TSW
Actuary

VILLAGE OF CLARENDON HILLS

CLARENDON HILLS FIREFIGHTERS PENSION FUND

Actuarial Valuation Report

For the Year

Beginning May 1, 2014

And Ending April 30, 2015

Timothy W. Sharpe, Actuary, Geneva, IL (630) 262-0600

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INTRODUCTION

Fire-sworn personnel of the Village of Clarendon Hills are covered by the Firefighters Pension Plan that is a defined-benefit, single-employer pension plan. The purpose of this report is to provide to the Intended Users of this report, specifically the Intended Users are the Village Officials, the Pension Board and the Village and Pension Board auditors, the reporting requirements of the Illinois Pension Code, the GASB Statements No. 25 & 27 financial information and related actuarial information for the year stated in this report. This report is not intended for distribution or usage to or by anyone who is not an Intended User and should not be used for any other purpose.

The valuation results reported herein are based on the employee data, plan provisions and the financial data provided by the Village. The actuary has relied on this information and does not assume responsibility for the accuracy or completeness of this information. I hereby certify that to the best of my knowledge this report is complete and accurate and fairly presents the actuarial position of the Fund in accordance with generally accepted actuarial principles and procedures. In my opinion, the assumptions used are reasonably related to the experience of the Plan and to reasonable expectations. A reasonable request for supplementary information not included in this report should be directed to the undersigned actuary.

The actuary cautions the Intended Users of the possibility of uncertainty or risks in any of the results in this report.

I, Timothy W. Sharpe, am an Enrolled Actuary and a member of the American Academy of Actuaries, and I meet the Qualifications Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,

Timothy W Sharpe

Timothy W. Sharpe, EA, MAAA
Enrolled Actuary No. 14-4384

7/30/2014
Date

SUMMARY OF RESULTS

There was a change with respect to Actuarial Assumptions from the prior year to reflect revised expectations with respect to future interest rates, salary increases, and retirement ages. The interest rate assumption has been reduced to 5.00% from 7.25%, and the salary increase assumption has been reduced to 3.50% from 5.00%.

There were no changes with respect to Plan Provisions or Actuarial Methods from the prior year.

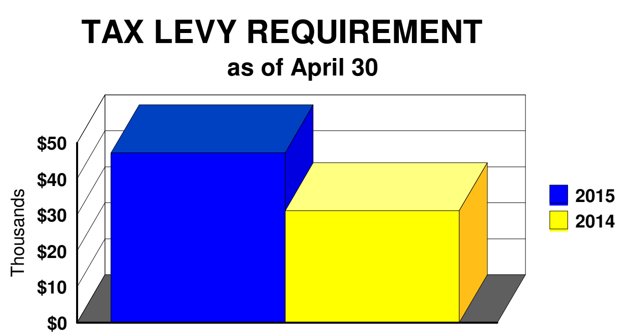
There were no unexpected changes with respect to the participants included in this actuarial valuation (0 new members, 0 terminations, 0 retirements, 0 incidents of disability, annual payroll increase 2.0%, average salary increase 2.0%).

There were no unexpected changes with respect to the Fund's investments from the prior year (annual investment return 0.74%).

The Village's Tax Levy Requirement has increased from $31,386 last year to $47,421 this year (51.1%). The increase in the Tax Levy is due to the increase in salaries, the investment return was less than assumed and the change to the interest rate assumption, and was offset due to the change to the salary increase assumption. The Percent Funded has decreased from 93.1% last year to 78.9% this year.

SUMMARY OF RESULTS (Continued)

		For Year Ending April 30 2015		2014
Tax Levy Requirement	$	47,421	$	31,386
		as of May 1 2014		2013
Village Normal Cost		14,216		10,037
Anticipated Employee Contributions		11,573		11,346
Accrued Liability		1,412,918		1,106,103
Actuarial Value of Assets		1,115,222		1,029,786
Unfunded Accrued Liability/(Surplus)		297,696		76,317
Amortization of Unfunded Accrued Liability/(Surplus)		17,779		4,633
Percent Funded		78.9%		93.1%
Annual Payroll	$	122,400	$	120,000

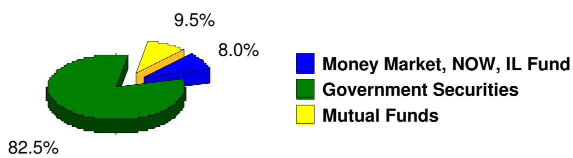


ACTUARIAL VALUATION OF ASSETS

		as of May 1		
		2014		2013
Money Market, NOW, IL Fund	$	82,380	$	57,827
Government Securities		846,133		833,246
Mutual Funds		96,983		96,376
Interest Receivable		5,760		5,087
Market Value of Assets		1,031,256		992,536
Actuarial Value of Assets	$	1,115,222	$	1,029,786

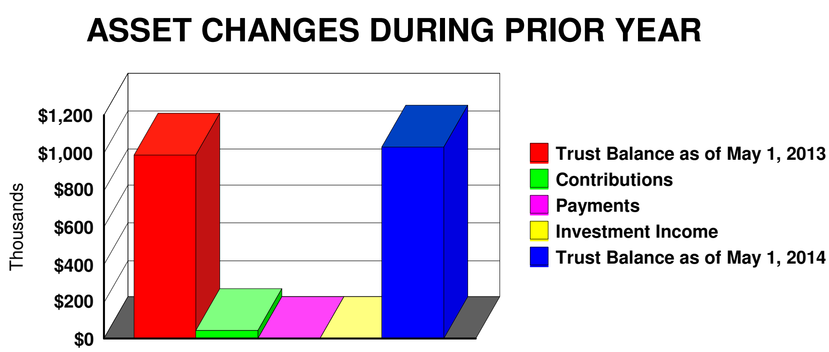
FYE 2012-2014 (Gain)/Loss: $26,898; $26,389; $71,718

SUMMARY OF ASSETS
As Of May 1, 2014



ASSET CHANGES DURING PRIOR YEAR

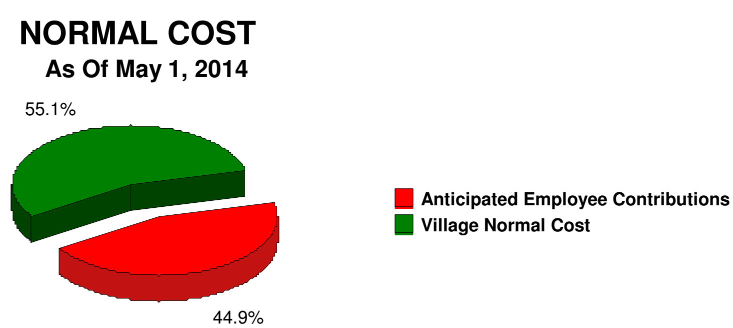
Trust Balance as of May 1, 2013		$	992,536
Contributions			
Village	31,438		
Employee	11,567		
Total			43,005
Payments			
Benefit Payments	0		
Expenses	5,873		
Total			5,873
Investment Income			1,587
Trust Balance as of May 1, 2014		$	1,031,256
Approximate Annual Rate of Return			0.16%



NORMAL COST

The Normal Cost is the actuarial present value of the portion of the projected benefits that are expected to accrue during the year based upon the actuarial valuation method and actuarial assumptions employed in the valuation.

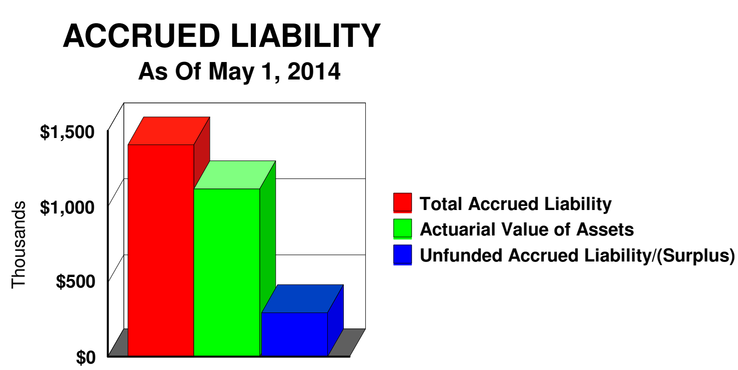
	as of May 1 2014	as of May 1 2013
Total Normal Cost	$ 25,789	$ 21,383
Anticipated Employee Contributions	11,573	11,346
Village Normal Cost	14,216	10,037
Normal Cost Payroll	$ 122,400	$ 120,000
Village Normal Cost Rate	11.61%	8.36%
Total Normal Cost Rate	21.07%	17.82%



ACCRUED LIABILITY

The Accrued Liability is the actuarial present value of the portion of the projected benefits that has been accrued as of the valuation date based upon the actuarial valuation method and actuarial assumptions employed in the valuation. The Unfunded Accrued Liability is the excess of the Accrued Liability over the Actuarial Value of Assets.

		as of May 1		
Accrued Liability		2014		2013
Active Employees	$	1,412,918	$	1,106,103
Children Annuities		0		0
Disability Annuities		0		0
Retirement Annuities		0		0
Surviving Spouse Annuities		0		0
Terminated Vested Annuities		0		0
Total Annuities		0		0
Total Accrued Liability		1,412,918		1,106,103
Actuarial Value of Assets		1,115,222		1,029,786
Unfunded Accrued Liability/(Surplus)	$	297,696	$	76,317
Percent Funded		78.9%		93.1%

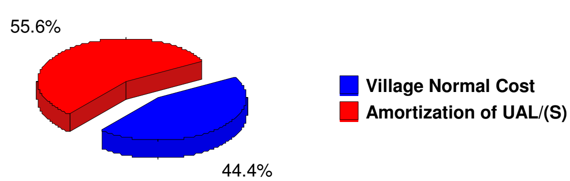


TAX LEVY REQUIREMENT

The Public Act 096-1495 Tax Levy Requirement is determined as the annual contribution necessary to fund the normal cost, plus the amount to amortize the excess (if any) of ninety percent (90%) of the accrued liability over the actuarial value of assets as a level percentage of payroll over a thirty (30) year period which commenced in 2011, plus an adjustment for interest. Prior to 2011, the amortization amount was equal to the amount to amortize the unfunded accrued liability as a level percentage of payroll over a forty (40) year period which commenced in 1993. Beginning in 2011, the amortization period remains a forty (40) year period which commenced in 1993.

	For Year Ending April 30			
		2015		2014
Village Normal Cost as of Beginning of Year	$	14,216	$	10,037
Amortization of Unfunded Accrued Liability/(Surplus)		17,779		4,633
Interest for One Year		1,600		1,064
Tax Levy Requirement as of End of Year	$	33,595	$	15,734
Public Act 096-1495 Tax Levy Requirement				
1) Normal Cost (PUC)		38,719		29,264
2) Accrued Liability (PUC)		1,400,473		1,086,121
3) Amortization Payment		6,444		0
4) Interest for One Year		2,258		2,122
5) PA 096-1495 Tax Levy Requirement (1 + 3 + 4)	$	47,421		31,386

TAX LEVY REQUIREMENT
For Fiscal Year Ending April 30, 2015



SUMMARY OF PLAN PARTICIPANTS

The actuarial valuation of the Plan is based upon the employee data furnished by the Village. The information provided for Active participants included:

Name
Sex
Date of Birth
Date of Hire
Compensation
Employee Contributions

The information provided for Inactive participants included:

Name
Sex
Date of Birth
Date of Pension Commencement
Monthly Pension Benefit
Form of Payment

Membership	2014	2014	2013	2013
Current Employees				
Vested	1		1	
Nonvested	0		0	
Total	1		1	
Inactive Participants		Annual Benefits		Annual Benefits
Children	0	$ 0	0	$ 0
Disabled Employees	0	0	0	0
Retired Employees	0	0	0	0
Surviving Spouses	0	0	0	0
Terminated Vesteds	0	0	0	0
Total	0	0	0	0
Annual Payroll		$ 122,400		$ 120,000

SUMMARY OF PLAN PARTICIPANTS (Continued)

Age and Service Distribution

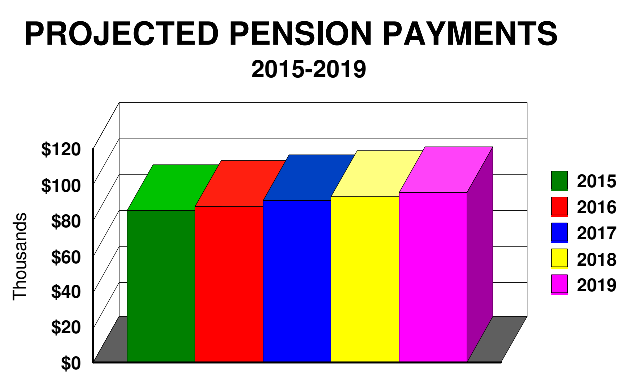
Service Age	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total	Salary
55-59						1		1	122,400
60+								0	
Total	0	0	0	0	0	1	0	1	122,400
Salary						122,400			

Average Age: 59.0 Average Service: 28.0

DURATION (years) Active Members: 12.1 Retired Members: NA All Members: 12.1

PROJECTED PENSION PAYMENTS

2015	2016	2017	2018	2019
$85,680	$88,250	$90,898	$93,625	$96,434



SUMMARY OF PLAN PROVISIONS

The Plan Provisions have not been changed from the prior year.

The Village of Clarendon Hills Firefighters Pension Fund was created and is administered as prescribed by "Article 4. Firefighters' Pension Fund - Municipalities 500,000 and Under" of the Illinois Pension Code (Illinois Compiled Statutes, 1992, Chapter 40). A brief summary of the plan provisions is provided below.

Employees attaining the age of (50) or more with (20) or more years of creditable service are entitled to receive an annual retirement benefit of one-half of the salary attached to the rank held on the last day of service. The pension shall be increased by (1/12) of (2.5%) of such monthly salary for each additional month of service over (20) years up to (30) years, to a maximum of (75%) of such monthly salary.

Employees with at least (10) years but less than (20) years of credited service may retire at or after age (60) and receive a reduced benefit ranging from (15%) of final salary for (10) years of service to (45.6%) for 19 years of service.

Surviving spouses receive (100%) of final salary for fatalities resulting from an act of duty, or otherwise the greater of (54%) of final salary or the monthly retirement pension that the deceased firefighter was receiving at the time of death. Surviving children receive (12%) of final salary. The maximum family survivor benefit is (75%) of final salary.

Employees disabled in the line of duty receive (65%) of final salary.

The monthly pension of a covered employee who retired with (20) or more years of service after January 1, 1977, shall be increased annually, following the first anniversary date of retirement and be paid upon reaching the age of at least (55) years, by (3%) of the amount of the pension payable at the time of the increase.

Employees are required to contribute (9.455%) of their base salary to the Firefighters' Pension Plan. If an employee leaves covered employment with less than twenty (20) years of service, accumulated employee contributions may be refunded without accumulated interest.

For Employees hired after January 1, 2011, the annual retirement benefit is (2.5%) of final average salary for each year of service up to (30) years, to a maximum of (75%) of such salary, the Normal Retirement age is attainment of age 55 and completion of 10 years of service; Early Retirement age is attainment of age 50, completion of 10 years of service and the Early Retirement Factor is 6% per year; the Employee’s Accrued Benefit is based on the Employee’s final 8-year average salary not to exceed $106,800 (as indexed); Cost-of-living adjustments are simple increases (not compounded) of the lesser of 3% or 50% of CPI beginning the later of the anniversary date and age 60; Surviving Spouse’s Benefits are 66 2/3% of the Employee’s benefit at the time of death.

ACTUARIAL METHODS

The Actuarial Methods employed for this valuation are as follows:

Projected Unit Credit Cost Method (for years beginning on or after 2011 for PA 096-1495)

Under the Projected Unit Credit Cost Method, the Normal Cost is the present value of the projected benefit (including projected salary increases) earned during the year.

The Accrued Liability is the present value of the projected benefit (including projected salary increases) earned as of the actuarial valuation date. The Unfunded Accrued Liability is the excess of the Accrued Liability over the plan's assets. Experience gains or losses adjust the Unfunded Accrued Liability.

Entry Age Normal Cost Method

Under the Entry Age Normal Cost Method the Normal Cost for each participant is computed as the level percentage of pay which, if paid from the earliest age the participant is eligible to enter the plan until retirement or termination, will accumulate with interest to sufficiently fund all benefits under the plan. The Normal Cost for the plan is determined as the greater of a) the sum of the Normal Costs for all active participants, and b) 17.5% of the total payroll of all active participants.

The Accrued Liability is the theoretical amount that would have accumulated had annual contributions equal to the Normal Cost been paid. The Unfunded Accrued Liability is the excess of the Accrued Liability over the plan's assets. Experience gains or losses adjust the Unfunded Accrued Liability.

ACTUARIAL ASSUMPTIONS

The Actuarial Assumptions used for determining the Tax Levy Requirement and GASB Statements No. 25 & 27 Disclosure Information are the same (except where noted) and have been changed from the prior year (discussion on page 4). The methods and assumptions disclosed in this report may reflect statutory requirements and may reflect the responsibility of the Principal and its advisors. Unless specifically noted otherwise, each economic and demographic assumption was selected in accordance with Actuarial Standards of Practice 27 and 35 and may reflect the views and advice of advisors to the Principal. In the event a method or assumption conflicts with the actuary's professional judgment, the method or assumption is identified in this report. The Actuarial Assumptions employed for this valuation are as follows:

Valuation Date	May 1, 2014
Asset Valuation Method	5-year Average Market Value (PA 096-1495)
Investment Return	5.00% net of investment expenses.
Salary Scale	3.50%
Mortality	RP 2000 Mortality Table (BCA, +1M, -4F, 2x>105), adjusted for future mortality improvement using 1-year setback after 15 years.
Withdrawal	Based on studies of the Fund and the Department of Insurance, Sample Rates below
Disability	Based on studies of the Fund and the Department of Insurance, Sample Rates below
Retirement	Uniform distribution from ages 50-62 (100% by age 62)
Marital Status	80% Married, Female spouses 3 years younger

ACTUARIAL ASSUMPTIONS *(Continued)*

	Sample Annual Rates Per 100 Participants			
Age	Mortality	Withdrawal	Disability	Retirement
20	0.04	4.02	0.17	
25	0.04	3.45	0.19	
30	0.08	2.56	0.20	
35	0.12	1.79	0.24	
40	0.14	1.14	0.30	
45	0.19	0.62	0.41	
50	0.27		0.62	20.00
55	0.50		1.09	41.67
60	0.94		1.84	83.33
62	1.23			100.00

GASB STATEMENTS NO. 25 & 27 DISCLOSURE INFORMATION

The Governmental Accounting Standards Board (GASB) issued Statements No. 25 & 27 that established generally accepted accounting principles for the annual financial statements for defined benefit pension plans. The required information is as follows:

Membership in the plan consisted of the following as of:

	April 30, 2014	April 30, 2013
Retirees and beneficiaries receiving benefits	0	0
Terminated plan members entitled to but not yet receiving benefits	0	0
Active vested plan members	1	1
Active nonvested plan members	0	0
Total	1	1
Number of participating employers	1	1

SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) -Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b-a)/c)
04/30/12	911,420	1,064,630	153,210	85.6%	120,000	127.7%
04/30/13	992,536	1,106,103	113,567	89.7%	120,000	94.6%
04/30/14	1,031,256	1,412,918	381,662	73.0%	122,400	311.8%

GASB STATEMENTS NO. 25 & 27 DISCLOSURE INFORMATION (Continued)

ANNUAL PENSION COST AND NET PENSION OBLIGATION

	April 30, 2014	April 30, 2013
Annual required contribution	19,011	21,333
Interest on net pension obligation	(1,813)	(948)
Adjustment to annual required contribution	1,551	780
Annual pension cost	18,749	21,165
Contributions made	31,438	33,099
Increase (decrease) in net pension obligation	(12,689)	(11,934)
Net pension obligation beginning of year	(25,011)	(13,077)
Net pension obligation end of year	(37,700)	(25,011)

THREE-YEAR TREND INFORMATION

Fiscal Year Ending	Annual Pension Cost (APC)	Percentage of APC Contributed	Net Pension Obligation
04/30/12	16,710	102.8%	(13,077)
04/30/13	21,165	156.4%	(25,011)
04/30/14	18,749	167.7%	(37,700)

FUNDING POLICY AND ANNUAL PENSION COST

Contribution rates:		
Village	25.685%	27.583%
Plan members	9.455%	Same
Annual pension cost	18,749	21,165
Contributions made	31,438	33,099
Actuarial valuation date	04/30/2014	04/30/2013
Actuarial cost method	Entry age	Same
Amortization period	Level percentage of pay, closed	Same
Remaining amortization period	19 years	20 years
Asset valuation method	Market	Same
Actuarial assumptions:		
Investment rate of return*	5.00%	7.25%
Projected salary increases*	3.50%	5.00%
*Includes inflation at	3.00%	Same
Cost-of-living adjustments	Tier 1: 3.00% per year, compounded Tier 2: 2.00% per year, simple	Same