

**Fairmont
Policemen's Benefit Association**

Annual Actuarial Valuation

December 31, 1989

**Gabriel, Roeder, Smith & Company
Actuaries and Consultants**



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June 27, 1990

Board of Trustees
Fairmont Policemen's Benefit Association
Fairmont, Minnesota

Submitted in this report are the results of the December 31, 1989 actuarial valuation of the assets, actuarial values and contribution requirements associated with the benefits provided by the Fairmont Policemen's Benefit Association.

The valuation results contained in Section A provide the actuarial information needed to determine the employer's "minimum obligation" effective January 1, 1991. Section A also contains comments regarding the valuation results.

The valuation was based upon information furnished by the Association concerning benefits, financial transactions, active members, terminated members, retirants and beneficiaries. Data was checked for year to year consistency but was not otherwise audited by us. This information is summarized in Section B.

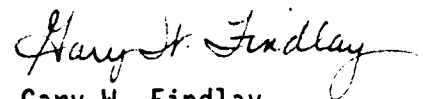
A description of the actuarial funding method and the risk experience assumptions used is contained in Section C. The economic risk experience assumptions, as well as the actuarial funding method to be used, are established by state law.

Information needed to comply with Statement No. 5 of the Governmental Accounting Standards Board is contained in Section D.

The actuarial valuation was prepared using generally accepted actuarial principles and practices based upon the methods, assumptions, summary of plan provisions and the member and financial data described in this report.

Respectfully submitted,

J. Daniel Petersen


Gary W. Findlay

Section A

Valuation Results

COMMENTS

Economic Assumptions and Financing Method

The economic assumptions of 5% annual investment return and 3-1/2% annual salary increases are established by state law. State law also specifies that the annual minimum obligation of the municipality shall be determined by adding (i) the employer normal cost percent times covered payroll to (ii) the level dollar amount required to amortize the unfunded actuarial accrued liability by December 31, 2010.

It is worth noting that when the same assumptions and methods are applied to plans which differ in nature, the valuation results may not be comparable. Caution should be exercised when attempting to assess the financial condition of one Association relative to another on the basis of valuation results produced using the assumptions and methods mandated by state law.

Court Ruling on the Definition of Prevailing Pay

The December 31, 1989 actuarial valuation reflects the decision of the Court of Appeals of Minnesota which held that the "prevailing pay" of a first class patrolman includes base pay and longevity pay and that contribution and benefits should be based on the inclusive definition in accordance with 1977 Minnesota Laws, Chapter 100.

The effect of the court ruling was to increase the normal cost \$16,689, increase the unfunded actuarial accrued liabilities \$1,350,099 and increase the amortization payment \$105,714.

Fairmont Policemen's Benefit Association

CONTRIBUTION RATE TO PROVIDE BENEFITS

Member portion & Employer portion
Effective January 1, 1991

Contributions for	If Paid Equally Throughout Year Normal Cost % of Active Payroll for 1991	+	UAAL Dollars
Normal cost of annuities:			
Age & service: to members	27.79%		
Age & service: to survivors	4.52		
Disability	2.22		
Death before retirement	1.69		
Refunds of member contributions	<u>0.33</u>		
Total Normal Cost	36.55%		
Amortization of unfunded actuarial accrued liabilities (UAAL) (20 year level dollar payment)			
Retired lives			\$ 56,313
Active members			<u>138,865</u>
Total			195,178
Total Cost of Benefits	36.55%	+	\$195,178
Member contributions	8.00%		
COMPUTED EMPLOYER RATE:			
(a) If Paid Equally Throughout Year	28.55%	+	\$195,178
(b) IF PAID AT CALENDAR YEAR END	29.26%	+	\$199,998

Fairmont Policemen's Benefit Association
Present Actuarial Condition

The Association's accrued actuarial assets were in excess of \$2.9 million on December 31, 1989 -- a considerable sum of money if unencumbered and allocated among a small group of persons. This is not the case with the Association's assets.

The following schedule puts the \$2.9 million into perspective by showing the relationship between accrued actuarial assets, actuarial accrued liabilities, and the number of persons with actual and potential claims on the Association's assets.

	<u>Accrued Actuarial Assets</u>	<u>Actuarial Accrued Liabilities</u>	<u>Unfunded Actuarial Accrued Liabilities</u>	<u>Percent Funded</u>
Retirants and Beneficiaries				
Retired Members (11)		\$3,294,444		
Surviving Spouses (3)		259,416		
Surviving Children (0)		<u>0</u>		
Total (14)	\$2,834,675	\$3,553,860	\$ 719,185	79.8%
Deferred Members (0)	0	0	0	0.0
Active Members (6)	<u>146,622</u>	<u>1,920,099</u>	<u>1,773,477</u>	7.6
Total	\$2,981,297	\$5,473,959	\$2,492,662	54.5%

Actuarial accrued liabilities represent the value, computed as of December 31, 1989 of:

- (i) retirement allowances likely to be paid the 14 retirants and beneficiaries; and
- (ii) the contributions assumed to have been made for the 6 active members from entry into the plan until December 31, 1989.

The value of retirement allowances likely to be paid the 14 retirants and beneficiaries, discounted for investment earnings and mortality, was computed to be \$3,553,860 as of December 31, 1989. To put this amount in perspective, the \$3,553,860, together with investment earnings, will just be sufficient to pay the 14 retirants and beneficiaries their allowances for their remaining lifetimes. This assumes the 14 retirants and beneficiaries live and die according to the assumed mortality and the \$3,553,860 is invested to yield an average annual return of 5.0% over the remaining lifetimes of the retirants and beneficiaries.

With respect to the active members, the actuarial accrued liability of \$1,920,099 represents the amount that would have been accumulated by December 31, 1989. This assumes the normal cost (which is expressed as a level percentage of pay) had been contributed from the date of hire until December 31, 1989 for the 6 actives, and that these amounts had earned 5.0% interest. It also assumes that the members in the past have lived, died, withdrawn, retired and received salary increases according to the actuarial assumptions shown in this report.

Historical Funding Ratio Schedule
(\$ in thousands)

Valuation Date <u>December 31</u>	Actuarial Accrued <u>Liabilities</u>	Accrued Actuarial <u>Assets</u>	Percent <u>Funded</u>
1980	\$2,306	\$ 624	27.1%
1981	2,571	751	29.2
1982	2,746	960	35.0
1983*	3,100	1,225	39.5
1984	3,214	1,623	50.5
1985	3,365	1,902	56.5
1986	3,528	2,185	61.9
1987	3,660	2,455	67.1
1988	4,055	2,656	65.5
1989	4,123	2,981	72.3
1989#	5,474	2,981	54.5

* After change in assumptions.

After court ruling on definition of prevailing pay.

Fairmont Policemen's Benefit Association
Computed Contributions - Comparative Schedule

<u>Year Ended December 31</u>		<u>Total Normal Cost as a Percent of Valuation Payroll*</u>	<u>Contribution For Unfunded Actuarial Accrued Liabilities \$ or %</u>
<u>Valuation</u>	<u>Fiscal</u>		
1980	1982	34.11%	\$108,448
1981	1983	35.01	119,191
1982	1984	34.85	119,063
1983	1985**	38.23	127,267
1984	1986	38.21	110,179
1985	1987	37.67	103,487
1986	1988	37.69	97,143
1987	1989	37.31	89,312
1988	1990	36.54	106,509
1989	1991	36.56	89,464
1989	1991#	36.55	195,178

* Includes employee contributions.

** After change in assumptions.

After court ruling on definition of prevailing pay.

Fairmont Policemen's Benefit Association

CONTRIBUTION FOR CALENDAR YEAR EFFECTIVE JANUARY 1, 1991

For any period of time the percent-of-payroll contribution rate is converted to dollars. The amount of dollars for any calendar year depends upon the results of the last actuarial valuation, and the timing of contributions within the year. The later the contribution date, the greater the dollar amount will be.

The municipality's dollar contribution for the year may be determined as follows:

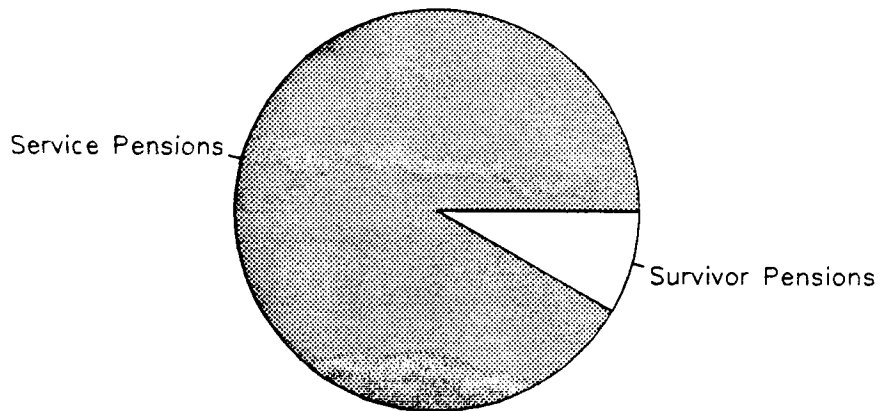
(1)	Estimated covered payroll for 1991		\$ _____
(2)	Total normal cost % from page A-2		36.55%
(3)	Total normal cost (Line 1 times line 2)		\$ _____
(4)	_____ x 1.035 1989 Administrative expenses paid from the Special Fund		_____
(5)	Amortization payment on UAAL from page A-2		195,178
(6)	Total contributions required (Line 3 plus line 4 plus line 5)		_____
(7)	Employee contributions (Line 1 times 8%)		\$ _____
(8)	(a) State amortization aid based on 12/31/78 UAAL of \$1,161,771	\$17,485	
	(b) State amortization aid based on 1984 legislation	<u>3,015</u>	
	(c) Total State amortization aid		20,500
(9)	Estimated insurance premium aid		_____
(10)	Estimated total contributions from other sources (Line 7 plus line 8 plus line 9)		_____
(11)	Employer's Minimum Obligation if payment is made in equal installments throughout the year (Line 6 minus line 10)		\$ _____
(12)	EMPLOYER'S MINIMUM OBLIGATION IF PAYMENT IS MADE IN TWO EQUAL INSTALLMENTS, JULY 30 & DECEMBER 30 (Line 11 times 1.0247)		\$ _____

Section B

**Valuation Data
and
Summary of Benefit Provisions**

Fairmont Policemen's Benefit Association
 Retirants and Beneficiaries December 31, 1989
 By Type of Annuity Being Paid

<u>Type of Annuity Being Paid</u>	<u>No.</u>	<u>Monthly Amounts</u>	<u>Computed Actuarial Accrued Liabilities</u>
Retirants receiving:			
Age & Service	11	\$18,762.97	\$3,294,444
Disability	<u>0</u>	<u>0.00</u>	<u>0</u>
Totals	11	18,762.97	3,294,444
Beneficiaries receiving:			
Spouse	3	1,697.00	259,416
Child	<u>0</u>	<u>0.00</u>	<u>0</u>
Totals	3	1,697.00	259,416
Totals	14	\$20,459.97	\$3,553,860



Monthly Amount Paid by Benefit

Fairmont Policemen's Benefit Association
 Retirants and Beneficiaries December 31, 1989
 By Attained Ages

<u>Attained Ages</u>	<u>Number</u>		
	<u>Age & Service</u>	<u>Disability</u>	<u>Death Before Retirement</u>
50-54	3		1
60-64	2		
65-69	4		
70-74	2		
75-79	<u>2</u>		<u>—</u>
Totals	13		1

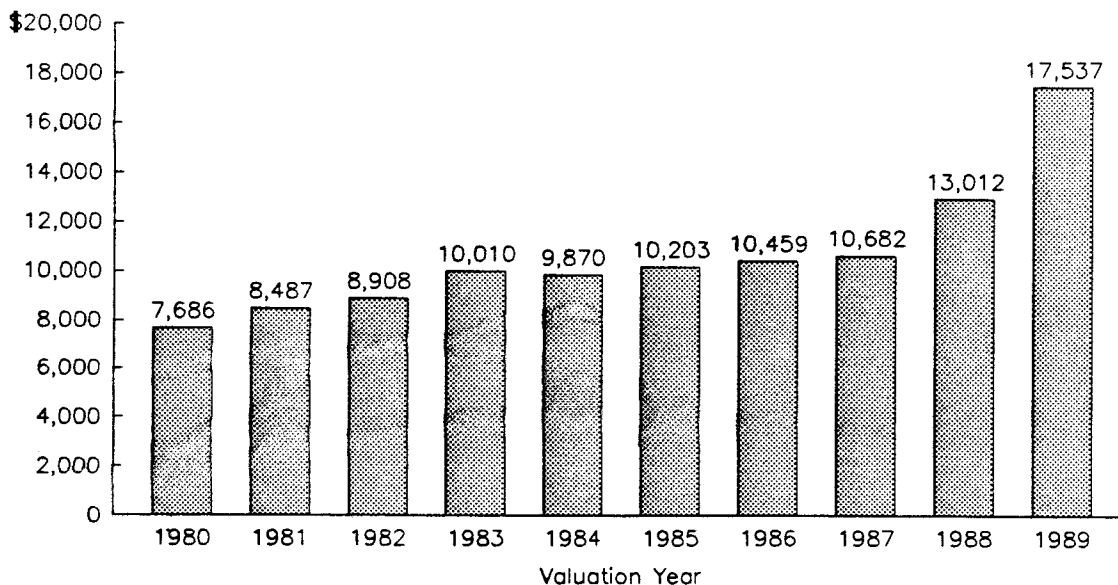
Fairmont Policemen's Benefit Association

Retirants and Beneficiaries Added to and Removed from Rolls

Comparative Statement

Valuation Date December 31	No. Added to Rolls	No. Removed from Rolls	Rolls End of Year		Discounted Value of Total Allowances
			No.	Annual Allowances	
1980		1	10	\$ 76,863	\$1,213,143
1981			10	84,870	1,294,526
1982			10	89,079	1,311,860
1983	1		11	110,106	1,740,007
1984	1	1	11	108,571	1,586,676
1985			11	112,238	1,582,140
1986			11	115,051	1,559,976
1987			11	117,507	1,534,608
1988	3		14	182,167	2,732,532
1989			14	245,520	3,553,860

Average Annual Allowances



Fairmont Policemen's Benefit Association
 Active Members December 31, 1989
 By Attained Age and Years of Service

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Valuation Payroll
40-44				2	1			3	\$119,212
45-49				1	2			3	119,334
Totals				3	3			6	\$238,546

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 44.5 years.

Service: 18.8 years.

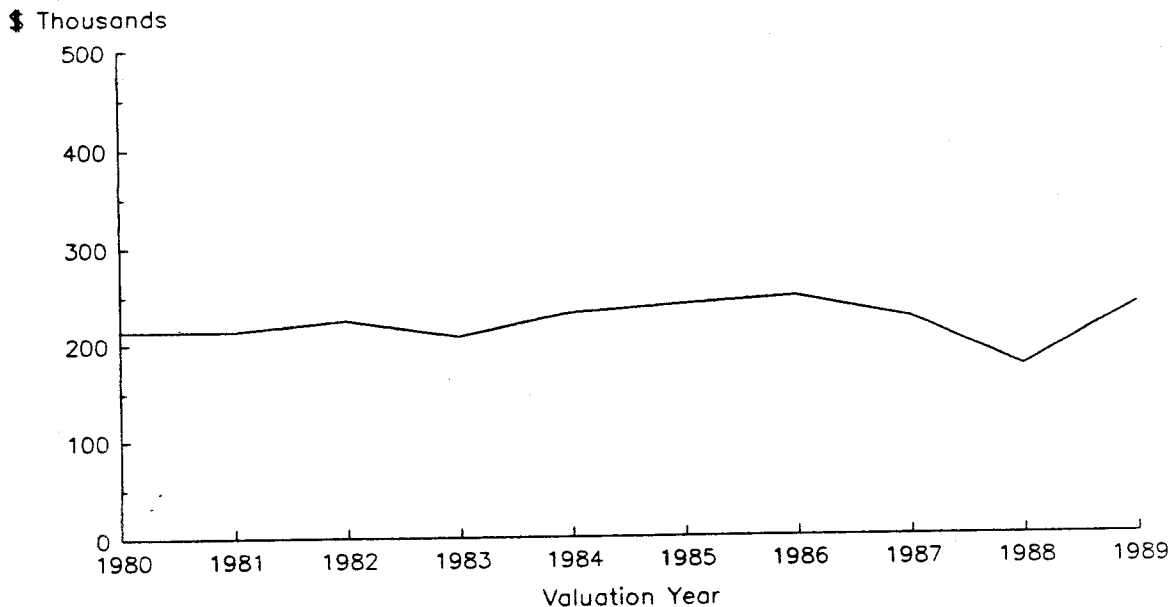
Annual Pay: \$39,758.

Fairmont Policemen's Benefit Association
 Comparative Schedule
 Of Active Members

Valuation Date December 31	Active Members	Valuation Payroll	Average			
			Age	Service	Pay	% Incr.
1980	11	\$213,947	38.5 yrs.	12.1 yrs.	\$19,450	20.2%
1981	10	213,851	40.7	13.9	21,385	9.9
1982	10	224,857	41.7	14.9	22,486	5.1
1983	9	207,840	41.1	14.8	23,093	2.7
1984	9	231,168	42.1	15.8	25,685	11.2
1985	9	240,419	43.1	16.8	26,713	4.0
1986	9	248,474	44.1	17.8	27,608	3.4
1987	8	225,791	44.5	18.5	28,224	2.2
1988	6	174,608	43.5	17.8	29,101	3.1
1989	6	238,546	44.5	18.8	39,758*	36.6

* After court ruling on definition of prevailing pay.

Valuation Payroll



Fairmont Policemen's Benefit Association

Brief Summary (12/31/89) of Benefit Provisions Evaluated and/or Considered

Age & Service Retirement

Eligibility. 20 years of service and 50 years of age.

Amount. For first 20 years of service, 50% of base pay. For years in excess of 20, an additional 2% is added to a maximum of 60% of base pay for 25 years of service. (Service after attainment of age 55 is not considered for benefit purposes).

Pay Used For Plan Purposes. "Base pay" means the prevailing pay of a first class patrolman.

Disability Retirement

Eligibility. Disabled to the extent that unable to perform duties of police officer before being eligible for age & service retirement.

Amount. 50% of base pay.

Member's Death While Active, Or In Deferred Status, Or Retired

Eligibility.

Spouse. Legally married to member at separation from service and residing with member at time of death. Benefits terminate upon remarriage.

Child. Younger than age 18.

Amount.

Spouse. 25% of base pay.

Child. 6.25% of base pay per child. Children's maximum is 25% of base pay if spouse is receiving or 50% of base pay if no spouse is receiving.

Vested Deferred. 20 years of service and separated before age 50. Payment beginning is deferred to attainment of age 50.

Post-Retirement Adjustments ("Escalator"). Each time base pay is changed, payments to all benefit recipients are simultaneously changed by the same percent that base pay is changed.

Member Contributions. 8% of base pay. Total member contributions are refundable, without interest, if no monthly benefit is payable upon separation from service.

Section C

Valuation Methods and Assumptions

Fairmont Policemen's Benefit Association

Valuation Methods and Assumptions

The Entry Age Normal Cost method was used to determine the normal cost of all benefits. The rate of investment return (interest) as required by state law used in making the valuation was 5.0 percent per annum, compounded annually. Age & service retirement was assumed to occur at age 53, attained age if older.

Mortality Table*

Sample Ages	Single Life Values: Present Value of \$1 Monthly				Future Life Expectancy (Years)	
	Level For Life		Increasing 3.5% Yearly		Men	Women
	Men	Women	Men	Women		
45	\$177.21	\$189.58	\$280.82	\$314.75	29.50	34.00
50	163.12	177.21	246.55	280.82	25.20	29.50
55	147.50	163.12	212.60	246.55	21.16	25.20
60	130.52	147.50	179.49	212.60	17.42	21.16
65	112.87	130.52	148.28	179.49	14.05	17.42
70	95.20	112.87	119.70	148.28	11.09	14.05
75	77.77	95.20	93.83	119.70	8.52	11.09
80	61.71	77.77	71.69	93.83	6.39	8.52

* UP-1984 Table set forward 2 years for males and set back 3 years for females.

Sample Rates of Separation from Active Employment
Before Retirement, Death or Disability

Sample Ages	% of Active Members Separating within Next Year
20	1.50%
25	1.25
30	1.00
35	0.75
40	0.50
45	0.25
50+	0.00

Pay Adjustment Factor Used To Project Current Pays

<u>Sample Ages</u>	<u>Present Pay Resulting in Pay of \$1,000 at Age 60</u>	<u>Present Increase in Pay During Next Year</u>
20	\$ 253	3.5%
25	300	3.5
30	356	3.5
35	423	3.5
40	503	3.5
45	597	3.5
50	709	3.5
55	842	3.5
60	1,000	3.5

Use of the pay adjustment factor illustrated above is required by state law.

Anticipated Disability Retirements

<u>Sample Ages</u>	<u>% of Active Members Becoming Disabled within Next Year</u>
20	0.08%
25	0.08
30	0.08
35	0.08
40	0.20
45	0.26
50	0.49
55	0.89

Section D

**The Pension Benefit Obligation
and Certain Other Disclosures
Required by Statement No. 5 of the
Governmental Accounting Standards Board**

PENSION BENEFIT OBLIGATION

The amount shown below as the "pension benefit obligation" is a standardized disclosure measure of the present value of pension benefits, adjusted for the effects of projected salary increases, estimated to be payable in the future as a result of employee service to date. The measure is the actuarial present value of credited projected benefits and is intended to (i) help users assess the plan's funding status on a going-concern basis, (ii) assess progress being made in accumulating sufficient assets to pay benefits when due, and (iii) allow for comparisons among public employee retirement plans. The measure is independent of the actuarial funding method used to determine contributions to the plan.

The pension benefit obligation was determined as part of an actuarial valuation of the plan as of December 31, 1989. Significant actuarial assumptions used in determining the pension benefit obligation include (a) a rate of return on the investment of present and future assets of 5.0% per year compounded annually, (b) projected salary increases of 3.5% per year compounded annually, attributable to inflation, and (c) the assumption that benefits will increase 3.5% per year after retirement.

At December 31, 1989, the unfunded pension benefit obligation was \$2,456,080 determined as follows:

Pension Benefit Obligation:

Retirants and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits	\$3,553,860
Current employees --	
Accumulated employee contributions including allocated investment income	146,622
Employer financed	<u>1,645,298</u>
Total Pension Benefit Obligation	\$5,345,780
Net assets available for benefits, at cost (market value was \$3,164,491)	<u>2,889,700</u>
Unfunded Pension Benefit Obligation	<u>\$2,456,080</u>

The total pension benefit obligation as of January 1, 1989 was \$3,957,163. During the year, the plan experienced a net change of \$1,388,617 in the pension benefit obligation. Of that change \$1,318,623 was attributable to the court ruling on the definition of prevailing pay used for determination of this value.

CONTRIBUTIONS REQUIRED AND CONTRIBUTIONS MADE

The Association's funding policy provides for periodic employer contributions at actuarially determined rates that, expressed as percentages of annual covered payroll, are designed to accumulate sufficient assets to pay benefits when due. The normal cost and actuarial accrued liability are determined using an entry age actuarial funding method. Unfunded actuarial accrued liabilities are being amortized as a level dollar amount over a period of 20 years.

During the year ended December 31, 1989, contributions totaling \$169,046 -- \$154,360 employer and \$14,686 employee -- were made in accordance with contribution requirements determined by an actuarial valuation of the plan as of December 31, 1987. The employer contributions consisted of \$66,179 for normal cost and \$88,181 for amortization of the unfunded actuarial accrued liability. Employer contributions represented 68.36% of covered payroll.

Significant actuarial assumptions used to compute contribution requirements were the same as those used to compute the standardized measure of the pension benefit obligation.

Computed Contribution Comparative Schedule

Fiscal Year <u>December 31</u>	Valuation Date <u>December 31</u>	<u>Contribution Rates</u>			<u>Dollar Contribution For Fiscal Year</u>	
		<u>Normal Cost % of Valuation Payroll</u>	<u>UAAL Dollars</u>	<u>Valuation Payroll</u>	<u>Computed</u>	<u>Actual</u>
1987	1985	26.67%	\$103,487	\$240,419	\$174,819	\$193,960
1988	1986	29.69	97,143	248,474	170,915	172,551
1989	1987	29.31	89,312	225,791	155,491	154,360
1990	1988	28.54	106,509	174,608	156,342	
1991	1989#	28.55	195,178	238,546	263,283	

After court ruling on definition of prevailing pay.

REQUIRED SUPPLEMENTARY INFORMATION

ANALYSIS OF FUNDING PROGRESS

Valuation Date	(1) Net Assets Available for Benefits	(2) Pension Benefit Obligation (PBO)	(3) Percent Funded (1)/(2)	(4) Unfunded PBO (2)-(1)	(5) Annual Covered Payroll	(6) Unfunded PBO as a Percentage of Covered Payroll (4)/(5)
December 31						
1987	\$2,312,995	\$3,550,355	65.1%	\$1,237,360	\$225,791	548.0%
1988	2,594,577	3,957,163	65.6	1,362,586	174,608	780.4
1989	2,889,700	5,345,780	54.1	2,456,080	238,546	1,029.6

Analysis of the dollar amounts of net assets available for benefits, pension benefit obligation, and unfunded pension benefit obligation in isolation can be misleading. Expressing the net assets available for benefits as a percentage of the pension benefit obligation provides one indication of the plan's funded status on a going-concern basis. Analysis of this percentage over time indicates whether the system is becoming financially stronger or weaker. Generally, the greater this percentage, the stronger the plan. The unfunded pension benefit obligation and annual covered payroll are both affected by inflation. Expressing the unfunded pension benefit obligation as a percentage of annual covered payroll approximately adjusts for the effects of inflation and aids analysis of the progress being made in accumulating sufficient assets to pay benefits when due. Generally, the smaller this percentage, the stronger the plan.

Appendices

APPENDIX I

FINANCIAL PRINCIPLES AND OPERATIONAL TECHNIQUES

Promises Made, and Eventually Paid. As each year is completed, the plan in effect hands an "IOU" to each member then acquiring a year of service credit -- the "IOU" says: "The Pension Plan owes you a portion of your retirement benefits, payments to be made in cash, commencing when you qualify for retirement."

The related key financial questions are: Which generation of taxpayers contributes the money to cover the IOU? The present taxpayers, who receive the benefit of the member's present year of service? Or the future taxpayers, who happen to be in town paying taxes at the later time when the IOU becomes a cash demand?

A sound principle of sound retirement plan financing is to have this year's taxpayers contribute the money to cover the IOUs being handed out this year. By following this principle, THE CONTRIBUTION RATE WILL REMAIN APPROXIMATELY LEVEL FROM GENERATION TO GENERATION -- our children and grandchildren will contribute the same percents of active payroll we contribute now.

A PENSION PLAN BECOMES CLOSED

The diagram in this appendix shows two important activities which occur after a plan has been closed to employees hired in the future.

Cash benefits paid continue to increase for decades, while active member payroll begins to decrease to zero.

Funding Method. A funding method is the long-term, planned pattern for employer contributions.

For an open plan (a plan covering future employees), the level-percent-of-active-member payroll funding method is the basic funding method.

The level-percent funding method can also be applied to a closed plan. However, the resulting contribution percent usually jumps to a high rate, because the number of covered active members is decreasing.

A preferred funding method for a closed plan consists of: level-percent funding for normal cost (the cost of members' service now being rendered); plus a level dollar contribution for unfunded actuarial accrued liabilities over a limited period of years. The period of years must be limited so that plan assets don't become zero while benefits are still payable.

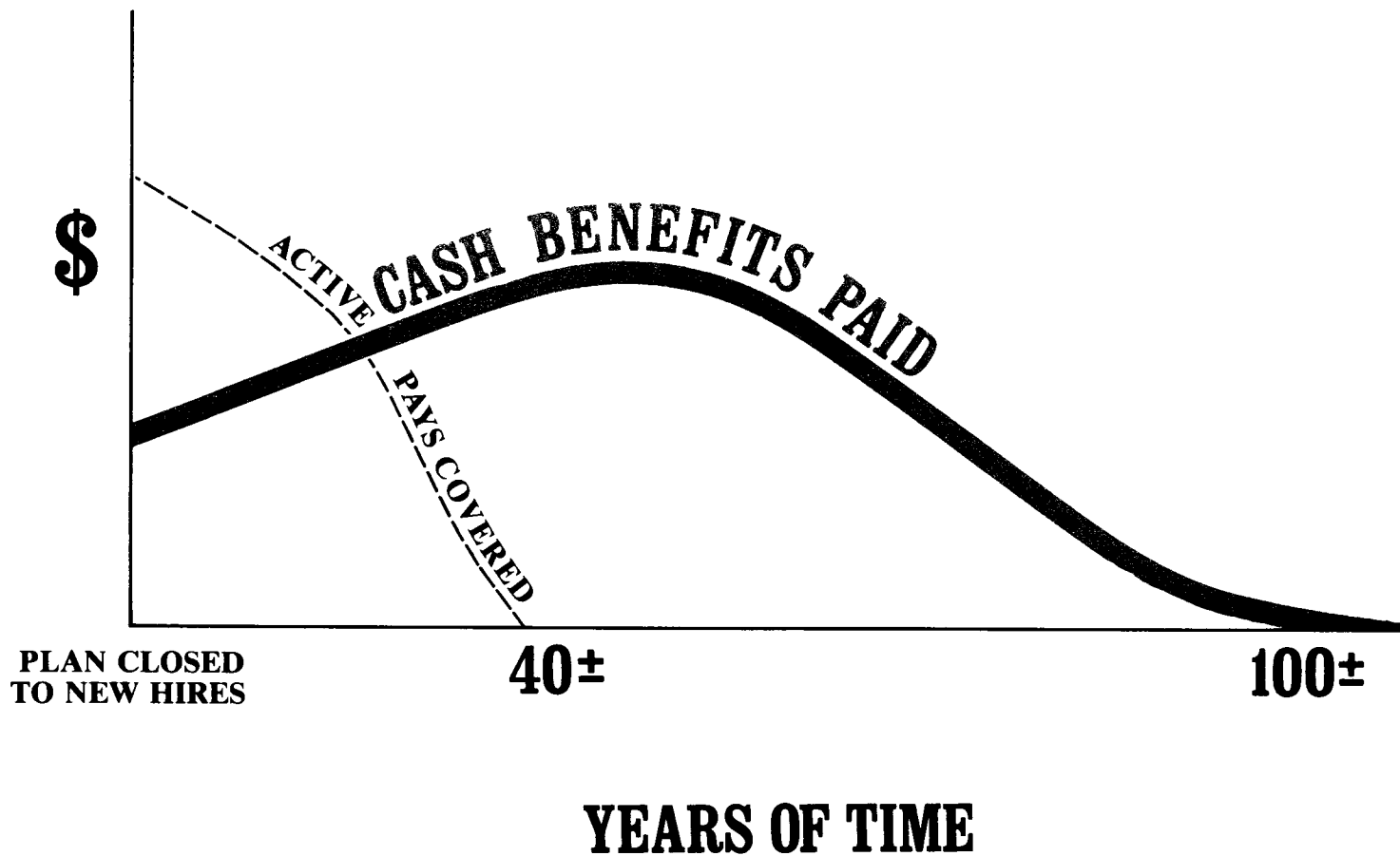
Computing Contributions To Support Plan Benefits. From a given schedule of benefits and from the employee data and asset data furnished him, the actuary determines the contribution rates to support the benefits by means of an actuarial valuation and a funding method.

In making an actuarial valuation, assumptions must be made regarding anticipated financial experiences for the next year and for decades in the future. Only the subsequent actual experience of the plan can indicate the degree of accuracy of the assumptions.

Reconciling Differences Between Assumed Experience and Actual Experience. Once actual experience has occurred and been observed, it will not coincide exactly with assumed experience, regardless of the wisdom of the assumptions or the skill of the actuary and the millions of calculations he made. The future can be predicted with considerable but not 100% precision, except for inflation which seems to defy reliable prediction.

A well-managed plan copes with these continually changing differences by having periodic actuarial valuations. Each actuarial valuation is a complete recalculation of assumed future experience, taking into account all past differences between assumed and actual experience. The result is continuing adjustment in financial position.

A CLOSED PENSION PLAN



A plan becomes closed when no new hires are admitted to active membership. The persons covered by the plan at the time of closing continue their normal activities and continue to be covered by the plan, until the last survivor dies.

CASH BENEFITS LINE. After a pension plan becomes closed, the usual pattern is for cash benefits to continue to increase for decades of time. Eventually the cash benefits will peak, and then gradually decrease over more decades of time, ultimately to zero. The last cash benefit is likely to occur a century after the time the plan is closed.

The precise amounts of cash benefits cannot be known now, and must be estimated by assumptions of future experiences in a variety of financial risk areas.

APPENDIX II

MEANING OF UNFUNDED ACCRUED LIABILITIES

Almost every pension plan (public or private) has "unfunded accrued liabilities", so whatever they are, they aren't rare. Since the term is not part of everyday conversation, it needs some definition.

"Accrued liabilities" are the present value \$ of plan promises to pay benefits in the future based upon service already rendered - - - a liability has been established ("accrued") because the service has been rendered, but the resulting monthly cash benefit may not be payable until years in the future. Accrued liabilities \$ are the result of complex mathematical calculations, which are made by the plan's actuary (which is the name given to the specialist who makes such calculations).

If "accrued liabilities" at any time exceed the plan's accrued assets (cash & investments), the difference is "unfunded accrued liabilities". This is the common condition. If the plan's assets equalled the plan's "accrued liabilities", the plan would be termed "fully funded". This is a rare condition.

Each time a plan adds a new benefit which applies to service already rendered, an "accrued liability" is created, which is also an "unfunded accrued liability" because the plan can't print instant cash to cover the accrued liability. Payment for such unfunded accrued liabilities is spread over a period of years, commonly in the 20-40 year range.