>	<u>6,909,168</u>	<u>(196,376,208)</u>	<u>(196,376,208)</u>	<u>(196,376,208)</u>
8. Change in Valuation Assets					
(3a) + (3c) + (5) + (7k)	473,852,757	488,115,612	277,691,595		
9. End of Year Assets					
a) Market Value = (2)	5,590,042,317	6,071,046,914	4,512,260,955		
b) Valuation Assets = (1b) + (8)	5,512,924,466	6,001,040,078	6,278,731,673		
c) Difference Between Market & Valuation Assets	77,117,851	70,006,836	(1,766,470,718)		
10. Recognized Rate of Return = [(5) + (7k)] / (4)	8.14%	8.12%	4.73%		
11. Market Rate of Return	12.61%	7.89%	(25.59%)		
12. Valuation Asset Adjustment Factor = (9b) / (9a)	0.986204	0.988469	1.391482		



**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



Gabriel Roeder Smith & Company  
Consultants & Actuaries

One Towne Square  
Suite 800  
Southfield, MI 48076-3723

248.799.9000 phone  
248.799.9020 fax  
[www.gabrielroeder.com](http://www.gabrielroeder.com)

---

Amy Deford  
Saginaw County  
111 S. Michigan  
Court House  
Saginaw, MI 48602

**MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN**

ANNUAL ACTUARIAL VALUATION REPORT

SAGINAW COUNTY (7303)

DECEMBER 31, 2008