October 3, 2014

The Board of Trustees City of Grosse Pointe Woods Employees Retirement System Grosse Pointe Woods, Michigan

Dear Board Members:

The purpose of the annual actuarial valuation of the City of Grosse Pointe Woods Employees Retirement System as of June 30, 2014 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 City's recommended contribution rate for the Fiscal Year beginning July 1, 2015.

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 City. 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 June 30, 2014. The actuarial assumptions used in this valuation represent reasonable expectations of future experience under the System. This report was prepared under the direction of a member of the American Academy of Actuaries who meets the qualification standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,

Janise Myones Sandia MRodwan

Denise M. JonesSandra W. RodwanSenior ConsultantMember, American Academy of Actuaries

City of Grosse Pointe Woods Employees Retirement System

Actuarial Valuation as of June 30, 2014

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Section One:

Valuation Summary



Purpose of Valuation

The purpose of the annual actuarial valuation of the City of Grosse Pointe Woods Employees Retirement System as of June 30, 2014 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 City's recommended contribution rate for the Fiscal Year beginning July 1, 2015.

This valuation is exclusive of post-retirement health benefits.

Liabilities and Funded Condition of Retirement System

Total accrued pension liabilities of the Retirement System as of June 30, 2014, were computed to be \$45,452,820. The funding value of accrued assets allocated to pensions was \$37,751,220. The ratio of the funding value of accrued assets allocated to pensions to accrued pensions liabilities was 83.1%.

Funding Value of Assets

A funding value of assets was used for the June 30, 2014 valuation. The funding value spreads the difference between the actual and assumed investment return over 5 years.

Computed City Contribution Rate

The City's normal cost contribution rate for pensions was computed to be 6.56% for General members and 8.98% for Public Safety members. Amortizing the unfunded accrued liability over 25 years resulted in an amortization payment of 10.26% of member payroll.

Retirement System Experience

Overall experience of the Retirement System was generally offsetting during the year ended June 30, 2014. The return on the market value of assets was significantly greater than the assumed rate. However, the funding value of assets spreads the difference between the actual return for the year and the assumed return over 5 years. The nominal rate of return on the funding value of assets was 7.05% versus the 8.0% assumed rate. This experience was largely offset by salary increases which were less than assumed.

Benefit Provision Changes

There were no benefit changes included in this valuation.

Assumption and Method Changes

There were no assumption or method changes.

Participant Data

	06/30/2014		06/3	30/2013
	Number	Payroll	Number	Payroll
Active Members				
General	44	\$2,196,932	50	\$2,626,341
Public Safety	<u>29</u>	<u>2,214,770</u>	<u>31</u>	2,376,909
Total Active Members	73	\$4,411,702	81	\$5,003,250
Retirees and Beneficiaries				
General	53	\$1,027,978	49	\$923,036
Public Safety	<u>49</u>	<u>1,879,963</u>	<u>47</u>	<u>1,769,588</u>
Total Retirees and Beneficiaries	102	\$2,907,941	96	\$2,692,624
Inactive Vested Members				
General	10	\$131,086	6	\$66,921
Public Safety			_	
Total Inactive Vested Members	10	\$131,086	6	\$66,921

Financial Data

	06/30/2014	06/30/2013
Funding Value of Assets	\$37,751,220	\$37,170,824
Market Value of Assets	41,280,482	36,715,266

Section Two:

Actuarial Calculations – Funding



Computed Contribution Rates for The Year Beginning July 1, 2015

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

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

The unfunded actuarial accrued liability was amortized as a level percent of payroll over 25 years. The 25 year period is the same as the period used last year to amortize the excess of accrued assets over accrued liabilities.

	Percents	of Payroll
FOR PENSIONS	General	Public Safety
Normal Cost		
Regular Retirement	8.34%	9.27%
Pre-retirement Death	0.53	0.72
Disability	1.12	3.51
Withdrawal	1.72	1.48
Total Normal Cost	11.71	14.98
Member Portion	5.15	6.00
City's Computed Normal Cost	6.56	8.98
Total Unfunded Accrued Liability	10.26	10.26
City's Contribution Rate for Pensions City's Dollar Contribution*	16.82% \$391,916	19.24% \$451,943

*Based on valuation payroll of \$2,196,932 and \$2,214,770 for General and Public Safety respectively, projected to mid-way through the contribution fiscal year.

Unfunded Actuarial Accrued Liability

	<u>6/30/2014</u>	<u>6/30/2013</u>
Actuarial Accrued Liability	\$45,452,820	\$44,949,686
Assets Allocated to Funding	<u>37,751,220</u>	37,170,824
Unfunded Actuarial Accrued Liability	\$7,701,600	\$7,778,862

Fiscal Year Beginning	Valuation Date	Computed Dollar	Actual Dollar	Computed Per	rcent of Payroll
July 1	June 30	Contributions	Contributions	General	Public Safety
1997	1996	\$565,742	\$506,785	5.24%	8.83%
1998	1997	590,720	586,900	2.72	5.80
1999	1998	389,980	401,475	0.00	3.30
2000	1999 (a)	234,977	312,475	0.00	0.00
2001	2000	44,773	306,070	0.00	0.00
2002	2001	266,451	306,000	0.00	0.00
2003	2002	534,143	534,143	0.00	0.00
2004	2003	1,019,328	1,106,564	1.40	5.74
2005	2004 (a)	1,349,607	1,220,333	8.12	12.64
2006	2005 (a)	841,374	1,306,228	12.54	15.50
2007	2006 (a)	1,016,356	1,016,356	15.21	18.59
2008	2007	1,037,161	1,115,843	14.65	17.98
2009	2008 (a)*	452,284	955,635	6.22	7.98
2010	2009	754,106#	751,202	10.56	12.26
2011	2010	786,228	712,463	12.64	14.28
2012	2011	743,380	767,521	12.55	14.25
2013	2012	891,295	888,696	15.29	16.99
2014	2013	906,319		16.12	18.14
2015	2014	843,859		16.82	19.24

Computed City Contributions – (Excluding Supplemental Annuities)

(a) After changes in benefit provisions and/or actuarial assumptions.

* Reflects amortization of the credit for accrued assets in excess of accrued liabilities for all valuations except 2005, 2006 and 2007 and 2009.

Prior to the fiscal year beginning July 1, 2006, contribution amounts included health insurance. # Based on valuation payroll.

Note: Results prior to 2008 are based on reports provided by previous actuarial firm.

City of Grosse Pointe Woods Employees Retirement System

Valuation Date	Valuation	Actuarial	Funded	Unfunded Actuarial
June 30	Assets	Accrued Liabilities	Ratio	Accrued Liabilities
1990	\$16,860	\$13,914	121.2%	\$(2,946)
1991	18,148	14,778	121.270	(3,370)
1992	19,364	15,501	122.0	(3,863)
1993	21,016	16,659	125.0	(4,357)
1994 (a)	21,010	17,923	120.2	(3,793)
	7			(- , ,
1995	22,757	20,442	111.3	(2,135)
1996	24,251	20,354	119.1	(3,897)
1997	26,876	20,533	130.9	(6,343)
1998	30,018	22,403	134.0	(7,615)
1999 (a)	33,785	26,108	129.4	(7,677)
2000	36,943	27,097	136.3	(9,846)
2001	38,298	29,108	131.6	(9,190)
2002	37,739	30,427	124.0	(7,312)
2003	35,745	32,137	111.2	(3,608)
2004 (a)	34,404	33,804	101.8	(600)
2005 (a)	33,329	36,141	92.2	2,812
2006 (a)	33,549	36,846	91.1	3,297
2007	35,801	38,744	92.4	2,943
2008 (a)	37,728	36,310	103.9	(1,418)
2009	37,149	40,417	91.9	3,268
2010()				
2010(a)	36,074	41,541	86.8	5,467
2011	37,667	42,738	88.1	5,071
2012	37,369	44,747	83.5	7,378
2013	37,171	44,950	82.7	7,779
2014	37,751	45,453	83.1	7,702

History of Assets and Accrued Liabilities

(a) After changes in actuarial assumptions.

Results shown throughout this report for years prior to 2008 were prepared by the previous actuarial firm.

Comments and Conclusion

Comments: Overall experience of the Retirement System was generally offsetting during the year ended June 30, 2014. The return on the market value of assets was significantly greater than the assumed rate. However, the funding value of assets used for the valuation spreads the difference between the actual return for the year and the assumed return over 5 years. The 5 year period was adopted by the Retirement Board effective beginning with the 2011/2012 FY contribution. This experience was largely offset by salary increases which were less than assumed.

Conclusion: The Retirement System is funding benefits in accordance with a sound level percent of payroll funding objective.

Section Three:

Retirement System Benefit Provisions



Benefit Provision Summary

Regular Retirement (No reduction factor for age)

Eligibility:

General, Dispatchers/Paramedics and Public Safety members: Age 50 with 25 years of service, age 55 with 20 years of service, or age 60 with 10 or more years of service.

Annual Benefit:

General members - Hired prior to April, 2011: Final Average Compensation (FAC) times the sum of 2.0% times the first 25 years of service plus 1.0% times years of service in excess of 25 years.

General members - Hired after April, 2011: Final Average Compensation (FAC) times 1.75% times years of service.

Dispatchers/Paramedics – Hired prior to July 1, 2011: 2.125% of Final Average Compensation (FAC) times service.

Dispatchers/Paramedics – Hired after July 1, 2011: 1.75% of Final Average Compensation (FAC) times service.

Public Safety Officers and Command – Hired prior to July 1, 2011: 2.5% of Final Average Compensation (FAC) times service to a maximum of 75% of FAC.

Public Safety Officers and Command – Hired after July 1, 2011: 2.0% of Final Average Compensation (FAC) times service to a maximum of 75% of FAC.

Type of Final Average Compensation: General members: Highest 4 years of compensation. Dispatchers/Paramedics: Highest 3 years of compensation. Public Safety: Highest 3 calendar years of compensation out of the last eight calendar years prior to retirement.

Deferred Retirement (Vested benefit)

Eligibility:

General members: 10 years of service.

Dispatchers/Paramedics and Public Safety members: 10 years of credited service or age 50 with 15 of more years of service.

Annual Benefit:

Computed as regular retirement but based on service and final average compensation at time of termination. Benefits begin at age 60.

Duty Disability Retirement

Eligibility:

No age or service requirements.

Annual Benefit:

Computed as regular retirement with additional service credit granted to the earlier of the date the member would attain age 55 years or the date the member would have satisfied regular retirement eligibility conditions had the member continued in City employment.

General and Dispatchers/Paramedic members have worker's compensation offsets.

Public Safety members, depending upon whether or not they are eligible for a service retirement at the time of injury, may elect to choose between worker's compensation benefits or a disability pension.

Non-Duty Disability

Eligibility: 10 or more years of credited service.

Annual Benefit: Computed as a regular retirement.

Duty Death in Service Survivor's Pension

Eligibility:

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

Annual Benefit:

Upon termination of worker's compensation a benefit equal to the worker's compensation amount shall be paid to the widow, unmarried children under 18 and dependent parents. Maximum benefit to the widow: 50% of final average compensation, to the children: 20% of final average compensation, and to the parents: 16-2/3% of final average compensation.

Non-Duty Death in Service Survivor's Pension

Eligibility: 10 years of service.

Annual Benefit:

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

Post-Retirement Cost-of-Living

Annual adjustments based upon changes in the Consumer Price Index subject to a maximum increase of 2.5% of the adjusted retirement allowance. The cost-of-living adjustment shall be paid on both the base pensions and, for retirements on or after 7/1/90, supplemental annuity distributions.

Member Contributions

General Members: 5.0% of annual compensation. Dispatchers/Paramedics Members: 6.0% of annual compensation. Public Safety Members - Hired prior to July 1, 2011: 6.0% of annual compensation. Public Safety - Hired after July 1, 2011: 5.0% of annual compensation.

Annuity Withdrawal

A member may withdraw accumulated member contributions in a lump sum at retirement. The retirement allowance is reduced by the actuarial equivalent of the annuity withdrawn, based on actuarial assumptions concerning interest and mortality used in the annual actuarial valuation.

Pop-Up Provision

Upon the death of the beneficiary, a retiree who had previously selected either Option II or Option III will have the retirement allowance recomputed as a straight life allowance. **Section Four:**

Actuarial Assumptions And Methods



Actuarial Assumptions

Economic Assumptions

(i) Interest Rate

(ii) Salary Increases Wage Inflation Merit and Longevity 8.0% (net of expenses)

4.0% Age-related rates

	Merit and Lo		Longevity
Sample Ages	Inflation	General	Public Safety
20	4.0%	3.8%	3.0%
25	4.0	3.1	3.0
30	4.0	2.7	2.6
35	4.0	2.4	1.1
40	4.0	2.1	0.2
45	4.0	1.7	0.2
50	4.0	1.1	0.2
55	4.0	0.7	0.1
60	4.0	0.2	0.0

Sample Annual Rates of Salary Increase

Demographic Assumptions

(i) Mortality

1994 Group Annuity Mortality Table

Sample	Value of \$1 Monthly for Life		Futur Expectan	e Life cy (Years)
Ages	Men	Women	Men	Women
50	\$134.63	\$140,32	30.7	34.9
55	127.16	134.40	26.2	30.2
60	117.78	126.60	21.8	25.6
65	106.80	117.13	17.8	21.3
70	94.73	106.11	14.3	17.3
75	81.36	92.79	11.1	13.6
80	67.17	77.98	8.4	10.3

(ii) Disability

	Percent Becoming Disabled Within Next Year		
Sample Ages	General	Public Safety	
20	0.08%	0.11%	
25	0.08	0.18	
30	0.08	0.37	
35	0.08	0.61	
40	0.20	0.85	
45	0.26	1.09	
50	0.49	1.33	
55	0.89	1.58	
60	1.41	1.83	

(iii) Termination of Employment

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

		% Separating Within One Year		
Sample Ages	Years of Service	General Members	Public Safety	
ALL	0	20.00%	15.00%	
	1	15.00	10.00	
	2	12.00	9.00	
	3	10.00	8.00	
	4	7.00	7.00	
25	5 & Over	6.00	4.50	
30		5.50	3.90	
35		4.40	2.30	
40		1.85	0.90	
45		1.25	0.50	
50		1.25	0.50	
55		1.25	0.50	
60		1.25	0.50	

(iv) Retirement Rates

Age-related rates

Age	% Retiring Within One Year		
Retiring	General	Public Safety	
50	15%	20%	
51	10	10	
52	10	10	
53	10	10	
54	10	10	
55	10	20	
56	10	10	
57	10	10	
58	10	10	
59	10	10	
60	15	25	
61	15	15	
62	30	30	
63	15	15	
64	15	15	
65	60	60	
66	30	30	
67	40	40	
68	50	50	
69	90	90	
70	100	100	

Active Members Retiring within Year Following Attainment of Indicated Retirement Age

Members were assumed to be eligible for retirement after attaining age 50 with 25 years of service or age 55 with 20 years of service, or age 60 with 10 or more years of service.

City of Grosse Pointe Woods Employees Retirement System

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 liabilities were amortized as a level percent of payroll over the same 25 year period used in the prior year's valuation.

Active member payroll was assumed to increase 4.0% a year.

Section Five:

Valuation Data



Asset Summary

As of June 30, 2013, the market value of assets was reported to be \$36,715,266. The funding value of assets as of June 30, 2013 was \$37,170,824.

Derivation of Funding Value of Assets

A. Funding Value 6/30/2013	\$37,170,824
B. Market Value 06/30/2014	41,280,482
C. Market Value 06/30/2013	36,715,266
D. Non-Investment Net Cash Flow	(1,972,363)
E. Investment Income E1. Market Total B-C-D	6,537,579
E2. Amount for Immediate Recognition (8%)	2,894,771
E3. Amount for Phased-In Recognition E1E2.	3,642,808
F. Phased-In Recognition of Investment Income	
F1. Current Year 0.20 x E3.	728,562
F2. First Prior Year	301,724
F3. Second Prior Year	(593,947)
F4. Third Prior Year	897,740
F5. Fourth Prior Year	57,176
F6. Total Phased-In Amount	1,391,255
G. Initial Adjustment*	(1,733,267)
H. Funding Value 06/30/2014 A+D+E2+F6+G	37,751,220
I. Difference Between Market and Funding Value	3,529,262
J. Rate of Return Based on Funding Value	7.05%
K. Rate of Return on Market Value	16.35%

*20% of the difference between BOY Market Value and Funding Value as of 6/30/10. Last installment 6/30/2014.

Participant Summary

Retirees and Beneficiaries Included in the Valuation

There were 102 retirees and survivor beneficiaries included in the valuation, with annual pensions totaling \$2,907,941. There were 5 new retirees and 2 new beneficiaries added from General and 2 new retirees and 2 new beneficiaries added for Public Safety. There were 3 retirees removed from General and 2 removed from Public Safety during the year ended June 30, 2014.

There were also 10 vested inactive members included in the valuation, with deferred pensions totaling \$131,086.

	Historical Schedule									
Valuation				Discounted Valu	e of Pensions					
Date		Annual	Average							
June 30	No.	Pensions	Pension	Total	Average					
1985	45	\$372,747	\$8,283	\$4,633,062	\$102,957					
1990	53	528,200	9,966	6,226,086	117,473					
1995	64	779,106	12,174	9,080,522	141,883					
1996	64	866,743	13,543	10,233,510	159,899					
1997	64	907,159	14,174	10,536,216	164,628					
1998	67	1,002,671	14,965	11,563,000	172,582					
1999	72	1,219,342	16,935	15,108,776	209,844					
2000	73	1,301,569	17,830	16,145,352	221,169					
2001	76	1,428,339	18,794	17,730,248	233,293					
2002	76	1,475,277	19,412	18,207,960	239,578					
2003	81	1,649,089	20,359	20,247,071	249,964					
2004	81	1,679,714	20,737	20,285,831	250,442					
2005	83	1,756,466	21,162	21,204,118	255,471					
2006	83	1,838,834	22,155	22,199,981	267,470					
2007	85	1,934,698	22,761	23,067,937	271,387					
2008	83	1,919,668	23,129	21,966,186	264,653					
2009	85	2,083,133	24,507	24,748,740	291,162					
2010	94	2,465,221	26,226	28,869,449	307,122					
2011	96	2,571,790	26,789	30,458,222	317,273					
2012	97	2,640,806	27,225	31,413,587	323,851					
2013	96	2,692,624	28,048	31,989,823	333,227					
2014	102	2,907,941	28,509	34,336,412	336,631					

Pensions Being Paid Historical Schodula

City of Grosse Pointe Woods Employees Retirement System

	Ge	eneral	Publ	ic Safety	Fire Specialist		Public SafetyFire SpecialistT		Totals
Attained Age	No.	Annual Pensions	No.	Annual Pensions	No.	Annual Pensions	No.	Annual Pensions	
35-39	-	\$-	2	\$77,293	-	\$-	2	\$77,293	
45-49			-	-	1	26,951	1	26,951	
50-54	3	67,003	4	173,560			7	240,563	
55-59	5	90,833	7	367,190	1	16,725	13	474,748	
60-64	8	200,386	7	256,836	2	57,079	17	514,301	
65-69	6	69,617	12	426,678			18	496,295	
70-74	7	144,683	8	265,594			15	410,277	
75-79	9	155,970	4	202,719			13	358,689	
80-84	3	51,341	3	64,387			6	115,728	
85-89	3	74,893	-	-			3	74,893	
90-94	4	54,661	1	22,706			5	77,367	
95-99	1	17,836	1	23,000			2	40,836	
Totals	49	\$927,223	49	\$1,879,963	4	\$100,755	102	2,907,941	

Retirees and Beneficiaries - June 30, 2014

Active Member Summary

Attained		Service							Totals
Age	0-4	5-9	10-14	15-19	20-24	25-29	Over 30	No.	Payroll
20-24	1							1	\$32,822
25-29	3	1						4	175,089
30-34	1	2						3	148,541
35-39	1		4					5	213,839
40-44	2	1	3	3	1			10	547,929
45-49	1	2	1	2				6	322,660
50-54			1	2	2			5	283,257
55-59	1		2			1	1	5	272,468
60-64	1		2	2				5	200,327
Total	11	6	13	9	3	1	1	44	\$2,196,932

General Active Members - June 30, 2014 Age and Service Distribution

Group Averages:

Age: 45.3 years Service: 11.5 years Annual Pay: \$49,930

Attained		Service							Totals
Age	0-4	5-9	10-14	15-19	20-24	25-29	Over 30	No.	Payroll
		_						_	
30-34		3	4					7	\$525,802
35-39	1	2	4					7	524,756
40-44			4	1				5	365,961
45-49					2			2	174,200
50-54		1	1	2	1	1		6	473,463
55-59						1		1	76,906
60-64							1	l 1	73,682
Total	1	6	13	3	3	2	1	1 29	\$2,214,770

Public Safety Active Members - June 30, 2014 Age and Service Distribution

Group Averages:

Age: 42.5 years Service: 14.4 years Annual Pay: \$76,371

	June	30, 2014	June 30, 2013		
	General	Public Safety	General	Public Safety	
Active Members	44	29	50	31	
Valuation Payroll	\$2,196,932	\$2,214,770	\$2,626,341	\$2,376,909	
Average Compensation	\$49,930	\$76,371	\$52,527	\$76,674	
Average Age (yrs.)	45.3	42.5	46.3	42.3	
Average Service (yrs.)	11.5	14.4	12.5	14.5	

Active Members – Comparative Summary

Section Six:

Supplemental Annuities



Computed Contributions for Supplemental Annuities Beginning July 1, 2015

	City Contributions Expressed As Dollars Per Active Member				
CONTRIBUTIONS FOR	General Public Sa				
Normal Cost	\$645	\$0			
Unfunded Actuarial Accrued Liability	5,132	<u>851</u>			
Total Per Member	\$5,777	\$851			

Actuarial accrued liability, \$3,037,948 was reduced by accrued assets, \$1,278,943, and the resulting unfunded actuarial accrued liability, \$1,759,005, was amortized as level dollar payments over a period of 10 years, the same period used for the June 30, 2013 valuation.

Contributions for Public Safety are shown per active member for historical reasons; there are no active Public Safety members currently eligible. The dollar amount of the Public Safety contribution is \$26,378.

Supplemental Annuities

Eligibility:

Age 50 with 25 years of service, age 55 with 20 years of service, or age 60 with 20 years of service. General members who qualify for a disability retirement are also eligible. Public Safety members with retirements effective after December 31, 1994 are not eligible.

Amount:

Years of Service	Per Month
10-14	\$250.00
15-19	300.00
20-24	350.00
25 & Over	400.00

Post-Retirement Adjustments

Eligibility:

Retirements effective on or after July 1, 1990.

Benefit:

The amounts in the above table are increased 2.5% compounded each year following retirement.

Post-Retirement Survivor Benefits:

50% of the benefit is payable to the spouse of a deceased member.

Asset Summary for Supplemental Annuities

The reported market value of assets was used for the valuation of Supplemental Annuities.

	Jun	e 30,
Reserves	2014	2013
Total	\$1,278,943	\$1,077,949

Supplemental Annuities Summary

		Annual		Discounted Value of
	<u>No.</u>	Annuities	Average	Annual Annuities
General	50	\$222,371	\$4,447	\$2,193,293
Public Safety	<u>10</u>	36,751	3,675	317,760
Total	60	\$259,122	\$4,319	\$2,511,053

Valuation	G	eneral	Pul	olic Safety	Compute	Computed Contribution		
Date		Annual Supp.	l Supp. Annual Supp. Per					tive Member
June 30	No.	Annuities	No.	Annuities	General	Public Safety		
1992	27	\$112,469	11	\$38,501	\$2,664	\$2,664		
1993	30	126,929	11	38,501	2,833	2,833		
1994	29	123,765	12	40,901	2,997	2,612		
1994#	29	123,765	12	40,901	2,997	399		
1995	29	122,738	12	43,301	2,830	731		
1996	27	117,995	13	48,341	2,652	803		
1997	27	118,755	13	48,463	2,443	778		
1998	29	126,684	13	47,145	2,190	726		
1999	31	134,630	13	45,303	2,527	800		
2000	32	139,275	12	44,008	2,537	843		
2001	33	143,957	12	44,280	2,810	801		
2002	34	150,600	12	44,558	3,008	810		
2003	36	158,745	12	44,843	3,282	892		
2004	35	157,881	12	45,136	3,620	875		
2005	35	156,979	12	43,035	3,488	850		
2006	35	158,696	12	40,943	3,460	791		
2007	35	161,173	12	41,257	3,563	737		
2008	37	167,435	12	45,189	3,508	998		
2009	38	169,675	12	43,527	3,865	946		
2010	43	189,117	11	38,228	4,329	887		
2011	46	202,614	10	35,965	4,836	807		
2012	47	209,510	10	36,352	5,575	883		
2013	47	213,202	10	36,590	5,787	945		
2014	50	222,371	10	36,751	5,777	851		

#Supplemental annuities discontinued for Public Safety retiring 1/1/95 and later. A post-retirement increase provision is applicable for retirements effective on or after July 1, 1990.

City of Grosse Pointe Woods Employees Retirement System