VILLAGE OF GLENCOE POLICE PENSION FUND BOARD

Regular Meeting Village Hall Conference Room 675 Village Court

> July 20, 2011 7:00 a.m.

AGENDA

The Village of Glencoe is subject to the requirements of the Americans With Disabilities Act of 1990. Individuals with disabilities who plan to attend this meeting and who require certain accommodations in order to allow them to observe and/or participate in this meeting, or who have questions regarding the accessibility of the meeting or the facilities, are requested to contact the Village of Glencoe at least 72 hours in advance of the meeting at (847) 835-4114, or please contact the Illinois Relay Center at (800) 526-0844, to allow the Village of Glencoe to make reasonable accommodations for those persons.

1. CALL TO ORDER AND ROLL CALL

Michael Neimark, President Peter Neville, Trustee Joseph Walter, Trustee Christopher Pfaff, Trustee Chad Smith, Trustee

- 2. APPROVAL OF MAY 11, 2011 MINUTES
- 3. PUBLIC COMMENT TIME

Individuals interested in addressing the Board on non-agenda items may do so during this time.

- 4. <u>CERTIFY ELECTION OF RETIRED PENSION FUND MEMBER TO BOARD</u>
- 5. <u>APPOINT PRESIDENT, VICE PRESIDENT, SECRETARY AND ASSISTANT</u> <u>SECRETARY</u>
- 6. CONSIDER PROPOSAL TO MANAGE CORPORATE BOND PORTFOLIO
- 7. <u>REVIEW FINANCIAL ACTIVITY WITH WINTRUST WEALTH MANAGEMENT AND</u> <u>REBALANCE PORTFOLIO (IF NECESSARY)</u>
- 8. <u>REVIEW ACTUARIAL ASSUMPTIONS TAX LEVY REPORT</u>
- 9. <u>REVIEW FINANCIAL ACTIVITY AND DISBURSEMENT REPORT</u>
- 10. TRAINING: BASIC ACCOUNTING AND ACTUARIAL TRAINING
- 11.<u>OTHER BUSINESS</u> Next meeting: Wednesday, October 19 at 7:00 a.m.
- 12. ADJOURNMENT

VILLAGE OF GLENCOE POLICE PENSION FUND BOARD

REGULAR MEETING MINUTES May 11, 2011

1. CALL TO ORDER

A regular meeting of the Police Pension Fund Board was called to order by President Neimark at 7:00 a.m. on Wednesday, May 11, 2011 in the Village Hall Conference Room.

2. <u>ROLL CALL</u>

The following members were present:

Michael Neimark, President Christopher Pfaff, Trustee Joseph Walter, Trustee Chad Smith, Trustee

The following were absent: Peter Neville, Trustee

The following were also present:

David A. Clark, Treasurer Bill Gregg, Managing Director of Fixed Income, Wintrust Sam Carpenter, Senior Portfolio Manager, Wintrust Scott Schneider, Associate Portfolio Manager and Analyst, Wintrust

3. <u>PUBLIC COMMENT TIME</u>

There were no comments.

4. <u>REVIEW FINANCIAL ACTIVITY WITH WINTRUST WEALTH MANAGEMENT</u>

Bill Gregg announced that Senior Portfolio Manager Jim Richter retired effective May 10, 2011. Mr. Gregg confirmed that Mr. Richter retired with a clean slate with no regulatory issues. Mr. Gregg next introduced Sam Carpenter, the new Senior Portfolio Manager and Scott Schneider, the Assistant Portfolio Manager. Mr. Gregg next announced that Wintrust was in the process of acquiring Great Lakes Financial Advisors.

Mr. Gregg next presented information to the Board about activities necessary to begin investing in corporate bonds. He also asked that the Board again approve the investment policy adopted at the last meeting with an amendment allowing up to 60% of the fixed income portion of the portfolio to be invested in corporate bonds. Trustee Smith moved, Seconded by Trustee Pfaff to approve the policy as amended. Said motion was unanimously adopted.

The approved investment policy document will be forwarded to the Treasurer who will place the policy on the agenda for final ratification at the July 20, 2011 Meeting.

Mr. Gregg proposed a flat annual fee of \$10,000 for the additional duties related to corporate bonds. The Board said they would review the matter and place it on the agenda for the next meeting for consideration. The Board asked that the following items also be discussed at the next meeting:

- 1. Increasing international exposure in equity portion of portfolio;
- 2. How ETF's should be accounted for in the allocation guideline;
- 3. Present a fixed income allocation guideline per the updated investment policy; and
- 4. Developing a blended weighted benchmark for evaluating overall fund performance.

Mr. Gregg stated that the quarterly report would be going through some updates and that a copy would be sent electronically to the Treasurer prior to each meeting in order to give the Trustees an opportunity to review the financial report prior to the meeting.

As of April 30, 2011, the portfolio value was \$24.2 Million, up from \$22.3 Million on December 31, 2011. Cash represented 15%, equities 47.4% and fixed income 37.6%. Mr. Gregg presented the following recommendation:

<u>Resources Available</u> \$3,600,000 – Cash on Hand

Recommended Investment Instructions

\$3,600,000 – Corporate Bonds "BBB" or better with no more than 3% to any one entity.

Trustee Pfaff moved seconded by Trustee Smith to approve the recommended investment instructions. Said motion was unanimously adopted.

5. <u>OTHER BUSINESS</u>

The next meeting date is Wednesday, July 20, 2011.

6. <u>ADJOURNMENT</u>

There being no further business to come before the Police Pension Fund Board, upon motion made and seconded, the meeting was adjourned at 8:30 a.m. The motion was unanimously adopted.

2011 TAX LEVY

CONSIDERATION OF ISSUES RELATED TO POLICE PENSION FUND

July 5, 2011

Summary

The report is intended to provide the Village Board with information concerning the Police Pension Fund as part of consideration of the next tax levy. The Police Pension Fund Board will begin reviewing actuarial assumptions at their July 2011 meeting. The Village will receive a report from the State of Illinois on the recommended 2011 Tax Levy and the Village Actuary Tim Sharpe will prepare actuarial assumptions for the purposes of public reporting and the annual budget. There have been legislative changes since last year's levy that will need to be considered.

The 2011 tax levy report from the State of Illinois for police pension will be impacted by recent changes approved by the state legislature ("Pension Reform 2011"). Key elements of this reform include: (1) a change from an actuarial method of Entry Age Normal (EAN) to Projected Unit Credit (PUC), (2) extending the amortization period from 2033 to 2040, (3) reduction in the amortization target from 100% to 90%, and (4) establishment of a new tier of benefits for employees hired on or after January 1, 2011.

Application of the new actuarial method, amortization period, and amortization target will have an immediate impact on the percent funding of the Police Pension Fund from the 2010 tax levy to the 2011 tax levy. The new tier of benefits will not have an impact for quite some time.

The Village existing policy is to contribute to the Police Pension Fund based on assumptions that are more conservative that the State of Illinois. It is also the policy to report in the comprehensive annual financial report (CAFR) the level of funding based on State of Illinois assumptions but to budget based on the more conservative assumptions. The following are issues to consider:

- (1) Should the Village move from the existing 2033 amortization period to the 2040 period for the purposes of budgeted contribution level?
- (2) Using a 30 year amortization period with a 90% target is essentially equal to a 50 year amortization period. Generally accepted accounting principles (GAAP) recognize up to a 30 year amortization period. Using the new legal requirements (i.e. the 90% funding target plus a 30 year period) conflicts with GAAP. Should the Village use less than a 100% funding target?
- (3) What is the difference between Entry Age Normal and Projected Unit Credit? What will the impact be to the Police Pension Fund?
- (4) Implementing the 2040 amortization period and the 90% funding target is estimated to reduce the tax levy by approximately 20%. The Village could (1) match the legislative changes and reduce the contribution, (2) use a different target or amortization period (for example, use less than 30 years by keeping 2033 funding period), (3) revise actuarial assumptions (interest rates, salary increases, etc.) or (4) a combination of all three.
- (5) Should the Village continue to report pension funding status in the CAFR based on the State of Illinois assumptions?

Since Fiscal Year 2002 the contribution to the Police Pension Fund has grown from \$568,692 to \$1,734,339 during Fiscal Year 2011. Since Fiscal Year 2003, \$2.6 Million or 23.8% of the amount contributed has come from sources other than property taxes. Between Fiscal Year 2003 and Fiscal Year 2008 the average annual increase in pension contribution was 13.9% versus 6.4% average annual increase in operating expenditures. Between Fiscal Year 2009 and Fiscal Year 2011, the average annual increase in pension contribution was 12.4% versus minus 0.6% average annual increase in operating expenditures.

Village staff recommends that the Village Board review the State of Illinois 2011 Tax Levy Report (estimated to be available August 2011), review the recommendations of the Police Pension Fund Board, and direct Village Actuary Tim Sharpe to prepare an independent report for the purpose of public reporting and annual budget.

History of Contribution to the Police Pension Fund

The table below illustrates the relationship between actual contributions, taxes extended for pension and the amount recommended by both the Village Actuary and the State of Illinois (IDOI).

Police Pension Funding History

Contri	bution - Taxes	Та	x Levy			Actuary (1)			IDOI (5)
<u>FY</u>	Contributed	Year	Extension	<u>FY (2)</u>	<u>Report</u>	Interest (3)	Interest %	% Funded	Amount
2002	568,692	2000	553,209	2000	493,015	50,684	10.3%	79.3%	114,651
2003	591,167	2001	585,478	2001	547,009	56,235	10.3%	76.0%	626,351
2004	620,485	2002	620,213	2002	600,386	61,722	10.3%	74.0%	655,590
2005	775,590	2003	773,985	2003	767,392	78,891	10.3%	66.4%	783,296
2006	900,527	2004	799,893	2004 (4)	957,335	92,390	9.7%	59.5%	792,217
2007	1,033,821	2005	865,359	2005 (4)	1,027,821	99,193	9.7%	59.4%	855,034
2008	1,230,798	2006	923,914	2006	911,136	59,607	6.5%	61.7%	915,637
2009	1,279,790	2007	948,429	2007	910,453	59,562	6.5%	64.5%	937,494
2010	1,401,637	2008	973,008	2008	1,037,562	67,878	6.5%	60.9%	1,101,556
2011	1,734,339	2009	993,736	2009	1,342,900	87,853	6.5%	47.7%	1,408,012
2012	1,626,363	2010 (6)	1,041,467	2010	1,216,128	79,560	6.5%	58.0%	1,294,983

Notes

(1) Based on GRS Reports. Starting FY 2006 with Tim Sharpe.

(2) Fiscal year report results are based upon.

(3) Amount include to replace lost interest due to lag from FY Results to future FY contributions. IDOI amount does

not include this factor.

(4) Significant changes to assumptions, including:

a. Investment return from 7.5% to 7.0%

- b. Salary increase from 6.0% to 5.5%
- c. Mortality table changed to 1994 table
- d. Disability rates increased by 25%
- e. Average age of retirement reduced by one year

(5) Amount of tax levy suggested by the State of Illinois

(6) Levied, extension not yet available.



Police Pension Funding History



Annual Contribution from Taxes

Prior to Fiscal Year 2008, an annual average of 8% of the annual contribution to police pension came from a source other than property tax. Since Fiscal Year 2009 over 33% of the annual contribution comes from sources other than property tax.

Contributions					
from Other Sources					
FY	<u>%</u>				
2002-08	8.0%				
2009-12	33.8%				



Annual Contribution from Other Sources

Increase in cost of Village operations versus increase in pension contributions

The data below reflects the change in actual village expenditures in the General Fund and contributions to pension (Pension Cost) from year to year.



Annual increases in operating cost and in pension contributions

Through the recent economic downturn, the Village has been able to continue its contribution to police pension based on Village actuarial projections using more conservative assumptions than the State of Illinois. The Village annual budget included the amount required and the contributions came from financing sources available. Given the downturn in certain revenue, the source of contribution came from reduction of other operating expenditures.

Actuarial Assumptions

The tables immediately following shows assumptions used to calculate liabity for the purposes of the CAFR and for the purposes of determining the amount of the annual contribution. From Fiscal Year 2005 to 2006 the interest rate and salary increase rate was dropped by $\frac{1}{2}$ % for both CAFR and budget purposes. In Fiscal Year 2006 and 2007 the 1994 mortality table was used in both the CAFR and budget. From Fiscal Year 2011 to Fiscal Year 2012 the interest rate was again dropped from 7.0% to 6.5% for the budget only. See highlights below.

ACTUARIAL ASSUMPTIONS USED FOR PUBLIC REPORTING (CAFR)

	Report	Contribution Rates		Cost	Remaining	Mortality	Interest	Salary		
<u>FY</u>	FY	Employer	Employee	Method	Amortization	Table	Rate	Increases	Inflation	COLA
2005	2003	N/A	9.91%	Entry Age	30	1971	7.50%	6.00%	3.00%	3.00%
2006	2004	N/A	9.91%	Entry Age	29	<mark>1994</mark>	7.00%	5.50%	3.00%	3.00%
2007	2005	N/A	9.91%	Entry Age	28	<mark>1994</mark>	7.00%	5.50%	3.00%	3.00%
2008	2006	32.72%	9.91%	Entry Age	27	1971	7.00%	5.50%	3.00%	3.00%
2009	2007	36.59%	9.91%	Entry Age	26	1971	7.00%	5.50%	3.00%	3.00%
2010	2008	42.57%	9.91%	Entry Age	25	1971	7.00%	5.50%	3.00%	3.00%
2011	2009	42.49%	9.91%	Entry Age	24	1971	7.00%	5.50%	3.00%	3.00%
2012	2010	46.94%	9.91%	Entry Age	23	1971	7.00%	5.50%	3.00%	3.00%

ACTUARIAL ASSUMPTIONS TO DETERMINE LIABILITY AND AMOUNT OF CONTRIBUTION

	Report	Cost	Remaining	Mortality	Interest	Salary		
FY	<u>FY</u>	Method	Amortization	Table	Rate	Increases	Inflation	<u>COLA</u>
2005	2003	Entry Age	30	1971	7.50%	6.00%	3.00%	3.00%
2006	2004	Entry Age	29	<mark>1994</mark>	7.00%	5.50%	3.00%	3.00%
2007	2005	Entry Age	28	<mark>1994</mark>	7.00%	5.50%	3.00%	3.00%
2008	2006	Entry Age	27	<mark>1994</mark>	7.00%	5.50%	3.00%	3.00%
2009	2007	Entry Age	26	<mark>1994</mark>	7.00%	5.50%	3.00%	3.00%
2010	2008	Entry Age	25	<mark>1994</mark>	7.00%	5.50%	3.00%	3.00%
2011	2009	Entry Age	24	<mark>1994</mark>	7.00%	5.50%	3.00%	3.00%
2012	2010	Entry Age	23	<mark>1994</mark>	6.50%	5.50%	3.00%	3.00%

Change in Actuarial Method

The 2011 Pension Reform included a change in actuarial method from entry age normal (EAN) to projected unit credit (PUC). With a focus on uniform accrual versus termination liability, the EAN method is a better method of determining police pension cost than PUC. Determining an accurate termination liability makes more sense for a private pension that may be subject to termination due to termination of a business. Ultimately both methods arrive at the same cost. The allocation of cost using PUC is lower for younger employees and higher for older employees than EAN. At approximately 15 years of service, the cost of both methods of allocating cost is about the same.

The Village's population of active employees is on average 40.3 years of age and has 13.4 years of service, as compared to 2002 when the average age was 39.8 years and 12.9 years of service. It appears that using PUC may actually reduce allocated pension cost.



Age and Service Averages

History of Funding (Amortization period and target)

Since police and fire services were combined into a single public safety department in 1954, all sworn employees since that time were required to participate in the Police Pension Fund. The table below shows the history of funding since Fiscal Year 1998 versus linear progression from 1954 to the 2033 target, 2040-90% target, and 2040-100% target.



Glencoe Police Pension Funded Ratio

Based on Fiscal Year 2010 data (most recent available), the Village's police pension obligation is 58% funded. Using the 2033 target, the Village should be approximately 71% funded, Using the 2040-100% target, the Village should be 65% funded and using the 2040-90% target, the Village should be 59% funded. Between 1998 and 2001 the Village was over 75% funded in the Police Pension Fund. Around 2001 benefit changes were added to the Police Pension Fund which caused a dip in the funding percentage. The major change was a reduction from a requirement of 35 years of service to 30 years of service to achieve a maximum pension. Also, during 2006 and 2007 the Village used the 1994 mortality table for determining the funding amount reported in the CAFR. Beginning 2008 the Village resumed using the 1971 mortality table for the CAFR. Below is a table that shows the history of funding if the 1971 GAM had been used the entire time.



Annual Salary Increase Factor

Since 1998, the average salary increase has been 3.5% compared to the actuarial assumption of 5.5%. During Fiscal Year 2006 (based on 2004 data) the factor was decreased from 6.0% to 5.5%. A further decrease in this factor appears to be warranted.



% Change in Annual Salary for Police Pension

Historically the difference between the rate of return assumption and the salary increase factor was 1.5%. For example, during Fiscal Year 2005, the interest rate assumption was 7.5% and the salary increase assumption was 6.0%. Beginning Fiscal Year 2012, the difference was reduced to 1.0% with a 6.5% interest rate assumption and a 5.5% salary increase assumption. Given history since Fiscal Year 1998, a wage factor of 4.0% appears justifiable.

Rate of Return Factor

Since 1993 the total return on investment in the Police Pension Fund has averaged 6.12%. The current interest rate factor is 7.0% for the purposes of the CAFR and 6.5% for the purposes of budget.



Police Pension Rate of Return

Total Return & Asset Percentage

<u>FY</u>	<u>Return</u>	<u>Stan. Dev.</u>	% of Assets
1993-98	6.87%	0.9%	N/A
1999-04	5.55%	8.5%	36.11%
2005-11	5.97%	13.1%	43.04%

With total rate of return since Fiscal Year 2005 of approximately 6.0%, a reduction in the factor from 6.5% to 6.0% appears justifiable. Also as equities have increased as a percent of the total portfolio, so has the volatility in the rate of return. Between 1993 and 1998 the standard deviation on the rate of return was 0.9%, between 2005 and 2011 the standard deviation was 13.1%.

Increased volatility in the rate of return coupled with a closed amortization period that has to periodically be adjusted by legislature can lead to volatility in the percent funding of a pension fund. Assume at some future date, the Village is 100% funded and the amortization period deadline has arrived. Assume the next year there is a 20% loss in the fund assets due to adverse market return on investments. Under that example the Village drops from 100% funded to 80% funded in one year and the 20% has to be made up in one year.

Increasing investment options should be considered with an open or rolling 30 year period or with some other enhanced method of smoothing investment gains and losses.

				<u>5 Yr</u>	<u>10 Yr</u>
<u>FY</u>		<u>Return</u>	<u>3 Yr Avg</u>	Avg	Avg
	1993	7.70%			
	1994	5.90%			
	1995	6.50%	6.70%		
	1996	6.00%	6.13%		
	1997	7.20%	6.57%	6.66%	
	1998	7.90%	7.03%	6.70%	
	1999	6.90%	7.33%	6.90%	
	2000	6.50%	7.10%	6.90%	
	2001	2.60%	5.33%	6.22%	
	2002	4.00%	4.37%	5.58%	6.12%
	2003	-6.50%	0.03%	2.70%	4.70%
	2004	19.80%	5.77%	5.28%	6.09%
	2005	4.30%	5.87%	4.84%	5.87%
	2006	7.96%	10.69%	5.91%	6.07%
	2007	8.92%	7.06%	6.90%	6.24%
	2008	3.51%	6.80%	8.90%	5.80%
	2009	-19.15%	-2.24%	1.11%	3.19%
	2010	24.19%	2.85%	5.09%	4.96%
	2011	12.09%	5.71%	5.91%	5.91%
Avg		6.12%			
Mini	mum	-19.15%	-2.24%	1.11%	3.19%
Maxi	imum	24.19%	10.69%	8.90%	6.24%
Medi	ian	6.50%	6.13%	5.91%	5.89%

Source: Actuarial Valuation Reports

Asset History

Since 1999, total police pension fund assets have increased from \$11.5 Million to \$23.7 Million. Cash and fixed income investments have increased from \$9.5 Million to \$12.6 Million and equities have increased from \$2.0 Million to \$11.1 Million.

Police Pension	n Fund					
Asset Data						
				% Equities	Annuities	% Annuities
<u>FY</u>	Total Assets	Cash/Fixed	Equities	of Total	Paid	of Total Assets
1999	11,532,601	9,522,346	2,010,255	17.43%	443,180	3.84%
2000	12,737,466	9,307,536	3,429,930	26.93%	498,601	3.91%
2001	13,209,275	8,070,105	5,139,170	38.91%	454,626	3.44%
2002	13,392,361	7,820,896	5,571,465	41.60%	686,227	5.12%
2003	12,150,620	7,220,819	4,929,801	40.57%	875,613	7.21%
2004	14,542,390	7,091,200	7,451,190	51.24%	864,764	5.95%
2005	15,335,719	8,069,266	7,266,453	47.38%	871,361	5.68%
2006	16,712,861	8,557,903	8,154,958	48.79%	922,795	5.52%
2007	18,943,859	10,613,822	8,330,037	43.97%	967,743	5.11%
2008	20,094,469	12,042,345	8,052,124	40.07%	1,101,126	5.48%
2009	16,477,375	11,191,668	5,285,707	32.08%	1,278,018	7.76%
2010	20,796,613	12,002,643	8,793,970	42.29%	1,346,526	6.47%
2011	23,731,606	12,645,284	11,086,322	46.72%	1,487,958	6.27%
Average				39.84%		5.52%

Source: Village Audits

In 1999, equities represented 17.5% of the total portfolio. At the end of Fiscal Year 2011, equities represented 46.7% of the total portfolio.



Since 1999, annuities have increased from \$443,180 annually to nearly \$1.5 Million annually. Between 2001 and 2003 there was a substantial increase in annuities primarily due to two duty related disabilities Between 2007 and 2009 there was another increase in annuities again primarily due to an additional two disabilities. At present the officers remain on disability and will not be returning to work.



% Annuities of Total Assets

Liability History

Using State of Illinois liability data for the proposes of showing historic activity using a stable set of assumptions, total liabilities grew from \$19.2 Million, 68.7% funded to \$37.1 Million, 55.9% funded (using asset data from CAFR). The unfunded actuarial accrued liability (UAAL) grew from \$7.8 Million to \$16.4 Million.

Police Pensi	ion Fund					
Liability Da	ıta					
			% UAAL	Annuities	% Annuities	
<u>FY</u>	Total UAAL (1)	Total Liabilities	<u>of Total</u>	Paid	of Total Liab.	Funded % (2)
2001	7,892,847	19,219,151	41.07%	454,626	2.37%	68.73%
2002	8,276,965	21,439,088	38.61%	686,227	3.20%	62.47%
2003	10,896,962	23,226,146	46.92%	875,613	3.77%	52.31%
2004	10,190,243	24,820,360	41.06%	864,764	3.48%	58.59%
2005	10,860,659	26,441,838	41.07%	871,361	3.30%	58.00%
2006	11,248,518	28,366,268	39.65%	922,795	3.25%	58.92%
2007	11,230,746	30,080,402	37.34%	967,743	3.22%	62.98%
2008	14,028,035	33,421,676	41.97%	1,101,126	3.29%	60.12%
2009	19,579,747	35,457,884	55.22%	1,278,018	3.60%	46.47%
2010	16,499,706	37,157,707	44.40%	1,346,526	3.62%	55.97%
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Average			42.75%		3.31%	30.40%

Notes

(1) According to State of Illinois

(2) Using assets from CAFR reports and Liabilities from State of Illinois.

The increase in disabilities and the downturn in the economy have caused increases in the percent the UAAL represents of the total liability/



Since the fund is less than 100% funded, increases in annuities (due to retirements and disabilities) decrease from the amount of the annual contribution that is available to fund future accruing retirement benefits.

Conclusion

This report will also be provided to the Police Pension Fund Board for their consideration of the 2011 Tax Levy and related actuarial assumptions. Anticipated by the November 2011 Village Board Meeting, the Village Board will be presented with the 2011 State of Illinois Tax Levy Report, recommendations from the Police Pension Fund Board, and several alternatives prepared by the Village Actuary for consideration. Until that meeting, the Village staff will continue to report status to the Finance Committee each month.

Changes in Net Plan Assets

Glencoe Police Pension Fund

For Period Ending 06/30/2011

Account#	Description	ΡΥ ΥΤΟ	PY Bud	CY YTD	CY Bud
	ADDITIONS				
	Contributions				
26-159-376-31220	EMPLOYER CONTRIBUTIONS	518,047.01	1,734,339.00	532,865.17	1,626,363.00
26-159-376-31705	PERSONAL PROPERTY REPLACEMENT TAX	2,116.43	6,000.00	6,000.00	6,000.00
26-159-376-32935	MEMBER " CONTRIBUTIONS	100,036.63	310,000.00	102,858.45	311,000.00
	Total Contributions	620,200.07	2,050,339.00	641,723.62	1,943,363.00
	Investment income				
26-159-376-32805	INTEREST ON C	1,511.97	2,000.00	928.70	2,500.00
26-159-376-32810	MUTUAL FUND 👔 EARNINGS	34,792.94	200,000.00	19,440.16	225,000.00
26-159-376-32825	CD INTEREST	2,131.64	11,300.00	0.00	5,000.00
26-159-376-32830	FIXED INCOME / INTEREST	165,695.62	465,000.00	108,315.05	440,000.00
	Interest Earned	204,132.17	678,300.00	128,683.91	672,500.00
	Total Investment Income	204,132.17	678,300.00	128,683.91	672,500.00
26-159-376-53120	FINANCIAL SERVICES	14,917.14	40,000.00	16,964.25	49,000.00
	Net Investment Income	189,215.03	638,300.00	111,719.66	623,500.00
	Total Additions	809,415.10	2,688,639.00	753,443.28	2,566,863.00
	DEDUCTIONS				
	Pensions & Refunds				
26-159-376-42710	PENSIONS - RETIRED MEMBER	336,456.50	1,010,917.00	335,686.98	1,041,802.00
26-159-376-42720	PENSIONS - WIDOWED/DEPEND	54,762.24	164,551.00	54,762.24	164,300.00
26-159-376-42730	PENSIONS - CHILD	7,218.40	21,655.00	7,218.40	21,655.00

Account#	Description	ΡΥ ΥΤΟ	PY Bud	CY YTD	CY Bud
26-159-376-42740	PENSION - DISABILITY DUTY	81,173.40	242,663.00	81,617.04	242,663.00
26-159-376-42760	QILDRO PENSION	10,663.76	32,151.00	21,456.24	33,116.00
	Total Pensions & Refunds	490,274.30	1,471,937.00	500,740.90	1,503,536.00
	Miscellaneous				
26-159-376-53115	AUDITING SERVICES	1,741.00	5,200.00	0.00	5,200.00
26-159-376-52125	BANKING FEES	0.00	0.00	445.14	0.00
26-159-376-52290	MISC CONTRACTUAL SERVICES	1,250.00	1,500.00	0.00	1,500.00
	Total Prof. Services	2,991.00	6,700.00	445.14	6,700.00
	Total Deductions	493,265.30	1,478,637.00	501,186.04	1,510,236.00
	Change in Net Assets	316,149.80	1,210,002.00	252,257.24	1,056,627.00

Glencoe Police Pension Fund Disbursement Report April 1, 2011 through June 30, 2011

<u>Check</u>	Vendor	Address 1	<u>Zip</u>	<u>Amount</u>	<u>Date</u>
40034	ILLINOIS STATE TREASURER	DEPARTMENT OF INSURANCE	62791	4,159.32	05/05/2011
40035	WINTRUST CAPITAL MANAGEMENT, LLC	727 NORTH BANK LANE	60045-9608	12,804.93	06/03/2011
				16,964.25	

SELECTION CRITERIA: employee.home_orgn="376" and checkhis.iss_date between "04/01/2011" and "06/30/2011"

			RI	EGULAR	OV	ERTIME
EMPLOYEE NO	NAME	PAY CODE	HOURS	EARNINGS	HOURS	EARNINGS
95301	AYLWARD, NED	131	3.00	17,936.91	.00	.00
	TOTAL FOR EMPLOYEE: 95301		3.00	17,936.91	.00	.00
20026	BATT, PAULA	131	3.00	6,584.01	.00	.00
	TOTAL FOR EMPLOYEE: 20026		3.00	6,584.01	.00	.00
20017	BONNEVILLE, ROBERT B	1.31	3.00	16,682.49	.00	.00
	TOTAL FOR EMPLOYEE: 20017		3.00	16,682.49	.00	.00
20018	CLARK, JAMES	132	3.00	8,159.94	.00	.00
	TOTAL FOR EMPLOYEE: 20018		3.00	8,159.94	.00	.00
300182	FAY, ANNE T.	139	3.00	7,997.82	.00	.00
	TOTAL FOR EMPLOYEE: 300182		3.00	7,997.82	.00	.00
300183	FAY, JOHN	131	3.00	11,448.87	.00	.00
	TOTAL FOR EMPLOYEE: 300183		3.00	11,448.87	.00	.00
20005	FEIL, WILLARD B	131	3.00	4,822.35	.00	.00
	TOTAL FOR EMPLOYEE: 20005		3.00	4,822.35	.00	.00
94501	GALFORD, JOHN D	131	3.00	20,352.75	.00	.00
	TOTAL FOR EMPLOYEE: 94501		3.00	20,352.75	.00	.00
300208	GARY GIBE, SHAPIRO DEVELOPMENTAL CNTR FOR	137	3.00	2,706.90	.00	.00
	TOTAL FOR EMPLOYEE: 300208		3.00	2,706.90	.00	.00
20020	GIBE JR, JERRY	137	3.00	2,706.90	.00	.00
	TOTAL FOR EMPLOYEE: 20020		3.00	2,706.90	.00	.00
20002	HALLEN, SHIRLEY	131	3.00	4,050.33	.00	.00
	TOTAL FOR EMPLOYEE: 20002		3.00	4,050.33	.00	.00
95601	HARLOW, PAUL	131	3.00	21,517.08	.00	.00
	TOTAL FOR EMPLOYEE: 95601		3.00	21,517.08	.00	.00
20027	HENDRIX, CAROL I	131	3.00	14,200.32	.00	.00
	TOTAL FOR EMPLOYEE: 20027		3.00	14,200.32	.00	.00
20021	IVINS, JOHN	131	3.00	10,682.01	.00	.00
	TOTAL FOR EMPLOYEE: 20021		3.00	10,682.01	.00	.00
95101	JESSE, DANIEL	131	3.00	16,301.52	.00	.00
	TOTAL FOR EMPLOYEE: 95101		3.00	16,301.52	.00	.00
20022	LINOWIECKI, JOHN	131	3.00	10,817.79	.00	.00
	TOTAL FOR EMPLOYEE: 20022		3.00	10,817.79	.00	.00
97203	LOPRESTI, NICHOLAS	132	3.00	13,752.78	.00	.00
	TOTAL FOR EMPLOYEE: 97203		3.00	13,752.78	.00	.00
300179	MILKS, MIKEL	131	3.00	27,586.72	.00	.00
	TOTAL FOR EMPLOYEE: 300179		3.00	27,586.72	.00	.00
300101	MILLER, LYNN	131	3.00	13,237.02	.00	.00

SELECTION CRITERIA: employee.home_orgn="376" and checkhis.iss_date between "04/01/2011" and "06/30/2011"

			R	REGULAR		OVERTIME	
EMPLOYEE NO	NAME	PAY CODE	HOURS	EARNINGS	HOURS	EARNINGS	
	TOTAL FOR EMPLOYEE: 300101		3.00	13,237.02	.00	.00	
20028	MOHR, FLOYD	131	3.00	14,600.40	.00	.00	
	TOTAL FOR EMPLOYEE: 20028		3.00	14,600.40	.00	.00	
20016	NORRIS, DAVID M	131	3.00	7,242.48	.00	.00	
	TOTAL FOR EMPLOYEE: 20016		3.00	7,242.48	.00	.00	
20014	POSTELNICK, THOMAS J	131	3.00	13,351.29	.00	.00	
	TOTAL FOR EMPLOYEE: 20014		3.00	13,351.29	.00	.00	
300118	RODSTROM, JEFFREY	132	3.00	14,224.92	.00	.00	
		138	.00	547.11	.00	.00	
	TOTAL FOR EMPLOYEE: 300118		3.00	14,772.03	.00	.00	
300092	SACHTLEBEN, MATTHEW	132	3.00	13,412.58	.00	.00	
	TOTAL FOR EMPLOYEE: 300092		3.00	13,412.58	.00	.00	
20023	SEBBEN, PHYLLIS M	131	3.00	3,000.00	.00	.00	
	TOTAL FOR EMPLOYEE: 20023		3.00	3,000.00	.00	.00	
20001	SHARPE, DAVID D.	131	3.00	9,770.88	.00	.00	
	TOTAL FOR EMPLOYEE: 20001		3.00	9,770.88	.00	.00	
96701	SWEENEY JR, THOMAS J	132	3.00	11,115.45	.00	.00	
	TOTAL FOR EMPLOYEE: 96701		3.00	11,115.45	.00	.00	
300112	WADYCKI, THOMAS	131	3.00	21,892.74	.00	.00	
	TOTAL FOR EMPLOYEE: 300112		3.00	21,892.74	.00	.00	
300102	WALTER, JOSEPH	131	3.00	15,757.50	.00	.00	
	TOTAL FOR EMPLOYEE: 300102		3.00	15,757.50	.00	.00	
300221	WEPPLER, KATHRYN A.	139	3.00	8,094.36	.00	.00	
	TOTAL FOR EMPLOYEE: 300221		3.00	8,094.36	.00	.00	
95401	WEPPLER, TERRY	131	3.00	11,223.93	.00	.00	
	TOTAL FOR EMPLOYEE: 95401		3.00	11,223.93	.00	.00	
TOTAL REPORT	- -		93.00	375,778.15	.00	.00	

TOTAL REPORT

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Basic accounting and actuarial training

Sources:

Village of Glencoe Comprehensive Financial Report Lauterbach & Amen Government Finance Officers Association Watson Wyatt Tim Sharpe, Village Actuary

COMPREHENSIVE ANNUAL FINANCIAL REPORT



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FOR THE FISCAL YEAR ENDED FEBRUARY 28, 2011

FINANCIAL SECTION

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- Independent Auditors' Report
- Management's Discussion and Analysis
- Basic Financial Statements
- Required Supplementary Information
- Combining and Individual Fund Statements and Schedules

27W457 WARRENVILLE ROAD • WARRENVILLE, ILLINOIS 60555-3902

Lauterbach & Amen, LLP

PHONE (630) 393-1483 / FAX (630) 393-2516

CERTIFIED PUBLIC ACCOUNTANTS

INDEPENDENT AUDITORS' REPORT

May 24, 2011

The Honorable Village President Members of the Board of Trustees Village of Glencoe, Illinois

We have audited the accompanying financial statements of the governmental activities, the business-type activities, the discretely presented component unit, each major fund, and the aggregate remaining fund information for the Village of Glencoe, Illinois as of and for the year ended February 28, 2011, which collectively comprise the Village's basic financial statements as listed in the accompanying table of contents. These financial statements are the responsibility of the Village of Glencoe, Illinois' management. Our responsibility is to express opinions on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the basic financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the basic financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinions.

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, the discretely presented component unit, each major fund, and the aggregate remaining fund information of the Village of Glencoe, Illinois as of February 28, 2011, and the respective changes in financial position and, where applicable, cash flows thereof for the year then ended in conformity with accounting principles generally accepted in the United States of America.

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and budgetary comparison information be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards general accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Village of Glencoe, Illinois May 24, 2011 Page 2

Our audit was conducted for the purposes of forming opinions on the financial statements that collect comprise the Village of Glencoe, Illinois' financial statements as a whole. The introductory see combining and individual nonmajor fund financial statements, and statistical section are presente purposes of additional analysis and are not a required part of the financial statements. The combining individual nonmajor fund financial statements are the responsibility of management and were de from and relate directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audit of financial statements and certain additional procedures in accordance with auditing standards gene accepted in the United States of America. In our opinion, the information is fairly stated in all ma respects in relation to the financial statements as a whole. The introductory and statistical sections not been subjected to the auditing procedures applied in the basic financial statements are a whole. The introductory and statistical sections not been subjected to the auditing procedures applied in the basic financial statements are applied in the audit of the basic financial statements accordingly, we do not express an opinion or provide any assurance on them.

Fanterlach + Muen LLP

LAUTERBACH & AMEN, LLP

BASIC FINANCIAL STATEMENTS

The basic financial Statements include integrated sets of financial statements as required by the GASB. The sets of statements include:

- Government-Wide Financial Statements
- Fund Financial Statements
 - Governmental Funds
 - > Proprietary Funds
 - Fiduciary Funds

In addition, the notes to the financial statements are included to provide information that is essential to a user's understanding of the basic financial statements.

Pension Trust Funds

Combining Statement of Net Plan Assets February 28, 2011

	Police Pension	Firefighters' Pension	Totals
ASSETS			
Cash and cash equivalents	\$ 1,693,887	65,479	1,759,366
Investments			
U.S. government and agency obligations Mutual funds	10,805,504 11,086,322	-	10,805,504 11,086,322
Receivables - net of allowances			
Accrued interest Other	116,171 29,722		116,171 29,722
Total assets	23,731,606	65,479	23,797,085
LIABILITIES			
Accounts payable	31,170		31,170
NET PLAN ASSETS HELD IN TRUST FOR PENSION BENEFITS (A schedule of funding progress is presented			
following the notes to the financial schedules.)	23,700,436	65,479	23,765,915

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Pension Trust Funds

Combining Statement of Changes in Net Plan Assets Year Ended February 28, 2011

	Police Pension	Firefighters' Pension	Totals
ADDITIONS			
Contributions - employer			
Taxes	\$ 1,740,339	2 375	1 740 714
Contributions - plan members	300.868	2,575	200 869
Total contributions	2,041,207	2,375	2,043,582
Investment income			
Interest earned	613 178	1 5 4 7	(14 70 5
Net change in fair value	1 033 020	1,547	614,725
	2 547 008	1 5 4 7	1,933,920
Less investment expenses	(40,482)	1,347	2,548,645
Net investment income	2,497,616	1,491	<u> </u>
Total additions	4,538,823	3,866	4,542,689
DEDUCTIONS			
Pensions and refunds Miscellaneous	1,487,958	111,231	1,599,189
Contractual professional services	8,429	405	8 831
Total deductions	1,496,387	111,636	1,608,023
CHANGE IN NET ASSETS	3,042,436	(107,770)	2,934,666
NET PLAN ASSETS HELD IN TRUST FOR PENSION BENEFITS			
BEGINNING	20,658,000	173,249	20,831,249
ENDING	23,700,436	65,479	23,765,915

VILLAGE OF GLENCOE MANAGEMENT DISCUSSION & ANALYSIS (Continued)

Government-wide financials statements, including the statement of net assets and statement of activities, provide both short and long-term information about the Village's overall financial status.

Fund financial statements focus on individual parts of Village government and report Village operations in more detail than the government-wide financial statements. The fund financial statements describe the Village's governmental funds, proprietary funds, and fiduciary funds. The following (Table I) summarizes the major features of the Village's financial statements.

		Fund Statements				
Table I						
Description (Government-Wide Statements	Governmental Funds	Proprietary Funds	Fiduciary Funds		
Scope	EntireVillage government (except Fiduciary Funds) and the Village's component unit.	Activities of the Village that are not proprietary or fiduciary such as public safety	Activities of the Village operates similar to private business such as Water Fund or the Golf Club Fund	Activities in which the Village is trustee or agent of another's resources such as pension plans		
Required financial statements	1. Statement of net assets	1. Balance sheet	1. Statement of net assets	1. Statement of fiduciary net assets		
	2. Statement of activities	2. Statement of revenues, expenditures and changes in fund balance	2. Statement of revenues, expenses, and changes in net assets	2. Statement of changes in fiduciary net assets.		
			3. Statement of cash flows			
Accounting basis	Accrual	Modified Accrual	Accrual	Accrual		
Measurement Focus	Economic resource	Current financial resources	Economic resource	Economic resource		
Type of asset & liability information	All assets and liabilities; both financial and capital short and long-term	Assets expected to be used and liabilities that come due during the year or shortly thereafter; no capital assets	All assets and liabilities; both financial and capital short and long-term	All assets and liabilities, both short and long-term. Does not contain capital assets.		
Type of inflow & outflow information	All revenues and expenses during the year regardless of when cash is received or paid	Revenues for which cash is freceived during the year or shortly thereafter; expenditures for goods and services that have been received and payment is due during the year or shortly thereafter	All revenues and expenses during the year regardless of when cash is received o paid	All revenues and expenses during the year rregardless of when cash is received or paid		

VILLAGE OF GLENCOE MANAGEMENT DISCUSSION & ANALYSIS (Continued)

Government-Wide Financial Statements

The government-wide financial statements are designed to be corporate-like in that all governmental and businesstype activities are consolidated into columns that add to a total for the Primary Government. The focus of the Statement of Net Assets (the "Unrestricted Net Assets") is designed to be similar to bottom line results for the Village and its governmental and business-type activities. This statement combines and consolidates governmental funds' current financial resources (short-term available resources) with capital assets and long term obligations using the accrual basis of accounting and economic resources measurement focus (See pages 3-4 of the CAFR for more information).

The Statement of Activities is focused on both the gross and net cost of various activities (including governmental and business-type), which are supported by the government's general taxes and other resources. This is intended to summarize and simplify the user's analysis of the cost of various government services and/or subsidy to various business-type activities (See pages 5-6 of the CAFR for more information).

The Governmental Activities reflect the Village's basic services, including police, fire, public works (including garbage collection), and general/debt administration. Property taxes, shared state sales, local utility, and shared state income taxes finance the majority of these activities. The Business-type Activities reflect private sector type operations (Water and Glencoe Golf Club funds), where the fee for service typically covers all or most of the cost of operation, including depreciation.

Fund Financial Statements

Governmental funds are presented on a source of use of liquid resources basis. This is the manner in which the budget is typically developed. Governmental funds provide a current resources (short-term) view that helps determine whether there are more of fewer current financial resources available to spend for Village operations.

Proprietary funds account for services that are generally fully supported by user fees (i.e. charges to customers). Proprietary funds are presented on a total economic resources basis. Proprietary fund statements, like government-wide financials statements, provide both short and long-term financial information.

Fiduciary funds are presented for certain activities where the Village's role is that of trustee (i.e. police and fire pension funds) or agent. While fiduciary funds represent trust responsibilities of the government, these assets are restricted in purpose and do not represent discretionary assets of the government. Therefore, these assets are not presented as part of the government-wide financial statements.

While the total column on the business-type fund financial statements is the same as the business-type column at the government-wide financial statement, the governmental major funds total column requires a reconciliation because of the different measurement focus (current financial resources versus total economic resources) which is reflected on the page following each statement. The flow of current financial resources will reflect bond proceeds and interfund transfers as other financial sources as well as capital expenditures and bond principal payments as expenditures. The reconciliation will eliminate these transactions and incorporate the capital assets and long-term obligation (bond and others) into the governmental activities column (in the government-wide statements).

Notes to the Financial Statements February 28, 2011

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Continued

REPORTING ENTITY – Continued

Blended Component Units

Police Pension Employees Retirement System

The Village's sworn police employees participate in the Police Pension Employees Retirement System (PPERS). PPERS functions for the benefit of these employees and is governed by a five-member pension board. Two members appointed by the Village's President, one elected pension beneficiary and two elected police employees constitute the pension board. The participants are required to contribute a percentage of salary as established by state statute and the Village is obligated to fund all remaining PPERS costs based upon actuarial valuations. The State of Illinois is authorized to establish benefit levels and the Village is authorized to approve the actuarial assumptions used in the determination of contribution levels. Although it is legally separate from the Village, the PPERS is reported as if it were part of the primary government because its sole purpose is to provide retirement benefits for the Village's police employees. The PPERS is reported as a pension trust fund.

Firefighters' Pension Employees Retirement System

The Village's sworn firefighters participate in the Firefighters' Pension Employees Retirement System (FPERS). In 1954, the Village began training "public safety officers" to perform as both police officers and firefighters. Eventually all police officers and firefighters were replaced with public safety officers. All public safety officers participate in the Police Pension Fund. The last active firefighter retired in 1994. FPERS functions for the benefit of those employees and is governed by a five-member pension board, with two members appointed by the Village President, two elected from active participants of the Fund, and one elected from the retired members of the Fund. The participants are required to contribute a percentage of salary as established by state statute and the Village is obligated to fund all remaining FPERS costs based upon actuarial valuations. The State of Illinois is authorized to establish benefit levels and the Village is authorized to approve the actuarial assumptions used in the determination of contribution levels. Although it is legally separate from the Village, the FPERS is reported as if it were part of the primary government because its sole purpose is to provide retirement benefits for the Village's sworn firefighters. The FPERS is reported as a pension trust fund.

Discretely Presented Component Unit

Village of Glencoe Public Library

The Village of Glencoe Public Library has a separately elected seven-member board and provides services to residents within the geographic boundaries. The Library is included within the Village's financial statements as a discretely presented component unit because the Village approves the budget and the annual tax levy. In addition, bond issuance authorizations are approved by the Village and the legal liability for the general obligation portion of the Library's debt remains with the Village. Separate financial statements for the Library can be obtained from the Glencoe Public Library at 320 Park Avenue, Glencoe, Illinois 60022.

Notes to the Financial Statements February 28, 2011

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES - Continued

BASIS OF PRESENTATION – Continued

Fund Financial Statements - Continued

Fiduciary Funds

Fiduciary funds are used to report assets held in a trustee or agency capacity for others and therefore are not available to support Village programs. The reporting focus is on net assets and changes in net assets and is reported using accounting principles similar to proprietary funds. Since by definition these assets are being held for the benefit of a third party (other local governments, private parties, pension participants, etc.) and cannot be used to address activities or obligations of the Village, these funds are not incorporated into the government-wide statements.

Pension Trust Funds are used to account for assets held in a trustee capacity for pension benefit payments. The Police Pension Fund accounts for the accumulation of resources to pay retirement and other related benefits for sworn members of the Village's police force. The Firefighters' Pension Fund accounts for the accumulation of resources to pay retirement and other related benefits for sworn members of the Village's police force.

MEASUREMENT FOCUS AND BASIS OF ACCOUNTING

Measurement focus is a term used to describe "which" transactions are recorded within the various financial statements. Basis of accounting refers to "when" transactions are recorded regardless of the measurement focus applied.

Measurement Focus

On the government-wide Statement of Net Assets and the Statement of Activities, both governmental and business-like activities are presented using the economic resources measurement focus as defined below.

In the fund financial statements, the "current financial resources" measurement focus or the "economic resources" measurement focus is used as appropriate.

Notes to the Financial Statements February 28, 2011

NOTE 3 – DETAIL NOTES ON ALL FUNDS – Continued

DEPOSITS AND INVESTMENTS – Continued

Village – Interest Rate Risk, Credit Risk, Custodial Credit Risk and Concentration Risk – Continued

Custodial Credit Risk. In the case of deposits, this is the risk that in the event of a bank failure, the Village's deposits may not be returned to it. The Village's investment policy requires pledging of collateral with a fair value of 110% of all bank balances in excess of federal depository insurance. At year-end, the entire amount of the bank balance of deposits was covered by collateral, federal depository or equivalent insurance.

For an investment, this is the risk that in the event of the failure of the counterparty, the Village will not be able to recover the value of its investments or collateral securities that are in the possession of an outside party. The Village's investment policy does not mitigate custodial credit risk for investments. At year-end, the Village's investment in the Illinois Fund is noncategorizable. The IMET Convenience Fund is a depository vehicle that is 110 percent collateralized with obligations of the United States Treasury and its agencies. All collateral securities are held in the name of IMET at the Federal Reserve Bank of New York.

Concentration Risk. This is the risk of loss attributed to the magnitude of the Village's investment in a single issuer. The Village's investment policy requires that the investment portfolio be diversified to the extent practicable. Investments shall be diversified in order to reduce the risk of loss resulting in overconcentration in a specific maturity, issuer, institution, or class of securities. Diversification strategies shall be determined and revised periodically by the Finance Director. At year-end, the Village has over 5 percent of the total cash and investment portfolio (other than U.S. Government guaranteed obligations) invested in the Illinois Metropolitan Investment Fund.

Police Pension Fund – Interest Rate Risk, Credit Risk, Custodial Credit Risk and Concentration Risk

Deposits. At year-end, the carrying amount of the Fund's deposits totaled \$1,693,887 and the bank balances totaled \$1,705,946.

Investments. The Fund has the following investment fair values and maturities:

			Investment Maturities (in Years)			
		Fair	Less Than			More Than
Investment Type	۲ 	Value	1	1 to 5	6 to 10	10
Federal Home Loan Bank	\$ 4,	,831,015	1,821,320	791,386	2,218,309	-
Federal Home Loan Mortgage Corp.		935,803	-	821,333	-	114,470
Federal Farmers Credit Bank	2,	626,530	492,798	1,341,891	791,841	
Federal National Mortgage Assoc.	2,	412,156	512,442	739,441	837,179	323,094
Total	10,	805,504	2,826,560	3,694,051	3,847,329	437,564
Notes to the Financial Statements February 28, 2011

NOTE 3 - DETAIL NOTES ON ALL FUNDS - Continued

DEPOSITS AND INVESTMENTS – Continued

Police Pension Fund – Interest Rate Risk, Credit Risk, Custodial Credit Risk and Concentration Risk – Continued

Interest Rate Risk. In accordance with its investment policy, the Fund limits its exposure to interest rate risk by structuring the portfolio to provide liquidity for operating funds and maximizing yields for funds not needed for anticipated cash flow requirements. The investment policy limits the maximum maturity length of investments in the Fund to 20 years from the date of purchase.

Credit Risk. The Fund's investment policy helps limit its exposure to credit risk by primarily investing in obligations guaranteed by the United States Government or securities issued by agencies of the United States Government that are explicitly or implicitly guaranteed by the United States Government. The U.S. Agency Obligations are rated AAA by Standard & Poor's.

Custodial Credit Risk. The Fund's investment policy does not require pledging of collateral for all bank balances in excess of federal depository insurance, since flow-through FDIC insurance is available for the Fund's deposits with financial institutions. For investments, the Fund's investment policy limits its exposure to custodial credit risk by requiring that all security transactions that are exposed to custodial credit risk be processed on a delivery versus payment (DVP) basis with the underlying investments held by a third party acting as the Fund's agent separate from where the investment was purchased in the Fund's name. Furthermore, the Fund's investment in U.S. Treasury and Agency securities as well as local government obligations are categorized as insured, registered, or held by the Fund or its agent in the Fund's name.

Concentration Risk. At year-end the Fund also has \$11,086,322 invested in mutual funds. Per the investment policy, the Fund's investment portfolio shall not exceed the following diversification limits:

- Not more than 10% of the Fund monies shall be invested in any one financial institution (excluding Illinois Funds and U.S. treasury securities held in safekeeping by an authorized custodian).
- Funds deposited at a financial institution shall not exceed 5% of the capital stock and surplus of that institution.
- Investments are allowed in mutual funds that have at least \$250 million in assets and have been in operations for at least 5 years.
- Equities purchased must be of domestic based corporations in existence for at least 5 years, not in arrears of dividends for the pasty 5 years, and listed on a national exchange.
- Total investments in separate accounts, mutual funds, and direct equity investments shall not exceed 45% of the market value of the Fund's total assets (evaluated on an annual basis).

Notes to the Financial Statements February 28, 2011

NOTE 4 – OTHER INFORMATION – Continued

EMPLOYEE RETIREMENT SYSTEM – DEFINED BENEFIT PENSION PLANS

The Village contributes to three defined benefit pension plans, the Illinois Municipal Retirement Fund (IMRF), a defined benefit agent multiple-employer public employee retirement system; the Police Pension Plan which is a single-employer pension plan; and, the Firefighters' Pension Plan, which is also a single-employer pension plan. Separate reports are issued for the Police and Firefighters' Pension Plans and may be obtained by writing to the Village at 675 Village Court, Glencoe, Illinois 60022. IMRF issues a publicly available financial report that includes financial statements and required supplementary information for the plan as a whole, but not by individual employer. That report may be obtained online at <u>www.imrf.org</u>. The benefits, benefit levels, employee contributions, and employer contributions are governed by Illinois Compiled Statutes and can only be amended by the Illinois General Assembly.

Plan Descriptions, Provisions and Funding Policies

Illinois Municipal Retirement System

All employees (other than those covered by the Police and Firefighters' Pension plans) hired in positions that meet or exceed the prescribed annual hourly standard must be enrolled in IMRF as participating members. Participating members hired before January 1, 2011 who retire at or after age 60 with 8 years of service are entitled to an annual retirement benefit, payable monthly for life, in an amount equal to 1-2/3 percent of their final rate (average of the highest 48 consecutive months' earnings during the last 10 years) of earnings, for each year of credited service up to 15 years, and 2 percent for each year thereafter. For participating members hired on or after January 1, 2011 who retire at or after age 67 with 10 years of service are entitled to an annual retirement benefit, payable monthly for life in an amount equal to 1-2/3 percent of their final rate (average of the highest 96 consecutive months' earnings during the last 10 years) of earnings, for each year of credited service, with a maximum salary cap of \$106,800 at January 1, 2011. The maximum salary cap increases each year thereafter. The monthly pension of a member hired on or after January 1, 2011, shall be increased annually, following the later of the first anniversary date of retirement or the month following the attainment of age 62, by the lesser of 3% or ½ of the consumer price index. Employees with at least 10 years of credited service may retire at or after age 62 and receive a reduced benefit. IMRF also provides death and disability benefits. These benefit provisions and all other requirements are established by state statute. Employees participating in the plan are required to contribute 4.50 percent of their annual covered salary to IMRF. The employees' contribution rate is established by state statute. The Village is required to contribute the remaining amount necessary to fund the IMRF plan as specified by statute. The employer contribution and annual required contribution rate for calendar year 2010 was 12.62 percent.

Police Pension Plan

The Police Pension Plan is a single-employer defined benefit pension plan that covers all sworn police personnel. Although this is a single-employer pension plan, the defined benefits and employee and employer contribution levels are governed by Illinois State Statutes and may be amended only by the Illinois legislature. The Village accounts for the plan as a pension trust fund.

Notes to the Financial Statements February 28, 2011

NOTE 4 – OTHER INFORMATION – Continued

EMPLOYEE RETIREMENT SYSTEM - DEFINED BENEFIT PENSION PLANS - Continued

Plan Descriptions, Provisions and Funding Policies - Continued

Police Pension Plan - Continued

At fiscal year end the Police Pension Plan membership consisted of:

Retirees and Beneficiaries Currently Receiving Benefits and Terminated Employees Entitled	
to Benefits but not yet Receiving Them	27
Current Employees	
Vested	22
Nonvested	12
Total	61

The following is a summary of the Police Pension Plan as provided for in Illinois State Statutes.

The Police Pension Plan provides retirement benefits as well as death and disability benefits. Covered employees hired before January 1, 2011, attaining the age of 50 or more with 20 or more years of creditable service are entitled to receive an annual retirement benefit of 1/2 of the salary attached to the rank held on the last day of service, or for one year prior to the last day, whichever is greater. The pension shall be increased by 2.5% of such salary for each additional year of service over 20 years up to 30 years, to a maximum of 75% of such salary. Covered employees hired on or after January 1, 2011, attaining the age of 55 with at least 10 years creditable service are entitled to receive an annual retirement benefit of 2.5% of final average salary for each year of service, with a maximum salary cap of \$106,800 as of January 1, 2011. The maximum salary cap increases each year thereafter. The monthly benefit of a police officer hired before January 1, 2011, 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 original pension and 3% compounded annually thereafter. The monthly pension of a police officer hired on or after January 1, 2011, shall be increased annually, following the later of the first anniversary date of retirement or the month following the attainment of age 60, but the lesser of 3% or 1/2 of the consumer price index. Employees with at least 10 years but less than 20 years of creditable service may retire at or after age 60 and receive a reduced benefit.

Covered employees are required to contribute 9.91% of their base salary to the Police Pension Plan. If an employee leaves covered employment with less than 20 years of service, accumulated employee contributions may be refunded without accumulated interest. The Village is required to contribute the remaining amounts necessary to finance the plan, including administrative costs, as actuarially determined by an enrolled actuary. By the year 2040 the Village's contributions must accumulate to the point where the past service cost for the Police Pension Plan is 90% funded.

Notes to the Financial Statements February 28, 2011

NOTE 4 – OTHER INFORMATION – Continued

EMPLOYEE RETIREMENT SYSTEM - DEFINED BENEFIT PENSION PLANS - Continued

Annual Pension Cost and Net Pension Obligation

The Village's annual required contribution for the current year and related information for each plan is as follows:

1	Illinois		
	Municipal	Police	Firefighters'
	Retirement	Pension	Pension
Contribution Rates			*************************
Employer	12.62%	46.94%	0.00%
Employee	4.50%	9.91%	0.00%
Actuarial Valuation Date	12/31/2010	2/28/2010	2/28/2010
Actuarial Cost Method	Entry Age Normal	Entry Age Normal	Entry Age Normal
Amortization Method	Level % of	Level % of	Level % of
	Projected Payroll	Projected Payroll	Projected Pavroll
	Open Basis	Closed Basis	Closed Basis
Remaining Amortization Period	30 Years	30 Years	30 Years
Asset Valuation Method	5-Year Smoothed Market	Market	Market
Actuarial Assumptions			
Investment Rate of Return	7.50%	7.00%	6.50%
	Compounded	Compounded	Compounded
	Annually	Annually	Annually
Projected Salary Increases	.4 to 10.0%	5.50%	None
Inflation Rate Included	4.00%	3.00%	3.00%
Cost-of-Living Adjustments	3.00%	3.00%	3.00%

Notes to the Financial Statements February 28, 2011

NOTE 4 - OTHER INFORMATION - Continued

EMPLOYEE RETIREMENT SYSTEM - DEFINED BENEFIT PENSION PLANS - Continued

Annual Pension Cost and Net Pension Obligation - Continued

There was no net pension obligation for the IMRF plan. The pension liability for the Police and Firefighters' Pension Plans are as follows:

		Police Pension	Firefighters' Pension	Total
Annual Required Contributions	\$	1,342,900	45,988	1,388,888
Interest on Net Pension Obligation		(31,906)	6,497	(25,409)
Adjustment to Annual Required Contribution	-0	(4,669)	(24,581)	(29,250)
Annual Pension Cost		1,306,325	27,904	1,334,229
Actual Contribution		1,740,339	2,375	1,742,714
Increase to the NPO		(434,014)	25,529	(408,485)
NPO - Beginning of Year		(427,762)	116,196	(311,566)
NPO - End of Year		(861,776)	141,725	(720,051)

Notes to the Financial Statements February 28, 2011

NOTE 4 - OTHER INFORMATION - Continued

EMPLOYEE RETIREMENT SYSTEM - DEFINED BENEFIT PENSION PLANS - Continued

Trend Information

Employer annual pension cost (APC), actual contributions and the net pension obligation (NPO) are as follows. The NPO is the cumulative difference between the APC and the contributions actually made.

		Illinois		
		Municipal	Police	Firefighters'
	Year	Retirement	Pension	Pension
Annual Pension Cost	2009	\$ 501,712	\$ 916,648	\$ 31,200
(APC)	2010	516,717	1,035,838	37,584
	2011	760,052	1,306,325	27,904
Actual Contributions	2009	501,712	1,279,790	19,511
	2010	516,717	1,407,637	18,954
	2011	760,052	1,740,339	2,375
Percentage of APC	2009	100.00%	139.62%	62.54%
Contributed	2010	100.00%	135.89%	50.43%
	2011	100.00%	133.22%	8.51%
Net Pension Obligation	2009	None	(84,006)	81,321
-	2010	None	(455,805)	99,951
	2011	None	(861,776)	141,725

Notes to the Financial Statements February 28, 2011

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NOTE 4 – OTHER INFORMATION – Continued

EMPLOYEE RETIREMENT SYSTEM – DEFINED BENEFIT PENSION PLANS – Continued

Funded Status and Funding Progress

The Village's funded status for the current year and related information for each plan is as follows:

	Illinois		
	Municipal	Police	Firefighters'
	Retirement	Pension	Pension
Actuarial Valuation Date	12/31/10	02/28/10	02/28/10
Percent Funded	79.51%	57.97%	24.25%
Accuarial Accrued Liability			
for Benefits	\$20,742,901	\$35,633,310	\$714,531
Actuarial Value of Assets	\$16,491,939	\$20,658,001	\$173,249
Over (Under) Funded Actuarial Accrued Liability (UAAL)	(\$4,250,962)	(\$14,975,309)	(\$541,282)
Covered Payroll (Annual Payroll of Active Employees Covered by the Plan)	\$6,022,600	\$2,998,929	-
Ratio of UAAL to Covered			
Payroll	70.58%	499.36%	-

The schedule of funding progress, presented as Required Supplementary Information (RSI) following the notes to the financial statements, presents multiyear trend information about whether the actuarial value of plan assets are increasing or decreasing over time relative to the actuarial accrued liability for benefits.

REQUIRED SUPPLEMENTARY INFORMATION

Required supplementary information includes financial information and disclosures that are required by the GASB but are not considered a part of the basic financial statements. Such information includes:

- Schedule of Funding Progress
 - Illinois Municipal Retirement Fund
 - Police Pension Fund
 - ➢ Firefighters' Pension Fund
 - > Other Post-Employment Benefit Plan
- Employer Contributions
 - Illinois Municipal Retirement Fund
 - Police Pension Fund
 - Firefighters' Pension Fund
 - Other Post-Employment Benefit Plan
- Budgetary Comparison Schedule General Fund
- Budgetary Comparison Schedule Garbage Special Revenue Fund

Notes to the Required Supplementary Information

Budgetary Information – Budgets are adopted on a basis consistent with generally accepted accounting principles.

Police Pension Fund

Required Supplementary Information Schedule of Funding Progress and Employer Contributions February 28, 2011

Funding Progress

Actuarial Valuation Date Feb. 28	(1) Actuarial Value of Plan Assets	(2) Actuarial Accrued Liability (AAL) - Entry Age	(3) Funded Ratio (1) ÷ (2)	(4) Unfunded (Overfunded) Actuarial Accrued Liability (2) - (1)	(5) Annual Covered Payroll	(6) Unfunded (Overfunded) Actuarial Accrued Liability as a Percentage of Covered Payroll
2005 2006 2007 2008 2009 2010	\$ 15,345,133 17,113,735 18,943,232 19,973,593 16,356,899 20,658,001	\$ 27,385,563 27,738,312 29,386,240 32,817,197 34,321,892 35,633,310	56.03% 61.70% 64.46% 60.86% 47.66% 57.97%	\$ 12,040,430 10,624,577 10,443,008 12,843,604 17,964,993 14,975,309	\$ 2,589,181 2,752,155 2,825,193 2,890,955 3,011,670 2,998,929	(4) ÷ (5) 465.03% 386.05% 369.64% 444.27% 596.51% 499.36%

Employer Contributions

Fiscal Year	Employer Contributions	Annual Required Contribution	Percent Contributed
2006	\$ 900,527	\$ 792,217	113.67%
2007	1,033,821	855,034	120.91%
2008	1,230,798	911,136	135.08%
2009	1,279,790	910,453	140.57%
2010	1,407,637	1,037,562	135.67%
2011	1,740,339	1,342,900	129.60%

Chapter 7 FIDUCIARY FUNDS, JOINT VENTURES, AND OTHER MULTIPARTY ARRANGEMENTS

A government's core activities are reported as *governmental funds* and *proprietary funds* in the fund financial statements, and as *governmental activities* and *business-type activities* in the government-wide financial statements. A government also may participate in arrangements that are *not* reported as governmental or proprietary funds, and which are either *excluded* altogether from the government-wide financial statements or *reported* there only *indirectly*. Such arrangements—which include fiduciary funds, joint ventures, and other multiparty arrangements—are the subject of this chapter.

FIDUCIARY FUNDS

Generally accepted accounting principles (GAAP) prescribe the use of fiduciary funds "to report assets held in a trustee or agency capacity for others and therefore cannot be used to support the government's own programs."¹ Those for whom assets are held in a trustee or agency capacity commonly include individuals (such as pension plan participants and beneficiaries), private organizations (such as university foundations), and other governments (such as local government investment pools). Because the resources of fiduciary funds, by definition, cannot be used to support the government's own programs, such funds are specifically *excluded* from the government-wide financial statements.²

Fiduciary responsibilities versus fiduciary funds Not all fiduciary arrangements are properly reported as fiduciary funds. Rather, GAAP explicitly state that trust funds and agency funds are to be used solely to account for resources that are *held* by the government. For example, a local governmental employer participating in a statewide, multiple-employer pension plan would *not* report a pension trust fund to account for its share of assets accumulated by the statewide plan, even

 ¹ GASB Statement No. 34, Basic Financial Statements—and Management's Discussion and Analysis—for State and Local Governments, paragraph 69.
 ² GASB Statement No. 34, paragraph 12.

though that employer has fiduciary responsibilities to its employees in connection with its participation in the statewide pension plan. Instead, the state government, which actually holds the assets, would report a pension trust fund.

Two criteria may be used to determine whether a government is, in fact, holding assets in connection with its fiduciary responsibilities to individuals, private organizations, or other governments. A government is considered to be holding any assets: 1) for which it performs the investment function; or 2) with which the government has significant administrative involvement (for example, involvement that goes beyond the remittance of predetermined amounts³ to a third party).

Detailed specialized guidance on accounting and financial reporting for pension plans is provided elsewhere in this book.4 All the same, several aspects of pension (and other employee benefit) trust fund accounting will be addressed here as part of a general examination of fiduciary fund accounting.

Many state and local governments sponsor Internal Revenue Code (IRC) Section 457 deferred compensation plans for the benefit of their employees. In many cases, the governments that sponsor such plans remit the amounts withheld from employees directly to a third-party administrator (such as an investment firm or insurance company). In most situations involving third-party administrators, the sponsoring government's practical involvement in administering the plan is essentially limited to remitting the amounts collected from employees to the plan administrator. In that case, the use of a fiduciary fund to account for the assets of the deferred compensation plan would not be appropriate, because the government is not properly considered to be holding the assets.

There are instances, however, where state and local governments do, in fact, hold the assets of IRC Section 457 plans. For example, the state treasurer may directly invest the assets of the state's own IRC Section 457 plan on behalf of employees; or, a government may hire investment managers to perform the investment function while the government maintains significant oversight of the managers' activities. In that case, the sponsoring government is considered to be holding the plan's assets and would need to report its stewardship of those assets in a pension (and other employee benefit) trust fund.

Governments also may participate in other types of deferred compensation arrangements, such as 401(k) and 403(b) plans. While GAAP provide no specific guidance on the appropriate accounting and financial reporting for such plans, the approach described for IRC Section 457 plans appears equally suitable for other types of deferred compensation arrangements.⁵

GAAP require that employers participating in defined benefit pension plans report a liability on the face of their financial statements if they fail to fully fund their actuarially determined annual required contribution. The employer's act of reporting such a liability, however, is not sufficient basis

Specialized guidance for pension (and other employee benefit) trust funds

Deferred compensation plans

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Recognition of pension plan
contributions receivable
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³ For example, amounts calculated in conformity with a predetermined formula.

GASB Statement No. 32, Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans, paragraphs 15 and 18.

to justify the pension trust fund reporting a corresponding receivable on the statement of plan net assets and a related addition on the statement of changes in plan net assets.

Rather, GAAP specifically indicate that a pension (and other employee benefit) trust fund may report a contribution receivable only "pursuant to formal commitments as well as statutory or contractual requirements." For example, recognition of a receivable from a contributing employer would be appropriate if the employer's governing body had appropriated the contribution. Similarly, a receivable should be recognized in situations where a contributing employer has demonstrated a consistent pattern of making required payments for the previous year subsequent to the pension plan's reporting date.⁶

The estimated present value of the pension benefits owed to pension plan participants and beneficiaries based on services already rendered is known as the actuarial accrued liability. As its name implies, this amount is an actuarial obligation rather than an accounting liability, and so is not reported on the face of the statement of fiduciary net assets. GAAP mandate, however, that trend data on the actuarial accrued liability be presented as required supplementary information.⁷

When a single pension system administers multiple individual pension Reassignment of employee asset balances plans, member account asset balances sometimes may be reassigned among plans to reflect employment changes, such as employees being reassigned to another department or agency. Such reassignments should be reported as additions and deductions for each plan involved rather than as transfers among plans.

> GAAP direct that external government investment pools be reported in investment trust funds.8 Not all pooling arrangements, however, constitute an external investment pool for this purpose, so it is important to clearly identify situations that require the use of an investment trust fund.

> Four key criteria that must be met for an arrangement to qualify as an external investment pool:9

- Commingling of assets. An investment pool necessarily involves the commingling of assets from more than one source. If individual participants can be identified with specific investments, there is an absence of commingling, and the arrangement does not constitute a pool.
- External participation. To qualify as an external government investment pool, a pooling arrangement must include at least one legally separate participant from outside the financial reporting entity. When a single arrangement pools internal and external resources, creating a mixed pool, only the portion of pool assets attributable to participants outside the financial reporting entity is treated as an external investment pool.

Exclusion of the actuarial accrued liability

Specialized guidance for

investment trust funds

⁶ GASB Statement No. 25, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans, paragraph 22.

This requirement does not apply to pension plans that use the aggregate actuarial cost allocation method because that particular method does not identify or separately amortize unfunded actuarial liabilities.

GASB Statement No. 34, paragraph 71.

GASB Statement No. 31, Accounting and Financial Reporting for Certain Investments and for External Investment Pools.

- *Investment focus*. The *primary purpose* of an investment pool is *to generate income*. When investment pooling is strictly ancillary to some other purpose—such as investment pooling during the construction phase of a joint venture—the arrangement does not qualify as an *investment* pool.
- *Participants as beneficiaries.* Sometimes all income from commingled moneys accrues to the benefit of the investing government rather than to participants from outside the financial reporting entity. An example is a situation involving a county treasurer acting as custodial agent for the investments of special-purpose governments within the county's jurisdiction. Such arrangements do not qualify as *external investment* pools because, from the perspective of the outside participants, positions in such pools are not investments.

It is important to note that pools need not be permanent arrangements. For example, moneys may be pooled and invested temporarily during the year. In such cases, an investment trust fund must be used, *even if no pooled resources are outstanding at the end of the fiscal period*. In this case, the investment trust fund would report only a statement of changes in fiduciary net assets to account for activity related to the investments of outside parties during the period.¹⁰

Property taxes often are collected by one government on behalf of other governments. Typically, there is a delay between when the taxes are collected and when they are remitted to the appropriate governments. These amounts may be invested in a pool during this period. The collecting government should *not* report an investment trust fund in connection with these assets because they do not qualify as investments; that is, the assets are not pooled primarily to generate income on behalf of participants.¹¹

A number of other arrangements that include investing activities also do not qualify as external investment pools because their primary purpose, once again, is something other than generation of income. For example, sometimes governments establish joint ventures for constructing and operating certain facilities, such as a sewage treatment plant. Such an arrangement should *not* be considered an external investment pool even if, during the construction phase, the joint venture realizes significant investment income from idle construction funds. Investment activities, though substantial during the construction phase, ultimately remain incidental to the joint venture's basic purpose, which is the construction and operation of a plant.¹²

¹ Public-entity risk pools¹³ and venture capital limited partnerships¹⁴ are other examples of arrangements that would *not* qualify as external investment pools because their primary purpose is not generation of income. The primary purpose of a public-entity risk pool is to manage liability exposure; a venture capital limited partnership is intended primarily to serve as a mechanism for raising capital.

¹⁰ GASB Statement No. 31, Implementation Guide, question 90.

¹¹ GASB Statement No. 31, question 91.

¹² GASB Statement No. 31, question 95.

¹³ GASB Statement No. 31, question 96.

¹⁴ GASB Statement No. 31, question 97.

Chapter 15 Reporting for Specialized Entities

The jurisdiction of the Governmental Accounting Standards Board (GASB) extends to *all* state and local governments, regardless of size or purpose. A shared standard-setting body, however, does not indicate that accounting and financial reporting are identical for all types of governmental units. Rather, generally accepted accounting principles (GAAP) provide extensive guidance for specialized entities. This chapter examines this specialized guidance, as well as certain situations in which special-purpose governments can combine government-wide and fund financial statements into a single presentation.

PENSION PLANS

The basic GAAP requirements for pension plan reporting are provided by GASB Statement No. 25, *Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans*. In addition, the Government Finance Officers Association (GFOA) furnishes guidelines¹ governing the presentation of comprehensive annual financial reports (CAFRs) of public employee retirement systems (PERS).²

The CAFR of a PERS builds on the same basic structure used for CAFRs of state or local governments.³ Special issues arise, however, in connection with the following features:

- financial statement presentation and note disclosure
- required supplementary information (RSI)
- supporting schedules
- investment section
- actuarial section
- statistical section
- postretirement healthcare benefits
- securities lending arrangements

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¹ Pension CAFRs: Guidelines for the Preparation of a Public Employee Retirement System Comprehensive Annual Financial Report (GFOA, 1996).

² A PERS is a special-purpose government that administers one or more defined benefit pension plans and, sometimes, other types of employee benefit plans, including defined contribution, deferred compensation, and postemployment healthcare plans.
³ See chapter 13.

Financial statement presentation and note disclosure

A PERS may administer more than one pension plan. GAAP require that the PERS basic financial statements present information separately for each pension plan the PERS administers. This requirement can be met in one of two ways:

- *Separate columns*. For each pension plan, a PERS may present separate columns on the face of the statement of plan net assets and the statement of changes in plan net assets.
- *Combining statements.* A PERS may include combining statements *within the basic financial statements* to support the single column reported for pension trust funds on the face of the PERS statement of plan net assets and the statement of changes in plan net assets.⁴

A pension *plan* is an arrangement where all assets accumulated for the payment of benefits may be used to pay any beneficiary. If certain assets are legally restricted to the payment of certain beneficiaries, then there is more than one pension plan for financial reporting purposes.⁵

Pension plans and other fiduciary funds use the same two basic financial statements. Still, the authoritative guidance regarding the contents of these two statements is more detailed for pension plans than it is for other types of fiduciary funds.

All assets of a pension plan (such as cash and cash equivalents, receivables, investments, assets used in plan operations) should be reported by category in the statement of plan net assets. Receivables and investment balances should be further subdivided into their principal components. The pension plan should recognize a receivable for contributions when due, but only if there is a statutory or legal requirement to make the contribution, or if the employer makes a formal commitment to contribute. Brokerage commissions and other costs typically associated with the sale of investments should be deducted from the fair value of investments, if material. Capital assets used in plan operations should be reported at their historical cost and depreciated over their estimated useful life.

The statement of plan net assets should report only accounting rather than actuarial liabilities. Examples of such accounting liabilities are obligations for benefits and refunds due and payable to plan members and beneficiaries, as well as accrued investment and administrative expenses.

Sometimes pension plans purchase *allocated insurance contracts*, annuity contracts to benefit specific beneficiaries. Such contracts and related liabilities should *not* be reported on the pension plan's statement of plan net assets.

The difference between plan assets and plan liabilities is to be reported as *net assets held in trust for pension benefits*. This caption must be accompanied by a parenthetical reference to the schedule of funding progress.

All changes in plan net assets that occurred during the period must be reported in one of two categories: *additions* and *deductions*. Additions to plan net assets should be reported in the following categories:

Statement of plan net assets

Statement of changes in plan net assets

⁴ GASB Statement No. 34, Basic Financial Statements—and Management's Discussion and Analysis—for State and Local Governments, paragraph 140.

⁵ It is possible to have separate actuarial valuations, or even separate *reserves, funds*, or *accounts*, and still ^b It is possible to have separate actuarial valuations, or even separate *reserves, funds*, or *accounts*, and still be a single pension plan, provided all assets accumulated to pay benefits may legally be used to pay any beneficiary. Conversely, resource pooling for investment purposes does not mean there is a single pension plan if certain assets may only be used to pay certain beneficiaries. Agent multiple-employer plans, however, should always be treated as a single pension plan (GASB Statement No. 25, paragraphs 15-16).

- contributions from employers
- contributions from plan members (even if transmitted by the employer)
- contributions from other sources (for instance, state contributions to a school district plan)
- net investment income:
 - net appreciation (depreciation) in investments reported at fair value
 - interest income, dividend income, and other income
 - less: total investment expense (for instance, investment management and custodial fees)⁶

Deductions to plan net assets should be reported in the following categories:

- benefits and refunds paid to plan members and beneficiaries
- total administrative expense (excluding investment-related expenses)

Note that realized investment income may *not* be reported separately from unrealized investment income on the face of the statement of changes in plan net assets. Pension plans may disclose realized gains and losses, however, in the notes to the financial statements. Also, note that investment-related expenses are to be treated as a reduction in the additions category of the statement of changes in plan net assets, not as a deduction.

Note disclosures

The following disclosures must be provided in the PERS report:

- plan description
 - type of pension plan (such as "single-employer defined benefit plan") and the number of participating employers and other contributors
 - classes of employees covered and current membership, including the number of retirees and others currently receiving benefits, terminated employees entitled to receive benefits in the future, and current active plan members (A PERS should disclose if the plan is closed to new entrants.)
 - a brief description of benefit provisions and the authority for establishing or amending those provisions
- summary of significant accounting policies
 - basis of accounting (such as timing of contribution recognition, benefits, and refunds)
- method used to determine the fair value of investments
- contributions and reserves
 - authority for establishing or amending the obligation to make contributions
 - how contributions are determined (by statute, for instance) and how administrative costs are financed
 - required contribution rates for active members of the plan

⁶ Investment expense should be reported separately unless it cannot readily be distinguished from investment income or administrative expense. Other elements of net investment income may be combined.

 terms of long-term contracts for contributions and the amount outstanding as of the plan's reporting date

- balances in legally required reserves or designations as of the plan's reporting date (reserves result from the actions of outside parties, while designations result from action of the plan's own governing body); also, the purpose and funded status of each reserve or designation
- concentrations of 5 percent or more of the plan's net investments in securities of a single organization (other than the U.S. government)⁷

In addition to the two basic financial statements and various note disclosures, defined benefit pension plans also are required to provide two schedules of long-term actuarial data. Typically, these schedules are presented as RSI immediately following the notes to the financial statements.

Defined benefit pension plans are required to present the following data as of the plan's reporting date for the past six consecutive fiscal years:

- actuarial valuation date
- actuarial value of plan assets⁸
- actuarial accrued liability (calculated using the cost allocation method selected for funding purposes within the parameters established by GAAP)
- total unfunded actuarial liability (actuarial accrued liability less actuarial value of plan assets)
- funded ratio (actuarial value of assets as a percentage of the actuarial accrued liability)
- annual covered payroll
- ratio of the total unfunded actuarial liability to annual covered payroll

The schedule of funding progress need not be presented for pension plans that use the aggregate actuarial cost method (which does not identify or separately amortize unfunded actuarial liabilities).

The following data must be presented as of the plan's reporting date for the past six consecutive fiscal years:

- annual required contributions (in dollars) based on the parameters set by GAAP
- percentage of annual required contributions recognized as contributions from employers in the plan's statement of changes in plan net assets

When parties other than the employer or employees contribute to the plan, their contributions should be reported as well, and the schedule should be titled accordingly: "Schedule of contributions from employers and other contributing entities."

Schedule of employer contributions

Schedule of funding progress

RSI

⁷ This disclosure requirement, which is aimed at highlighting potentially inadequate diversification, does not apply to positions in pools or mutual funds.

This would be the valuation used for actuarial purposes, which usually is a smoothed average value, and thus would differ from the fair value reported on the statement of plan net assets.

Notes to the schedules of trend information

Notes should be attached to the schedules of RSI to address the following topics:

- actuarial cost method
- method used to value assets
- assumed inflation rate
- assumed investment return
- assumed projected salary increases
- assumed postretirement benefit increases
- amortization method (level dollar or level percentage of projected payroll)
- amortization period (equivalent single amortization period if multiple amortization periods are being used)
- selection of open or closed amortization approach
- if the aggregate method is used, a disclosure that the aggregate method does not identify or separately amortize unfunded actuarial liabilities (the method produces no measure of the unfunded actuarial liability)
- factors that affect trends (such as changes in benefits, material changes in the size or composition of the plan's population, changes in actuarial methods or assumptions)

Under the GFOA guidelines, the following supporting schedules should also be included within the financial section of a PERS CAFR:

As discussed earlier, the statement of changes in plan net assets should report *administrative expenses* as a separate item. This amount should be supported by a schedule of administrative expenses. If the pension plan reports depreciable assets, depreciation expense should be reported on this schedule.

The statement of changes in plan net assets reports investment expense as a reduction of investment income in the *additions* section of the statement. This amount should be supported by a schedule of investment expenses.

The final recommended supporting schedule is the schedule of payments to consultants. This schedule is used to provide information on fees paid to outside professionals other than investment advisors (such as actuaries, auditors, legal counsel, benefits consultants). While it is desirable to itemize amounts paid by individual or firm, this level of detail is not required.

Under the GFOA guidelines, every PERS CAFR should include a separate investment section in addition to the introductory, financial, and statistical sections required of all CAFRs. The recommended contents of this section, described below, are:

- a report on investment activities
- an outline of investment policies
- investment results
- asset allocation
- a list of largest assets held
- a schedule of fees and commissions
- an investment summary

Supporting schedules

Schedule of administrative expenses

Schedule of investment expenses

Schedule of payments to consultants

Investment section

Report on investment activities

Outline of investment policies

Investment results

Asset allocation

The investment section should begin with a report prepared by the investment consultant. If the retirement system does not engage the services of an investment consultant, the report on the investment section should be prepared by an individual with responsibility for overseeing the retirement system's investments (the chief investment officer, perhaps). One purpose of the report on investment activity is to reassure readers concerning the reliability of the information presented in the investment section of the CAFR. The report also should indicate the basis of presentation for the data reported in the investment section. Pension plans are strongly encouraged to present investment information to the greatest degree possible in conformance with the presentation standards of the Association for Investment Management and Research. In addition, the report should discuss the retirement system's investment objectives and any other topics deemed relevant.

The report should include a brief outline of the retirement system's investment policies. Issues of corporate governance and the use of proxies should be discussed as part of this outline, if relevant.

A schedule of investment results should present the rate of return for each major category of investments and for the total portfolio for different periods. It is recommended that information on the rate of return be presented at least for the latest 12 months, along with annualized rates of return for the preceding three- and five-year periods. Additional information could be presented (for instance, rate of return each year for the past five years or annualized 10-year information). Moreover, rates of return should be matched with appropriate benchmark indices (such as Lehman Brothers, Salomon Brothers, Standard & Poors). Peer benchmarks also could be provided (for instance, other public funds, small capitalization managers, international benchmarks). Finally, the schedule of investment results should indicate, either in a narrative preface or in a footnote, the basis for the calculations (for example, time-weighted rate of return based on the market rate of return).

The CAFR's investment section also should include information on asset allocation. The many different ways that such information could be presented include the following:

- asset allocation as of year-end presented in pie chart form
- asset allocation as of year-end presented as several pie charts (for instance, representing total asset allocation, equity manager's asset allocation, fixed-income manager's asset allocation)
- an area graph showing changes in asset allocation over a given period.
- a percentage chart showing changes in asset allocation over a given period
- a comparison of target and actual allocations (when a retirement system uses target allocations)
- narrative description of asset allocation as of year-end and changes in asset allocation over a given period

Also, information on prior asset allocation should be presented in any year there is a significant change in allocation. In addition to presenting information on asset allocation, preparers of CAFRs for retirement systems are

advised to consider presenting other information that may be useful to readers in assessing risk. It is not practical to include a list of the entire investment portfolio in the List of largest assets held CAFR. It can be useful to readers, however, to present a list of the portfolio's largest holdings. Typically, such a presentation would include information on the 10 largest bond holdings and the 10 largest stock holdings. Holdings should be reported in the aggregate by individual issue and should be ranked according to their relative dollar value. It is recommended that the list of largest assets inform readers that a complete list of the portfolio's holdings is available. The fees portion of the schedule of fees and commissions should report fees Schedule of fees and (and optionally, basis points) by category, along with an indication of assets commissions under management. The commissions portion of the schedule of fees and

under management. The commissions portion of the schedule of fees and commissions may report the name of each firm receiving a commission, the number of shares traded, the total value of commissions, and the amount of commissions per share. Alternatively, information on commissions may be reported at some other level of detail or in the aggregate. The schedule also should fully disclose any commission recapture arrangements, directed payments to third parties, or similar arrangements.

Investment summary The CAFR's investment section also should present an investment summary, reporting the fair value and percent of total fair value for each major type of investment.

Actuarial section Under the GFOA guidelines, every PERS CAFR should contain an actuarial section in addition to the introductory, financial, investment, and statistical sections. The recommended contents of this section, described below, are:

- actuary's certification letter
- summary of actuarial assumptions and methods
- schedule of active member valuation data
- schedule of retirants and beneficiaries added to and removed from rolls
- solvency test
- analysis of financial experience
- independent actuarial review opinion (if available)
- changes in plan provisions

Actuary's certification letter The actuation trative bo

etter The actuary's certification letter should be addressed to the plan's administrative board and should be signed and dated by the actuary or actuaries having primary responsibility for the valuation. The certification letter should be on the actuary's letterhead, and the signature block should contain professional designations, as appropriate.⁹

Summary of actuarial assumptions and methods

Schedule of active member valuation data

This schedule should present information on the number of active members, annual payroll for active members, annual average pay for active members, and the percentage increase in average pay for active members. Six years of

This summary should state the assumptions and methods used in the most recent actuarial valuation.

⁹ As noted later, if the actuary who prepared the certification letter is a member of the retirement system's staff, it is advisable to demonstrate independent review by having an actuary who is not a staff member periodically examine and comment on plan actuarial information.



Pension Plan Funding

Understanding the Actuarial Process

(How Actuaries put out Fires Before they Start)



PENSION PLAN FUNDING — UNDERSTANDING THE ACTUARIAL PROCESS (How Actuaries Put Out Fires Before They Start)

By: Larry Lang, FSA, Consulting Actuary The Wyatt Company

The subtitle to this articles resulted from an explanation in fire fighting terms regarding the actuarial process for pension funding. Using such terms, I pointed out that "Actuaries Put Out Fires Before They Start" (Figure 1). Said less figuratively, the actuary attempts to guide decisions today based upon the best guess of the emergence of future assets and liabilities of a pension plan.

Answering the Tough Questions

A critical part of the actuary's work in developing appropriate contribution levels is the certification of actuarial soundness (present and future contributions will fund present and future liabilities).

In the private sector, a funding standard provides guidelines regarding the appropriate contribution levels.

In the public sector there is no legal funding standard (although public plan practitioners follow acceptable practice standards).



Since contribution levels are often fixed and the dependent variable is the level of retirement benefits, it is critical that the actuary asks the right questions in order to determine actuarial soundness -- or to determine that a plan is in financial trouble.

Some of the questions which actuaries must ask include the following:

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- Are plan sponsor and participant contributions sufficient for actuarial soundness?
- What is the expected benefit payout pattern over the next 20 years?
- What is the expected asset growth pattern over the next 20 years?
- Can additional benefits be supported by current contribution levels?
- How many years will it take to amortize existing liabilities?
- To what extent should actuarial assumptions be modified to reflect current experience?
- How will changes in the work force affect contribution requirements and actuarial soundness in the future?

These are only a few of the questions which must be addressed in determining actuarial soundness. The next step is to determine the appropriate actuarial model for mathematical measurement. The definition of terms used in the following pages can be found in the *Glossary of Terms* at the end of this article.

Pay-As-You-Go Financing

Many years ago, before ERISA, there was no funding standard. In the private sector to some degree, but more notably in the public sector, it was very common to fund benefits on a *pay-as-you-go financing basis*.

On a pay-as-you-go financing basis:

 $\mathbf{C}_{\text{ONTRIBUTIONS}} = \mathbf{B}_{\text{ENEFITS}}$

Under this system, as inflation and annual retirements increased benefit payout requirements, the contribution had to be increased. Therefore a pattern of increasing contributions developed, both as a dollar amount and as a percentage of covered payroll. For many sponsors, such increases caused an unacceptable strain on the budget.

Overall this was not a desirable system.

Today Most Pension Plans Are Funded

As a result of ERISA, all private pension plans have a minimum annual funding requirement. While public plans are not under the ERISA standard, most have followed with orderly funding of long term liabilities.

Over the long haul it could be said for funded plans that:

Contributions = Benefits + Expenses - Investment Return on Assets

Under this approach, asset growth cushions the cost of changes in benefit payout patterns. In other words, investment return on assets helps to pay for emerging benefits and expenses.

The actuarial approach can be designed to anticipate a pattern of level contributions as a percentage of pay in order to provide equity among generations of active members.

Benefit improvements are not only possible but can be effective overnight, because the increased benefits can be paid for by current assets with future funding paying back those costs to the fund.

Thus the actuary is needed to make recommendations today based upon mathematical models of the financial future of the plan.

Pictorial Representation of Pension System

Figure 2 illustrates the operation of a funded pension plan.

As shown, (a) sponsor contributions from operating income or taxation and (b) employee contributions increase the size of the fund. The fund is also increased by its own investment earnings. Reducing the pension fund are benefits to pensioners as well as administrative expenses. Mathematically it can be described as follows:

Assets this year = Assets last year + Contributions + Investment Return on Assets - Benefits - Expenses

Often, plan participants ask "why the fund cannot support higher benefits?" They point out that there are several million dollars in the trust fund and therefore they do not understand why that money cannot be used today.

To understand why these assets often cannot be used and are, in effect, pledged for future benefits, we need to examine the actuarial model.



Adapted from: ``ABC's of Pension Funding." Harvard Business Review,

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Actuarial Assumptions to Determine Benefit Payout

While a pay-as-you-go system may not be used for funding, it is necessary to develop the expected payouts from the trust over the next 60 to 70 years in order to form the actuarial building blocks in the pension funding model.

Some of the assumptions required for this purpose include the following:

- Assumed patterns of retirement
- Assumed patterns of death, on and off duty
- Assumed patterns of termination of employment
- Assumed patterns of disability, on and off duty
- Assumed growth in individual participant salary
- Current plan provisions
- Expected cost-of-living benefit adjustments

The actuary collects the various demographic data on current active participants as well as those with deferred or immediate benefits in order to develop the expected benefit payout pattern. *Figure 3 is an illustration of the type of benefit payout projection which might result.*



FIGURE 3

-9-

Development of the Present Value of Future Benefits

The next step in the funding model is to develop the Present Value of Future Benefits -- PVFB.

The PVFB can be thought of as an amount of money, paid one time (today) into the trust fund which entirely pays for the future stream of benefit payouts (which were developed in the last section, shown in Figure 3). (Under this model, future new hires into the system are generally not included in the present value calculations.)

Thus, the PVFB is said to be the actuarial equivalent of the benefit payout stream.

Certain assumptions are involved in order to develop this present value. Assumptions on rates of retirement, death, disability and termination have already been incorporated to develop the year by year benefit payout pattern (Figure 3). Once that is developed, these amounts are discounted with interest at the assumed investment return rate to reflect the time value of money. Thus, the investment return assumption is a critical component of the actuarial model. It is selected based upon the long term expected yield of the fund, but is generally understated somewhat to build in conservatism. (Note: Selection of assumptions is beyond the scope of this article.)

Under an *initial funding* concept, the full PVFB of the plan would be paid today. However, this would represent an intolerable level of cost to bear in one period for any plan sponsor. Typically the PVFB would be much larger than the covered payroll. Even if the money were available, it would generally be unfair among generations to pay the full amount in one period.

Thus, one charge of the actuary is to find an orderly basis for paying off the PVFB over some period of time.

Funding for PVFB in Two Pieces

In basic terms, and ignoring the more intricate rules of the Funding Standard Account in the

private sector, the funding requirement is generally determined as the sum of two pieces:

[1] Normal Cost:

The normal cost is the pattern of the annual payments required for a plan participant from entry age to retirement age. (These patterns will be discussed in more detail in a later section.)

plus

[2] Amortization of Unfunded Actuarial Accrued Liabilities

The development of the second component will also be discussed in more detail in a later section. At this point it is sufficient to say that this component would not exist but for the fact that (a) the plan was started after expected payment of normal cost, (b) plan experience is different from the actuarially assumed experience and, more importantly, (c) benefits are improved from time to time. As benefits are improved, there is a need to make up the shortfall since the original pattern of normal cost did not anticipate such improvements.

This payoff can be thought analogous to the payoff of a home mortgage and is paid over some period of time determined by the actuary and plan sponsor, or by the statutes governing the plan. - 11 -

[1] Pattern of Normal Cost

Two actuarial funding methods are commonly used in the funding environment.

Entry Age Normal cost method (EAN) generally provides for a pattern of level normal cost as a percentage of pay. This produces a slightly increasing pattern as a dollar amount. This method is most commonly used today in the public and private sector.

Projected Unit Credit cost method (PUC) has a pattern which starts out lower than the EAN cost method, but then crosses over to eventually become a larger component than EAN. By design, this method produces results for the individual which increase as a percentage of pay. Depending upon the turnover of the employee population and the membership growth rate of the plan this method may still produce a relatively stable pattern of cost as a percentage of pay. This method is seldom used today in the public sector, though it is used for GASB measures, which we discuss later. It is also used with much frequency in the private sector.

Present Value of Future Normal Cost (PVFNC) is, as it says, the present value of the anticipated stream of future normal costs.

Accumulated Value of Prior Normal Cost (AVPNC) is another actuarial concept that can be thought of as (a) an amount of money at retirement which exactly equals the amount of money needed to fund the benefit or as (b) an accumulation of all of the prior years' normal cost from entry date in the plan to date of retirement (or some earlier date).

These concepts will be used in later discussion.

It is important to note the following relationship at entry age into the plan:

PVFB_{ENTRY AGE} = **PVFNC**_{ENTRY AGE}

In other words, there is a pattern of benefit payouts for an individual, the present value of which would be PVFB. There is also a pattern of normal costs that are paid in for that individual between entry age and retirement age, the value of which is PVFNC. By definition, at entry age PVFB and PVFNC are equal.

Using these definitions, the year by year pattern of normal cost for the two funding methods can be illustrated as shown in Figure 4. Again, note that the entry age normal line, while shown to increase as a dollar amount would, in fact, be level if the information were shown on a percentage of pay basis.

Therefore, the normal cost is a key component in the funding calculation. The second major component deals with paying for a shortfall which can develop after the plan is installed, plan experience emerges and as benefits are improved from time to time.

[2] Amortization of Unfunded Actuarial Accrued Liability

Actuarial Accrued Liability (AAL) can be thought of as the theoretical assets which have accumulated as of any age of the participant and is equal to, for an individual, the accumulated value of prior years' normal costs (AVPNC).



ILLUSTRATION OF PATTERN OF NORMAL COSTS



* If shown as a percentage of pay, this line would be horizontal.

The AAL is equal to the present value of all future benefits (PVFB) less the present value of future normal cost (PVFNC). Looking at these relationships another way, the present value of future benefits is equal to the sum of (a) the accumulated value of prior normal cost and (b) the present value of future normal costs. *These relationships are summarized in Figure 5*.

Figure 6 illustrates the growth of the AAL under the EAN cost method. The top line represents the PVFB and the lower line represents the development of the AAL. The difference between the top line and the bottom line represents the PVFNC. Thus, the AAL may be represented in two ways, retrospectively, based upon (a) the accumulation of prior years normal cost (AVPNC) or prospectively, as the PVFB minus the PVFNC.

Figure 7 illustrates the same information for the PUC cost method. Note that the AAL under this method emerges more slowly and thus the PVFNC (which provides for a source of future funding) is relatively larger. Also, at retirement age 55 (the assumed retirement in this example, developed for a public sector plan) the PVFB and AAL become the same, which is the required result. FIGURE 5

AMORTIZATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (AAL)

AAL arows from zero to amount needed at retirement ø

6	Ages:	E == entry age X == current age
۵	At entry:	PVFB II PVFNC II PVFNC
~	Currently:	PVFB APPIC * PVFNC *
A	The result:	AVPNC _x = accumulated value of prior normal cost
		MAR A Price
		or AAL - PVFB - PVFNC




FIGURE 7

GROWTH OF ACTUARIAL ACCRUED LIABILITIES (AAL) PROJECTED UNIT CREDIT (PUC)



* Same amount of money needed at retirement; slower buildup pattern than EAN; larger PVFNC.

Uses of Funding Methods

In the corporate environment, approximately 31% of salaried plans use the entry age normal cost method and another 12% use the PUC method. In recent years there has been a growing trend in the private sector to use the PUC method. This trend is related to financial accounting rules for corporations and to cash flow considerations. However, the EAN method is still the method predominately used for funding.

In the public sector environment, nearly all plans use the entry age normal cost method.

The Government Accounting Standards Board (GASB) has developed a universal standard (GASB Statement No. 5) for measuring the funded status of public plans. This status is determined as:

Funded Ratio =
$$\frac{\text{Assets}}{\text{AAL}}$$

For the purposes of developing this funded ratio, the AAL is developed under the PUC method. Based upon very preliminary survey information, it appears that the average funded ratio among major public sector plans is about 85%. This ratio is best understood when compared with the range of results for other similar programs in the public sector.

Components of Liability

The components of the liability include not only *active participants*, developed as discussed above, but *inactive participants* including:

- Current retirees
- Terminated participants with vested benefits
- Surviving spouses
- Surviving children
- Disabled participants

The concept of the AAL is difficult to grasp. It may be easier to perceive the AAL as a mathematical tool needed for an orderly pattern of benefit funding.

Development of Unfunded Liabilities

Figure 8 illustrates the AAL with its various components. Comparing the AAL with the assets of the plan, we note a shortfall due again to late plan installation, experience and benefit improvements. This shortfall is labeled the Unfunded Actuarial Accrued Liability (unfunded AAL or UAAL).

In the private sector it is required that such unfunded amounts be amortized in 30 years or less. In the public sector, 30 year periods are common though there is more latitude to fund the liability over shorter or longer periods.

In practice this amount may never actually be paid off but rather it is simply demonstrated each year that under the current measure it could be paid off in 30 years.

With these tools established the actuary can now attempt to measure actuarial soundness.

Measure of Actuarial Soundness

Figure 9 illustrates two approaches to measuring actuarial soundness. The model applies more to the public sector since the private sector has a minimum funding standard which makes it clear what is required.



Example 1 compares the 30 year funding requirement with the annual contributions. Case 1 is sufficient and Case 2 is not; hence, Case 1 is deemed actuarially sound and Case 2 is not.

Example 2 approaches the problem by solving for an effective funding period of the unfunded AAL. Given the actuarial liabilities which emerge compared with the annual contributions available, this period can be calculated. Case 2 is insufficient since it would appear to take an unlimited number of years before this liability is paid off. Generally most Boards of public plans would deem this unacceptable. Again in the public sector, 30 years or so is generally required.

Recap of Funding Cost

Figure 10 gives a recap of the actuarial model.

The PVFB can be shown in its entirety or can be split into its two components, the AAL and the PVFNC. A portion of the PVFNC represents the annual normal cost for that year and is the [1] component of the cost.

The AAL can be thought of in terms of the sum of the existing assets plus the UAAL. Depending upon the funding period selected, some portion of the unfunded AAL is funded as a part of the cost and is the [2] component of cost.

Thus the sum of these two components essentially represent the actuary's measure of the funding requirements of the plan.

FIGURE 9

MEASURE OF ACTUARIAL SOUNDNESS

Surplus	manus and a summer and
Determining	www.www.www.www.www.www.www.www.www.ww
\$	****

Example	

A N N N C (may be proved and the second of the		
ltem 30 year of funding retirement	Case 1 \$1.0 million	Case 2 \$1.0 million
Annual city and FF contributions	\$1.1 million	\$0.5 million
Surplus	\$0.1 million	(0.5) million
Actuarial Soundness?	yes	OU
Example 2 - Determi	ning Funding Pe	ariod
ltem	Case 1	Case 2
Annual contributions	\$1.1 million	\$0.5 million
Funding period	25 years	unlimited years
Actuarial soundness?	yes	OU



(MILLIONS) (MILLIONS)

FIGURE 10

Summarizing the Actuary's Role

In summary, we can see that the actuary:

- UNDERSTANDS important questions impacting actuarial soundness
- **COLLECTS** appropriate demographic data
- **EXAMINES** appropriate changes in contribution levels, plan improvements, and assumptions and methods
- **DETERMINES** appropriate actuarial components of cost
- **MEASURES** actuarial soundness
- **PRESENTS** results annually to the Board of Trustees or Board of Directors

Actuaries cannot always put out fires before they start. However, the actuarial methodology that has emerged over many decades of practice allows plan sponsors to fund their programs in an orderly manner over the life of a pension plan and in a manner that seems equitable from generation to generation.

GLOSSARY OF TERMS

Actuarial Pension Plan Funding Terminology

- Accumulated Value of Prior Normal Cost (AVPNC)
 AVPNC is an actuarial accumulation to date of the prior years' patterns of normal cost. It is shown that this is also identically equal to the AAL. It is also shown that this is equal to the PVFB less the PVFNC at a given age.
- Active Partici- Participants who are currently employed and covered by the plan. pants
- Actuarial Accrued Liability (AAL)
 AAL may be thought of as the theoretical assets which would be accumulated as of any age. This is equal to the AVPNC and is also equal to the PVFB less PVFNC at a given age.
- Actuarial A qualified actuary will certify the soundness of a plan after comparing the present and future contributions with the present and future liabilities and determining that this pattern is both <u>stable</u> and <u>adequate</u>.
- Actuary The actuary is a businessman with particular technical skills in the area of pension funding. The actuary:
 - <u>Understands</u> important questions impacting actuarial soundness
 - <u>Collects</u> appropriate demographic data
 - <u>Examines</u> appropriate changes in contribution levels, plan improvements, and assumptions and methods
 - <u>Determines</u> appropriate actuarial components of cost
 - <u>Measures</u> actuarial soundness
 - <u>Presents</u> results annually to the Board of Trustees or Board of Directors
- Amortization

Like a mortgage payment, the unfunded actuarial accrued liability (UAAL) is amortized or paid off over a period of time.

- Benefit Payout The year by year expected benefit payout pattern is projected by the actuary as an important step to developing long term actuarial cost.
- Entry Age Normal Cost Method (EAN)
 EAN method provides for a pattern of level normal costs as a percentage of pay. This method is most commonly used today in the public and private sector.

- Funded Ratio GASB Statement No. 5 defines for comparative measurement purposes a funded ratio which is equal to the assets divided by the AAL. For this purpose the AAL is calculated under the PUC funding method. Surveys show that the average funded ratio among major public sector plans is about 85%.
- Inactive Participants who are covered by the plan but no longer employed and include current retirees, terminated participants with vested benefits, surviving spouses, surviving children, and disabled participants.
- Normal Cost Normal cost is the pattern of annual payments required for a plan participant from entry age to retirement age under a given funding method.
- Pay-As-You-Go Financing Under this system contributions equal benefits. As inflation and annual retirements increase benefit payout requirements, the contribution requirements increase accordingly. This system is rarely used today, and is illegal in the private sector.
- Present Value A present value is one number today that is deemed to be equivalent to a series of numbers in future years. For example, the present value of \$1.00 paid at the end of each year has a certain equivalent value today.

This equivalency is based upon the time value of money -- the investment return assumption -- as well as other actuarial assumptions for discount including retirement rates, mortality rates, termination rates, and disability rates.

Computations of present values using these assumptions define the principal mathematical domain of the actuary.

 Present Value of Future Benefits (PVFB)
 PVFB can be thought of as an amount of money paid one time into the trust fund which entirely pays for the future stream of benefit payouts.

At entry age into the plan a PVFB is equal to the present value of future normal cost (PVFNC).

Under an *initial funding concept*, the full PVFB of a plan would be paid today.

- Present Value of Future Normal Cost (PVFNC)
 PVFNC is the present value of the anticipated future stream of normal costs.
- Projected Unit-Credit Cost
 Method (PUC)
 PUC method has a pattern of normal cost which starts out lower than EAN but then crosses over to eventually become larger than EAN. This method is seldom used today for funding in the public sector though it is used for GASB funded ratio measure. It is also used with much frequency in the private sector.
- Unfunded Actuarial Accrued
 Liability (UAAL)
 UAAL is the difference between the AAL and the assets. Typically this amount is amortized or paid off over a period of years such as 30. In practice this amount may never actually be paid off but rather it is demonstrated each year that under the current measure it could be paid off in 30 years.

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If there is deterioration from that position then contributions may need to be stepped up. If there is improvement from that position then benefits are in a position to be improved.