May 9, 2017

The Retirement Commission Genesee County Employees Retirement System Genesee County, Michigan

Dear Commission Members:

The purpose of the annual actuarial valuation of the Genesee County Employees Retirement System as of December 31, 2016 is to:

- Compute the liabilities associated with benefits likely to be paid on behalf of current retired and active members of the Retirement System,
- Compare accrued assets with accrued liabilities to assess the funded condition of the Retirement System, and
- Compute the recommended employer contribution rates for the Fiscal Year beginning January 1, 2018.

This valuation has been conducted in accordance with generally accepted actuarial principles and practices. Data concerning active members, retirees, beneficiaries and assets was provided by the County. This data has been reviewed for reasonableness, but no attempt has been made to audit such information. The valuation was based on the provisions of the Retirement System as amended through January 1, 2016. This valuation has been prepared under the supervision of a Member of the American Academy of Actuaries qualified to render the actuarial opinions contained herein.

Respectfully submitted,

Sandia M Rodwan

Sandra W. Rodwan, M.A.A.A.

Genesee County Employees Retirement System

Actuarial Valuation as of December 31, 2016

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Section One: Valuation Summary



Purpose of Valuation

The purpose of the annual actuarial valuation of the Genesee County Employees Retirement System as of December 31, 2016 is to:

- Compute the liabilities associated with benefits likely to be paid on behalf of current retired and active members of the Retirement System,
- Compare accrued assets with accrued liabilities to assess the funded condition of the Retirement System, and
- Compute the County's recommended contribution rate for the Fiscal Year beginning January 1, 2018.

Liabilities and Funded Condition of Retirement System

Accrued liabilities of the Retirement System as of December 31, 2016 were computed to be \$598,795,199. The funding value of accrued assets was \$416,923,172. The ratio of the funding value of accrued assets to accrued liabilities was 69.6%.

Funding Value of Assets

A smoothed market value of assets was used for the December 31, 2016 valuation. This method, which spreads realized and unrealized capital value changes over four years, is the same as the method used for last year's valuation.

Computed Employer Contribution Rates

The employer normal cost contribution rate was computed to be 8.39% for General & Sheriffs; 4.20% of Water & Waste member payroll; 7.66% of Library member payroll; 6.52% of Mental Health member payroll; 11.20% of Road Commission member payroll and 9.25% of Mt. Morris member payroll.

Actuarial accrued liabilities exceeded the funding value of assets in all groups. The unfunded amount was amortized over 25 years and added to the employer normal cost.

The 25 year amortization period was first used for the December 30, 2010 valuation.

The total employer contribution for General & Sheriffs was computed to be 94.93% which includes an amortization amount of 85.52%. For Water & Waste, the total employer contribution rate was computed to be 19.15% which includes an amortization payment of 13.93%. For the Library, the total employer contribution rate was computed to be 23.98% which includes an amortization payment of 15.30%. The total employer contribution rate for Mental Health was computed to be 35.25% which includes an amortization payment of 27.71%. The total contribution rate for the Road Commission was computed to be 32.78% which includes an amortization payment of 20.56%. The contribution rate for Mt. Morris was computed to be 14.15% which includes an amortization payment of 3.88%. All groups have a 1.02% contribution rate for administrative expenses included.

Retirement System Experience

The overall recognized experience of the Retirement System during the year ended December 31, 2016 was less favorable than expected experience based upon the long-term assumptions. The investment return on the on the smoothed funding value of assets was less than assumed. The smoothed funding value includes carry forwards from the prior 3 years. Less than assumed salary increases partially offset the unfavorable experience.

Changes in Methods and Assumptions

The Retirement Commission adopted the RP 2000 Mortality Table projected to 2014 and reduced the assumed rate of return to 7.85% from 8%, with future annual reductions of 0.15% to 7.0% ultimately. Also adopted were changes in withdrawal, disability, and retirement rates in accordance with the 2010-2014 Experience Study. There were no changes in methods.

Benefit Provision Changes

A brief summary of the benefit provision changes that occurred during the year are as follows:

AFSCME 496-00 and 01, PCOA, Judicial Admin Secretaries: Employee contribution rates increased to 9.5%.

AFSCME 496-03: Employee contribution rate increased to 11.0%.

Teamsters, Parks: Employee contribution rate increased to 9%.

Participant Data

	<u>12/31/2016</u>	<u>12/31/2015</u>
Active Members	627	671
Active Member Payroll	\$39,466,036	\$41,687,051
Retirees and Beneficiaries	1,734	1,717
Annual Pensions	\$45,562,863	\$44,663,724
Inactive Vested Members	78	84
Estimated Annual Pensions	\$1,283,659	\$1,394,909

Financial Data

	<u>12/31/2016</u>	<u>12/31/2015</u>
Smoothed Valuation Assets	\$416,923,172	\$428,816,188
Market Value of Assets	431,569,064	423,186,239

Conclusion

The Retirement System is being financed in accordance with a sound funding objective of funding benefits as they accrue.

Section Two:

Actuarial Calculations – Funding



Computed Contribution Rates for The Year Beginning January 1, 2018

The contribution rates shown below are expressed as percents of active member payroll for all groups.

The normal cost can be viewed as the long-term ongoing cost of the Retirement System.

Actuarial accrued liabilities exceeded assets as of December 31, 2016 in all groups. Amortizing unfunded actuarial accrued liabilities over 25 years produces an amortization payment. The amortization payment was computed as a level percent of active member payroll for all divisions except General & Sheriffs and Mental Health. For General & Sheriffs and Mental Health divisions the level dollar amortization was used, as adopted by the Retirement Commission on June 10, 2013.

Contribution Recommendations:

Percents of Payroll

	General & Sheriffs	Water & Waste	District Library	Mental Health	Road Commission	Mt. Morris
Normal Cost						
Regular Retirement	11.59%	8.47%	7.32%	8.41%	11.24%	10.45%
Pre-retirement Death	0.37	0.39	0.27	0.29	0.59	0.20
Disability	1.95	0.64	0.56	0.62	1.56	0.43
Withdrawal	<u>2.99</u>	1.70	1.30	2.20	1.41	3.17
Total Normal Cost	16.90	11.20	9.45	11.52	14.80	14.25
Member Portion	8.51	7.00	1.79	5.00	3.60	5.00
Employer Normal Cost	8.39%	4.20%	7.66%	6.52%	11.20%	9.25%
Unfunded Actuarial Accrued Liability	85.52	13.93	15.30	27.71	20.56	3.88
Temporary Funding Credit	0.00	0.00	0.00	0.00	0.00	0.00
Administrative Expense	1.02	1.02	1.02	1.02	1.02	1.02
Net Employer Contribution Rate	94.93%*	19.15%	23.98%	35.25%*	32.78%	14.15%

^{*}The computed dollar contribution for General & Sheriffs is \$10,432,935 and for Mental Health is \$3,320,829.

${\bf Employer\ Contributions-Historical\ Schedule}$

		As	Percents of V	Valuation Pay	roll	
Valuation		125				
Date	General &	Water &	District	Mental	Road	Mt.
December 31	Sheriffs	Waste	Library	Health	Commission	Morris
1980*	11.34%		·	4.09%	12.38%	5.30%
1985*	8.01	6.37%	7.91%	7.03	10.24	4.90
1990*	16.21	6.82	4.15	9.12	10.42	1.62
1995*	18.44	9.99	0.00	7.17	23.34	0.00
1996*	20.19	3.22	0.00	4.69	26.04	3.78
1997*	17.32	10.88	0.00	5.68	19.33	3.76
1998*	11.09	4.14	0.00	1.89	13.78	0.00
1999*	10.29	2.08	0.00	1.20	10.95	0.00
2000*	10.70	3.02	0.00	8.97	12.02	0.00
2001*	10.70	4.71	0.00	8.09	16.93	5.22
2002*	15.52	14.00	0.56	9.44	16.42	11.56
2003*	19.27	15.94	5.40	11.47	18.19	14.96
2004*	22.31	17.11	8.95	13.61	19.57	18.47
2005*	24.28	17.58	12.68	12.80	18.18	18.76
2006*	23.48	15.94	11.20	11.49	16.00	18.21
2007*	25.38	16.49	8.58	11.63	16.60	20.56
2008*	29.33	17.76	11.64	13.96	18.34	20.40
2009	31.74	18.81	12.00	15.16	19.46	21.46
2010*	40.83	18.72	15.13	18.69	22.24	27.08
2010	53.48	20.30	16.87	21.09	25.18	28.43
2012	52.70	20.35	15.93	19.58	25.15	24.34
2013	54.36	18.41	14.34	20.02	23.29	16.45
2014	64.38	16.20	17.65	26.11	23.67	12.52
						-
2015	71.59	15.94	19.53	29.19	24.34	11.15
2016*	94.93	19.15	23.98	35.25	32.78	14.15

^{*} A fter benefit and/or actuarial assumption changes.

Unfunded Actuarial Accrued Liability – by Divisions

	General & Sheriffs	Water & Waste	District Library	Mental Health	Road Commission	Mt. Morris		
Actuarial accrued liab	Actuarial accrued liability and reserves							
Retirees and								
beneficiaries	\$276,249,179	\$34,916,859	\$11,027,701	\$75,085,338	\$52,339,469	\$4,345,088		
Active and inactive								
members	<u>51,874,210</u>	<u>23,119,580</u>	<u>5,832,313</u>	<u>36,437,930</u>	<u>25,935,331</u>	<u>1,632,201</u>		
Total	328,123,389	58,036,439	16,860,014	111,523,268	78,274,800	5,977,289		
Assets allocated to fun	ding*							
	222,561,928	40,662,517	12,153,310	82,208,911	53,666,351	5,670,155		
Unfunded actuarial ac	crued liability							
	105,561,461	17,373,922	4,706,704	29,314,357	24,608,449	307,134		
Funded Ratio	67.8%	70.1%	72.1%	73.7%	68.6%	94.9%		
Funded Ratio								
- Prior Year	72.0%	75.5%	79.9%	76.8%	77.1%	96.8%		

^{*}Allocated based on Reserve Balances reported for each division.

Total Unfunded Actuarial Accrued Liability

	<u>December 31, 2016</u>	<u>December 31, 2015</u>
Actuarial Accrued Liabilities	\$598,795,199	\$576,905,433
Assets Allocated to Funding	416,923,172	428,816,188
Unfunded Actuarial Accrued Liabilities	\$181,872,027	\$148,089,245

Results shown throughout this report, for years prior to 2001, were prepared by the previous actuary.

History of Assets and Accrued Liabilities

Valuation Date	Valuation	Accrued Actuarial	Funded	Unfunded Accrued Actuarial
12/31	Assets	Liabilities	Ratio	Liabilities
1980	\$ 48,294	\$ 55,475	87.1 %	\$ 7,181
1985	105,558	91,739	115.1	(13,819)
1990	189,796	172,652	109.9	(17,144)
1991	212,628	200,207	106.2	(12,421)
1992	233,721	239,336	97.7	5,615
1993	251,623	261,782	96.1	10,159
1994	270,364	270,462	100.0	98
100 7	200 445	201.702	100 6	(7.71.4)
1995	299,417	291,703	102.6	(7,714)
1996	317,581	305,706	103.9	(11,875)
1997	331,952	324,882	102.2	(7,714)
1998	380,089	343,752	103.9	(11,875)
1999	418,745	369,606	113.3	(49,139)
2000	432,631	399,583	108.3	(33,048)
2001	425,847	403,159	105.6	(22,688)
2002	414,126	423,009	97.9	8,883
2003	405,218	433,148	93.6	27,930
2004	404,493	458,069	88.3	53,576
2005	412,740	467,582	88.3	54,842
2006	445,962	490,335	91.0	44,373
2007	461,349	514,859	89.6	53,510
2008	439,813	527,640	83.4	87,827
2009	424,483	543,307	78.1	118,824
2010	401,700	564,033	71.2	162,333
2011	365,262	549,929	66.4	184,667
2012	387,979	559,391	69.4	171,412
2013	409,675	548,196	74.7	138,521
2014	426,294	569,836	74.8	143,542
2015	428,816	576,905	74.3	148,089
2016	416,923	598,795	69.6	181,872

Aggregate Gain/Loss -- Year Ended December 31, 2016

	General & Sheriffs	Water & Waste	District Library	Mental Health	Road Comm.	Mt. Morris	Totals
(1) UAAL at start of year	\$89,727,825	\$13,368,912	\$3,217,740	\$25,079,024	\$16,512,316	\$183,428	\$148,089,245
(2) EE and ER Normal Cost From Last Year Val	1,952,622	886,805	206,894	1,179,690	1,056,980	79,844	5,362,835
(3) Actual EE and ER Contribution	9,894,935	2,128,033	430,112	5,018,842	2,189,094	94,163	19,755,179
(4) Interest Accrual	6,860,533	1,019,864	248,490	1,852,756	1,275,701	14,101	11,271,446
(5) Expected UAAL Bef. Changes	88,646,045	13,147,548	3,243,012	23,092,628	16,655,903	183,210	144,968,347
(6) Changes Due to Amend.					-		-
(7) Changes Due to Assumps.	11,307,700	1,968,429	519,367	3,098,561	6,309,782	286,682	23,490,521
(8) Expected UAAl After Changes	99,953,745	15,115,977	3,762,379	26,191,189	22,965,685	469,892	168,458,868
(9) Actual UAAL at End of Year	105,561,461	17,373,922	4,706,704	29,314,357	24,608,449	307,134	181,872,027
(10) Gain/(Loss)	\$(5,607,716)	\$(2,257,945)	\$(944,325)	\$(3,123,168)	\$(1,642,764)	\$162,758	\$(13,413,159)

^{*} Unfunded Actuarial Accrued Liability

Actuarial Balance Sheet – December 31, 2016

Actuarial Assets

\$431,569,064	
(14,645,892)	_
	\$416,923,172
43,523,584	
181,872,027	
	225,395,611
	\$642,318,783
	(14,645,892)

Actuarial Present Values (Liability)

Total Actuarial Present Value of Expected Future Benefit Payments and Reserves	\$642,318,783
valuation date	43,523,584
Allocated to service rendered prior to valuation date Allocated to service rendered after	133,890,573
To active members	
To vested terminated members	10,940,992
To retirees and beneficiaries	\$453,963,634

Comments, Recommendation and Conclusion

Comment 1: The overall recognized experience of the Retirement System during the year ended December 31, 2016 was less favorable than expected experience based upon the long-term assumptions. The rate of investment return based on the funding value of assets was less than the assumed rate. This was offset in part by salary increases which were less than assumed.

Comment 2: This valuation includes the new assumptions adopted by the Retirement Commission following the 2010-2014 Experience Study. The mortality assumption was changed to the RP 2000 Mortality Table projected to 2014. The assumed annual rate of return was reduced to 7.85%. Future annual reductions will be 0.15% to the ultimate 7.0% assumption. Also adopted were the recommended changes in assumed withdrawal, disability, and retirement rates. The increase in the computed employer contributions and the decrease in the funded ratio are attributable to the change in assumptions and the overall experience of the Retirement System during the year.

Recommendation: Section 40(b) of the Retirement Ordinance was amended to provide annual transfers from the Reserve for Employer Contributions (REC) to the Reserve for Retired Benefit Payments (RRBP) based upon the annual actuarial valuation. Transfers from the Reserve for Employee Contributions are made at the time of retirement.

In all divisions the computed retiree liabilities were greater than the Reserve for Retired Benefit Payments as of December 31, 2016. We recommend that the following transfers be made to the RRBP so that it equals the retired life liabilities as of December 31, 2016.

	Reported Reserve for Retired	Computed	Recommended Transfer from Reserve for Employer
Division	Benefit Payments*	Liabilities	Contributions
General	\$257,597,317	\$276,249,179	\$ 18,651,862
Water & Waste	33,529,649	34,916,859	1,387,210
District Library	10,254,168	11,027,701	773,533
Mental Health	70,381,656	75,085,338	4,703,682
Road Commission	50,853,077	52,339,469	1,486,392
Mt. Morris	9,076,474	4,345,088	4,731,386

^{*}Including transfers for 2016 retirees made after December 31, 2016.

Conclusion: The Retirement System is being financed in accordance with a sound funding objective of funding benefits as they accrue.

Section Three:

Retirement System Benefit Provisions



General County

Benefits	AFSCME 496-00 8 Yrs on 3/23/2011	AFSCME 496-00 Less Than 8 Yrs on 3/23/2011	AFSCME 496-01 8 Yrs on 2/27/2012	AFSCME 496-01 Less Than 8 Yrs on 2/27/2012	AFSCME 496-03 (Drain) 8 Yrs on 7/12/2011	AFSCME 496-03 (Drain) Less Than 8 Yrs on 7/12/2011	PCOA 8 Yrs on 6/29/2011	PCOA Less Than 8 Yrs on 6/29/2011
Group Number(s)	01	01	02	02	03	03	04	04
Sec. 59 Lump Sum Option?	No	No	No	No	No	No	No	No
FAC Period (Years)	2	2	2	2	2	2	2	2
% of FAC Maximum Benefit	75%	75%	75%	75%	75%	75%	75%	75%
Pop-up – ER Paid	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88
COLA Code	1	1	1	1	1	1	1	1
COLA Payroll Code	1	1	1	1	1	1	1	1
Five-Year COLA Adj. Max. %	3%	3%	3%	3%	3%	3%	3%	3%
Benefit Eligibility Age/Service	00/23; 60/08	00/25; 60/08	00/23; 60/08	00/25; 60/08	00/23; 60/08	00/25; 60/08	00/23; 60/08	00/25; 60/08
Deferred Benefit Service/Years Eligibility	15/23	15/25	15/23	15/25	15/23	15/25	15/23	15/25
Benefit Formula; % to 25 Yrs./After 25 Yrs.	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all
Contribution Rate %	9.50%	9.50%	9.50%	9.50%	11.00%	11.00%	9.50%	9.50%
Other Gov. Service Purchase – DB Only	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Military Service Credit Purchase – DB Only	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years
Prior Refunded Time Buyback – DB Only	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date
Sick Leave/Worker Comp./Layoff Buyback – DB Only	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.
Grace Period for Leaves *	30 Days	30 Davs	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days
15-Year Gap Rule	No No	No No	No No	No No	No	No No	No	No
Cash in Time?	No	No	No	No	No	No	No	No

^{*} Disability Leave, Workers' Comp. Personal, Educational, FMLA.

General County - continued

Benefits	Jud Adm Secretaries 8 Yrs on 9/11/2013	Jud Adm Secretaries Less Than 8 Yrs on 9/11/2013	AFSCME 916 Super 8 Yrs On 3/5/14	AFSCME 916 Super Less Than 8 Yrs On 3/5/14	Teamsters 214 Parks 8Yrs on 8/9/2012	Teamsters 214 Parks Less Than 8 Yrs on 8/9/2012	Teamsters FOC 8 Yrs on 12/7/2011	Teamsters FOC Less Than 8 Yrs on 12/7/2011
Group Number(s)	05	05	06	06	07	07	08	08
Sec. 59 Lump Sum Option?	No	No	No	No	No	No	No	No
FAC Period (Years)	2	2	2	2	2	2	2	2
% of FAC Maximum Benefit	75%	75%	75%	75%	75%	75%	75%	75%
Pop-up – ER Paid	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88
COLA Code	1	1	1	1	1	1	1	1
COLA Payroll Code	1	1	1	1	1	1	1	1
Five-Year COLA Adj. Max. %	3%	3%	3%	3%	3%	3%	3%	3%
Benefit Eligibility Age/Service	00/23; 60/08	00/25; 60/08	00/23; 60/08	00/25; 60/08	00/23; 60/08	00/25; 60/08	00/23; 60/08	00/25; 60/08
Deferred Benefit Service/Years Eligibility	15/23(1)	15/25	15/23(1)	15/25	15/23 (1)	15/25	15/23 (1)	15/25
Benefit Formula; % to 25 Yrs./After 25 Yrs.	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all
Contribution Rate %	9.50%	9.50%	7.00%	7.00%	7.00%	7.00%	9.00%	9.00%
Other Gov. Service Purchase – DB Only	N/A	N/A	N/A	N/A	After 5 years	After 5 years	After 5 years	After 5 years
Military Service Credit Purchase – DB Only	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years
Prior Refunded Time Buyback – DB Only	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date
Sick Leave/Worker Comp./Layoff Buyback – DB Only	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.
Grace Period for Leaves *	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days
15-Year Gap Rule	No	No	No	No	No	No	No	No
Cash in Time?	No	No	No	No	No	No	No	No

^{*}Disability Leave, Workers' Comp. Personal, Educational, FMLA.

(1) Prior to 1/1/88 defer with 8 years of service.

General County – continued

Benefits	NON-UNION 7/11/15	POAM On or After 1/1/2000 with 15 years of service on 2/26/2013	POAM On or After 1/1/2000 with Less than 15 years of service on 2/26/2013	AFSCME Local 916 5 Sergeants Hired on or after After 1/1/88	AFSCME Local 916 5 Sergeants Hired on Or after After 1/1/99 With 15 yrs service on 5/24/13	AFSCME Local 916 5 Sergeants Hired on Or after After 1/1/99 With less than 15 Yrs Service on 5/24/13	AFSCME Local 916 6 Lieutenants, Captains Hired on or After 1/1/88	AFSCME Local 916 6 Lieutenants, Captains After 1/1/99 with 15 years of service on 5/24/2013	AFSCME Local 916 6 Lieutenants, Captains After 1/1/99 with less than 15 years of service on 5/24/2013
Group Number(s)	09,10	11	11	12	12	12	12	12	12
Sec. 59 Lump Sum Option?	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FAC Period (Years)	2	2	2	2	2	2	2	2	2
% of FAC Maximum Benefit	75%	75%	75%	75%	75%	75%	75%	75%	75%
Pop-up – ER Paid	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88	1/1/88
COLA Code	1	1	1	1	1	1	1	1	1
COLA Payroll Code	1	6	6	6	6	6	6	6	6
Five-Year COLA Adj. Max. %	3%	9 yr min. 1.75% comp.	9 yr min. 1.75% comp.	9 yr min. 1.75% comp.	9 yr min. 1.75% comp.	9 yr min. 1.75% comp.	9 yr min. 1.75% comp.	9 yr min. 1.75% comp.	9 yr min. 1.75% comp.
Benefit Eligibility Age/Service	00/23; 60/08	00/23; 60/15	00/25; 60/15	00/20; 60/08	00/23; 60/15	00/25; 60/15	00/20; 60/08	00/23; 60/15	00/25; 60/15
Deferred Benefit Service/Years Eligibility	15/23	15/23	15/25	15/20	15/23	15/25	15/20	15/23	15/25
Benefit Formula; % to 25 Yrs./After 25 Yrs.	2.4% all	2.5% all	2.5% all	2.5% all	2.5% all	2.5% all	2.5% all	2.5% all	2.5% all
Contribution Rate %	9.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%
Other Gov. Service Purchase – DB Only	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years
Military Service Credit Purchase – DB Only	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years	After 5 years
Prior Refunded Time Buyback – DB Only	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date
Sick Leave/Worker Comp./Layoff Buyback – DB Only	Within 1 Yr.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.	Within 1 Yr. of Ret.
Grace Period for Leaves *	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days
15-Year Gap Rule	No	No	No	No	No	No	No	No	No
Cash in Time?	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
		**	k	*		k	**		

COLA Code: 6. 1.75% compounded min. of 9 years or age 65 (the greater of).

^{*}Disability Leave, Workers' Comp. Personal, Educational, FMLA.

^{**} Hire Prior to 1/1/1988 – Retire 00/20; 60/8 and Defer 8/20.

Community Mental Health (Genesee Health System)

Benefits	Non-Union Before 2/9/89	Non-Union After 2/9/89	Program Chiefs	Teamsters Before 2/9/89	Teamsters After 2/9/89	AFSCME
Group Number(s)	30	30	32	33	33	34
Choice of Retirement Plans	DB	DB	DB	DB	DB	DB
Sec. 59 Lump Sum Option?	Yes	Yes	Yes	Yes	Yes	Yes
FAC Period (Years)	3	3	3	3	3	3
% of FAC Maximum Benefit	65%	60%	65%	65%	65%	65%
Pop-up – ER Paid	Effective 2/9/89	Effective 2/9/89	Effective 2/9/89	Effective 2/9/89	Effective 2/9/89	Effective 2/9/89
COLA Code	2	2	2	2	2	2
COLA Payroll Code	2	2	2	2	2	2
Five-year COLA Adj. Max. %	2%*	2%*	2%*	2%*	2%*	2%*
Benefit Eligibility Age/Service	00/23; 60/08	00/23; 60/08	00/23; 60/08	00/23; 60/08	00/23; 60/08	00/23; 60/08
Deferred Benefit Service/Years Eligibility	8/23	15/25	8/25	8/25	15/25	15/25
Benefit Formula; % to 25 Yrs./After 25 Yrs.	2.4/ 1.0	2.4/ 1.0	2.4/ 1.0	2.4/ 1.0	2.4/ 1.0	2.4/ 1.0
Contribution Rate %	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Other Governmental Service Purchase – DB Only	After 8 years	After 8 years	After 8 years	After 8 years	After 8 years	After 8 years
Military Service Credit Purchase – DB Only	After 8 years	After 8 years	After 8 years	After 8 years	After 8 years	After 8 years
Prior Refunded Time Buyback – DB Only	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date	1 Yr. from Hire Date
Sick Leave/Workers Comp./Layoff	1 Yr. from	1 Yr. from	1 Yr. from Return	1 Yr. from Return	1 Yr. from Return	1 Yr. from Return
Buyback – DB Only	Return Date	Return Date	Date	Date	Date	Date
Grace Period for Leaves	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days
15-year Gap Rule	Eliminated	Eliminated	Eliminated	Eliminated	Eliminated	Eliminated

COLA Code:

2. COLA begins on January 1 following retirement.

DB Plan Closed to AFSCME Members hired on or after 10/1/2007.

DB Plan Closed to Teamsters members hired on or after 11/20/2007.

DB Plan Closed to Non-Union new hires on or after 5/8/2012.

^{*} Increases are based on CPI up to stated maximum (Nov. to Nov. 1977 CPIW).

Road Commission

Benefits	Exempt	Supervisors Hired Before 7/9/02	Supervisors Hired After 7/9/02	SEIU 517M Before 7/9/02	SEIU 517M After 7/9/02	AFSCME 496 Hired Before 7/1/04	AFSCME 496 Hired After 7/1/04
Group Number(s)	53	50	50	51	51	52	52
Choice of Retirement Plans	DB	DB	DB	DB	DB	DB	DB
Sec. 59 Lump Sum Option?	No	Yes	Yes	Yes	Yes	Yes	Yes
FAC Period (Years)	3	3	3	3	3	3	3
% of FAC Maximum Benefit	75%	75%	75%	75%	75%	75%	75%
Pop-up – ER Paid	Effective 5/21/91	Effective 5/1/90	Effective 5/1/90	Effective 8/28/90	Effective 8/28/90	Effective 1/1/88	Effective 1/1/88
COLA Code	5	4	4	4	4	N/A	N/A
COLA Payroll Code	1	1	1	1	1	N/A	N/A
Five-year COLA Adj. Max.	3%	4%	4%	4%	4%	N/A	N/A
Benefit Eligibility Age/Service	00/25; 60/08	00/25; 60/08	00/25; 60/15	00/25; 60/08	00/25; 60/15	00/23; 58/08	00/23; 58/15
Deferred Benefit Service/Years Eligibility	8/25	8/25	15/25 (1)	8/25	15/25 (2)	8/23	15/25
Benefit Formula; % to 25 Yrs./After 25 Yrs.	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all	2.4% all
Contribution Rate %	6.00%	1.00%	1.00%	4.00%	4.00%	1.50%	1.50%
Other Governmental Service Purchase	After 8 Years	After 5 years	After 5 years	After 8 years	After 8 years	After 8 years	After 8 years
Military Service Credit Purchase	After 8 years	After 5 years	After 5 years	After 8 years	After 8 years	After 8 years	After 8 years
Prior Refunded Time Buyback	1 Year from Hire Date	1 Year from Hire Date	1 Year from Hire Date	1 Year from Hire Date	1 Year from Hire Date	1 Year from Hire Date	1 Year from Hire Date
Sick Leave/Worker's	1 Year from	1 Year from	1 Year from	1 Year from	1 Year from	1 Year from	1 Year from Return
Comp./Layoff Buyback	Return Date	Return Date	Return Date	Return Date	Return Date	Return Date	Date
Grace Period for Leaves	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days	30 Days
* Early Elig. – Retire <58 at 6/10 of 1% per month reduction	N/A	N/A	N/A	N/A	N/A	Yes	Yes
* Early Elig. – Retire 55-60 at 6/10 of 1% per month reduction	Yes	N/A	N/A	Yes - 8/55	Yes -15/55	N/A	N/A

COLA Codes:

- 4. COLA begins after three full years of retirement.5. COLA begins one full year after retirement

 ⁽¹⁾ If vested with a minimum of fifteen (15) when separated, then age 60, or twenty-five (25) years of service.
 (2) If vested with a minimum of fifteen (15) when separated, then age 60, or age 55 with applicable reduction or twenty-five (25) years of service.

Water & Waste

	AFSCME 1918 Hired	AFSCME 1918 Hired	AFSCME 1918 Hired	Non-Union Hired Prior	Non-Union Hired After	Non-Union
Benefits	Prior to 1/1/2006	After 1/1/2006	After 1/1/2011	to 1/1/2006	1/1/2006 to 12/31/2011	After 1/1/2012
Group Number(s)	80	80	80	81	81	81
Choice of Retirement Plans	DB	DB	DB	DB	DB	DB
Sec. 59 Lump Sum Option?	No	No	No	No	No	No
FAC Period (Years)	2	3 out of last 5	3 out of last 5	2	3 out of last 5	3 out of last 5
% of FAC Maximum Benefit	85% of Base Wage Rate					
Pop-up – ER Paid	Effective 9/24/90					
COLA Code	1	1	1	1	1	1
COLA Payroll Code	1	1	1	1	1	1
Five-year COLA Adj. Max. %	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%
Benefit Eligibility Age/Service	00/23; 60/10 (X)	55/23; 60/10 (X)	55/23; 60/10 (X)	00/23; 60/10 (X)	55/23; 60/10 (X)	55/23; 60/10 (X)
Deferred Benefit Service/Years Eligibility	10 and Age 60					
Benefit Formula; % to 25 Yrs./After 25 Yrs.	2.4 all years	2.4/1.0	2.0/1.0	2.4 all years	2.4/1.0	2.0/1.0
Contribution Rate % (Pre Tax Basis)	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%
Other Governmental Service Purchase (OGS)	After 3 years					
Maximum OGS Purchase Limitation	5 years	5 years	5 years	None	None	None
Military Service Credit Purchase	After 3 years					
Maximum Military Service Credit Purchases	5 years	5 years	5 years	None	None	None
Prior Refunded Time Buyback	1 Year from Hire Date					
Sick Leave/Worker's Comp./Layoff Buyback	1 Year from Return Date					
Grace Period for Layoff	30 Days					
Grace Period for Sick Leave & WC Leave	60 Days					

⁽X) Age and Service Retirement at 55 years of age with a minimum of 10 years of credited service with pension portion of retirement allowance reduced .50% by the number of months the date of retirement precedes the date they would attain age 60.

City of Mt. Morris

Benefits	Non-Union	Local 1918	POLC & POLC Supervisors
Group Number(s)	60	60	61
Choice of Retirement Plans	DB	DB	DB
Sec. 59 Lump Sum Option?	No	No	No
FAC Period (Years)	3	3	3
% of FAC Maximum Benefit	75%	75%	75%
Pop-up – ER Paid	Yes 12/31/02	Yes 12/31/02	Yes 12/31/02
COLA Code	5	5	5
COLA Payroll Code	5	5	5
Five-year COLA Adj. Max. %	3% for 5 years	3% for 5 years	3% for 5 years
Benefit Eligibility Age/Service	00/22; 60/08	00/22; 60/08	00/22; 60/08
Deferred Benefit Service/Years Eligibility	8/22	8/22	8/22
Benefit Formula %	2.5% all	2.5% all	2.5% all
Contribution Rate %	5.0%	5.0%	5.0%
Other Governmental Service	After 8 years	No	After 8 years
Military Service Credit Purchase	After 8 years	After 8 years	After 8 years
Prior Refunded Time Buyback	Within 1 Yr. of Hire	Within 1 Yr. of Hire	Within 1 Yr. of Hire
Sick Leave/Workers Comp./Layoff Buyback	Within 1 Yr. of Return	Within 1 Yr. of Return	Within 1 Yr. of Return
Grace Period for Leaves	Unknown	Unknown	Unknown

COLA Code:

5. Up to 3% CPIW (r decimals) using Nov-Nov 1982-84.

District Library

	Closed to New Hires on or after: 1/1/13			
Benefits	Union & Non-Union Before 7/1/95	Union & Non-Union After 7/1/95	Union & Non-Union After 1/1/98	Non-Union Directors On or After 6/1/04
Group Number(s)	90	90	90	91
Choice of Retirement Plans	DB	DB	DB	DB
Sec. 59 Lump Sum Option?	No	No	No	No
FAC Period (Years)	5/10#	5/10#	5/10#	2/10
% of FAC Maximum Benefit	60%	60%	60%	60%
Pop-up – ER Paid	None	None	None	None
COLA Code	3	3	3	3
COLA Payroll Code	2	2	2	2
Five-year COLA	Yes*	Yes*	Yes*	Yes*
Benefit Eligibility Age/Service	00/25; 60/08	00/25; 60/12	00/25; 60/12	00/25; 60/12
Deferred Benefit Service/Years Eligibility	8/25	8/25**	8/25**	8/25*
Benefit Formula; % to 25 Yrs/After 25 Yrs.	2.3/1.0%	2.3/1.0%	2.3/1.0%	2.3/1.0%
Contribution Rate %	1.50%	1.50%	2.00%	5.00%
Other Governmental Service Purchase	No	No	No	No
Military Service Credit Purchase	No	No	No	No
Prior Refunded Time Buyback	1 Yr. from Hire Date			
Sick Leave/Workers Comp./Layoff Buyback	1 Yr. from Return Date			
Grace Period for Leaves	(1)	(1)	(1)	(1)

COLA Codes:

- 2. Nov.-Nov. 1977 CPIW.
- 3. COLA begins on January 1 after one full year of retirement.
- * Increases are based on CPI up to stated maximum.
- ** If vested with at least 8 when separated; then age 60 with at least 12 years of service; or 25 years of service; whichever comes first.
- (1) Disability, layoff, Worker's Comp., Educational, Personal, FMLA = 30 days grace. Union Educational Leave = 20 days grace. Union Business Leave Repay EE and ER contributions for retirement service credit.

Benefit Provision Summary

Duty Disability Retirement

Eligibility: No age or service requirements. Must be in receipt of worker's compensation.

Groups Covered: All.

Annual Benefit:

Computed as a regular retirement with additional service credit granted from date of retirement to date regular retirement age would have been attained. Prior to age 65 maximum benefit is 90% of FAC (increased by 2.5% for each year of retirement) less worker's compensation payment and/or other remuneration.

Non-Duty Disability Retirement

Eligibility: Generally 10 or more years of credited service. Water and Waste Employees require 15 years of credited service.

Groups Covered: All.

Annual Benefit:

Computed as a regular retirement. Prior to age 65 maximum benefit is 90% of FAC (increased by 2.5% for each year of retirement) less long-term sick benefits and /or other remuneration.

Duty Death Before Retirement

Eligibility: No age or service requirements. Must be in receipt of worker's compensation

Groups Covered: All.

Annual Benefit:

Refund of accumulated contributions. Upon termination of worker's compensation the same amount is paid by the Retirement System to the surviving spouse for life or until remarriage, to unmarried children under 18 and to dependent parents.

Non-Duty Death Before Retirement

Eligibility: 15 or more years of credited service or age 60 with 10 or more years of credited service.

Groups Covered: All.

Annual Benefit:

Computed as a regular retirement but actuarially reduced in accordance with a 100% joint and survivor election.

Section Four:

Actuarial Assumptions And Methods



Actuarial Assumptions

Economic Assumptions

(i) Interest Rate 7.85% (net of expenses)

(ii) Salary Increases

Across-the-Board 3.0%

Merit and Longevity Age-related rates

Sample Annual Rates of Salary Increase

	Across-the-	Merit and	
Age	Board	Longevity	Total
20	3.00 %	4.03 %	7.03 %
25	3.00	3.28	6.28
30	3.00	2.81	5.81
35	3.00	2.49	5.49
40	3.00	2.24	5.24
45	3.00	1.76	4.76
50	3.00	1.19	4.19
55	3.00	0.70	3.70
60	3.00	0.17	3.17
65	3.00	0.00	3.00

Demographic Assumptions

(i) Mortality

RP 2000 Combined Healthy Mortality Table Projected to 2014

Sample	Future Life Expectancy (Years)				
Ages	Men Women				
55	27.5	29.6			
60	23.0	25.1			
65	18.8	20.8			
70	14.9	16.9			
75	11.3	13.3			
80	8.3	10.1			

(ii) Disability

Sample Ages	Percent Becoming Disabled Within Next Year						
	General, W&W, Lib., CMH, Roads, MM	Sheriffs					
20	0.06%	0.10%					
25	0.08	0.15					
30	0.09	0.20					
35	0.12	0.25					
40	0.15	0.50					
45	0.25	0.65					
50	0.45	0.80					
55	0.50	0.95					

(iii) Termination of Employment

Service related rates for first 5 years of employment. Age related rates for after first 5 years of employment

	% of Active Members Separating Within Next Year									
Sample Ages	Years of Service	General, Librar,y l Mental Health, Mt. Morris	W & W	Sheriffs	Road Commission					
All	0	30.00%	30.00.%	12.00%	20.00%					
	1	20.00	20.00	9.00	15.00					
	2	15.00	15.00	7.00	10.00					
	3	10.00	10.00	5.00	8.00					
	4	7.00	7.00	4.50	7.00					
25	5 & Over	6.00	6.00	5.00	4.00					
30		5.50	5.00	4.50	4.00					
35		4.40	4.00	3.55	2.00					
40		1.85	1.50	1.45	1.00					
45		1.25	1.00	0.75	0.50					
50		1.25	1.00	0.75	0.50					
55		1.25	1.00	0.75	0.50					
60		1.25	1.00	0.75	0.50					

(iv) Retirement Rates

Active Members Retiring within Year Following Attainment of Indicated Retirement Age

Percent Retiring – Age Related Rates

Age	C	CI. · · · · · · · · · · · · · · · · · · ·	Road
Retiring	General*	Sheriffs	Commission
58			10%
59			10
60	30%	40%	10
61	20	20	15
62	30	15	35
63	30	15	20
64	30	25	30
65	50	100	60
66	30	100	35
67	30	100	30
68	30	100	30
69	30	100	45
70	100	100	100

^{*}Includes Water & Waste, Mental Health, District Library and Mt. Morris.

Active Members Retiring within Year Following Attainment of Indicated Service

Percent Retiring – Service Related Rates

Years of Service	General, MM	CMH, Lib.	Sheriffs	Roads	W & W
20	141141	Lib.	50%	Roaus	**
21			50		
22			50		
23	35%	15%	50	10%	10%
24	30	10	40	10	8
25	25	10	40	35	8
26	25	10	35	35	8
27	10	10	20	25	8
28	10	10	15	10	8
29	10	10	15	10	8
30	10	10	15	10	10
31	10	10	15	10	10
32	10	10	15	10	10
33	15	15	15	10	15
34	15	15	25	10	15
35	15	15	100	10	15
36	15	15	100	10	15
37	15	15	100	10	15
38	100	100	100	10	100
39	100	100	100	10	100
40	100	100	100	100	100

Actuarial Method Used for the Valuation

Normal Cost. Normal cost and the allocation of actuarial present values between service rendered before and after the valuation date were determined using an individual entry-age actuarial cost method having the following characteristics:

- ❖ The annual normal costs for each individual active member, payable from date of hire to date of retirement, are sufficient to accumulate the value of the member's benefit at the time of retirement;
- ❖ Each annual normal cost is a constant percentage of the member's year-by-year projected covered pay.

Financing of Unfunded Actuarial Accrued Liability. Unfunded actuarial accrued liability was amortized as a level dollar amount over 25 years for General and Community Mental Health. Unfunded actuarial accrued liability was amortized as a level percent of payroll over 25 years for all other divisions.

Active member payroll was assumed to increase 3.00% a year for the purpose of determining the level percent of payroll amortization payments.

Section Five: Valuation Data



Asset Summary

As of December 31, 2016 the market value of assets was reported to be \$431,569,064. The funding value of assets (smoothed market value) was computed to be \$416,923,172.

Beginning of Year Values	12/31/15	12/31/16
(1) Cost Value	\$405,426,992	\$386,522,015
(2) Market Value	444,707,729	423,186,239
(3) Funding Value	426,294,429	428,816,188
(4) Net Realized Gains(Losses for Year)	(12,059,607)	12,877,501
(5) Net Addition to Cost Value for Year: (10) - (1)	(18,904,977)	(8,726,877)
(6) Net Contribution for Year: (5) - (4)	(6,845,370)	(21,604,378)
(7) Capital Value Change for Year: (11) – (2) – (6)	(14,676,120)	29,987,203
(8) Capital Value Changes Recognized: .25 x (7)		
(a) From Current Year	(3,669,030)	7,496,800
(b) From 1 Year Prior	(606,437)	(3,669,030)
(c) From 2 Years Prior	6,490,029	(606,437)
(d) From 3 Years Prior	7,152,567	6,490,029
(e) Total	9,367,129	9,711,362
(9) Increase(Decrease) in Funding Value: (6) + (8)	2,521,759	(11,893,016)
End of Year Values		
(10) Cost Value	\$386,522,015	\$377,795,138
(11) Market Value	423,186,239	431,569,064
(12) Funding Value: (3) + (9)	428,816,188	416,923,172
(13) Nominal Rate of Return on Funding Value	7.0%	3.43%

Reported Assets (Book Value) - December 31, 2016

Reserve for Employees' Contributions:

General & Sheriffs	\$ 8,019,675
Water & Waste	5,070,721
District Library	513,561
Mental Health	9,811,382
Road Commission	4,237,350
Mt. Morris	385,565
Totals	\$28,038,254

Reserve for Employer Contributions:

General & Sheriffs	\$(64,016,946)
Water & Waste	(1,766,411)
District Library	239,151
Mental Health	(5,727,644)
Road Commission	(6,479,439)
Mt. Morris	(4,325,131)
Totals	\$(82,076,420)

Reserve for Retired Benefit Payments:

General & Sheriffs	\$257,597,317
Water & Waste	33,529,649
District Library	10,254,168
Mental Health	70,381,656
Road Commission	50,853,077
Mt. Morris	9,076,474
Totals	\$431,692,341

Total Reported Assets (Book Value): \$377,654,175

Participant Summary

Retirees and Beneficiaries Included in the Valuation

There were 1,734 retirees and beneficiaries included in the valuation, with annual pensions totaling \$45,562,863.

During 2016, there were 56 new retirees and 46 deceased.

Pensions Being Paid Historical Schedule

Valuation				Number		
Date		Annual	Average	of	Discounted	Value of
December 31	No.	Pensions	Pension	Deaths	Pensi	ons
1994	979	\$13,057,839.60	\$13,338	*	*	*
1995	1,002	13,911,585.36	13,884	*	*	*
1996	1,051	15,421,755.84	14,673	*	*	*
1997	1,101	17,022,214.44	15,461	*	*	*
1998	1,133	18,033,234.84	15,920	*	*	*
1999	1,168	19,645,572.96	16,820	*	*	*
2000	1,253	22,019,114.64	17,573	*	\$228,887,000	\$180,277
2001	1,268	22,943,508.00	18,094	23	238,254,342	187,898
2002	1,294	24,112,158.00	18,634	34	249,245,058	192,616
2003	1,313	25,133,705.00	19,142	30	251,703,847	191,701
2004	1,343	26,520,677.00	19,747	46	267,193,421	198,953
2005	1,377	28,241,645.00	20,510	41	280,674,919	203,831
2006	1,395	29,492,951.00	21,142	41	298,432,104	213,930
2007	1,413	30,485,990.00	21,575	43	318,316,713	225,277
2008	1,438	31,661,917.00	22,018	39	324,903,521	225,941
2009	1,477	33,588,491.00	22,741	33	344,565,873	233,288
2010	1,551	36,667,863.00	23,641	40	386,466,961	249,173
2011	1,607	39,131,317.00	24,351	50	401,475,821	249,829
2012	1,638	40,600,799.00	24,787	30	411,287,448	251,091
2013	1,657	41,729,183.00	25,184	45	405,517,132	244,730
2014	1,687	43,151,414.00	25,579	28	427,142,549	253,197
2015	1,717	44,663,724.00	26,013	43	437,827,822	261,078
2016	1,734	45,562,863.00	26,276	46	453,963,634	261,801

^{*}Amounts not available.

Retirees and Survivors - December 31, 2016

Retirees and Survivors - December 31, 2016

	Age an	nd Service	Ca	sualty	Totals		
Attained		Annual		Annual		Annual	
Age	No.	Pensions	No.	Pensions	No.	Pensions	
20-24	-		-		-		
25-29	1	\$18,328	2	\$ 6,510	3	\$ 24,838	
30-34			2	18,146	2	18,146	
35-39			3	37,977	3	37,977	
40-44	6	181,672	6	134,648	12	316,320	
45-49	45	1,380,744	3	48,584	48	1,429,328	
50-54	116	3,683,818	6	71,327	122	3,755,145	
55-59	200	6,606,885	14	347,054	214	6,953,939	
60-64	320	9,686,251	14	223,079	334	9,909,330	
65-69	341	9,453,343	26	483,682	367	10,088,818	
70-74	220	5,739,351	15	260,879	235	6,000,230	
75-79	145	3,136,549	3	76,645	148	3,213,194	
80-84	107	2,032,007	11	92,031	118	2,124,038	
85-89	68	1,091,038	5	32,872	73	1,123,910	
90-94	33	394,116	5	25,427	38	419,543	
95-99	15	136,440	1	5,154	16	141,594	
Over 100			1	6,513	1	6,513	
Totals	1,617	\$43,540,542	117	\$1,870,528	1,734	\$45,562,86	

Average Age at Retirement: 52.1 years. Average Age Now: 67.1 years.

Pensions by Division

	Decemb	er 31, 2016	<u>December 31, 2015</u>			
	No	Annual No. Amount		Annual Amount		
1	110.	mount	No.	mount		
General	1,024	\$27,495,873	997	\$26,721,524		
Water & Waste	104	3,509,547	102	3,487,724		
District Library	54	1,244,717	53	1,216,922		
Mental Health	326	7,481,243	333	7,334,233		
Road Commission	210	5,422,921	215	5,479,318		
Mt. Morris	16	408,562	17	424,003		
Totals	1,734	\$45,562,863	1,717	\$44,663,724		

General & Sheriffs Active Members - December 31, 2016 Age and Service Distribution

Attained				Serv	ice			Total	
Age	0-4	5-9	10-14	15-19	20-24	25-29	Over 30	No.	Payroll
30-34			5					5	\$323,587
35-39			15	2				17	1,090,166
40-44			13	26				39	2,528,868
45-49		1	12	20	12			45	3,024,362
50-54			8	4	15	2		29	1,769,694
55-59			3	6	11			20	1,314,661
60-64			2	4	4	2		12	722,536
65-69		1	1		1			3	216,261
Totals		2	59	62	43	4	0	170	\$10,990,135

Group Averages:

Age: 48.3 years Service: 17.5 years Annual Pay: \$64,648

Number Vested - 110, Number Not Vested - 60

Waste & Water Active Members December 31, 2016 Age and Service Distribution

Attained				Service				Total	
Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	No.	Payroll
20-24	1							1	\$104,837
25-29	2							2	81,257
30-34	5	3		1				9	522,006
35-39	3	2	7	4				16	941,315
40-44	7	1	5	8	1			22	1,367,161
45-49	2	2	10	9	3	1	1	28	1,836,348
50-54	2	5	2	8	1	1	1	20	1,373,695
55-59	3		7	4	4	2		20	1,353,066
60-64		1	2	5	1			9	767,889
65-69		-	1	C	-			1	47,754
									,
Totals	24	14	34	39	10	4	2	128	\$8,395,328

Group Averages:

Age: 47.5 years Service: 13.1 years Annual Pay: \$65,589

Number Vested - 89, Number Not Vested - 39

District Library Active Members - December 31, 2016 Age and Service Distribution

Attained		Service					Total		
Age	0-4	5-9	10-14	15-19	20-24	25-29	Over 30	No.	Payroll
30-34	2							2	\$96,473
35-39	2	1	5					8	368,578
40-44			2	1				3	136,795
45-49		1	2	3	1			7	369,224
50-54	1	1	2	4		1		9	456,394
55-59	1	2	2	1				6	297,062
60-64		1	1				2	4	193,813
65-69		1		1			1	3	152,673
Totals	6	7	14	10	1	1	3	42	\$2,071,012

Group Averages:

Age: 49.9 years Service: 14.0 years Annual Pay: \$49,309

Number Vested -35 Number Not Vested -7

Mental Health Active Members - December 31, 2016 Age and Service Distribution

Attained				Service				Total	
							Over	_	
Age	0-4	5-9	10-14	15-19	20-24	25-29	30	No.	Payroll
30-34			2					2	\$129,072
35-39			7	2				9	593,602
40-44			12	6				18	1,070,802
45-49		5	6	13	10	2		36	2,404,467
50-54			7	3	10	4		24	1,394,205
55-59		3	5	12	10	4	4	38	2,501,343
60-64			3	4	8		1	16	1,143,542
65-69						1		1	69,645
70-74			1					1	75,608
75-79			1					1	37,299
Totals		8	44	40	38	11	5	146	\$9,419,585

Group Averages:

Age: 51.7 years Service: 18.2 Annual Pay: \$64,518

Number Vested 94 , Number Not Vested 52

Road Commission Active Members - December 31, 2016 Age and Service Distribution

Attained				Serv	ice			Total	
Age	0-4	5-9	10-14	15-19	20-24	25-29	Over 30	No.	Payroll
20-24	3							3	\$130,199
25-29	2							2	109,708
30-34	2	1	2					5	330,347
35-39	4	2	4	3				13	774,129
40-44	2	2	7	4	3			18	1,132,635
45-49	4	3	6	6	9	1		29	1,701,905
50-54	1	0	7	14	10	2		34	2,120,061
55-59	4	2	3	0	5	0		14	909,304
60-64	2	0	2	4	1			9	571,133
65-69			2					2	99,962
70-74			1	1				2	177,761
Totals	24	10	34	32	28	3		131	\$8,057,144

Group Averages:

Age: 48.6 years Service: 14.0 years Annual Pay: \$61,505

Number Vested - 82 Number Not Vested - 49

Mt. Morris Active Members - December 31, 2016 Age & Service Distribution

Attained		Se	ervice			Total	
Age	0-4	5-9	10-14	15-19	20-24	No.	Payroll
20-24	1					1	24,085
25-29		1				1	59,951
30-34						1	62,142
35-39	1	1	1	1		4	215,940
50-54	1				1	2	122,033
60-64				1		1	48,681
Totals	3	3	1	2	1	10	\$532,832

Group Averages:

Age: 40.3 years Service: 9.5 years Annual Pay: \$53,283

Number Vested - 4 Number Not Vested - 6

Active Members – Three-Year Summary

	2016	2015	2014
Active Members	627	671	713
Valuation Payroll	\$39,466,036	\$41,687,051	\$43,723,698
Average Compensation	\$62,944	\$62,167	\$61,324
Average Age (yrs.)	48.5	48.6	48.3
Average Service (yrs.)	15.7	15.1	14.7

Vested Inactive Members Included in the Valuation

There were 78 inactive vested members included in the valuation consisting of 26 General, 7 Water and Waste, 27 Mental Health, 8 Road Commission, and 10 Library Members.

Inactive Members – December 31, 2016

Valuation Division	No.	Estimated Annual Pensions
General	26	\$505,209
Water & Waste	7	97,235
District Library	10	102,291
Mental Health	27	422,658
Road Commission	8	156,256
Totals	78	\$1,283,649