1985 ACTUARIAL REPORT AND EXPERIENCE STUDY

for

Buhl Policemen's Relief Association



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SECTION 1. A BRIEF SUMMARY OF THE CENSUS DATA



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The data on which this actuarial valuation is based is summarized below.

Members Not Yet Receiving Benefits

	Number	Prospective Retirement Annuities
Active Members	2	\$41,848
Deferred Annuitant Members	0	

Members Currently Receiving Benefits

	Number	Annual Annuity Payments
Retired Members	0	
Disabled Members	0	
Widows of Deceased Members	1	\$7,005
Children of Deceased Members	0	

SECTION 2. THE ACTUARIAL VALUATION



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The results of the valuation on December 31, 1984, are shown below. These results reflect an old plan rate of 65% of total pay and a new plan rate of 85% of total pay.

		Old Plan	New Plan
1.	Accrued Liability	\$491,312	\$676,796
2.	Special Fund Assets	409,528	409,528
3.	Unfunded Accrued Liability (Prior Service Deficit)	\$ 81,784	\$267,268
4.	Normal Cost for Current Year	\$ 17,751	\$ 21,670
5.	Normal Cost as a Level Percentage of Current and Projected Future Participating Payroll	37.12%	45.31%
6.	Current Participating Payroll Used for Valuation	\$ 47,821	\$ 47,821

The actuarial assumptions used in determining these results will be found in Appendix A.

Explanation of Actuarial Terminology

- Accrued Liability: The present value of benefits earned for service prior to the valuation date under the actuarial method used. The actuarial method used spreads the cost of total expected benefits equally over each member's anticipated period of active membership. The dollar amount shown as the Accrued Liability represents the number of dollars that should be in the Special Fund to provide for benefits already earned.
- Unfunded Accrued Liability (Prior Service Deficit): This
 amount is the difference between the Accrued Liability (the
 amount that should be in the Special Fund to fully provide
 for benefits already earned) and the actual amount of Special
 Fund assets.



Normal Cost: The amount necessary, according to the actuarial method used, to pay for benefits earned in 1985 by active employees (and each future year until another actuarial valuation is completed).

SECTION 3. CONTRIBUTIONS



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The Police and Firefighters' Relief Association Guidelines Act of 1969, as amended by Chapter 564 of Minnesota Statutes 1984, specifies minimum support rates required on an annual basis. The minimum support rates from the municipality and state aid are determined as the amounts required to meet the normal cost plus amortize the unfunded actuarial liability by December 31, 2010. This total contribution is shown below.

The contribution required by the municipality for any year is determined by taking Item 3 below, and subtracting one year's estimated state aid expected from the state pursuant to Minnesota Statutes, Chapter 69.

Contribution to Amortize Unfunded Accrued Liability (Prior Service Deficit) by December 31, 2010

1.	Normal Cost	\$21,670
2.	Amortization Payment on Unfunded Accrued Liability (Prior Service Deficit)	20,620
3.	Total Contribution Required (Including State Aid)	\$42,290



SECTION 4. INCOME OF FUND DURING 1984



SECTION 4. INCOME OF FUND DURING 1984	
Members' Contributions	\$ 3,825.55
Contributions by Municipality	13,287.23
Chata Did	7 002 72
State Aid	7,982.72
Other	0.00
Total Contributions	\$25,095.50
Investment Income	\$38.956.57

SECTION 5. EXPERIENCE OF THE PLAN



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Since the previous valuation of the Plan, the Unfunded Accrued Liability has changed as follows:

Unfunded Accrued Liability, 1/1/84	\$ 38,120
Normal Cost	11,758
Interest at 5% on the above	2,494
Contributions plus Interest	(25,192)
Expected Unfunded Accrued Liability before Plan Change	\$ 27,180
Increase in Unfunded Accrued Liability due to Plan Change	185,484
Expected Unfunded Accrued Liability after Plan Change	\$212,664
Actual Unfunded Accrued Liability after Plan Change	267,268
Actuarial Loss since the Previous Valuation	\$ 54,604

The major factors for the actuarial loss were a loss of about \$55,000 due to actual pay increases being higher than assumed and a turnover loss of about \$20,000 resulting from no terminations nor deaths during the last year. These losses were partially offset by an asset gain of about \$21,000.

The normal cost as a percent of pay increased from 28.67% on January 1, 1984, to 45.31% on January 1, 1985. The major components of the increase are shown as follows:

Normal Cost Percent,	1/1/84	28.67%
Increase due to	turnover loss	+ 5.05
Increase due to	pay loss	+ 3.40
Increase due to	benefit change	+ 8.19
Normal Cost Percent,	1/1/85	45.31%

The contribution for 1984 is \$42,290.

The average entry age of all active members is 27.



SECTION 6. THE PREPARATION OF THE REPORT



SECTION 6. THE PREPARATION OF THE REPORT

This report has been prepared in accordance with generally accepted actuarial principles and practices. This actuarial survey was made in accordance with our understanding of the requirements of the Police and Firefighters' Relief Association Guidelines Act of 1969, as amended by Chapter 564, Laws of Minnesota 1984. The usual care has been exercised in making the calculations and presenting the results. The contents of this report are, therefore, believed to be a correct appraisal of the state of affairs of the Plan.

Respectfully submitted,

HEWITT ASSOCIATES

Michael M. C. Sze

Fellow, Society of Actuaries

APPENDIX A. ACTUARIAL ASSUMPTIONS



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Mortality Rates

The mortality rates used are based on the United States Life Table, 1959-61, White Males and White Females. These tables were used for active members, retired members and for survivors.

Withdrawal Rates

The rate of withdrawal is .060 at age 20 decreasing uniformly to zero at age 45 with no withdrawal after that age.

Disability Rates

The expected Normal Cost of any disability benefit has been determined using claim statistics based on rates developed by the New York State Employees' Retirement System, and the resulting cost has been included in the Normal Cost shown on page 2.

Retirement Age

Members are assumed to retire after attaining age 53 and 20 years of service.

Salary Scale

A 3-1/2% annual increase in the salary on which retirement benefits are based has been assumed.

Interest Rate

Five percent compounded annually.

Actuarial Method

The Entry Age Normal Cost Method has been used to determine the Unfunded Actuarial Liability. The Normal Cost has been determined as a level percentage of current and future participating payroll on which the retirement benefits are based.

APPENDIX B. SUMMARY OF PLAN PROVISIONS



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Requirements for Benefits

Retirement Twenty years service and age 50.

Not in Line of Duty: None.

Vesting Twenty years service. Benefit is

deferred to the attainment of age 50.

Amount of Benefit

Retirement Benefit When Minimum Requirements

are Met:

Old Plan - 65% of final pay.

New Plan - 85% of final pay.

Additional Benefits for Service Beyond
Minimum Requirements: \$10.00 per month
for each additional year of service in
excess of 20 years but not to exceed

\$50.00.

Disability

Short Term \$8.00 per day to a maximum of 26 weeks.

Total and <u>In Line of Duty:</u>

Permanent Old Plan - 65% of final pay.

New Plan - 85% of final pay.

Not in Line of Duty:

Old Plan - 65% of final pay.

New Plan - 85% of final pay.

Amount of Benefit (Continued)

Vesting

Same as Retirement benefit.

Widow's Benefit

Old Plan: 65% of member's pension benefit based on 65% of final pay.

New Plan: 85% of member's pension benefit based on 85% of final pay.

Children of
Deceased Members

Old Plan: If both parents are deceased, 65% of member's pension. If member dies before retirement, \$125.00 per month per child to age 18 or 22 if in school.

New Plan: If both parents are deceased, 85% of member's pension. If member dies before retirement, \$125.00 per month per child to age 18 or 22 if in school.

Other Death Benefits

None.

Salary Basis for Benefits Current compensation.

Unit Value

Not applicable.

Member Contribution

8% of compensation.

Escalator Clause

Former member's pension benefits are increased by 3-1/2% with each salary raise of active members.

APPENDIX C. CENSUS DATA



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Active Members

Number	Age Nearest Birthday	Completed Years of Service	Current Salary	Old Projected Annual Annuity	New Projected Annual Annuity
1	55	28	\$25,221	\$16,994	\$22,038
2	47	19	\$22,600	\$15,290	\$19,810

Widows of Deceased Members

	Age Nearest	3 mm. m 1	
		Annual	
Number	Birthday	Benefit	
1	60	\$7,005	



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