MINNESOTA
STATE POLICE OFFICERS
RETIREMENT FUND

FINANCIAL REPORT AND
ACTUARIAL SURVEY

FISCAL YEAR ENDED
JUNE 30, 1968

CHAPTER 359 LAWS 1965

FILE COPY

REPORT OF THE SECRETARY

ON THE

FINANCIAL AFFAIRS

OF

THE STATE POLICE OFFICERS RETIREMENT FUND

* * * * * *

Fiscal Year Ending June 30, 1968

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Operating Under M. S. A. Chapter 736

Elected Officers

Charles J. Reiter, President
Edward W. Reed, Secretary
Henry H. Nelsen, Director

Statutory Officer

Minnesota State Treasurer

Val Bjornson

December 31, 1968

STATE POLICE OFFICERS RETIREMENT FUND

Introduction

In accordance with Chapter 359 of 1965 Minnesota Laws, a statement of the financial condition as of year ending June 30, 1968 of the State Police Officers Retirement Fund is herewith submitted. This statement contains the following items:

1. Introduction
2. Exhibit A, Balance Sheet
3. Exhibit B, Statement of Receipts and Disbursements
4. Exhibit C, Statement of Operating Expenses
5. Actuarial Valuation

Submitted by: S/ Charles J. Reiter
President

S/ Edward W. Reed
Secretary

S/ Henry H. Nelsen
Trustee

Prepared by: S/ Donald J. McMahon
Accountant

Exhibit A

STATE POLICE OFFICERS RETIREMENT FUND

BALANCE SHEET

Year Ending June 30, 1968

ASSETS

Cash on deposit with the State Treasurer		$ 12,924.62
Investments:		
Fixed Income Obligations:		
U. S. Government Bonds	$ 70,000.00	
State and Local Government Bonds	352,000.00	
Corporate Bonds	732,000.00	
Corporate Notes	51,000.00	1,205,000.00
Common Stocks		373,250.14
Total Assets		$1,591,180.76

LIABILITIES

Members Deposits	688,428.71
Reserve for Annuities	902,752.05
Total Liabilities	$1,591,180.75

Exhibit B

STATE POLICE OFFICERS RETIREMENT FUND

STATEMENT OF RECEIPTS AND DISBURSEMENTS

Fiscal Year Ending June 30, 1968

Undisbursed Cash Balance June 30, 1967		$ 15,259.40
Receipts:		
Salary Deductions from Members	$ 87,872.91	
State Contributions	227,889.06	
Sale of Investments for Reinvestment	155,567.58	
Interest from Investments	56,589.21	
Profit from Sale of Investments	1,210.00	
Miscellaneous Receipts (extimated)	529.04	529,657.80
Total Available Funds		$544,917.20
Disbursements		
Investments	$394,091.94	
Operating Expense	3,270.33	
Annuities Paid	126,961.26	
Refunds to Former Members	7,669.05	$531,992.58
Cash Balance June 30, 1968		$ 12,924.62

Note: 70 people are receiving annuities at this time.
54 of these members or survivors of members have exhausted the money paid into the fund by the member and have used $517,772.28 from the reserve to June 30, 1968.
There are 138 Conservation Officers and 32 Crime Bureau Agents paying into the fund at this time.

EXHIBIT C

STATE POLICE OFFICERS RETIREMENT FUND

OPERATING EXPENSES

Fiscal Year Ending June 30, 1968

Salaries:		
Executive Secretary	$ 600.00	
Accountant	960.00	$1,560.00
Actuarial Services		1,025.00
Central Tabulating Services		87.59
Travel and Communications		458.48
Stationery and Office Supplies		139.26
	Total	$3,270.33

ACTUARIAL VALUATION

for

MINNESOTA STATE POLICE OFFICERS' RETIREMENT PLAN

Fiscal Year Ended June 30, 1968

November 29, 1968

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Section 1. A Brief Summary of the Census Data

The data on which this actuarial valuation is based is summarized below. An analysis of the changes in the census data is presented in Section 3.

Active Members

Number	Annual Payroll June 30, 1968
169	$1,486,848

Other Members

	Number	Annual Annuity Payments
Retired Members	41	$ 99,151
Disabled Members	1	2,773
Widows of Deceased Members	25	24,834
Children of Deceased Members	10	7,320
Deferred Annuitant Members	4	6,218*
	81	$140,296

*Prospective Retirement Annuities.

Section 2. The Actuarial Valuation

The results of the valuation on June 30, 1968 are shown below:

(1)	Accrued Liability	$ 4,049,939
(2)	Assets	1,604,111
(3)	Unfunded Accrued Liability (Prior Service Deficit)	$ 2,445,828
(4)	Normal Cost for Current Year	$ 170,945
(5)	Administrative Expense	$ 3,270

The actuarial assumptions will be found in Appendix B.

During the fiscal year ended June 30, 1968, the trust fund received income as follows:

Members' Contributions	$ 87,872.91
Taxes or Public Funds	227,889.06
Total Contributions	$315,761.97
Investment Income (not including realized gains and losses)	$ 57,799.21

Section 2. The Actuarial Valuation (Continued)

The Normal Cost and Accrued Liability may be broken down into their components as shown below:

Normal Cost

Service Retirement Benefits	$ 119,211
Withdrawal Benefits	3,670
Disability Benefits	20,658
Survivors' Benefits	27,406
Total	$ 170,945

This total Normal Cost plus the administrative expense is 11.7% of the total payroll as of June 30, 1968.

Accrued Liability

Active Members

Service Retirement Benefits	$2,112,030
Withdrawal Benefits	11,268
Disability Benefits	208,190
Survivors' Benefits	415,915
Total for Active Members	$2,747,403

Inactive Members

Service Retirement	$ 779,143
Deferred Retired	62,471
Disability	30,382
Widows	290,929
Orphans	29,639
Survivors' Benefits	109,972
Total for Inactive Members	$1,302,536
Total Accrued Liability	$4,049,939

Section 3. Experience of the Plan

The Unfunded Accrued Liability as of June 30, 1968 ($2,445,828) increased by $121,439, or about 5%, over its value as of June 30, 1967 ($2,324,389). Several factors were involved in creating this net increase. The minimum contribution to prevent an increase in the Unfunded Accrued Liability was $225,508. Since actual contributions during the past year were $315,762, this had the effect of reducing the Unfunded Accrued Liability by $90,254. The trust fund had a net investment income of $57,799, which represents a rate of return of about 3.9% before Realized Gains and Losses. Since the valuation assumes a return of 3%, the gain of approximately $13,400 from the trust fund performance reduced the Unfunded Accrued Liability.

Two actuarial assumptions have been changed in doing this valuation. The new disability rates assumed are based on the "Intermediate Rates of Disablement" used by the Social Security Administration in making their 1962 Cost Estimating Projections. The rates formerly used were based on the New York State Employees' Retirement System. The effect of this change in the actuarial costs and liabilities was not material. The second change in the actuarial assumptions is the assumed Normal Retirement Age. This valuation is based on an assumed age at retirement of 64. Prior valuations of the plan used a retirement age of 62.5. The average at retirement of all employees currently on service retirement is 66.9, and for those employees retiring in the past year, the average age was 69.0. This change in assumptions had the effect of reducing the costs and liabilities of the plan by approximately 12%.

The major factors which increased the Unfunded Accrued Liability are changes in the salary of participants and a change in the method of valuing the auxiliary benefits under the plan. For the valuation as of June 30, 1967 the 169 active members had a total payroll of $1,178,748, an average salary of $6,975. The comparable figures for the 169 active members in the current valuation are $1,486,848 total payroll and $8,798 average salary, an increase of 26%.

Section 3. Experience of the Plan (Continued)

Analysis of Changes in the Census Data

Active Members

Active Members as of 6/30/67	169
New Entrants	15
Total	184
Separations from Active Service	
(1) Refundment of Contributions	2
(2) Disability	3
(3) Death	1
(4) Retirement with Service Annuity	9
Total Separations	15
Active Members as of 6/30/68	169

Inactive Members

Class of Annuitant	Members as of 6/30/67	New Entrants	Death	Other Terminations	Members as of 6/30/68
Service Retirement	34	9	2	0	41
Disability	0	1	0	0	1
Widows	23	2	0	0	25
Orphans	10	0	0	0	10
Deferred Annuitants	4	0	0	0	4
Total	71	12	2	0	81

Section 4. Contributions

The contributions outlined below are the support rates required on an annual basis to meet the level of funding indicated. The amounts shown are based on the payroll used in the current valuation. The Normal Cost portion has been determined as a level dollar amount. The support rates shown assume payment as of the valuation date.

Contribution to Amortize Unfunded Accrued Liability (Prior Service Deficit) by 1997.

(1)	Normal Cost for Current Year	$170,945
(2)	Amortization Payment on Unfunded Accrued Liability (Prior Service Deficit)	123,752
(3)	Administrative Expense	3,270
(4)	Total Contribution	$297,967

Minimum Contribution to Prevent an Increase in Unfunded Accrued Liability.

(1)	Normal Cost	$170,945
(2)	Interest on Unfunded Accrued Liability at 3%	71,238
(3)	Administrative Expense	3,270
(4)	Minimum Contribution	$245,453

Section 5. The Preparation of the Report

This report has been prepared in accordance with generally accepted actuarial principles and practices, based on data supplied by the Minnesota State Police Officers' Retirement Fund. The actuarial valuation was made in accordance with the requirements of Chapter 356 of Minnesota Laws 1967. 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

Rodger R. Patrick

Rodger R. Patrick, ASA

November 29, 1968

APPENDIX A

Summary of the Plan Provisions

Eligibility

(1)	Normal Retirement Benefits	Age 58 with 10 years of service.
(2)	Early Retirement Benefits	Age 55 with 20 years of service.
(3)	Withdrawal Benefits	Any age.
(4) (a)	Disability in Line of Duty	Any age.
(b)	Disability Not in Line of Duty	Under age 60 with 10 years of service.
(5)	Spouses' and Orphans' Benefits	Any age for immediate benefit. Death after 20 years of service for deferred benefit.

Monthly Benefits

(1)	Normal Retirement	2% of career average salary for each year of service.
(2)	Early Retirement	Normal retirement benefit reduced by 1/2% for each month that first benefit payment precedes age 58.
(3)	Withdrawal	Return of contributions without interest.
(4) (a)	Disability in Line of Duty	55% of career average salary, reduced by Workmen's Compensation. Payable until earlier of recovery, death or age 60 (at which time normal retirement benefit paid).

APPENDIX A (Continued)

Summary of the Plan Provisions (Continued)

Monthly Benefits (Continued)

(b) Disability Not in Line of Duty

Normal retirement benefit accrued to date plus a supplemental amount determined as follows:

Age When Disabled	Supplemental Benefit
Under 51	$50
51	44
52	38
53	32
54	26
55	20
56	12
57	6

The total benefit may not exceed the normal retirement benefit for 30 years of service.

(5) Spouses' and Orphans' Benefits

(1) $75 for the dependent spouse plus $45 for each child, plus $20 to be split among all children, but not to exceed a maximum of $250 for any one family; or

(2) If the deceased employee had 20 or more years of service at his death, the spouse may elect to receive an annuity deferred to age 62 in lieu of the payments in (1) above. The amount is 75% of the member's accrued normal retirement benefit with a maximum benefit of $200. This amount is reduced by 1/2% for each month his date of death preceded age 58.

APPENDIX A (Continued)

Summary of the Plan Provisions (Continued)

Normal Form of Annuity

Life Annuity.

Career Average Salary

Average annual salary upon which benefits are based. Currently, there is no limit on the amount of pay in any year which is included.

Contributions

	% of Salary
Members	6.0%
Employer Normal	9.0
Employer Additional	6.5
Total	21.5%

APPENDIX B

ACTUARIAL ASSUMPTIONS

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 both active and retired members and for survivors.
Withdrawal Rates	The rate of withdrawal of .030 at age 20 decreasing uniformly to zero at age 50 with no withdrawal after that age.
Disability Rates	These rates are based on "Intermediate Rates of Disablement" that were used by the Social Security Administration in their 1962 cost estimating procedures.
Retirement Age	The assumed average retirement age for this fund is age 64.
Salary Scale	A 3% annual increase in the salary on which retirement benefits are based has been assumed.
Interest Rate	3% compounded annually.
Actuarial Method	The Entry Age Normal Cost Method has been used to determine the Unfunded Prior Service Cost. The Normal Cost has been determined as a level dollar amount.