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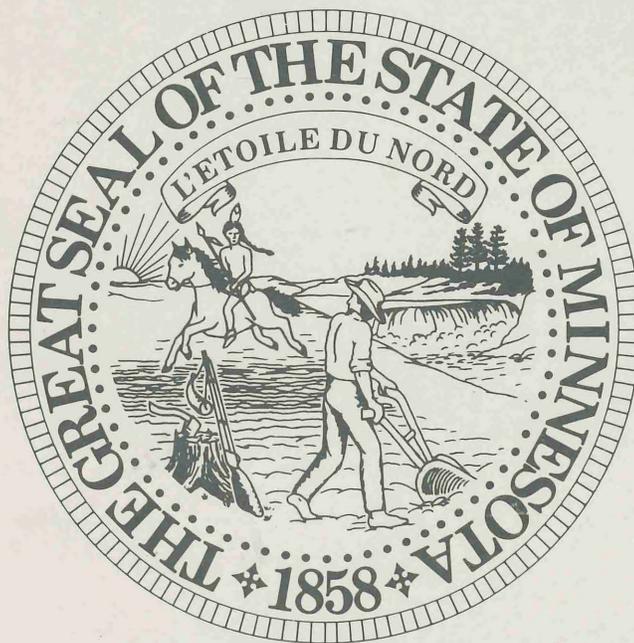


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MINNESOTA STATE BOARD OF INVESTMENT

1984 ANNUAL REPORT



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MINNESOTA STATE BOARD OF INVESTMENT

1984 ANNUAL REPORT

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STATE BOARD OF INVESTMENT

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State Auditor Arne H. Carlson
Secretary of State Joan Anderson Growe
State Treasurer Robert W. Mattson
Attorney General Hubert H. Humphrey III

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Malcolm W. McDonald, Vice Chair, Director and Corporate Secretary,
Space Center, Inc.
Gordon M. Donhowe, Commissioner of Finance
Paul L. Groschen, Executive Director, Minnesota State Retirement System
Kenneth F. Gudorf, Sr. Vice President of Finance and Chief Financial
Officer, Diversified Energies, Inc.
Richard B. Hume, Sr. Vice President, F&M Marquette National Bank
C. Michael McLaren, Executive Director, Public Employees
Retirement Association
Gary R. Norstrem, City Treasurer, St. Paul
Michael I. Rosen, President, Michael I. Rosen & Associates, Inc.
Joseph T. Rukavina, Active Employee Representative
Harvey Schmidt, Executive Director, Teachers Retirement Association
Raymond Vecellio, Retiree Representative
Deborah W. Veverka, Manager, Pension Financial Planning & Control,
Honeywell, Inc.
Jan Yeomans, Manager, Pension Fund, 3M Company

INVESTMENT DEPARTMENT PERSONNEL

Howard J. Bicker Executive Director
Jeff Bailey Assistant Executive Director

FIXED INCOME

Grant A. Feldman Fixed Income Manager, Short Term
John T. Kinne Senior Portfolio Manager, Short Term
N. Robert Barman Investment Analyst, Senior
Arthur M. Blauzda Investment Analyst, Senior

EQUITY

Roger W. Henry Equity Manager
Mark Edwards Senior Portfolio Manager
John Griebenow Senior Portfolio Manager
A. Arthur Kaese Senior Portfolio Manager
C. Robert Parsons Investment Analyst, Senior
Daralyn Peifer Investment Analyst
Harold L. Syverson Head Security Trader

ADMINISTRATIVE STAFF

L. Michael Schmitt Administrative Director
Teresa Myers Assistant to the Executive Director
Mable E. Patrick Senior Accounting Officer
Thomas L. Delmont Accounting Officer, Intermediate
Nancy Wold Accounting Officer
Deborah F. Griebenow Research Analyst, Intermediate
Harriet Balian Office Services Supervisor II
Kathy Leisz Computer Operator
Charlene Olson Clerk Stenographer, Senior
Linda M. Nadeau Clerk Typist II
Lavern Jagg Clerk Typist I

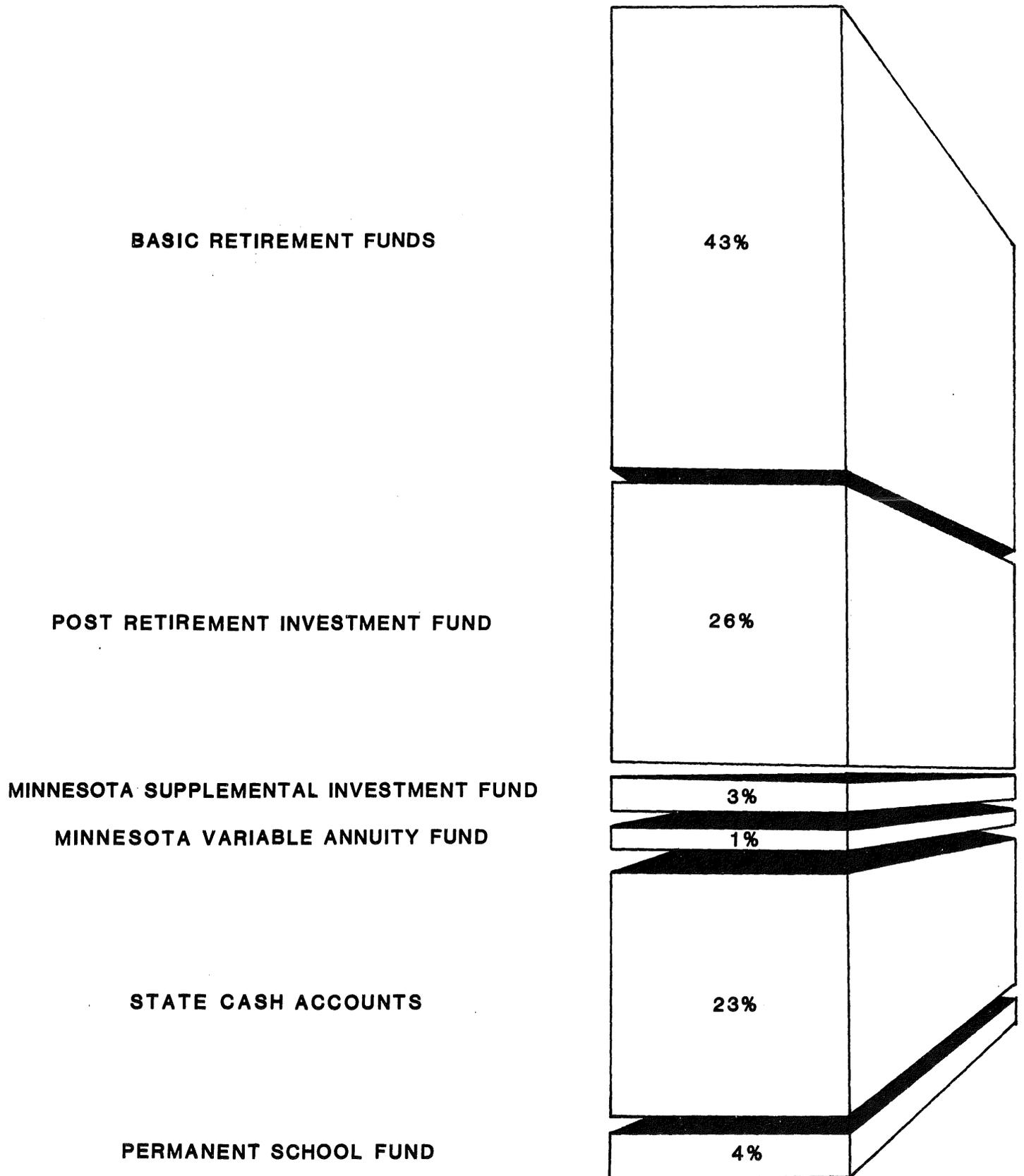
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FUNDS MANAGED BY THE STATE BOARD OF INVESTMENT



FUNDS MANAGED BY THE STATE BOARD OF INVESTMENT MARKET VALUE
June 30, 1984

BASIC RETIREMENT FUNDS \$3.0 billion

The Basic Retirement Funds are the pension assets of the currently employed participants in six major statewide retirement funds:

| | |
|---------------------------------------|-----------------|
| Teachers Retirement Fund | \$1,214 million |
| Public Employees Retirement Fund | 942 million |
| State Employees Retirement Fund | 610 million |
| Public Employees Police and Fire Fund | 211 million |
| Highway Patrol Retirement Fund | 43 million |
| Judges Retirement Fund | 3 million |

POST RETIREMENT INVESTMENT FUND \$1.9 billion

The Post Retirement Investment Fund is composed of the reserves for retirement benefits to be paid to currently retired employees by seven funds. Permanent retirement benefit increases are based on dividends, interest, and net realized capital gains from the sale of equities.

MINNESOTA SUPPLEMENTAL INVESTMENT FUND \$221 million

The Minnesota Supplemental Investment Fund includes the assets of the state deferred compensation plan, supplemental benefit arrangements, various retirement programs for local police and firefighters, and the unclassified employees of the state. Participants have a choice among four separate accounts with different investment emphases as authorized by law:

| | |
|------------------------|---|
| Income Share Account - | a balanced portfolio of stocks and bonds |
| Growth Share Account - | a portfolio of common stocks |
| Fixed Return Account - | a portfolio of short-to-intermediate debt investments |
| Bond Account - | a portfolio of longer maturity debt investments |

MINNESOTA VARIABLE ANNUITY FUND \$96 million

The Variable Annuity Program is an investment option concentrating on common stocks which was historically offered to members of the Teachers' Retirement Association. It is not available to new members.

STATE CASH ACCOUNTS \$1.5 billion

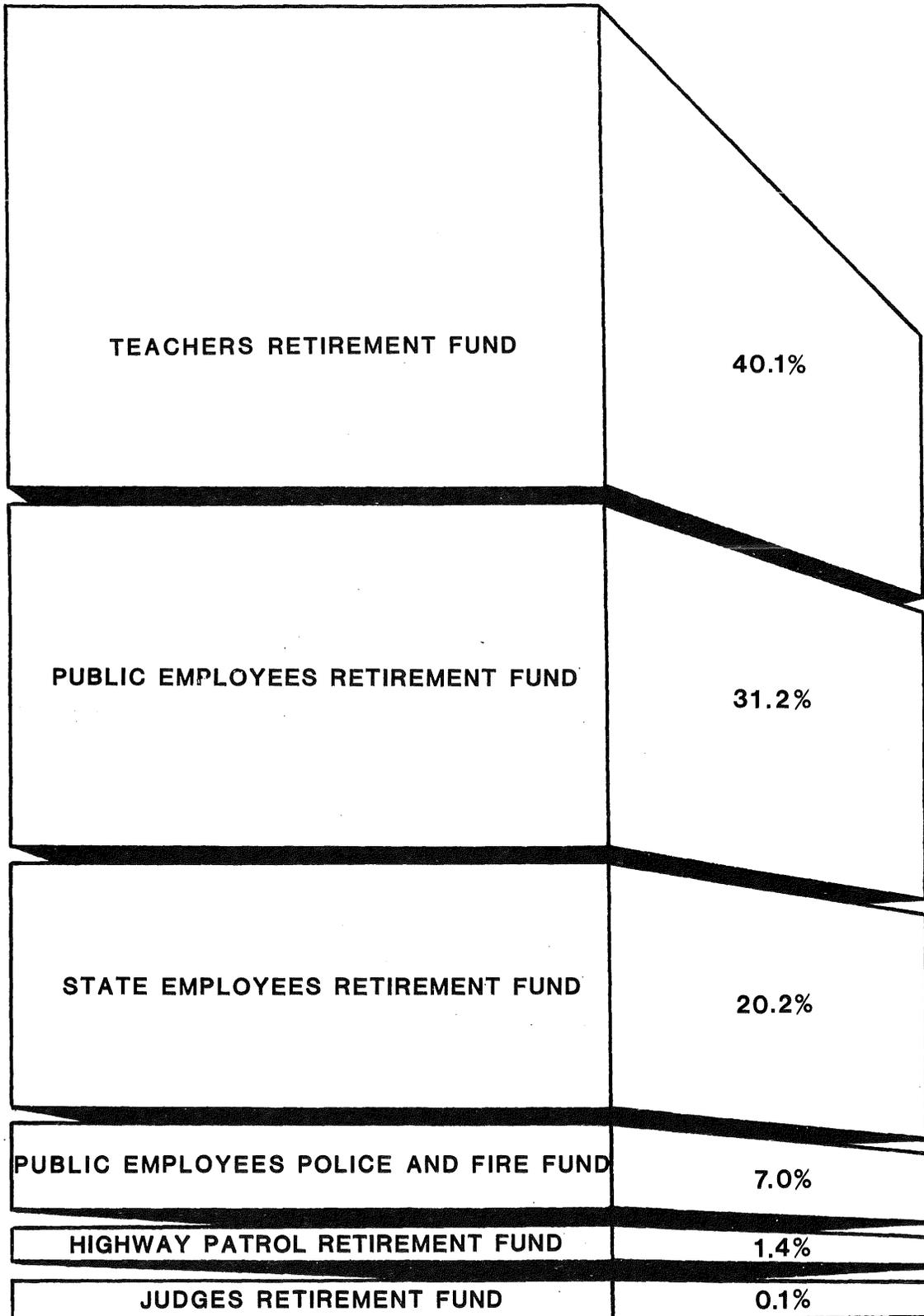
These accounts are composed of short term investments maturing within three years. They include the Invested Treasurers Cash Fund, transportation funds, and various miscellaneous cash accounts.

PERMANENT SCHOOL FUND \$277 million

The Permanent School Fund is a trust established for the benefit of Minnesota schools.

BASIC RETIREMENT FUNDS

COMPOSITION BY FUND



BASIC RETIREMENT FUNDS

The \$3.0 billion Basic Retirement Funds are composed of the retirement assets for currently employed participants in six major statewide retirement funds. The graph on the preceding page identifies the individual statewide retirement funds which comprise the Basic Retirement Funds. The Funds serve as accumulation pools in which the pension contributions of public employees and their employers are placed during the employees' years of active service. Approximately 250,000 public employees are participants in the Basic Retirement Funds.

INVESTMENT OBJECTIVES

The fundamental goal governing the investment of the Basic Retirement Funds is to earn total rates of return sufficient, over the long-term, to fund promised pension benefits at the lowest cost to the employers and employees. In setting the asset mix among stocks, bonds, and other investment alternatives, the Board pursues this fundamental goal by establishing three broad investment objectives. The first objective is to protect the principal of the Funds against a financial catastrophe which would result from a massive deflation or hyperinflation. The second is to control long-term total portfolio return volatility. Finally, the Board seeks to earn the highest possible real return subject to the first two objectives.

Based on the adequate funding levels and participant demographics of the Basic Retirement Funds, the investment time horizon of the Funds is long-term in nature, in excess of twenty years. Control of near-term portfolio return volatility and the generation of current income are not the Board's primary objectives. Rather, the Board focuses on the maximization of the long-term total rate of return, within the constraints described above.

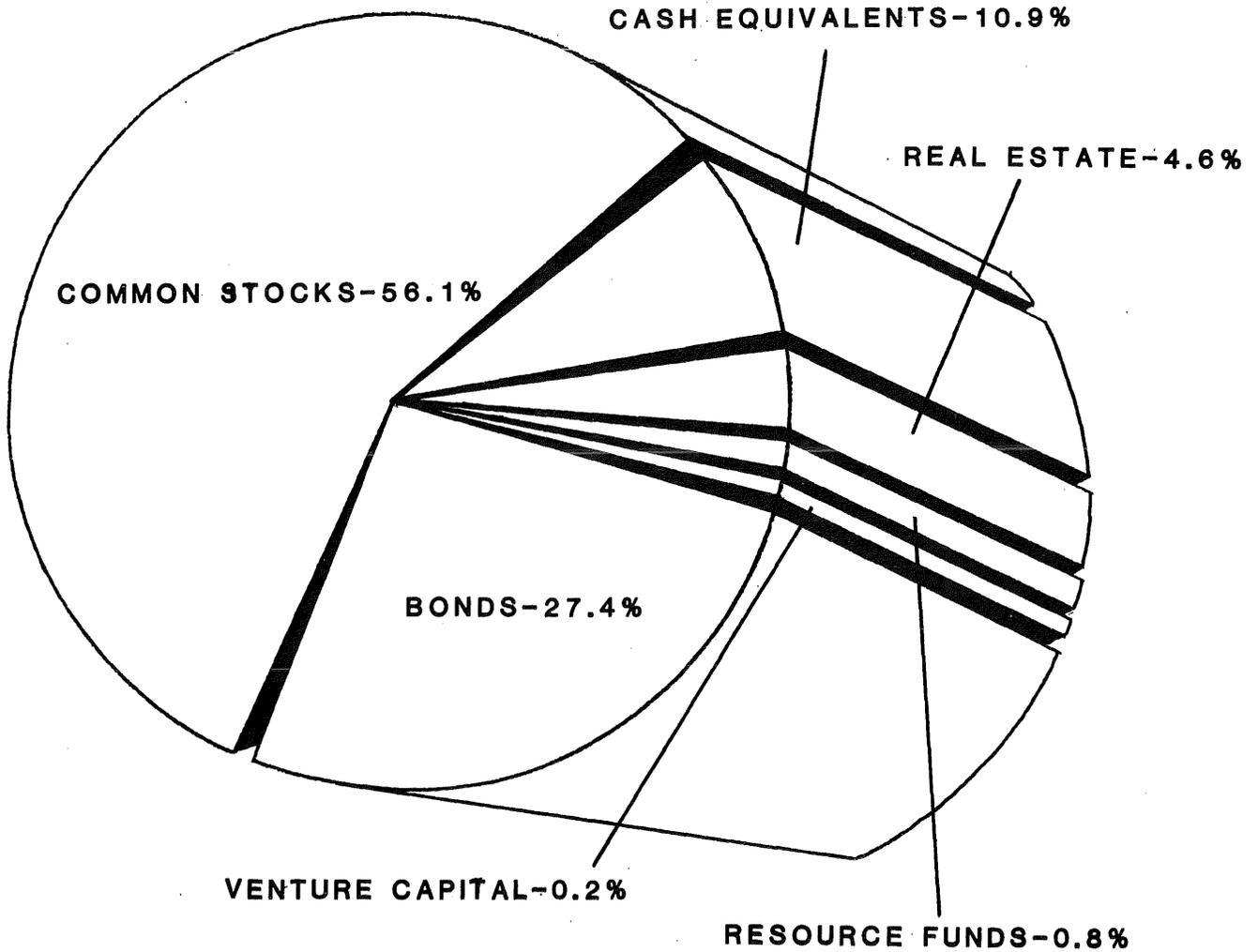
ASSET ALLOCATION

The choice of a long-run allocation of assets among common stocks, bonds, cash equivalents, and alternative equity investments can have a dramatic impact on investment results. In fact, asset allocation decisions quite frequently overwhelm the impact of individual security selection within a total portfolio.

BASIC RETIREMENT FUNDS

1984 FISCAL YEAR END ASSET MIX

PERCENT OF MARKET VALUE



| | <u>\$Million</u> | <u>Percent</u> |
|----------------------------|------------------|----------------|
| Common Stocks | 1,696 | 56.1 |
| Bonds | 829 | 27.4 |
| Cash Equivalents* | 331 | 10.9 |
| Alternative Equity Assets: | | |
| Real Estate | 140 | 4.6 |
| Resource Funds | 23 | 0.8 |
| Venture Capital | 4 | 0.2 |
| Total | 3,023 | 100.0 |

*Includes cash uncommitted to long-term assets plus cash held by all external managers.

Based on the Basic Retirement Funds' investment objectives, the Board adopted the following long-term asset allocation, as recommended in a major study by the Investment Advisory Council:

| | |
|--|-------|
| Common Stocks | 60.0% |
| Fixed Income (bonds and cash equivalents) | 25.0% |
| Real Estate | 10.0% |
| Resource Funds | 2.5% |
| Venture Capital | 2.5% |

These new targets represent a major shift in the traditional asset allocation of the Basic Retirement Funds. Prior to 1983, these Funds had an average allocation of 45%, 42%, and 13% among equities, bonds, and cash equivalents, respectively. The graph on the preceding page presents the asset allocation of the Basic Retirement Funds at the end of the 1984 fiscal year. Historical data on the Funds' asset mix over the last five years are displayed in the graph on page 9 and the table on page 10.

As a result of the long-term investment time horizon of the Basic Retirement Funds and the advantageous long-term risk-return characteristics of common stocks, the majority of the Funds' assets are invested in this asset class. The Funds' emphasis on maximizing total returns, as opposed to current income, is consistent with the capital gains orientation of common stocks. While this strategy may result in a higher level of total portfolio return volatility than more conservative, higher fixed income allocation strategies, over a five to ten year period it is expected that the additional returns will more than compensate for the increased volatility.

The fixed income component of the Funds is utilized as a deflation hedge and as a means of dampening long-run portfolio return volatility. In the event of a major deflation, only high quality bonds will protect principal as well as generate sizable capital gains. Fixed income assets also serve as a diversifying element in the total portfolio, limiting return volatility. In addition, the fixed income portfolio serves to satisfy Minnesota statutes that limit equity investments to 75% of the total fund.

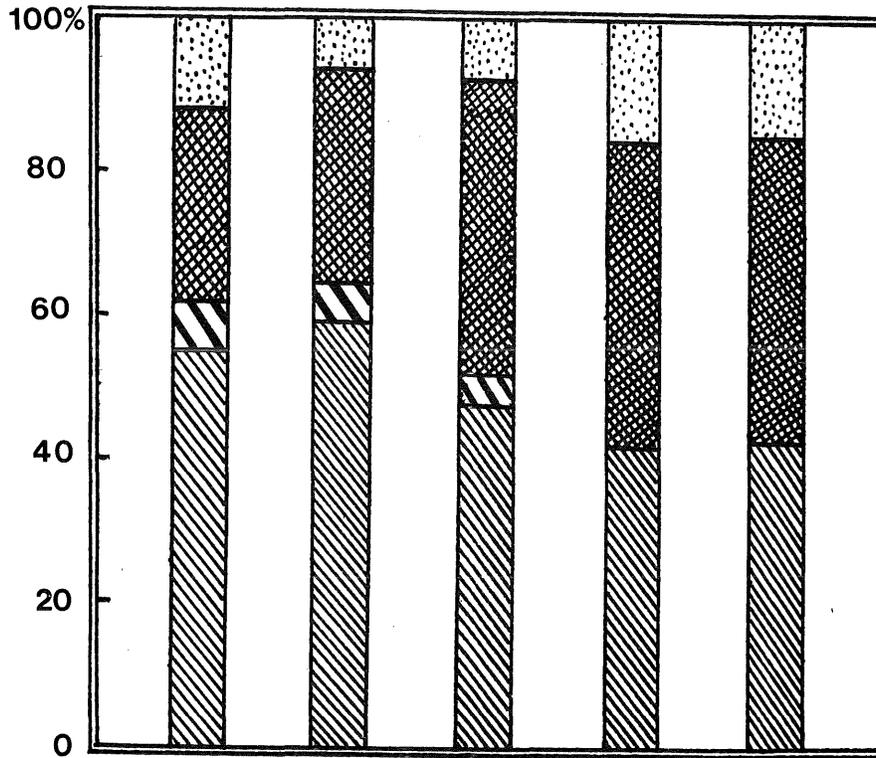
Alternative equity investments, such as real estate and resource funds, produce an inflation hedge that financial assets, such as stocks and particularly bonds, cannot provide. Hard assets can be expected to appreciate in value at least at a rate equal to inflation. Thus, by holding positions in these investments, the value of the total fund can be protected against catastrophic losses in the event of a sustained high inflation. Further, like fixed income assets, alternative equity investments also add diversification to the total portfolio, helping to prevent excessively volatile long-run returns.

BASIC RETIREMENT FUNDS

HISTORICAL ASSET MIX

PERCENT OF MARKET VALUE

FISCAL YEAR END ALLOCATIONS



**Common
Stocks**



**Alt.
Equity
Assets**



Bonds



**Cash
Equivalents**

BASIC RETIREMENT FUNDS

HISTORICAL ASSET MIX

PERCENT OF MARKET VALUE FISCAL YEAR END ALLOCATIONS

| | FISCAL YEAR | | | | |
|-------------------|---------------|---------------|---------------|---------------|---------------|
| | 1984 ----- | 1983 ----- | 1982 ----- | 1981 ----- | 1980 ----- |
| Common Stocks | | | | | |
| \$ Million | 1,696 | 1,872 | 1,037 | 868 | 789 |
| Percent | 56.1 | 59.5 | 47.5 | 42.6 | 43.6 |
| Bonds | | | | | |
| \$ Million | 829 | 970 | 922 | 831 | 734 |
| Percent | 27.4 | 30.8 | 42.2 | 40.8 | 40.6 |
| Cash Equivalents* | | | | | |
| \$ Million | 331 | 188 | 146 | 337 | 285 |
| Percent | 10.9 | 6.0 | 6.7 | 16.6 | 15.8 |
| Real Estate | | | | | |
| \$ Million | 140 | 96 | 62 | --- | --- |
| Percent | 4.6 | 3.1 | 2.8 | --- | --- |
| Resource Funds | | | | | |
| \$ Million | 23 | 19 | 18 | --- | --- |
| Percent | 0.8 | 0.6 | 0.8 | --- | --- |
| Venture Capital | | | | | |
| \$ Million | 4 | --- | --- | --- | --- |
| Percent | 0.2 | --- | --- | --- | --- |
| Total Fund | | | | | |
| \$ Million | 3,023 | 3,145 | 2,185 | 2,036 | 1,808 |
| Percent | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

* Includes cash uncommitted to long-term assets plus cash held by all external managers.

INVESTMENT MANAGEMENT

Historically, the Basic Retirement Funds were managed completely by the SBI's investment staff. However, in conjunction with its asset mix restructuring, the Board chose to move to total external management. The transition from internal to external managers began in March, 1983 with the retention of eleven external common stock managers and was completed this year with the hiring of six fixed income managers. The following section is an overview of the investment management structure adopted for each asset class within the Basic Retirement Funds.

COMMON STOCKS

The SBI utilizes a two-part approach to the management of the Basic Retirement Funds' common stock portfolio, combining a \$1.3 billion core diversified passive portfolio (i.e., an index fund) with \$550 million in non-diversified actively managed portfolios.

An index fund is a well-diversified portfolio of common stocks designed to match the rate of return performance of a predetermined stock market index. The index fund utilized by the SBI tracks the Wilshire 5000, a broad-based equity market indicator composed of all common stocks, publicly traded in the U.S., for which daily prices are available. In effect, the Wilshire 5000 represents virtually the entire domestic common stock market.

The SBI's decision to utilize an index fund is based on the inherent difficulty of actively managing a multi-billion dollar common stock portfolio. Following the Investment Advisory Council's recommendations, the Board has chosen to accept market returns on a substantial portion of the portfolio through the utilization of an index fund. The SBI seeks above-market returns through the active management of the remaining assets.

The SBI has retained eleven aggressive equity managers for the actively managed segment of the common stock portfolio. Each manager is expected to achieve a high single or low double digit real rate of return over a three to five year period. In addition, the managers are expected to produce portfolios within specific risk tolerances to ensure that they complement the core index fund portfolio by maintaining aggressive non-diversified postures. A review of the managers' investment performance is found on pages 21-22. Discussion of the investment styles and portfolio characteristics of each individual manager are contained in Appendix I.

BONDS

During the year, the SBI completed the move of the Basic Retirement Funds to external management with the retention of six managers for the \$700 million bond portfolio. The move to external bond management was designed to incorporate a diversity of investment styles and additional investment techniques in the management of the bond portfolio. The Board sought to retain managers who invest in high quality fixed income securities and who place at least as much emphasis on sector weighting and issue selection decisions as on interest rate anticipation.

In keeping with the objective of utilizing the bond portfolio as a deflation hedge, the managers are restricted regarding the minimum average life of their portfolios. This requirement is designed to prevent the Basic Retirement Funds' total bond portfolio from assuming an excessively short-lived position and thus, severely diluting its deflation hedge capacity. Further, the bond managers are permitted to hold only high quality (BAA or better) fixed income assets. In addition, to avoid extreme variability in total bond portfolio returns, the maximum average life of the managers' portfolios is also constrained.

A discussion of the bond manager selection process can be found on pages 46-48. A review of each manager's investment approach is presented in Appendix I.

CASH EQUIVALENTS

The long-term asset mix of the Basic Retirement Funds does not include an allocation to cash equivalents. Given the long-run objectives of the Funds, a permanent commitment to short-term investments is not appropriate. On the other hand, at any given point it is quite likely that cash reserves will compose five percent or more of the Funds' market value. Cash equivalent holdings are derived from two sources: first, new contributions provided by the retirement funds which have yet to be allocated to a specific long-term asset segment; and second, the external investment managers, who are permitted to hold cash as part of their own individual short-run asset mix strategies.

Cash reserves are invested in a short-term investment fund (STIF) managed by State Street Bank and Trust, the Basic Retirement Funds' master custodian. The STIF is a separate account invested under the same state statutes which guide SBI investment staff's short-term investments.

REAL ESTATE

The SBI has targeted 10%, or \$300 million, of the Basic Retirement Funds for investment in real estate. Under state law, the SBI is authorized to invest in real estate through commingled funds, limited partnerships, and trusts. The SBI does not invest

in real estate through direct investments, separate accounts, or individual transactions. The SBI has adopted a three part program to implement the planned allocation: 30-40% of the real estate portfolio will be invested in open-end diversified commingled funds; 30-40% will be invested in closed-end diversified commingled funds; and, 20-30% will be placed in less diversified, more focused commingled funds.

The SBI has committed \$215 million to five commingled real estate funds designed for pension fund investors. These commingled funds offer broad diversification by property type, age, size, geographic location, and lease structure. Of this \$215 million commitment, the Board has invested a total of \$120 million in three open-end commingled funds managed by the Aetna, Equitable and Prudential Insurance Companies. In 1984, the Board committed an additional \$75 million to the closed-end fund managed by the Rosenberg Real Estate Equity Funds (RREEF) and \$20 million to the closed-end fund managed by the Heitman Advisory Corporation.

During the upcoming year, the Board plans to implement the third phase of the real estate investment program, the selection of less diversified, more focused commingled fund managers. These funds offer the ability to enhance the return earned by the diversified core real estate portfolio, which is expected to earn market returns. Evaluations of potential real estate commingled funds focus on the managers' experience and performance history; organizational structure; personnel; proposed investment strategy; acquisition and disposition processes; property management capabilities; the size of the fund; and, other fund participants. The selection of managers is expected to be completed during the first half of 1985. The screening will be conducted by the investment staff in conjunction with the Investment Advisory Council's Alternative Investment Committee and Evaluation Associates.

VENTURE CAPITAL

The SBI has allocated 2.5%, or \$75 million of the Basic Retirement Funds to investment in venture capital. Under state law, the Board is authorized to invest in venture capital through limited partnerships and corporations. The SBI's venture capital portfolio will be comprised of investments in limited partnerships that are diversified by industry type, stage of corporate development, and location.

During the year, the Board made its first investments in venture capital through the commitment of \$10 million to Norwest Venture Partners and \$25 million to Kohlberg, Kravis and Roberts, a leveraged buyout firm. It is anticipated that approximately \$40 million will be invested in three to five additional partnerships during the first half of 1985. Evaluations of potential venture capital partnerships focus on the managers'

experience and performance history; organizational structure; staff; partnership agreement; investment strategy; portfolio company selection process; investment management; and, fund administration. The screening of potential managers will be conducted by the investment staff in conjunction with the Investment Advisory Council's Alternative Investment Committee and Venture Economics, Inc.

RESOURCE FUNDS

The SBI has allocated 2.5%, or \$75 million, of the Basic Retirement Funds' assets for investment in oil and gas partnerships. The Board invests in partnerships structured specifically for tax-exempt investors. These partnerships concentrate their investments in producing properties and royalty interests that are diversified geographically and/or geologically. Evaluations of potential resource investments focus on the managers' experience and performance history; organizational structure; personnel; proposed investment types; acquisition, management and disposition processes; revenue sharing arrangements; and, assumptions governing return expectations.

The SBI has committed \$52 million in three oil and gas partnerships sponsored by First Reserve and the Apache Corporation. Of this total, \$30 million was committed in 1984 to an investment managed by the Apache Corporation. The SBI was one of twelve institutional investors providing a total of \$200 million to finance offshore production facilities for Apache's joint ventures in the Gulf of Mexico with the Shell Oil Company. It is anticipated that \$30 million will be committed to one to two new oil and gas investments over the next one to two years. All investments will be screened by the investment staff in conjunction with the Investment Advisory Council's Alternative Investment Committee.

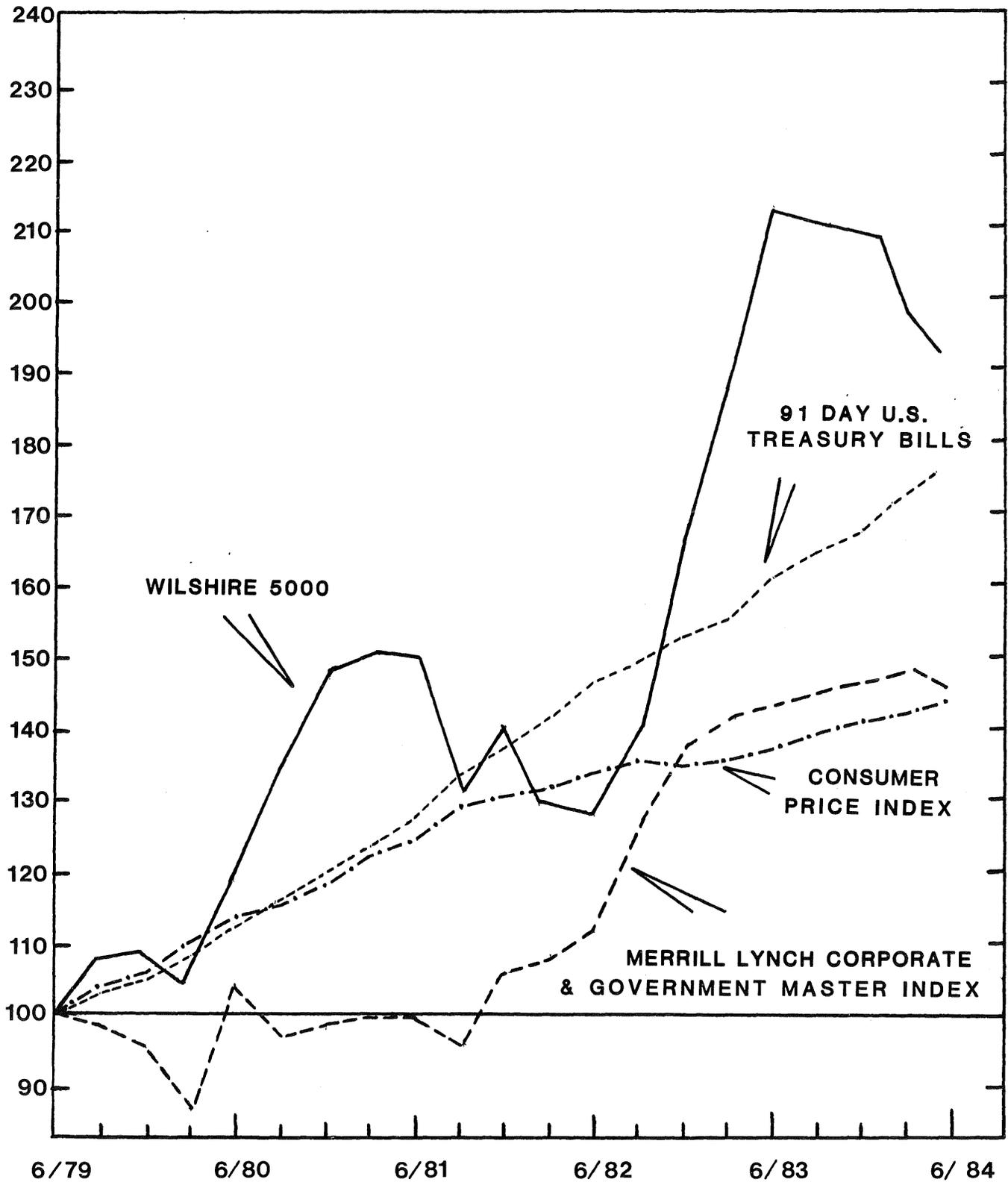
INVESTMENT PERFORMANCE

RISK-RETURN OBJECTIVES

The Board, on the recommendation of the Investment Advisory Council, has adopted performance objectives which are consistent with the needs of the Basic Retirement Funds and realistic in the sense that they are both attainable and measurable. The evaluation of performance outcomes relative to the objectives is an integral part of the SBI's investment management system.

PERFORMANCE OF CAPITAL MARKETS

CUMULATIVE RETURNS



It should be emphasized that performance evaluation must be long-term in scope. Excessive attention to short-run performance is frequently counterproductive, in that it can result in investment strategies which are not in the best interest of either the plan participants or the employers. The SBI's performance evaluation time horizon is approximately three to five years. While performance is measured and reviewed quarterly, the primary objective of this analysis is to identify trends and to control extreme underperformance. Decisions regarding the effectiveness of a particular investment management structure should be made over a considerably longer period.

The Basic Retirement Funds' multiple manager configuration requires that investment performance be evaluated on two distinct levels: the total fund and the individual managers. The use of total fund risk-return targets ensures that long-run strategic decisions which affect the total performance of the Funds are developed and implemented in a manner consistent with the Funds' needs. Risk-return objectives for the individual asset managers are designed to ensure that the managers adhere to their assigned investment roles. In addition, the objectives permit evaluation of the value that the managers add to the investment process.

TOTAL FUND RISK-RETURN OBJECTIVES

To a significant degree, the risk level of the total fund is set implicitly when the long-term asset mix and investment management structure for the fund are determined. Given the adequate funding levels and long-term investment time horizons of the Basic Retirement Funds, the Board, on the advice of the Investment Advisory Council, has targeted an above average risk posture for the Funds. This goal is implemented through the sizable long-term commitment of the Funds' assets to equities and the adoption of an investment management structure which has an aggressive orientation.

The Funds' long-term rate of return performance is evaluated relative to four specific benchmarks. First, based on the Funds' long-term asset mix targets and the historical real returns offered by the various asset classes, the total portfolio is expected to achieve a real rate of return of 5%. Second, the returns produced by the total portfolio are expected to exceed those derived from a composite of asset class market indices. Because comprehensive data is available for only the stock and bond markets, the composite index is weighted 70% stocks, 30% bonds, the same relative proportions as the Basic Retirement Funds' total portfolio. Third, the Funds' portfolio is expected to outperform the median return produced by a representative sample of other tax-exempt balanced funds. Fourth, the return on the Funds' total portfolio should exceed that of its actuarial assumed return of 8%.

INDIVIDUAL MANAGER RISK-RETURN OBJECTIVES

Two primary risk objectives have been established for the Basic Retirement Funds' individual equity managers. The first objective is based on comparisons of the relative market volatility of the managers' equity portfolios. The second objective relates to the diversification level of their equity portfolios. The index fund manager is expected to hold a portfolio whose risk matches that of the equity market. The active equity managers, due to their aggressive management styles, are expected to construct portfolios which are more risky than the market, both in terms of relative market volatility and diversification.

The equity managers' returns are evaluated against two standards. The first benchmark is the performance of the Wilshire 5000, representing the equity market. The index fund manager is expected to closely track the Wilshire 5000's return. The active equity managers, because of their riskier portfolios, are expected to produce returns which exceed that of the Wilshire 5000 by at least two percentage points. Second, the equity managers' performances are expected to exceed those of the median manager from a sample of other equity managers with similar portfolio risk characteristics.

With respect to the bond managers, the risk of their portfolios is constrained in such a way as to ensure that they fulfill their deflation hedge and total fund diversification roles. The bond managers are restricted in terms of the average life (i.e., the durations) of their portfolios and in terms of the quality of their fixed income investments.

The bond managers' return objectives are similar to those set for the equity managers. Their returns are expected to exceed those of the Merrill Lynch Master Bond Index, which represents the performance of the bond market. Further, the bond managers are expected to outperform the median manager from a representative sample of other bond managers with similar risk.

At this time, specific performance objectives have not been established for the alternative investment managers. A lack of comprehensive data on the returns provided by the real estate, resource, and venture capital markets, and the general unavailability of data on the performance of a universe of individual managers within these asset classes precludes effective performance evaluation. In the future, as markets for these assets become more institutionalized, the Board hopes to be able to more fully integrate these assets into its performance analysis.

TOTAL FUND RISK-RETURN PERFORMANCE RESULTS

In terms of total fund risk objectives, the Board continues to make progress toward full implementation of the long-term asset mix targets established for the Basic Retirement Funds. During the fiscal year, the index fund was constructed and external bond managers were hired. Commitments to alternative investments proceeded on schedule. The current overweighting of fixed income assets should decline over the next year as alternative investments continue to be increased and funded by the liquidation of bonds and cash equivalents.

From a total rate of return perspective, fiscal year 1984 was a difficult period for institutional investors. In contrast to fiscal year 1983, when stocks and bonds performed exceptionally well, in 1984 investors became increasingly concerned by the strength of the economic recovery and rising interest rates. The vigorous bull market in stocks, which began in August 1982, peaked in June 1983. Stock prices then began a slow, persistent decline that continued throughout the fiscal year. Bond prices followed an irregular path, but also ended the year down.

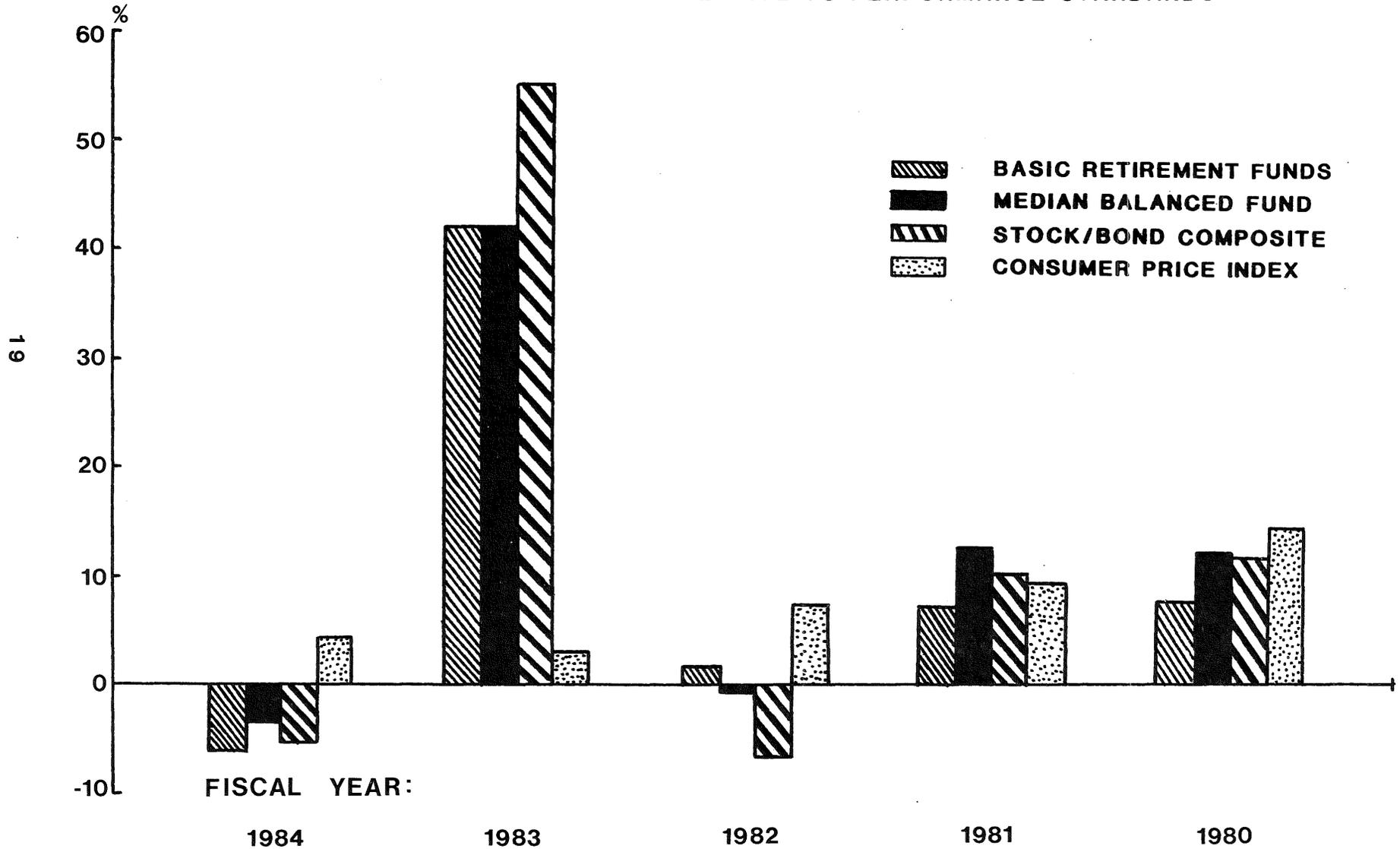
In this inhospitable investment environment, the Basic Retirement Funds' aggregate portfolio generated a -5.5% total rate of return. Relative to established long-run investment objectives, 1984 was a disappointing year for the Basic Retirement Funds. The Funds' failed to meet the real rate of return target as well as the assumed actuarial return. Further, the Funds underperformed the median balanced tax-exempt fund. Finally, the Basic Retirement Funds slightly underperformed the 70%/30% stock-bond composite performance standard. Total fund performance data relative to performance standards, for the most recent fiscal year as well as the last five years, are presented on pages 19-20.

Over the long-term, such total portfolio performance results are clearly unacceptable. However, these poor fiscal year returns must be evaluated in light of two important considerations. First, the Funds' investment structure was in a period of major transition during the year. At the beginning of the year the active equity managers had recently been retained and were in the midst of implementing their investment strategies. In addition, during the year the index fund was constructed and the funding of the alternative investment managers continued. Finally, toward the end of the year, cash flows to the Funds began to be disrupted by the "Rule of 85" (see pages 51-52). The second consideration is that the total portfolio's common stock-oriented asset mix, combined with the smaller capitalization, growth stock emphasis of the active equity managers, was not conducive to satisfactory performance. Fiscal year 1984 was an exceptionally poor period for common stocks, particularly for small, growth company stocks.

BASIC RETIREMENT FUNDS

TOTAL FUND RETURNS

INVESTMENT RETURNS RELATIVE TO PERFORMANCE STANDARDS



BASIC RETIREMENT FUNDS

INVESTMENT RETURNS RELATIVE TO PERFORMANCE STANDARDS

| | FISCAL YEAR | | | | | ANNUALIZED | |
|-------------------------|-------------|------|-------|------|------|------------|-------|
| | 1984 | 1983 | 1982 | 1981 | 1980 | 3 YR. | 5 YR. |
| TOTAL FUND: | | | | | | | |
| (incl. alt. assets)* | -5.5 | 40.5 | 2.0 | 7.1 | 7.5 | 10.7 | 9.3 |
| (excl. alt. assets) | -6.3 | 42.1 | 1.8 | 7.1 | 7.5 | 10.7 | 9.3 |
| Median Balanced Fund** | -2.8 | 42.1 | -0.7 | 12.0 | 11.8 | 11.3 | 11.9 |
| Stock/Bond Composite*** | -5.6 | 54.5 | -7.2 | 10.3 | 11.6 | 10.6 | 10.7 |
| Inflation | 4.3 | 2.5 | 7.1 | 9.6 | 14.3 | 4.6 | 7.5 |
| | | | | | | | |
| EQUITY SEGMENT | | | | | | | |
| Wilshire 5000 | -11.1 | 54.1 | -10.4 | 21.6 | 14.9 | 7.1 | 11.4 |
| | -8.6 | 66.4 | -14.9 | 25.1 | 19.2 | 9.0 | 14.1 |
| | | | | | | | |
| BOND SEGMENT | | | | | | | |
| ML Master Bond Index | 2.2 | 37.4 | 11.9 | -9.6 | -0.5 | 16.3 | 7.2 |
| | 1.7 | 28.9 | 12.3 | -4.2 | 4.1 | 13.7 | 8.0 |

* Alternative equity assets include real estate, venture capital and resource funds

** Wilshire Associates Trust Universe Comparison Service median tax-exempt balanced portfolio

***50/50 Wilshire 5000/Merrill Lynch Master Bond Index Composite through 6-30-81, 70/30 Wilshire 5000/Merrill Lynch Master Bond Index Composite 7-01-81 through 6-30-84

However, the factors discussed above are expected to be transitory. The Basic Retirement Funds' investment management structure changes are largely complete. Further, capital market history would argue against the frequent recurrence of poor common stock environments such as that witnessed in 1984.

INDIVIDUAL MANAGER RISK-RETURN PERFORMANCE RESULTS

For the most part, the external equity managers were successful in meeting their long-term risk objectives during the fiscal year. All of the managers maintained market volatility levels in accordance with prescribed targets. Moreover, the large majority of the equity managers met the SBI's diversification guidelines. Those managers who continuously held overly diversified portfolios have been requested to rectify the situation. Specific portfolio risk data on the individual managers' portfolios are presented on pages 69-71.

The total portfolio returns produced by the individual equity managers were widely dispersed, as shown on page 22. Several of the active equity managers performed well, matching or exceeding the performance of their investment standards, the Wilshire 5000 and the median aggressively managed equity portfolio. On the other hand, the majority of the active equity managers produced poor returns. In aggregate, the active equity managers underperformed the returns of the Wilshire 5000 over the fiscal year, but performed roughly in line with the median manager from a sample of other equity managers with similar risk characteristics.

In general, the active equity managers, like most aggressive equity managers, were hampered by their orientation toward smaller capitalization, high growth, high volatility stocks. These types of stocks corrected more severely in the market downturn than did the slower growth, higher yielding stocks. The managers, in aggregate, remained consistently overweighted in the poorly performing Financial, Technology, and Transportation sectors of the economy and underweighted in the stronger Energy and Utilities sectors. Industry sector concentrations for the individual managers' portfolios are shown on pages 72-74.

The SBI's passive equity manager completed its index fund construction in mid-February. The index fund tightly tracked its target index, the Wilshire 5000, during the remainder of the fiscal year.

The six external bond managers were hired in July, 1984. Their performance will be discussed in the 1985 annual report. During the most recent fiscal year, the bond portfolio was managed solely by internal staff. As shown on page 20, over this period the bond portfolio's return exceeded that of its target, the Merrill Lynch Master Bond Index.

BASIC RETIREMENT FUNDS

EQUITY MANAGER PERFORMANCE

FISCAL YEAR 1984

| Managers | Total Portfolio Returns |
|----------------------------------|----------------------------|
| Fred Alger | - 13.7% |
| Alliance Capital | - 15.5 |
| Beutel Goodman | 1.2 |
| Forstmann Leff | - 9.0 |
| Hellman Jordan | - 8.0 |
| IDS | - 12.3 |
| Investment Advisers | - 7.9 |
| Loomis Sayles | - 20.3 |
| Siebel Capital | - 11.6 |
| Herbert R. Smith | - 19.0 |
| Trustee & Investors | - 23.1 |
| | ----- |
| Total - External Active Managers | - 13.1 |
| Wilshire Associates | NA |
| Performance Standards | |
| | ----- |
| Wilshire 5000 | - 8.6% |
| S&P 500 | - 4.6 |
| TUCS Median Aggressive Manager | - 13.9 |
| Consumer Price Index (Inflation) | 4.3 |

NA - assets under management for less than one year

POST RETIREMENT INVESTMENT FUND

The Post Retirement Investment Fund contains the pension assets of the retired public employees covered by the seven statewide retirement plans (i.e., the Basic Retirement Funds and the Legislative & Survivors Retirement Fund). The assets of the Fund are used to finance annuities paid to retirees. These annuities may be adjusted upwards based on the earnings of the Fund. As of the end of the 1984 fiscal year, the Post Retirement Investment Fund had a market value of \$1.9 billion. As of that date, approximately 45,000 eligible retirees were participants in the Fund.

INVESTMENT OBJECTIVES

The SBI pursues two primary investment goals for the Post Retirement Investment Fund: first, to produce annual earnings sufficient to maintain promised benefits at current levels; second, to generate additional earnings which allow benefits to be increased at a rate which compensates, to some degree, for inflation.

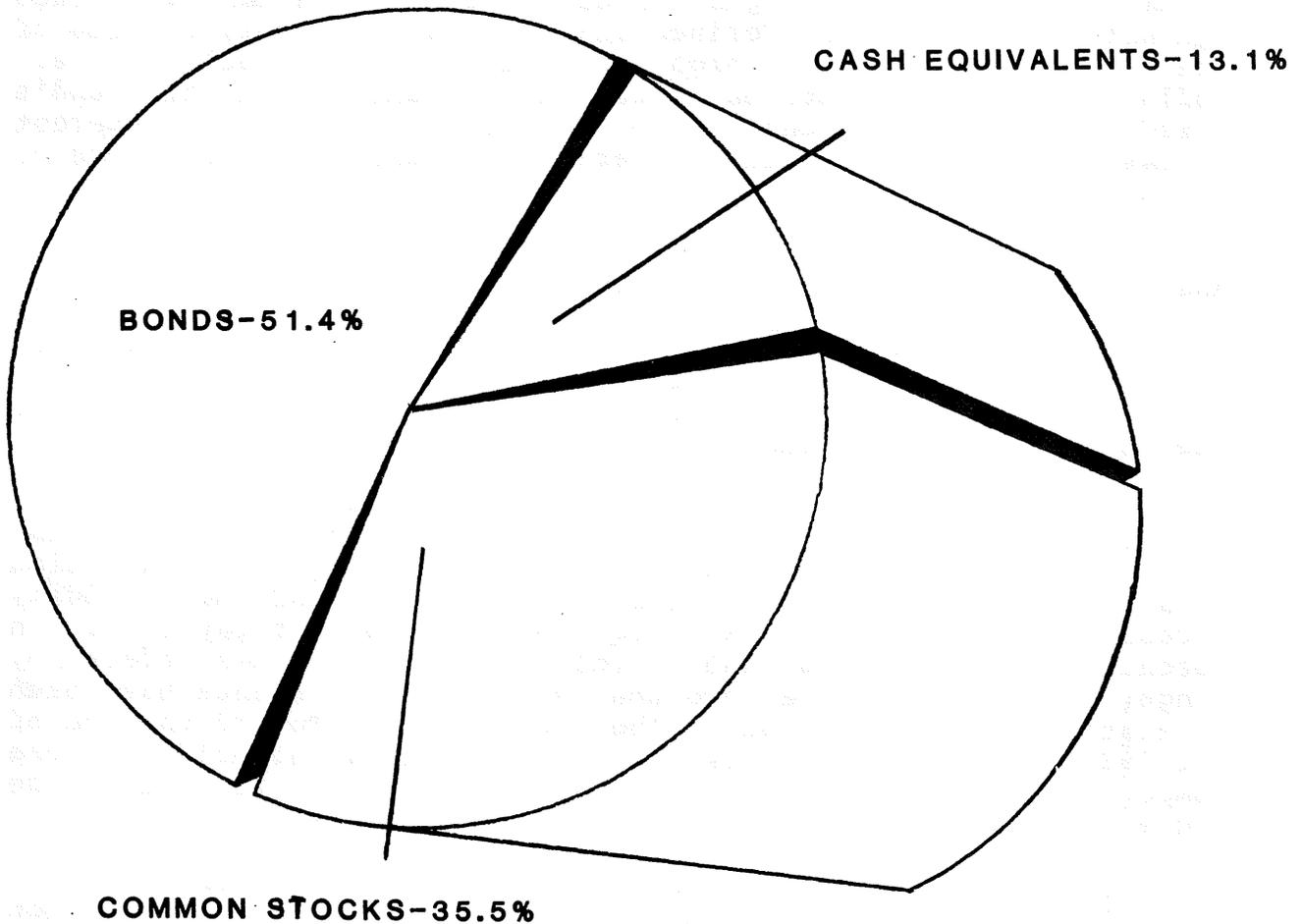
The Board recognizes that the demographics of the Fund and the Fund's legally mandated benefit calculation formula require a completely different investment approach from that utilized for the Basic Retirement Funds. The investment horizon of the retirees is considerably shorter than that of the active employees. With an average remaining life span of approximately eight years, the Fund's participants are much more sensitive to near-term performance volatility of the Fund than are active employees.

The ability of the Post Retirement Investment Fund to maintain current benefit levels and provide future benefit increases is dependent upon its earnings. As specified by statute, earnings for the Fund are defined as interest and dividend income as well as realized equity capital gains (or losses). Unrealized equity capital gains have no direct impact on the benefits paid out to retirees. Unrealized equity capital gains (or losses) are excluded from defined earnings in order to make benefit payments largely insensitive to near-term fluctuations in the capital markets. As a result, the Fund is not oriented toward long-term total rate of return maximization. Rather, the Board attempts to generate a high, consistent stream of earnings for the Fund which will produce increasing benefits over time.

POST RETIREMENT INVESTMENT FUND

1984 FISCAL YEAR END ASSET MIX

PERCENT OF MARKET VALUE



| | <u>\$Million</u> | <u>Percent</u> |
|------------------|------------------|----------------|
| Common Stocks | 657 | 35.5 |
| Bonds | 951 | 51.4 |
| Cash Equivalents | 243 | 13.1 |
| Total | 1,851 | 100.0 |

ASSET ALLOCATION

The asset mix of the Post Retirement Investment Fund is designed to generate the sizable, stable earnings stream referred to in the previous section. The Fund's year-end asset mix, as well as its historical asset allocation data, are presented on pages 26-27.

The majority of the Fund's assets are invested in intermediate to long-term, high quality bonds. Fixed income investments are ideal holdings for the Fund because they produce income flows which are highly predictable and thus can be matched against the Fund's well-defined liabilities. Further, because of the extraordinarily high levels of real (i.e., inflation-adjusted) interest rates in recent years, the Fund's fixed income investments have produced substantial interest income, which has permitted benefit increases well in excess of inflation.

While intermediate to long-term bonds represent the largest asset class in the Post Retirement Investment Fund's portfolio, common stocks also play a significant role. Common stocks provide the Fund with a source of long-run earnings growth not available from fixed income investments. In recent years, realized gains on common stocks have contributed importantly to the large benefit increases.

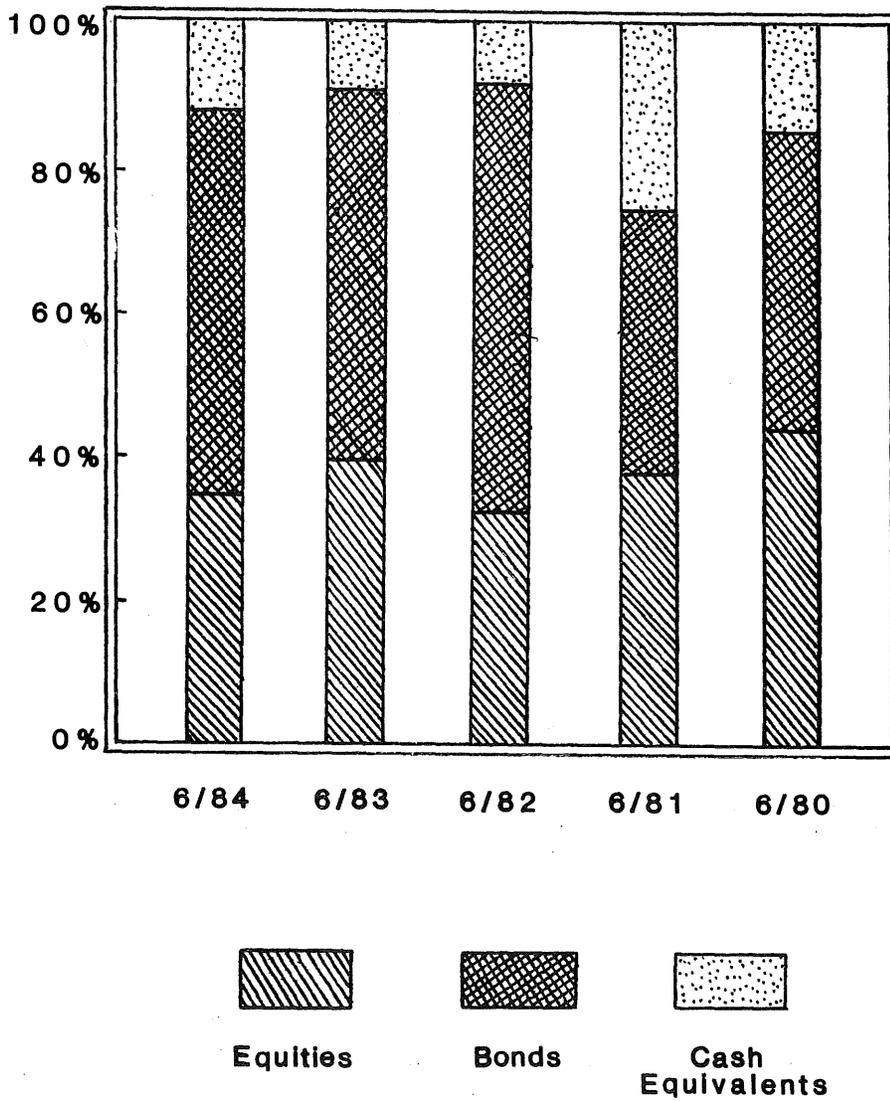
Cash equivalents make up the remainder of the Fund's portfolio. These assets provide the Fund with a certain amount of inflation protection, as their yields are highly inflation sensitive. Further, cash equivalents give the Fund the liquidity necessary to meet withdrawals required for benefit payments. In recent years, given the high levels of interest rates offered by longer-term fixed income investments, cash equivalents have been a relatively small portion of the total fund. Toward the end of the 1984 fiscal year, however, cash equivalent holdings rose temporarily due to an influx of contributions produced by the "Rule of 85" (see pages 51-52).

The Asset Allocation Committee of the Investment Advisory Council is currently reviewing the long-term asset allocation needs of the Post Retirement Investment Fund. The committee may not recommend major shifts in the Fund's asset mix. However, certain investment techniques which will enhance the Fund's ability to produce benefit increases over the long-span are likely to be recommended.

POST RETIREMENT INVESTMENT FUND

HISTORICAL ASSET MIX

PERCENT OF MARKET VALUE
FISCAL YEAR END ALLOCATIONS



POST RETIREMENT INVESTMENT FUND

HISTORICAL ASSET MIX

PERCENT OF MARKET VALUE FISCAL YEAR END ALLOCATIONS

| | FISCAL YEAR | | | | |
|------------------|---------------|---------------|---------------|---------------|---------------|
| | 1984 ----- | 1983 ----- | 1982 ----- | 1981 ----- | 1980 ----- |
| Common Stocks | | | | | |
| \$ Million | 657 | 693 | 382 | 461 | 471 |
| Percent | 35.5 | 39.5 | 32.7 | 37.3 | 43.2 |
| Bonds | | | | | |
| \$ Million | 951 | 903 | 692 | 475 | 455 |
| Percent | 51.4 | 51.5 | 59.3 | 38.4 | 41.7 |
| Cash Equivalents | | | | | |
| \$ Million | 243 | 157 | 93 | 301 | 165 |
| Percent | 13.1 | 9.0 | 8.0 | 24.3 | 15.1 |
| Total Fund | | | | | |
| \$ Million | 1,851 | 1,753 | 1,167 | 1,237 | 1,091 |
| Percent | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

INVESTMENT MANAGEMENT

The Post Retirement Investment Fund is managed solely by the SBI's investment staff. This investment management structure is employed for two primary reasons. First, the investment objectives of the Fund present a situation that most money management firms are ill-equipped to handle. Money managers tend to focus on maximizing total returns. However, as was discussed previously, this approach is not suited to the particular investment requirements of the Fund. The Fund's managers must be concerned with generating current income and avoiding realized losses on portfolio holdings. These are investment strategies that most managers are not comfortable implementing. Second, the investment staff has been viewed as more closely attuned to the risk-return preferences of the retirees.

COMMON STOCKS

The focus of the investment staff's common stock management is on long-term, value-based stock selection. The strategies implemented by the investment staff are less aggressive than those utilized by the Basic Retirement Funds' external equity managers. As the only common stock manager for the Post Retirement Investment Fund, the investment staff is cognizant of the diversification requirements of the Fund's stock portfolio. Further, staff is aware of the Fund's need to avoid investment strategies which generate high portfolio turnover and which may at times result in sizable realized losses.

The investment staff attempts to identify stocks that have attractive expected returns, yet do not possess significantly high levels of market volatility. Recommendations generated by quantitative valuation models are the primary source of investment candidates. In addition, selected recommendations of the Board's external equity managers are utilized if they fit the investment goals of the Fund. Based upon the recommendations from these two sources, the Fund's equity portfolio is constructed within specific portfolio diversification and turnover guidelines.

BONDS

As discussed, interest income from bonds is the Post Retirement Investment Fund's primary source of earnings to finance benefits payments. The investment staff utilizes primarily a buy-and-hold approach to bond management, concentrating on high quality issues with adequate call protection to lock in current high yields.

In recent years, the Post Retirement Investment Fund's bond portfolio has produced income well above that needed to fund the promised level of benefits. The excess interest earnings,

combined with realized capital gains from the common stock portfolio, have been used to fund substantial benefit increases.

INVESTMENT PERFORMANCE

RISK-RETURN OBJECTIVES

Because of its focus on generating current income, the risk composition of the Post Retirement Fund's investment portfolio is conservatively structured. As noted, the majority of the Fund's assets are invested in high quality bonds. Further, the Fund's equity portfolio maintains a relatively high level of diversification and a moderate level of volatility.

In terms of long-term rate of return objectives, the Fund's investment results are compared to three standards. First, the Fund is required to generate a level of interest and dividend income, combined with realized equity capital gains, which meets the Fund's actuarial assumptions. Second, the Fund is expected to produce additional earnings sufficient to allow benefits to increase at a rate at least one-half of the inflation rate. Third, the Fund's total rate of return is expected to exceed that of the performance of a composite index weighted 40% stocks, 60% bonds. These weightings represent the Fund's current long-term asset mix targets.

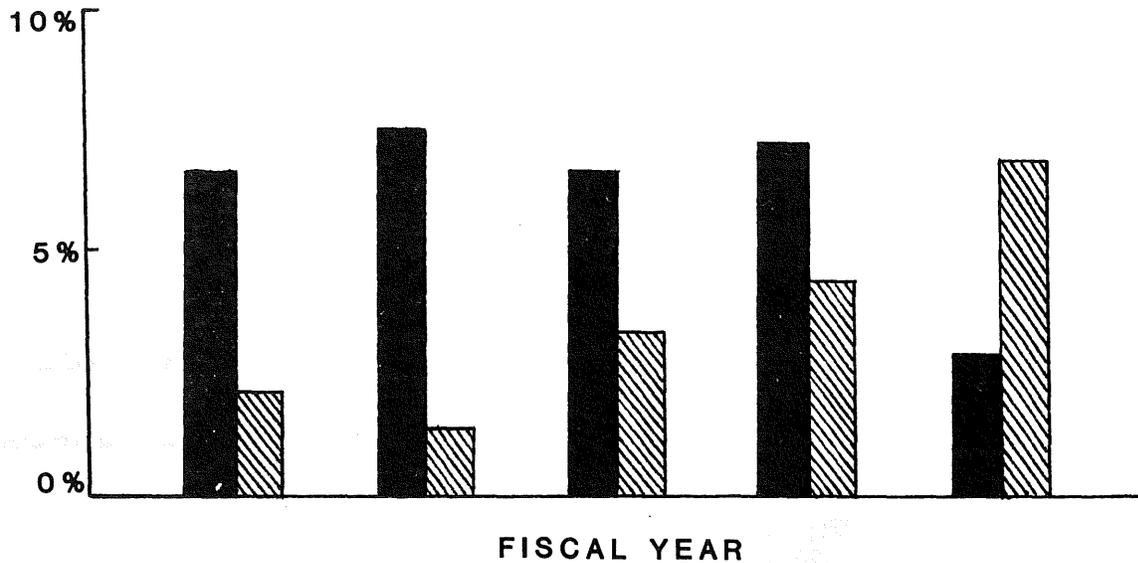
RISK-RETURN PERFORMANCE RESULTS

The Post Retirement Investment Fund's total portfolio met all prescribed risk targets during the fiscal year. The Fund was approximately 60% invested in fixed income assets, with an average quality rating of AAA. The Fund's equity portfolio maintained a slightly above average level of relative market volatility and was consistently well-diversified.

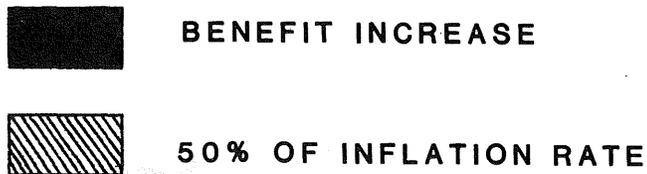
Investment returns for the 1984 fiscal year met all established performance standards. The Fund generated income and realized equity capital gains in excess of the amount needed to fund promised benefits. The surplus earnings will permit a benefit increase of approximately 7.3%, considerably above the fiscal year 1984 inflation rate of 4.4%. Finally, the Fund's total return outperformed that of its composite performance standard, largely due to the relatively strong performance of the Fund's bond segment. Post Retirement Investment Fund performance data, for the most recent fiscal year as well as the last five years, are presented on pages 30-32.

POST RETIREMENT INVESTMENT FUND

BENEFIT INCREASES VERSUS INFLATION



1984 1983 1982 1981 1980

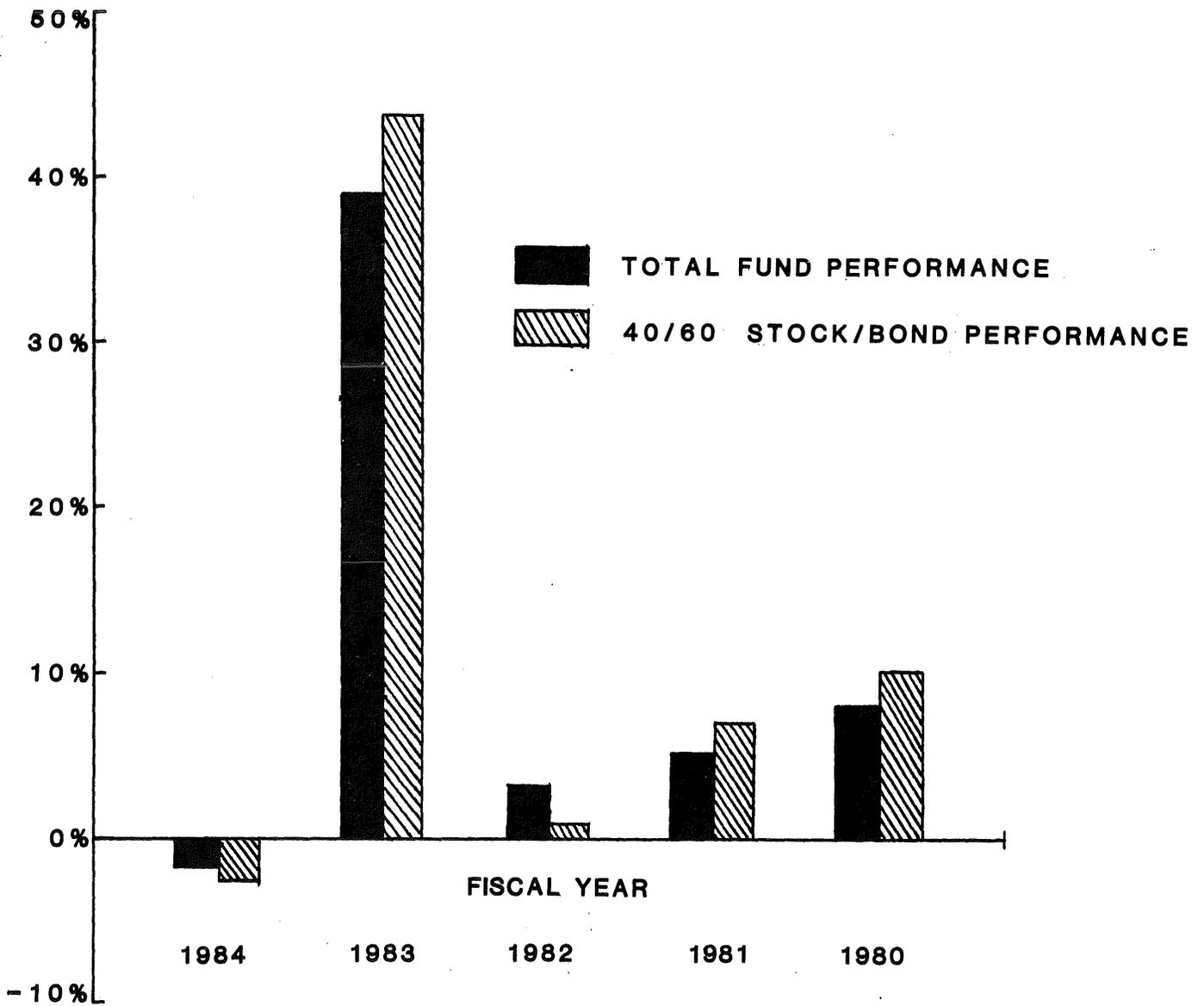


| | FISCAL YEAR | | | | |
|-----------------------|-------------|------|------|------|------|
| | 1984 | 1983 | 1982 | 1981 | 1980 |
| Benefit Increase | 6.9 | 7.5 | 6.9 | 7.4 | 3.2 |
| 50% of Inflation Rate | 2.2 | 1.3 | 3.6 | 4.8 | 7.2 |

POST RETIREMENT INVESTMENT FUND

TOTAL FUND RETURNS

INVESTMENT RETURNS RELATIVE TO PERFORMANCE STANDARDS



POST RETIREMENT INVESTMENT FUND

INVESTMENT RETURNS RELATIVE TO PERFORMANCE STANDARDS

| | FISCAL YEAR | | | | | ANNUALIZED | |
|-----------------------|-------------|------|-------|-------|------|------------|-------|
| | 1984 | 1983 | 1982 | 1981 | 1980 | 3 YR. | 5 YR. |
| | ---- | ---- | ---- | ---- | ---- | ----- | ----- |
| TOTAL FUND | -1.7 | 38.4 | 3.2 | 5.5 | 7.9 | 12.0 | 9.8 |
| Stock/Bond Composite* | -2.5 | 43.3 | 0.8 | 7.1 | 10.0 | 12.1 | 10.7 |
| EQUITY SEGMENT | -9.3 | 54.9 | - 9.8 | 18.5 | 14.3 | 8.2 | 11.4 |
| Wilshire 5000 | -8.6 | 66.4 | -14.9 | 25.1 | 19.2 | 9.0 | 14.1 |
| BOND SEGMENT | 2.8 | 34.0 | 10.2 | -10.0 | -0.2 | 15.0 | 6.4 |
| ML Master Bond Index | 1.7 | 28.9 | 12.3 | - 4.2 | 4.1 | 13.7 | 8.0 |

*40/60 Wilshire 5000/Merrill Lynch Master Bond Index Composite

MINNESOTA SUPPLEMENTAL INVESTMENT FUND

The \$221 million Minnesota Supplemental Investment Fund contains the assets of a number of retirement plans, supplemental benefit programs, and deferred compensation plans. Participants include police and firefighters, teachers, unclassified state employees, and employees of various other units of government. The State's deferred compensation plan and teachers' supplemental retirement plan have the largest participation in the Minnesota Supplemental Investment Fund at \$71 million and \$53 million, respectively.

Participants in the Supplemental Investment Fund have three different investment options: the Income Share Account, the Growth Share Account, or one of two debt-related accounts, the Fixed Return Account for individuals or the Bond Account for retirement plans. Most participants have the freedom to select the allocation of their investments among accounts that is appropriate for their needs, within the statutory requirements and rules established by the individual units of government.

INCOME SHARE ACCOUNT

Similar to the Basic Retirement Funds, the primary investment objective of the \$111 million Income Share Account is to achieve long-term high real rates of return while hedging against disastrous financial environments and protecting against excessively volatile long-term performance. To achieve these objectives, the Income Share Account is invested in a balanced portfolio of common stocks and fixed income securities. As discussed in the Basic Retirement Funds section of this report, common stocks provide the potential for significant long-term capital appreciation, while bonds provide a hedge against deflation and the diversification needed to limit excessive portfolio return volatility. The year-end asset mix and historical asset allocation data for the Income Share Account are presented on page 41.

Participation in the Income Share Account is structured similar to a mutual fund. The participants own shares in the Account which are priced monthly on a market value basis. Interest and dividend income is reinvested. Participants' investment returns are measured by changes in the Account's unit value, which in turn is a function of the income and capital appreciation (or depreciation) generated by the securities held

by the Account. Participants may buy or sell shares in the Account based upon the most recently calculated unit value.

The SBI's investment staff manages the entire fixed income component and the majority of the common stock assets. In March, 1983, the Board retained BMI Capital Management to manage approximately one-fifth of the Income Share Account common stock portfolio. The Board believes that the aggressive style of equity management utilized by BMI Capital provides an investment approach that it is not feasible for investment staff to replicate. However, due to the balanced investment goals of the Account, the percentage of the total portfolio assigned to aggressive external equity management has been kept at a relatively low level.

Similar to other SBI funds which utilize a multi-manager investment structure, the performance of the Income Share Account is evaluated on two levels: the total fund and the individual manager.

The total fund performance of the Income Share Account is expected to exceed the returns of a composite of market indices weighted 50% Wilshire 5000, 50% Merrill Lynch Master Bond Index. The composite's weightings represent the long-term asset mix targets established for the Income Share Account. The total fund returns are also expected to surpass the median performance of a sample of other balanced tax-exempt funds.

On the individual manager level, the performance of the Income Share Account's external and internal equity managers is expected to exceed the returns produced by the Wilshire 5000 as well as the median managers from representative samples of other equity managers with similar investment characteristics. BMI Capital is a more aggressive manager than the Income Share Account's investment staff manager. Therefore, BMI Capital's performance is compared against a sample of managers whose investment style is similarly more aggressive than the managers against which the investment staff's performance is compared. The internal bond manager is targeted to outperform both the Merrill Lynch Master Bond Index and the median performance among bond managers of similar investment risk.

During fiscal year 1984, the Income Share Account underperformed its performance objectives on a total fund level, due largely to the performance of its equity portfolio. The Account's total fund returns failed to surpass those of both the composite index and the median tax-exempt balanced fund manager. On the individual manager level, performance results were mixed. BMI Capital significantly underperformed both the Wilshire 5000 and the median manager from a sample of similar risk equity managers. The investment staff equity portfolio, on the other hand, marginally outperformed the Wilshire 5000, but slightly underperformed the median manager from a sample of similar risk

equity managers. The Account's internal bond manager outperformed the Merrill Lynch Master Bond Index and approximately matched that of the median manager from a sample of bond managers of similar risk. Individual manager and total fund performance data are presented on pages 39 and 42, respectively.

GROWTH SHARE ACCOUNT

The \$54 million Growth Share Account is invested to provide participants with above-average capital appreciation. The Account is authorized to hold up to 100% of its market value in common stock investments. At times, cash equivalents may make up a large portion of the total portfolio, depending on the market outlook of the Account's managers. However, to achieve its investment objective, over the long-run the Account will hold a large, permanent equity commitment. The year-end asset mix and historical asset allocation data for the Account are presented on page 41. Because of its sizable common stock commitment, the Growth Share Account's returns likely will be more variable than those of the Income Share Account. However, it is anticipated that higher returns from the Growth Share Account's investments will compensate for the additional risk undertaken.

Participation in the Growth Share Account is structured in precisely the same manner as the Income Share Account.

Management of the Growth Share Account is split equally between external and internal management. Waddell & Reed was initially funded in March, 1983 and received additional funding in January, 1984. Waddell & Reed employs an aggressive equity management style which is complemented by investment staff's long-term value oriented investment approach.

The total fund performance of the Account is expected to exceed that of the Wilshire 5000. This standard represents the Account's long-run full allocation to common stocks. The total portfolio is also expected to perform above the median of a representative sample of tax-exempt, equity-only managers.

The Account's individual managers are likewise expected to outperform the Wilshire 5000. In addition, the external and internal managers are expected to produce returns that exceed those of the median managers from representative samples of other similar risk equity managers.

During fiscal year 1984, the Growth Share Account outperformed both of its total fund performance standards. On the individual manager level, Waddell & Reed performed extremely well, far outperforming the Wilshire 5000 and the median manager from a sample of equity managers of similar risk. Investment staff, however, underperformed both the Wilshire 5000 and the

median manager from a sample of similar risk equity managers. Individual manager and total fund performance data are presented on pages 39 and 42, respectively.

FIXED RETURN ACCOUNT

The Fixed Return Account is a \$59 million fund whose investment objective is to generate high levels of current income by investing in quality debt securities. The Account's sole source of earnings is the interest income produced by its portfolio of securities. Participants experience minimal investment risk because all portfolio assets are held to maturity. Thus, there is little likelihood that the Account will realize capital losses (or gains) as a result of changes in the market value of the Account's assets.

Participation in the Fixed Return Account is structured similar to a money market mutual fund. The Account maintains a uniform value per share. Annual income is used to purchase additional shares in the Account. As currently established, the Account permits participation only by individual public employees as part of their authorized investment options. (Various retirement associations participate in a similar style of investment management through the Bond Account described below.)

The Fixed Return Account is managed entirely by investment staff. To maximize yields, yet maintain adequate liquidity for the Account, the investment staff maintains approximately a two-to-three year maturity target for new investments.

BOND ACCOUNT

The \$3 million Bond Account was established by the 1981 Legislature to provide a separate fixed return investment vehicle for police and fire fighter retirement organizations. Similar to the Fixed Return Account, the Bond Account is designed to offer a low risk investment option which earns a high level of current income from quality debt securities. Like the Fixed Return Account, the Bond Account is managed solely by investment staff. However, the average life of the Bond Account's investments is longer than that of the Fixed Return Account.

Participation in the Bond Account is offered to qualified retirement organizations only. Individuals do not participate in this Account. The Account is designed to offer participating organizations a fixed rate of return for a specified period of time. The length of time this guarantee is in effect depends on the average maturity of the Account's investments, usually in the range of six-to-eight years.

Contributions to the Bond Account made by the participating retirement organizations are grouped by year, referred to as a class year. Depending on the available fixed income investment opportunities available at the initiation of a class year, a rate of return is guaranteed on the contributions made by the participants in the class year. This guarantee is in effect for the life of the class. If a retirement organization should chose to withdraw from the Bond Account, all unexpired class years will have their shares redeemed at market value.

MINNESOTA VARIABLE ANNUITY FUND

The Minnesota Variable Annuity Fund is an investment option formerly offered to members of the Teachers' Retirement Association. The Fund was designed as an alternative to the regular Teachers' retirement plan. The opportunity to enroll in the Fund is no longer offered to new Association members, although members enrolled prior to the cutoff date may retain their participation in the Fund and continue to make contributions.

The investment objective of the Fund is quite similar to that of the Minnesota Supplemental Investment Fund's Growth Share Account. The purpose of the Fund is to provide participants with above average long-run capital appreciation on their investments. This investment objective necessitates a large long-term commitment to common stocks. Like the Growth Share Account, the Minnesota Variable Annuity Fund is authorized to hold up to 100% of its market value in common stocks. However, the Fund's portfolio may contain a considerable cash equivalent component at any given time, depending on the near-term investment strategies of its managers. The year-end asset mix and historical asset allocation data for the Fund are presented on page 41.

Management of the Minnesota Variable Annuity Fund is split equally between external and internal investment managers. Norwest Bank Minneapolis and Lieber & Company offer Fund participants an aggressive equity approach. Investment staff utilizes a long-term value oriented investment style. Both external managers were funded in March, 1983. Lieber & Company received additional funding in January, 1984. Norwest Bank received additional funding in April, 1984.

Because of the Fund's 100% common stock long-term asset mix target, the Fund's total performance is expected to surpass that of the Wilshire 5000. Further, the Fund's total portfolio returns are expected to exceed those of the median manager within a representative sample of tax-exempt equity-only managers.

The Fund's individual managers are expected to outperform the Wilshire 5000 and the median managers from representative samples of similar risk managers.

During the 1984 fiscal year, the Variable Annuity Fund underperformed both of its total fund performance standards. On the individual fund level, Lieber & Company approximately matched the Wilshire 5000's return and outperformed the median manager from a sample of similar risk equity managers. Norwest Bank and internal staff, on the other hand, underperformed both performance standards. Individual manager and total fund performance data are presented on pages 39 and 42, respectively.

MULTI-MANAGER FUNDS

EQUITY MANAGER PERFORMANCE

FISCAL YEAR 1984

| | Total Portfolio Returns ----- |
|---|-------------------------------------|
| Income Share Account | |
| BMI Capital | -23.8% |
| Internal Manager | -8.4 |
| Growth Share Account | |
| Waddell & Reed | -10.8 |
| Internal Manager | -13.1 |
| Minnesota Variable Annuity Fund | |
| Norwest Bank Minneapolis | -16.1 |
| Lieber & Company | - 8.6 |
| Internal Manager | -13.4 |
| Performance Standards ----- | |
| Wilshire 5000 | - 8.6% |
| S&P 500 | - 4.6 |
| TUCS Median Aggressive Equity Manager | -13.9 |
| TUCS Median Diversified Equity Manager | - 7.8 |
| Consumer Price Index (Inflation) | 4.3 |

PERMANENT SCHOOL FUND

The \$277 million Permanent School Fund is a trust created by the Minnesota Constitution for the benefit of Minnesota schools. Income derived from the investment of the Permanent School Fund is annually distributed to school districts throughout the state.

The primary investment objective of the Fund is to earn a high level of income while limiting the volatility of total portfolio returns. Only interest and dividend income and realized equity capital gains may be paid out to schools. Until the recent passage of a Constitutional Amendment, the State Constitution contained specific restrictions on the Fund's investment, including a 20% maximum limit on corporate stocks and a 40% maximum limit on corporate bonds. To achieve its objectives within these Constitutional restrictions, most of the Permanent School Fund has been invested in high quality fixed income securities, primarily of U.S. Government and Agency issues. The remaining assets have been invested in common stocks. The year-end asset mix and historical asset allocation data for the Permanent School Fund are presented on page 41.

The enacted amendment now permits the Permanent School Fund to be invested under the same restrictions which govern the retirement funds. With the passage of the amendment, it is likely that the asset mix of the Fund, as well as the composition of its investments, will be altered. It is anticipated that the Fund's new investment authority will result in a higher level of income.

Similar to the other yield-oriented funds, such as the Post Retirement Fund and Fixed Return Account, the Permanent School Fund is invested entirely by the SBI investment staff.

The total fund performance of the Permanent School Fund is expected to exceed the returns of a composite of market indices weighted 20% Wilshire 5000, 80% Merrill Lynch Master Bond Index. The composite weightings represent the long-term asset mix targets established for the Permanent School Fund. During the fiscal year 1984, this performance standard was exceeded, as shown on page 42.

RETIREMENT AND TRUST FUNDS

HISTORICAL ASSET MIX

PERCENT OF MARKET VALUE FISCAL YEAR END ALLOCATIONS

| | 1984 | | 1983 | | 1982 | | 1981 | | 1980 | |
|--|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|
| | \$ | Percent |
| | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Income Share Account | | | | | | | | | | |
| Common Stocks | 61 | 55.0 | 70 | 61.4 | 37 | 46.8 | 33 | 42.9 | 29 | 41.4 |
| Bonds | 40 | 36.0 | 37 | 32.5 | 33 | 41.8 | 34 | 44.1 | 30 | 42.9 |
| Cash Equivalents | 10 | 9.0 | 7 | 6.1 | 9 | 11.4 | 10 | 13.0 | 11 | 15.7 |
| Total | 111 | 100.0 | 114 | 100.0 | 79 | 100.0 | 77 | 100.0 | 70 | 100.0 |
| Growth Share Account | | | | | | | | | | |
| Stocks | 27 | 50.0 | 46 | 79.3 | 32 | 80.0 | 27 | 69.2 | 25 | 80.7 |
| Bonds | 0 | 0.0 | 0 | 0.0 | 1 | 2.5 | 0 | 0.0 | 0 | 0.0 |
| Cash Equivalents | 27 | 50.0 | 12 | 20.7 | 7 | 17.5 | 12 | 30.8 | 6 | 19.3 |
| Total | 54 | 100.0 | 58 | 100.0 | 40 | 100.0 | 39 | 100.0 | 31 | 100.0 |
| Fixed Return Account | | | | | | | | | | |
| Bonds | 45 | 85.5 | 40 | 89.4 | 22 | 67.0 | 16 | 68.0 | 16 | 84.2 |
| Cash Equivalents | 8 | 14.5 | 5 | 10.6 | 10 | 33.0 | 8 | 32.0 | 3 | 16.8 |
| Total | 53 | 100.0 | 45 | 100.0 | 32 | 100.0 | 24 | 100.0 | 19 | 100.0 |
| Bond Account | | | | | | | | | | |
| Bonds | 3 | 100.0 | 2 | 100.0 | 1 | 100.0 | -- | ---- | -- | ---- |
| Cash Equivalents | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | -- | ---- | -- | ---- |
| Total | 3 | 100.0 | 2 | 100.0 | 1 | 100.0 | | | | |
| Mn Variable Annuity Fund | | | | | | | | | | |
| Stocks | 83 | 86.5 | 87 | 81.3 | 57 | 76.0 | 48 | 62.3 | 47 | 70.2 |
| Bonds | 5 | 5.2 | 5 | 4.7 | 12 | 16.0 | 9 | 11.7 | 11 | 16.4 |
| Cash Equivalents | 8 | 8.3 | 15 | 14.0 | 6 | 8.0 | 20 | 26.0 | 9 | 13.4 |
| Total | 96 | 100.0 | 107 | 100.0 | 75 | 100.0 | 77 | 100.0 | 67 | 100.0 |
| Permanent School Fund (at book value) | | | | | | | | | | |
| Stocks | 49 | 14.7 | 46 | 14.6 | 53 | 17.3 | 50 | 17.0 | 53 | 19.1 |
| Bonds | 232 | 69.5 | 235 | 74.6 | 220 | 71.9 | 223 | 75.9 | 215 | 77.6 |
| Cash Equivalents | 53 | 15.8 | 34 | 10.8 | 33 | 10.8 | 21 | 7.1 | 9 | 3.3 |
| Total | 334 | 100.0 | 315 | 100.0 | 306 | 100.0 | 294 | 100.0 | 277 | 100.0 |

RETIREMENT AND TRUST FUNDS

INVESTMENT RETURNS RELATIVE TO PERFORMANCE STANDARDS

| | FISCAL YEAR | | | | | ANNUALIZED | |
|--|-------------|-------|-------|-------|-------|------------|-------|
| | 1984 | 1983 | 1982 | 1981 | 1980 | 3 YR. | 5 YR. |
| | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| INCOME SHARE ACCOUNT | | | | | | | |
| TOTAL FUND | -4.4 | 39.8 | 3.7 | 6.2 | 8.0 | 11.5 | 9.7 |
| 50/50 Stock/Bond Composite | -3.6 | 47.0 | -3.4 | 10.3 | 11.6 | 11.0 | 11.0 |
| EQUITY SEGMENT | -11.0 | 53.7 | -5.1 | 20.1 | 14.8 | 9.1 | 12.3 |
| Wilshire 5000 | -8.6 | 66.4 | -14.9 | 25.1 | 19.2 | 9.0 | 14.1 |
| BOND SEGMENT | 2.3 | 36.2 | 12.1 | -9.2 | -1.7 | 16.0 | 6.9 |
| M.L. Master Bond Index | 1.7 | 28.9 | 12.3 | -4.2 | 4.1 | 13.7 | 8.0 |
| GROWTH SHARE ACCOUNT | | | | | | | |
| TOTAL FUND | -7.5 | 42.7 | -4.2 | 20.7 | 14.5 | 8.1 | 11.8 |
| Wilshire 5000 | -8.6 | 66.4 | -14.9 | 25.1 | 19.2 | 9.0 | 14.1 |
| Median Equity-Only Fund | -9.5 | 64.7 | -13.0 | 23.1 | 18.3 | 9.8 | 14.1 |
| EQUITY SEGMENT | -17.9 | 56.7 | -9.4 | 21.9 | 14.8 | 5.2 | 10.3 |
| Wilshire 5000 | -8.6 | 66.4 | -14.9 | 25.1 | 19.2 | 9.0 | 14.1 |
| MINNESOTA VARIABLE ANNUITY FUND | | | | | | | |
| TOTAL FUND | -9.8 | 44.2 | -1.9 | 16.4 | 11.8 | 8.4 | 10.7 |
| Wilshire 5000 | -8.6 | 66.4 | -14.9 | 25.1 | 19.2 | 9.0 | 14.1 |
| Median Equity-Only Fund | -9.5 | 64.7 | -13.0 | 23.1 | 18.3 | 9.8 | 14.1 |
| EQUITY SEGMENT | -14.1 | 55.8 | -7.6 | 22.1 | 15.0 | 7.3 | 11.7 |
| Wilshire 5000 | -8.6 | 66.4 | -14.9 | 25.1 | 19.2 | 9.0 | 14.1 |
| PERMANENT SCHOOL FUND | | | | | | | |
| TOTAL FUND | 1.0 | 34.6 | 8.0 | -2.5 | 5.3 | 13.7 | 8.5 |
| 20/80 Stock/Bond Composite | -0.4 | 35.8 | 6.6 | 1.4 | 7.0 | 12.9 | 9.4 |
| EQUITY SEGMENT | -6.6 | 54.2 | -9.1 | 17.9 | 13.3 | 9.4 | 11.9 |
| Wilshire 5000 | -8.6 | 66.4 | -14.9 | 25.1 | 19.2 | 9.0 | 14.1 |
| BOND SEGMENT | 1.4 | 33.7 | 13.6 | -10.4 | 1.6 | 15.5 | 7.0 |
| M.L. Master Bond Index | 1.7 | 28.9 | 12.3 | -4.2 | 4.1 | 13.7 | 8.0 |

STATE CASH ACCOUNTS

The \$1.5 billion cash assets of State agency accounts, trust funds, and retirement funds are invested to provide a high level of current income. These assets are invested in highly liquid, quality securities, which mature within at least 3 years. All cash investments are managed by the SBI investment staff. Short term investments include U.S. Treasury and Agency issues, repurchase agreements, bankers acceptances, and certificates of deposit. The maturity structure of each individual account's portfolio depends on the cash flow needs of the respective account. The largest short-term accounts are the \$850 million Invested Treasurers Cash; the \$350 million Highway Funds; and the \$200 million Debt Service Account. During the last fiscal year, short term transactions exceeded \$68.2 billion.

As part of the cash management program, the SBI administers a securities lending program in which U.S. Treasury and Government Agency securities held by the SBI are loaned to banks and government security dealers for a daily fee. These loans are fully collateralized. The Securities Lending Program has generated approximately \$1 million per year in additional income for its accounts.

The SBI also manages a certificate of deposit (CD) program in which it purchases CD's from Minnesota banks and savings and loan institutions. The Board receives a market rate of return on these investments, utilizing the average secondary CD market rate quoted by the New York Federal Reserve Bank. All investments are fully insured by the Federal Deposit Insurance Corporation or Federal Savings and Loan Insurance Corporation. The Minnesota Certificate of Deposit program provides a reliable source of capital to all Minnesota financial institutions, regardless of size, many of which do not have access to the national CD market. The SBI designed the loan process so that no single institution is favored in the allocation of assets. Since it began in 1980, the CD program has loaned over \$700 million to 365 financial institutions throughout the state.

1984 MAJOR DEVELOPMENTS

INDEX FUND CONSTRUCTION

Following the adoption of the asset allocation recommendations of the Investment Advisory Council's Asset Mix Committee, the SBI decided to invest a sizable portion of the Basic Retirement Funds' common stock portfolio in a passively managed index fund. These recommendations called for a long-term commitment of 60% of the Basic Retirement Funds' assets to common stocks, split one-third/two-thirds between active and passive management, respectively. The active external equity managers were funded in early 1983. The funding of the index fund in late 1983 represented the second stage of the SBI's move to complete external management of the Basic Retirement Funds.

An equity index fund is a portfolio designed to match the performance of the stock market. The Board believes that an index fund can provide a large pension plan, such as the Basic Retirement Funds, with many important investment advantages, including low management costs and the ability to absorb sizable assets. Most importantly, an index fund provides an efficient means of managing total portfolio risk and return. The two-thirds of the Basic Retirement Funds' common stock assets in the index fund serve as a diversified "core" portfolio, designed to complement the highly non-diversified investment styles of the Board's active equity managers. The index fund provides the total equity portfolio with adequate diversification, permitting the active managers to focus on aggressive value-added management. That is, the index fund protects against extreme variations in equity portfolio performance, allowing the active managers the opportunity to add incremental value over the long run through concentrated sector and stock selection decisions.

Many index funds use the S&P 500 as a target index. However, the case can be made that the S&P 500 is not sufficiently representative of the overall stock market. The S&P 500 tends to be concentrated in many of the larger industrial companies and underweighted in the smaller service companies. As a result, based on the recommendations of the Investment Advisory Council's Asset Mix Committee, the SBI selected the Wilshire 5000 as the target for its index fund. The Wilshire 5000 is composed of all domestic common stocks for which daily prices are available. Thus, it is virtually an all-inclusive representation of the U.S. stock market. By using the Wilshire 5000 as a target index, the Board can more effectively produce a return on its passively managed funds which tracks that of the entire stock market.

The SBI's search committee interviewed five nationally-recognized index fund managers. The committee analyzed a number of factors as it reviewed each candidate,

including: index fund management experience; organizational stability; dollars under current passive management; index fund design; techniques employed in actual index fund construction (focusing especially upon trading strategies); and, management fees. The committee recommended that the SBI retain Wilshire Associates to manage its index fund. Wilshire has a strong background in non-discretionary index fund management. It is the largest supplier of index fund computer software and support in the country. While the SBI was to be Wilshire's first discretionary client, the search committee believed that the firm's extensive advisory experience, combined with its strong dedication to the success of its first fund, would be a positive factor. Further, the combination of the depth, quality, and stability of Wilshire's top management was considered to be superior to that of the other managers. Finally, the committee was impressed by Wilshire's innovativeness and research on passive management. The fact that Wilshire Associates created and maintains information on the Wilshire 5000 index had little to do with its selection as index fund manager.

At its October 26, 1983 meeting, the SBI approved the hiring of Wilshire Associates to manage its index fund. The firm's management responsibilities began December 1, 1983. Wilshire received a diversified portfolio of common stocks. The firm's task was to buy and sell securities so that the original portfolio was transformed into a portfolio which closely resembled the Wilshire 5000. The majority of the index fund construction was done through a package trading process whereby large blocks of securities were bought and sold in single packages at prices guaranteed by a brokerage house. The remaining transactions were done primarily on a "best efforts" basis, whereby each stock was traded individually at the best price the index fund manager could find.

The index fund construction was highly successful. Although almost \$2 billion in transactions took place, the trading attracted little or no attention of stock market participants. The cost of the trading was extremely low. Including commissions, estimated market impact costs, and administrative expenses, the index fund trades cost an average of only 0.86% of principal.

Although the index fund is designed to match the returns offered by the stock market, in any given quarter the index fund's return may not precisely track that of the Wilshire 5000. This deviation is referred to as tracking error. It is the result of two factors. First, the index fund does not own all 5000-odd stocks in the Wilshire 5000, due to both administrative constraints and SBI policy restrictions. Second, there are certain minor costs of maintaining an index fund, including management fees and trading costs associated with periodic rebalancing. The index fund's expected tracking error is small. Further, it is largely unbiased, being positive in some quarters,

negative in others. The expected maximum annual tracking error is approximately plus or minus 0.75 percentage points.

EXTERNAL BOND MANAGER SELECTION

As part of its investment management restructuring process, during fiscal year 1984 the Board retained six external bond managers to invest the long-term fixed income assets of the Basic Retirement Funds. While these managers were actually funded at the start of the 1985 fiscal year, the selection of the bond managers took place in fiscal year 1984.

The bond portfolio is an integral part of the Basic Retirement Funds' total investment portfolio. From a risk-return perspective, it is designed to complement the Basic Funds' investments in equities (both common stocks and alternative investments). The bond portfolio is intended to serve three primary purposes: first, to provide a deflationary hedge for the total portfolio; second, to produce a dampening effect on total portfolio variability of returns; and third, to satisfy the statutory requirements under which the Board invests.

In terms of the first objective, bonds in the Basic Retirement Funds' total portfolio serve as insurance against a major deflation. Only high quality bonds will preserve principal and, in fact, produce sizable capital gains in the event of a deflation. In such an economic environment, equity investments are likely to suffer substantial declines in value. The bond portfolio is designed to partially offset these losses, should they occur.

With respect to the second objective, bonds serve to reduce the volatility of total portfolio returns. As part of its long-run asset mix for the Basic Retirement Funds, the Board has allocated the majority of the Funds' assets to common stocks. Among the traditional asset classes, common stocks have historically offered the highest returns, yet have also generated the greatest investment risk, as measured by the variability of returns. Because bond returns are not perfectly positively correlated with stock returns, adding bonds to a portfolio of common stock creates a diversifying effect, dampening total portfolio return volatility.

Finally, the bond portfolio serves to meet statutory investment restrictions. By law, the Basic Retirement Funds cannot be more than 75% invested in equity assets. The Board's asset mix guidelines call for this maximum equity investment. The remaining assets must be invested in fixed income securities, the vast majority of which are the portfolios of the external bond managers.

In order to meet the investment policy objectives cited above, the SBI established investment guidelines for the external bond managers. First, the managers are required to invest solely in high quality fixed income investments. As noted above, only these assets provide an effective deflation hedge. Minnesota statutes specify fixed income investment quality guidelines which are sufficient to satisfy the Board's policy objectives. Second, the managers are required to maintain total portfolio durations within a three-to-seven year band. (Duration is a measure of the average life of an investment.) The lower end of the band prevents the managers from holding portfolios that are so shortlived as to reduce severely their deflation protection. The upper end of the band constrains managers from holding portfolios which are very sensitive to interest rate moves, and hence, exhibit excessive return volatility.

The SBI implemented a nationwide search for bond managers, similar to the search conducted for its common stock managers. Evaluation Associates, the Board's consultant, supplied a list of fifteen previously successful managers who could invest in long-term fixed income assets under the policy guidelines established by the Board. A search committee established by the SBI visited each of these firms at their place of business and conducted in-depth interviews. The search committee focused on the management firms' quality and stability of key personnel, investment philosophy and investment management approach, and historical risk-return data. The search committee recommended, and the Board approved at its May 23, 1984 meeting, the hiring of six bond managers. Those managers and their allocated assets are listed below:

| | |
|---------------------------------|---------------|
| Lehman Management | \$150 Million |
| Miller, Anderson & Sherrerd | 150 |
| Morgan Stanley Asset Management | 150 |
| Western Asset Management | 150 |
| Norwest Bank Minneapolis | 75 |
| Investment Advisers | 25 |

The search committee identified a group of managers with a blend of investment styles to add diversification to the bond portfolio. That is, while almost all bond managers to some degree make portfolio decisions based upon expectations of interest rate moves, the managers hired by the Board place varying emphasis on this strategy. Further, these managers exhibit differences in the methods used to select securities and in the sectors of the market that they emphasize.

Prior to their July 2, 1984 funding, the bond managers were provided a list of current Basic Retirement Funds bond holdings. The managers selected bonds that fit their particular investment strategies. These bonds were transferred to the managers on

July 2 as part of their initial allocation. SBI investment staff assigned issues not selected to the managers on an equitable basis.

MASTER CUSTODIAN SELECTION

The SBI's decision to reorganize the investment management structure of the Basic Retirement Funds necessitated the retention of a master custodian. Previously, when all assets were internally managed, the SBI's custodial relationship with First National Bank of St. Paul presented a cost effective means of administering the Basic Retirement Funds' investments. First St. Paul essentially provided an inexpensive trade settlement mechanism. Transaction accounting and cash management was handled by SBI staff. This system was simplified by the fact that all trades originated from one source, that is, SBI staff. Thus, control of trade settlements and accounting was a straight-forward process.

The use of multiple external managers for the Basic Retirement Funds, and, in particular, the utilization of an extended index fund, was expected to increase dramatically the volume and variety of securities trades. The combination of SBI staff accounting and First St. Paul trade settlement was not designed to deal with such a complex investment management configuration. Master custodial banks, on the other hand, have designed administrative systems specifically to handle large multi-manager pension plans. Therefore, prior to its funding of the index fund, the Board hired a master custodian.

Master custodians provide a wide range of investment administration services. From the SBI's perspective, several such services were essential: safekeeping of securities; settlement of security trades; income collection; securities lending; cash management; reporting of assets held and transactions; and, fail float credit. The Board was also interested in such ancillary services as performance measurement, passive equity management and on-line data access.

Developing custodial systems designed to handle the needs of big pension plans is extremely expensive, both in terms of equipment and personnel. Further, there are vast economies of scale in the master custodian business, as a large client base allows significant fixed costs to be spread out. As a result, the largest master custodians tend to dominate the business because they are able to provide the most effective, lowest cost service to big pension funds.

The Board's search committee, assisted by the Board's consultant, Evaluation Associates, was assigned the task of recommending a master custodian. The committee prepared a

comprehensive request-for-proposal (RFP) which delineated, in considerable detail, the Board's specifications for master custodial service. The RFP focused on ten primary considerations: accounting, reporting, cash management, transition process, bank personnel, computer systems, securities lending, passive management, performance measurement and fees.

Evaluation Associates supplied a list of the top U.S. master custodian banks. The RFP was sent to these banks as well as to three large Twin Cities banks. Following receipt of the banks' responses, each bank was interviewed at its place of business by the search committee. A follow-up interview was conducted with three finalist banks.

Based on the banks' responses to the RFP and the on-site interviews, the search committee recommended that State Street Bank of Boston be hired as the SBI's master custodian. The committee believed that State Street provided the best combination of experience, size, personnel, accurate and timely reporting, and dedication to client service. The bank was the originator of custody services to mutual funds in the 1920's. It was an early participant in the master custodian business in the early 1970's. State Street is the second largest custodian bank in the U.S. The search committee was impressed not only with the number, but also the quality of persons who would be assigned to the SBI's account. The bank's recordkeeping and reporting capabilities were viewed favorably in terms of accuracy and timeliness. Finally, the master custody business is by far the bank's most important profit center. Thus, the bank appears committed to maintaining its leading role in the rapidly changing master custody business by continually making the sizable required investments in people and equipment.

At its September 20, 1983 meeting, the Board approved the hiring of State Street as master custodian for the assets of the Basic Retirement Funds. (The remaining SBI assets, almost all of which remain under internal management, continue to be custodied at First St. Paul. Their status will be evaluated at a future date.) State Street's custodial responsibilities began effective November 1, 1983. SBI staff spent considerable time during the month of October with State Street personnel preparing for the conversion. Subjects handled by the transition teams included: locating and inventorying all assets to be transferred; clarifying accounting procedures; developing a method of unitizing the asset pools and distributing pooled income; notifying the Board's managers of the new trade settlement procedures; creating a short-term investment fund; developing securities lending procedures; preparing specifications for a monthly data transfer to the SBI's accounting system; and, specifying asset pricing procedures.

The conversion process proceeded quite smoothly. All assets were transferred on schedule and no lost income resulted from the

transfer, problems which have been known to occur in other custodial conversions. Further, only one month after the transition, Wilshire Associates began construction of the SBI's index fund. State Street handled the index fund's massive trading volume without serious problems, reaffirming the quality of the bank's custodial operations.

INVESTMENT ADVISORY COUNCIL CHANGES

The Investment Advisory Council (IAC) was created by Minnesota Statutes 11A.08. Among its duties, the IAC is charged with the responsibility to "advise the state board and director on general policy matters relating to investments."

The Council consists of seventeen members. Ten of these members are required to be "experienced in general investment matters." These individuals are members of the Minnesota financial community and have extensive investment experience, either as money managers or as investment directors of pension plans. Other members of the IAC include the Commissioner of Finance, the executive directors of the three statewide retirement systems, a retiree representative and two currently employed public employee representatives.

The composition of the IAC has undergone a gradual but important evolution over the last several years. This shift has tended to reflect the changes in the SBI's investment management structure and, hence, changes in the Board's information needs.

Previously, when all of the Board's assets were managed internally, the private sector contingent of the IAC was composed largely of money managers. Their advice was useful in establishing investment strategies for the internally managed funds. As the SBI has moved to an emphasis on external management, the membership of the Council has changed to include a number of pension plan directors. These individuals, and the organizations which they represent, face decisions similar to those that now confront the SBI. Thus, their knowledge and experience is highly relevant to the Board's current and future decision-making needs.

The IAC has recently instituted significant changes in its organizational structure. The goal of these changes is to create a more effective means of analyzing important investment issues and communicating recommendations to the SBI. Five committees have been created and each IAC member has been assigned to one of the committees. The committees are organized around broad investment subjects relevant to the Board's decision-making. The five committees are: Administrative, Asset Allocation, Alternative Investments, Equity Managers, and Fixed Income Managers. The committees meet separately at least once per

quarter to consider topics under their specific pervue. The committee chairpersons formally present their committees' conclusions at the quarterly IAC meetings. In turn, the full IAC discusses these recommendations and sends them on, possibly with modifications, to the Board. SBI staff attends all committee meetings and provides information and analysis upon request.

LEGISLATIVE REVIEW

Relatively few changes were made in the SBI's statutory investment authority during the 1984 legislative session. The Board's housekeeping bill contained the following changes in investment statutes:

- 1) The authority to create a combined investment fund for fixed income investments. This authority was needed in order to pool the bond portfolios of the Basic Retirement Funds, thereby simplifying the external bond management process and producing significant savings in custodial expenses;
- 2) The expanded authority to invest in financial futures contracts to include futures contracts traded on any contract market designated and regulated by a federal agency. Among other investments, this new authority will permit the purchase of stock market futures contracts. The Board anticipates that the expanded futures authority will be used primarily by its external managers as part of their short-run asset allocation strategies; and
- 3) The elimination of the deferred yield adjustment for the active lives retirement funds. For actuarial purposes, losses on bond sales will no longer be amortized over the remaining life of the bond, but rather will be immediately written off against current income. The deferred yield adjustment account continues to be utilized by the Post Retirement Investment Fund.

Legislation was also passed requiring that the Board and Investment Advisory Council meet at least four times each year, rather than the previously specified six.

Perhaps the most significant piece of investment legislation passed in 1984 did not directly involve the Board. The Legislature passed a bill known as the "Rule of 85." This legislation permits participants in the statewide retirement plans to retire if their years of service and age total at least 85.

The exact number of early retirees and the timing of their retirements, produced by the "Rule of 85" cannot be forecasted accurately. It is certain, however, that a large number of public employees will take early retirement over the next two years that the "Rule of 85" is in effect. During this period, the Basic Retirement Funds will experience significant negative net contributions. Current estimates place the figure at roughly \$300 million. These cash flows will be transferred to the Post Retirement Investment Fund to fund annuities for the retirees.

From the Board's perspective, the significance of the "Rule of 85" is twofold. First, the sizable negative net contributions to the Basic Retirement Funds will necessitate modest temporary changes in the Funds' investment structures if the long-run allocations to alternative investments are to proceed as planned. Second, with the size of the Post Retirement Investment Fund expected to increase by almost two-thirds, to \$3 billion over the next two years, formal investment objectives and asset allocation targets will need to be developed for the Fund.

The Asset Allocation Committee of the Investment Advisory Council has addressed the first issue and recommended that:

- 1) The long-term asset allocation targets, adopted by the Board in August, 1983, should continue to be implemented as scheduled over the next two-to-three years.
- 2) Specifically, investments in alternative assets should proceed as planned.
- 3) Cash to finance both the negative net contributions and the continued funding of alternative investments should be raised from four sources (presented in order of recommended use):
 - a. Dividends from the index fund should be diverted for the next two years.
 - b. The private placement bond portfolio should be liquidated.
 - c. The three-year-and-under maturity bond portfolio should be liquidated.
 - d. A small portion of the funds managed by external bond managers should be withdrawn.
- 4) Cash positions of at least \$50 million should be maintained on a continuous basis to protect against any significant unexpected cash outflows.

The Asset Allocation Committee is also considering the second issue of investment goals and asset allocation targets for the Post Retirement Investment Fund. The Committee is expected to make specific recommendations to the Board at its December 1984 meeting.

MINNESOTA SMALL BUSINESS FINANCE AGENCY PROGRAM

During the last year the Minnesota Small Business Finance Agency, in conjunction with the Minnesota State Board of Investment, has provided loans to small businesses throughout the state. This program, called the Minnesota Plan, provides U.S. government guaranteed, fixed rate, long-term Small Business Administration (SBA) loans to Minnesota small businesses. Generally, SBA loans are available only for a maximum term of seven years, at variable rates adjusted quarterly at a level $2\frac{3}{4}\%$ above prime. The Minnesota Plan, a pilot project approved by the U.S. Small Business Administration, is designed to give small businesses the stable debt service payments necessary to implement their long-term investment and operational plans by providing loans for up to twenty years at a fixed rate of interest.

In order to finance this program, the Minnesota Small Business Finance Agency (MSBFA) sells taxable business loan revenue bonds. The proceeds from the bond sales are used by MSBFA to purchase the U.S. government guaranteed portion of SBA loans issued by banks to Minnesota small businesses. In effect, the bonds issued by the MSBFA are backed by the guarantee of the U.S. Small Business Administration, a full faith and credit obligation of the U.S. government. Because of the sound characteristics of this proposal as well as the attractive return available, the SBI has committed to purchase the bonds issued by the MSBFA for investment by the Permanent School Fund, the trust whose earnings directly benefit Minnesota schools.

The MSBFA bonds provide a yield which exceeds that of ten-year U.S. Treasury bonds by 1.5 percentage points. The MSBFA bond yield is pegged to U.S. Treasury obligations because of the similarity in quality and risk of the two investments. In addition, the SBI receives from the MSBFA a commitment fee of $\frac{1}{2}$ of 1% of the aggregate principal amount of the bonds not yet issued.

The MSBFA bonds are rated AA by the Standard and Poor's Corporation, which signals the quality of the instrument and offers liquidity in the event of the anticipated development of an active secondary market for these securities. The bonds have a twenty-year maturity with sinking fund payments in accordance with the actual loans in the underlying pool. As a result, the average life of the bonds is approximately ten years.

This innovative financing mechanism for small businesses is the result of extensive discussions between the staffs of the Minnesota Small Business Finance Agency and the State Board of Investment. The SBI anticipates that \$5.5 million, or approximately 2% of the Permanent School Fund, eventually will be invested in the Minnesota Plan.

PROXY VOTING

As a stockholder, the State Board of Investment is entitled to participate in corporate annual meetings, through direct attendance or casting its votes by proxy. Through proxy voting, the Board directs company representatives to vote its shares in a particular way on resolutions under consideration at annual meetings. In effect, as a shareholder the State Board of Investment can participate in shaping corporate policies and practices.

Resolutions prepared at annual meetings range from routine issues, such as those involving the election of corporate directors and ratification of auditors, to non-routine items involving such matters as merger proposals and corporate social responsibility issues. In order to identify the "non-routine" resolutions, the State Board of Investment utilizes the Investor Responsibility Research Center (IRRC), a non-partisan service which provides information and analyses of the issues under consideration at corporate annual meetings.

Due to the administrative difficulty involved in voting the proxies of over 1100 corporations owned by the Basic Retirement Funds, all routine matters are automatically voted in accordance with the recommendations of corporate management. This process is administered by the SBI's master custodian, State Street Bank and Trust Company. All non-routine issues highlighted by IRRC are screened by State Street and voted directly by the State Board of Investment. In addition, the shares of the approximately 150 companies owned by the Post Retirement Fund, the Supplemental Investment Fund, the Variable Annuity Fund and the Permanent School Fund are voted directly by the Board.

All non-routine issues are reviewed by a committee on proxy voting appointed by the State Board of Investment. The committee votes on the resolutions in accordance with the SBI's statement on investment responsibility (see page 46).

During the last fiscal year, the committee voted on forty-nine shareholder resolutions pertaining to issues of corporate social responsibility. Of these forty-nine resolutions, the committee voted in favor of thirty-nine shareholder resolutions, in opposition to the recommendation of corporate management. The committee also has adopted policies in opposition to certain management proposals which discourage changes in corporate ownership to the potential financial detriment of shareholders.

RESOLUTION

REGARDING ADDITIONAL INVESTMENT CRITERIA AND THE VOTING OF PROXIES

WHEREAS, the Investment Board recognizes that when performing their duty of investing the trust funds (pension and other funds) for which they are custodian, their primary responsibility is the prudent and responsible investment of the assets of the funds for the economic benefit of the beneficiaries of the funds; and

WHEREAS, it has become increasingly apparent that the standards of prudence and responsibility may, in limited circumstances, be considered in light of the social and environmental policies of the corporation in which the State owns or contemplates owning an investment; and

WHEREAS, investing in an enterprise which is flagrantly violating the law or stubbornly ignoring public policy may constitute implicit endorsement of those policies, and the Investment Board is of the opinion that government may abrogate its duties to its citizens by offering such implicit endorsement; and

WHEREAS, it is the Investment Board's opinion that corporations which do not take the welfare of society and its members into consideration may jeopardize their own financial stability and, in today's world, risk depreciation of their investment value.

NOW, THEREFORE, BE IT RESOLVED that the following guideline be adopted: Consistent with prudent and responsible investment policy, the Investment Board shall not knowingly invest or maintain holdings in those corporations which are in flagrant violation of the law or in stubborn disregard of the social welfare of the society, or do not recognize environmental responsibilities in their corporate actions, and are not taking reasonable steps to overcome the situation; and

BE IT FURTHER RESOLVED that, consistent with prudent and responsible investment policy, all or some of the following measures may be instituted when a corporation is found by the Board to be in violation of the aforementioned guideline:

1. The Investment Board will discuss the problem with a representative of the corporation in question for the purpose of:
 - a. expressing the view that, as a shareholder, the State of Minnesota is opposed to such policies.
 - b. being informed as to the progress underway in ameliorating the problem.

2. If voting stock in such corporation is held by trust funds administered by the Investment Board, it may be voted in a manner calculated to ameliorate the existing problem.
 - a. While it is recognized that it is the Investment Board's responsibility to vote all stocks, the Investment Board may solicit recommendations from its staff concerning the manner of voting stock of a corporation in violation of the guidelines set forth above.
 - b. When deemed necessary to protect the State's interest in the fund and in grave cases, the Investment Board may institute procedures for a shareholder's proposal for the purpose of committing the corporation toward correcting the policy in question.
3. In the instance that no recourse mentioned above is available and/or it is shown that the corporation is not taking steps reasonably calculated to ameliorate the problem in question within a reasonable period of time, the Investment Board may sell the State's investment in the corporation, if sale is consistent with sound investment policy for the affected funds.

STATISTICAL DATA APPENDIX

EXTERNAL MANAGER INVESTMENT PHILOSOPHIES

COMMON STOCK MANAGERS

FRED ALGER

Fred Alger utilizes a micro investment approach, emphasizing individual stock selection rather than industry selection and/or market timing. The firm focuses primarily on two types of companies: those currently undergoing a positive life cycle change, and those creative companies whose products have high unit volume growth rates. Fred Alger expects these two types of companies to be characterized by substantially above-consensus earnings gains and thus, exhibit strong stock price performance. The firm's decision-making structure is relatively unique in that portfolio selections are made by the firm's highly motivated group of analysts. Except on rare occasions, the firm maintains a fully invested posture.

ALLIANCE CAPITAL

The Alliance Capital office system employs a macro investment approach. Investment strategy is developed on two levels. Macroeconomic considerations are analyzed on a centralized basis at the New York headquarters. Committees, composed of members from the regional and New York offices, develop economic forecasts, set asset allocation and industry weightings, and formulate an eligible list of attractive securities. Specific stock selection is conducted at the regional office level. The Minneapolis office tends to focus on companies with favorable ratios of P/E to forecasted earnings growth.

BMI CAPITAL

BMI employs a micro investment approach, emphasizing individual stock selection rather than industry selection and/or market timing. The firm focuses on two types of companies: first, misperceived companies that are in the process of undergoing dynamic change that will cause them to produce materially higher earnings over the near-term, but whose prospects are as yet unrecognized by the market; and second, small-to-medium sized companies that exhibit the potential for rapid future earnings growth. This second type of company dominates the BMI portfolios. The firm tends to take sizable positions in a relatively few stocks. BMI generally maintains a fully invested posture, with any cash positions a result of a lack of attractive investment opportunities.

BEUTEL GOODMAN

Beutel Goodman utilizes a modified micro investment style. The firm concentrates on stock selection but is sensitive to the impact of macroeconomic factors on the attractiveness of specific industries and companies. Stocks purchased by Beutel Goodman tend to be either companies whose stock prices are too low in comparison to their tangible book value (as estimated by Beutel Goodman analysts) or companies whose stocks possess low relative P/E's given their investment characteristics and forecasted earnings growth. The firm generally remains fully invested, with cash positions usually resulting from an immediate lack of attractive investment opportunities.

FORSTMANN LEFF

Forstmann Leff uses a macro investment approach, focusing on industry selection and market timing. The firm attempts to identify social and economic factors impacting the marketplace on a cyclical and secular basis. From this analysis the firm focuses on those sectors that will be positively and negatively affected by these forces. Stock selection is of secondary importance to the firm. Holdings tend to be concentrated in larger capitalization institutional favorites. Forstmann Leff is an active market timer willing to make sizable asset mix shifts at any point in the market cycle.

HELLMAN JORDAN

Hellman Jordan employs a modified macro investment approach, focusing on companies that it believes will be positively impacted by the firm's forecasted economic scenarios. The firm attempts to identify long-term trends in the economy and develop investment concepts related to these trends. Stock selection is considered to be of secondary importance to successful asset mix and sector rotation decisions. While this approach often leads the firm to focus on high growth, high P/E companies, when the firm is negative on the market it will move to high yield, lower growth, lower P/E defensive stocks. In either case, the firm tends to hold larger capitalization issues. Hellman Jordan is an active market timer, willing to make sharp, significant asset mix moves at any point over the market cycle.

IDS ADVISORY

IDS employs a macro investment approach, focusing on industry selection and limited market timing. The firm attempts to identify industries that will be positively and negatively impacted by forecasted broad economic trends. The firm actively rotates among these affected industries. Stock selection is of secondary importance to the firm. IDS tends to make moderate asset allocation moves gradually over a market cycle.

INVESTMENT ADVISERS

Investment Advisers utilizes a macro investment style, with a relatively equal emphasis placed on asset allocation, industry weighting, and stock selection. Through a committee structure, the firm attempts to identify the economy's position within the real economic and credit cycles. Based upon this analysis, Investment Advisers rotates its portfolios among industries and investment characteristics. Stock selection focuses on the recommendations of fundamental valuation and earnings momentum models. Holdings tend to be concentrated in large capitalization institutional favorites. The firm actively conducts market timing to take advantage of cyclical moves in the market.

LIEBER & CO.

Lieber & Co. seeks to identify investment concepts that are either currently profitable or likely to become so in the near future, yet whose prospects are not reflected in the stock prices of the companies associated with the concepts. The investment concepts upon which the firm focuses are related to both macroeconomic trends and specific product developments within particular industries or companies. Stocks purchased by Lieber tend to be those of well-managed, high growth and high return on equity, small-to-medium sized companies. The stocks may be undervalued due to the failure of investors to recognize fully either the value of new products or a successful turnaround situation. Particularly attractive to Lieber are small-to-medium sized takeover candidates. The firm generally is fully invested, with any cash positions the result of a lack of attractive investment concepts.

LOOMIS SAYLES

The Loomis aggressive equity management group employs a modified micro approach. Based upon the firm's economic forecast, the aggressive equity group identifies those industries and companies that are expected to experience significant cyclical or secular earnings gains. The Loomis portfolio tends to focus on stocks with relatively high P/E's and low yields and companies with highly variable, but successful patterns of historical earnings growth. The firm generally maintains a fully invested position, only rarely raising cash to significant levels.

NORWEST BANK

Norwest utilizes a modified micro investment style. The bank emphasizes stock selection in its aggressively managed funds, although asset mix is set for all bank funds by a strategy committee. The aggressive funds tend to focus on industries and companies experiencing a growing share of GNP, developing new, high growth products, and which are positively influenced by cyclical economic change. This approach leads to a concentration in small capitalization, emerging growth, and technology companies. The bank is a moderate market timer, willing to shift asset mix at any point in the market cycle.

SIEBEL CAPITAL

Siebel employs a modified micro investment style, concentrating on stock selection, but also considering the effect of macroeconomic factors on the prospects for specific industries and companies. The firm tends to purchase stocks of two principal types of companies: first, seasoned growth companies devising new products or creating new markets for old products which will significantly raise earnings growth and second, low P/E companies undergoing a potentially profitable redeployment of assets. Siebel is a moderate market timer, willing to alter asset mix at any point in the market cycle.

HERBERT R. SMITH

Herbert R. Smith utilizes a modified macro investment approach. The firm uses its economic and political outlook and its technical analysis of the marketplace to establish the asset mix for its portfolios. The firm is an aggressive market timer, willing to make sizable asset allocation moves at any point in the market cycle. Although asset allocation receives the firm's primary attention, the firm also emphasizes stock selection. Its stock selection is predicated upon both fundamental and technical analysis of individual securities. Herbert Smith searches for stocks with attractive relative P/E's and positive technical patterns.

TRUSTEE & INVESTORS

Trustee & Investors employs a highly disciplined, micro investment approach, emphasizing stock selection rather than industry selection and/or market timing. The firm analyzes potential purchase and sale candidates through the use of computerized data bases which screen such fundamental valuation parameters as price, earnings, and balance sheet and income statement data. Trustee & Investors searches for companies with unrecognized assets or earnings, or companies undergoing cyclical or operational turnarounds. The firm maintains a fully invested position at all times.

WADDELL & REED

Waddell & Reed, in its aggressively managed funds, employs a micro investment approach. While asset mix decisions are made for all Waddell & Reed funds at a committee level, the aggressive funds focus on stock selection almost entirely. Holdings are concentrated in small capitalization stocks with an orientation toward cyclical companies and immature growth companies, particularly technology companies. The Waddell & Reed organization is an active market timer willing to make significant asset mix shifts at any point in the market cycle.

BOND MANAGERS

INVESTMENT ADVISERS

Investment Advisers is a traditional top down bond manager. The firm's approach is oriented toward correct identification of the economy's position in the credit cycle. This analysis leads the firm to its interest rate forecast and maturity decisions, from which the firm derives most of its value-added. Investment Advisers is an active asset allocator, willing to make rapid, significant moves between cash and long maturity investments over the course of an interest rate cycle. Quality, sector and issue selection are secondary decisions. Quality and sector choices are made through yield spread analyses consistent with the interest rate forecasts. Individual security selection receives very limited emphasis, focusing largely on specific bond characteristics such as call provisions.

LEHMAN MANAGEMENT

Lehman's primary emphasis is on forecasting cyclical interest rate trends and positioning its portfolios in terms of maturity, quality and sectors, in response to its interest rate forecast. However, the firm avoids significant, rapidly changing interest rate bets. Instead, it prefers to shift portfolio interest rate sensitivity gradually over a market cycle, avoiding extreme positions in either long or short maturities. Individual bond selection is based on a quantitative valuation approach and the firm's internally-conducted credit analysis. High quality (A or better) undervalued issues are selected consistent with the desired maturity, quality and sector composition of the portfolios.

MILLER, ANDERSON & SHERRERD

Miller Anderson focuses its investments in misunderstood or under-researched classes of securities. Over the years this approach has led the firm to emphasize mortgage-backed securities in its portfolios. The firm rarely purchases corporate bonds. Based on its economic and interest rate outlook, the firm establishes a desired maturity level for its portfolios. This decision is instituted primarily through the selection of specific types of mortgage securities that have prepayment expectations consistent with the portfolio's desired maturity. The firm will also move in and out of cash, but generally only gradually over an interest rate cycle and never taking extremely high cash positions. Total portfolio maturity is always kept within an intermediate three-to-seven year duration band. Unlike many other firms that also invest in mortgage securities, Miller Anderson intensively researches and, even in some cases manages, the mortgage pools in which it invests.

MORGAN STANLEY

Morgan Stanley takes a very conservative approach to fixed income investing, emphasizing the preservation of capital through the generation of consistent real returns. This philosophy has led the firm to maintain a vast majority of its portfolio in short to intermediate maturity, high quality (A or better) securities. Large positions in maturities longer than ten years are held only as temporary trading opportunities. These positions are increased or reduced gradually as the firm's expectations of the cyclical level of interest rates changes. Issue selection is of secondary importance to maturity decisions. Further, the firm avoids short-run trades between qualities and sectors. Rather, given its maturity decisions, the firm prefers to make sizable investments in specific areas of the market where it believes persistent misvaluations are present.

NORWEST BANK

Norwest stresses consistency of fixed income portfolio relative returns. To accomplish this goal, the firm maintains a portfolio of high quality, liquid securities and a balance of maturity levels avoiding extreme exposures on either the long or short end. Further, Norwest will make only gradual moves between maturities over an interest rate cycle. The firm's maturity, quality and sector decisions are driven by both its economic forecasts and a quantitative analysis of the sensitivity of various classes of fixed income securities to different interest rate scenarios. The firm also concentrates on exploring misperceived fixed income securities, which has led the firm to make extensive use of mortgage-backed securities and floating rate notes.

WESTERN ASSET

Western recognizes the importance of interest rates changes on fixed income portfolio returns. However, the firm believes that successful interest rate forecasting, particularly short-run forecasting, is extremely difficult to accomplish consistently. Thus, the firm attempts to keep portfolio maturity in a narrow band near that of the market, making only relatively small, gradual shifts over an interest rate cycle. It prefers to add value primarily through appropriate sector decisions. Based on its economic analysis, Western will significantly overweight particular sectors, shifting these weights as economic expectations warrant. Issue selection, like its maturity decisions, are of secondary importance to the firm.

EQUITY MANAGER PORTFOLIO STATISTICS GLOSSARY

In the table following this glossary, summary descriptions of the individual equity managers' portfolio risk characteristics are displayed. Some of the statistics presented are technical in nature. This glossary is designed to aid in understanding the terms that are introduced.

- Qtr. Port. Turnover** - the manager's total equity asset sales during the quarter divided by the average value of the manager's equity assets over the quarter.
- # of Stocks** - number of different issues held in the manager's stock portfolio.
- Equity Allocation** - percent of the manager's total portfolio invested in common and preferred stocks and convertible securities.
- Yield** - indicated annual dividend of the manager's stock portfolio divided by the market value of the manager's stock portfolio.
- P/E** - weighted average price per share of the managers' common stock portfolio divided by the weighted average trailing four quarter earnings per share of the manager's common stock portfolio.
- Market Volatility** - degree to which the returns on the manager's stock portfolio are sensitive to movements in the stock market's return. By definition the market has a market volatility measure (referred to as beta) of 1.0. Portfolios with values greater (less) than 1.0 have above (below) average sensitivity to market moves. The SBI's managers are required, over the long-term to hold portfolios with market volatility levels above 1.10. This measure does not include the impact of cash holdings on total portfolio volatility.
- Diversification** - extent to which a manager's equity holdings statistically resemble the stock market. Low (high) diversification portfolios will experience returns which are not well (are well) correlated with those of the market. By definition, the market has a diversification measure of 1.0. The less a portfolio is diversified, the lower will be its diversification measure (referred to as R-squared). The SBI's managers are required, over the long-term, to hold portfolios with diversification levels less than .85.

**Portfolio Risk
Orientation**

- the riskiness of a portfolio can be expressed in terms of its market volatility and diversification. A complementary approach is to break down a portfolio's risk into sensitivity to various fundamental factors. These factors, six of which are used in this analysis, are related to various balance sheet, income statement and securities data on the stocks which make up a manager's portfolio. The sensitivity of a manager's portfolio to these factors is rated relative to the the stock market's sensitivity. Thus, the term ++ (--) indicates that a portfolio has a relatively very high (low) exposure to the factor. A + (-) indicates an above (below) average exposure. A 0 indicates no exposure.

Price Variability

- risk related to the historical variability of the prices of stocks in the portfolio. The more variable are the portfolio's securities' prices, the more risky is the portfolio. Items such as current stock price, twelve month price range, trading volume, and beta make up this measure.

Earnings Variability

- risk related to the variability of the earnings of those companies owned in the manager's portfolio. The more variable are the companies' earnings, the more risky is the portfolio. Items such as variance of accounting earnings, variance of cash flow, occurrence of extraordinary accounting items, and the correlation of companies' earnings with U.S. corporate earnings make up this measure.

Earnings Success

- risk related to the extent to which the earnings of companies owned by the portfolio have been recently low or negative. The poorer have been companies' earnings, the riskier is the portfolio. Items including return on equity, earnings growth, book/price ratio, dividend cuts, and tax rate make up this measure.

Size

- risk related to the size and maturity of the companies held in the portfolio. The smaller and younger the companies, the more risky is the portfolio. Items such as total assets, market capitalization, gross plant/book value ratio, and company age make up this measure.

Growth

- risk related to the growth orientation of companies owned by the manager. The more growth-oriented are the companies, the riskier is the portfolio. Items such as dividend yield, E/P ratio, and growth in total assets make up this measure.

Financial Leverage

- risk related to the extent to which companies held in the portfolio have used debt to finance their operations. The more leveraged are the companies, the riskier is the portfolio. Items such as debt/asset ratio, current asset/current liability ratio, and uncovered fixed charges make up this ratio.

EXTERNAL EQUITY MANAGERS

PORTFOLIO STATISTICS HISTORICAL SUMMARY

| MANAGER NAME | DATE | QTR. PORT. T/O | # OF STKS | EQUITY ALLOC. | YIELD | P/E | MKT VOLTY | DIVRSFN | Price Var. | PORTFOLIO RISK ORIENTATION | | | | |
|--------------------|----------|----------------|-----------|---------------|-------|------|-----------|---------|------------|----------------------------|-------------|------|--------|-------------|
| | | | | | | | | | | Earn. Var. | Earn. Succ. | Size | Growth | Fin. Lever. |
| AVG. EXT. MANAGERS | 6/30/84 | 27 | 41 | 81 | 3.21 | 13.5 | 1.29 | 0.81 | + | + | + | + | + | 0 |
| AVG. EXT. MANAGERS | 3/31/84 | 25 | 41 | 83 | 3.05 | 13.5 | 1.25 | 0.82 | + | + | 0 | + | + | 0 |
| AVG. EXT. MANAGERS | 12/31/83 | 36 | 34 | 84 | 2.79 | 16.2 | 1.23 | 0.80 | + | + | 0 | + | 0 | 0 |
| AVG. EXT. MANAGERS | 9/30/83 | 32 | 32 | 85 | 2.48 | 19.4 | 1.29 | 0.82 | + | + | 0 | + | + | 0 |
| AVG. EXT. MANAGERS | 6/30/83 | 27 | 32 | 85 | 2.44 | 16.7 | 1.29 | 0.81 | + | 0 | - | 0 | + | + |
| AVG. EXT. MANAGERS | 3/31/83 | NA | 26 | 67 | 2.78 | 15.0 | 1.26 | 0.83 | + | + | - | 0 | + | 0 |
| FRED ALGER | 6/30/84 | 16 | 32 | 93 | 2.92 | 13.1 | 1.22 | 0.86 | + | + | 0 | 0 | - | 0 |
| FRED ALGER | 3/31/84 | 19 | 33 | 91 | 2.82 | 14.8 | 1.19 | 0.86 | + | + | + | 0 | 0 | 0 |
| FRED ALGER | 12/31/83 | 23 | 32 | 95 | 2.64 | 15.9 | 1.18 | 0.88 | + | ++ | - | 0 | 0 | 0 |
| FRED ALGER | 9/30/83 | 27 | 32 | 91 | 2.63 | 17.5 | 1.24 | 0.88 | + | ++ | 0 | 0 | 0 | 0 |
| FRED ALGER | 6/30/83 | 8 | 35 | 94 | 2.10 | 18.7 | 1.33 | 0.88 | ++ | ++ | -- | + | + | ++ |
| FRED ALGER | 3/31/83 | NA | 35 | 89 | 2.31 | 17.1 | 1.29 | 0.87 | ++ | ++ | -- | + | + | + |
| ALLIANCE CAPITAL | 6/30/84 | 8 | 32 | 92 | 1.84 | 15.4 | 1.39 | 0.73 | + | + | ++ | + | ++ | -- |
| ALLIANCE CAPITAL | 3/31/84 | 12 | 32 | 92 | 1.75 | 15.4 | 1.38 | 0.72 | + | + | 0 | + | ++ | -- |
| ALLIANCE CAPITAL | 12/31/83 | 14 | 33 | 92 | 1.47 | 19.7 | 1.37 | 0.72 | + | ++ | - | 0 | ++ | - |
| ALLIANCE CAPITAL | 9/30/83 | 22 | 27 | 87 | 1.55 | 20.4 | 1.41 | 0.75 | + | ++ | - | + | + | - |
| ALLIANCE CAPITAL | 6/30/83 | 17 | 30 | 91 | 1.72 | 20.9 | 1.35 | 0.77 | + | ++ | -- | 0 | + | 0 |
| ALLIANCE CAPITAL | 3/31/83 | NA | 30 | 84 | 1.68 | 20.3 | 1.40 | 0.81 | ++ | ++ | -- | + | ++ | - |
| BEUTEL GOODMAN | 6/30/84 | 11 | 18 | 92 | 4.14 | 14.9 | 1.18 | 0.79 | 0 | + | 0 | ++ | 0 | ++ |
| BEUTEL GOODMAN | 3/31/84 | 12 | 20 | 98 | 3.84 | 11.0 | 1.16 | 0.79 | + | + | + | ++ | 0 | ++ |
| BEUTEL GOODMAN | 12/31/83 | 15 | 16 | 95 | 3.77 | 10.3 | 1.08 | 0.74 | + | + | ++ | ++ | 0 | ++ |
| BEUTEL GOODMAN | 9/30/83 | 6 | 16 | 99 | 3.47 | 10.5 | 1.14 | 0.75 | + | + | ++ | ++ | 0 | ++ |
| BEUTEL GOODMAN | 6/30/83 | 7 | 12 | 79 | 3.29 | 10.2 | 1.07 | 0.75 | + | 0 | - | ++ | 0 | ++ |
| BEUTEL GOODMAN | 3/31/83 | NA | 6 | 34 | 2.98 | 9.3 | 1.09 | 0.71 | + | 0 | ++ | + | + | ++ |
| BMI CAPITAL | 6/30/84 | 6 | 24 | 99 | 2.73 | 18.5 | 1.33 | 0.79 | ++ | ++ | - | ++ | + | -- |
| BMI CAPITAL | 3/31/84 | 18 | 24 | 95 | 2.67 | 17.1 | 1.32 | 0.80 | ++ | ++ | 0 | ++ | + | -- |
| BMI CAPITAL | 12/31/83 | 14 | 21 | 98 | 2.23 | 20.4 | 1.29 | 0.81 | + | ++ | - | ++ | + | 0 |
| BMI CAPITAL | 9/30/83 | 19 | 19 | 99 | 2.14 | 19.2 | 1.34 | 0.81 | + | ++ | - | ++ | + | 0 |
| BMI CAPITAL | 6/30/83 | 0 | 20 | 96 | 2.26 | 16.6 | 1.31 | 0.80 | + | 0 | -- | ++ | + | 0 |
| BMI CAPITAL | 3/31/83 | NA | 13 | 53 | 2.35 | 13.7 | 1.36 | 0.80 | ++ | ++ | -- | ++ | ++ | ++ |
| FORSTMANN-LEFF | 6/30/84 | 31 | 31 | 54 | 3.64 | 11.4 | 1.26 | 0.81 | + | + | ++ | - | 0 | ++ |
| FORSTMANN-LEFF | 3/31/84 | 34 | 38 | 71 | 3.52 | 12.4 | 1.17 | 0.82 | 0 | + | + | - | 0 | ++ |
| FORSTMANN-LEFF | 12/31/83 | 41 | 39 | 81 | 3.23 | 15.7 | 1.10 | 0.70 | -- | 0 | ++ | -- | -- | -- |
| FORSTMANN-LEFF | 9/30/83 | 46 | 28 | 83 | 2.59 | 20.7 | 1.14 | 0.72 | -- | 0 | ++ | -- | 0 | -- |
| FORSTMANN-LEFF | 6/30/83 | 52 | 33 | 93 | 2.90 | 15.0 | 1.08 | 0.70 | -- | -- | 0 | -- | -- | -- |
| FORSTMANN-LEFF | 3/31/83 | NA | 38 | 85 | 3.23 | 14.8 | 1.09 | 0.82 | 0 | 0 | 0 | - | 0 | -- |

| MANAGER NAME | DATE | QTR. PORT. T/O | # OF STKS | EQUITY ALLOC. | YIELD | P/E | MKT VOLTY | DIVRSFN | Price Var. | PORTFOLIO RISK ORIENTATION | | | | Fin. Lever. |
|---------------------|----------|----------------|-----------|---------------|-------|------|-----------|---------|------------|----------------------------|-------------|------|--------|-------------|
| | | | | | | | | | | Earn. Var. | Earn. Succ. | Size | Growth | |
| HELLMAN JORDAN | 6/30/84 | 34 | 37 | 61 | 5.09 | 13.5 | 1.25 | 0.87 | + | ++ | ++ | - | 0 | ++ |
| HELLMAN JORDAN | 3/31/84 | 30 | 34 | 58 | 4.94 | 12.9 | 1.16 | 0.87 | + | ++ | + | -- | 0 | + |
| HELLMAN JORDAN | 12/31/83 | 43 | 23 | 51 | 5.31 | 12.5 | 1.23 | 0.74 | + | ++ | ++ | - | -- | ++ |
| HELLMAN JORDAN | 9/30/83 | 57 | 20 | 47 | 2.89 | 21.2 | 1.34 | 0.77 | + | ++ | ++ | 0 | 0 | ++ |
| HELLMAN JORDAN | 6/30/83 | 38 | 18 | 56 | 2.37 | 16.1 | 1.30 | 0.77 | + | ++ | - | -- | 0 | ++ |
| HELLMAN JORDAN | 3/31/83 | NA | 14 | 53 | 3.18 | 15.9 | 1.30 | 0.72 | + | ++ | -- | -- | + | + |
| IDS ADVISORY | 6/30/84 | 42 | 43 | 87 | 4.80 | 13.4 | 1.04 | 0.85 | -- | - | -- | 0 | 0 | ++ |
| IDS ADVISORY | 3/31/84 | 41 | 39 | 82 | 4.31 | 11.2 | 1.09 | 0.80 | 0 | + | -- | - | -- | 0 |
| IDS ADVISORY | 12/31/83 | 45 | 36 | 89 | 3.13 | 18.8 | 1.17 | 0.86 | + | ++ | - | + | + | 0 |
| IDS ADVISORY | 9/30/83 | 79 | 34 | 86 | 2.40 | 25.0 | 1.24 | 0.86 | + | ++ | 0 | + | + | - |
| IDS ADVISORY | 6/30/83 | 42 | 49 | 94 | 2.19 | 19.9 | 1.30 | 0.81 | + | + | -- | - | + | - |
| IDS ADVISORY | 3/31/83 | NA | 48 | 88 | 3.17 | 15.3 | 1.19 | 0.84 | + | + | - | -- | + | - |
| INVESTMENT ADVISERS | 6/30/84 | 8 | 43 | 98 | 4.19 | 10.0 | 1.21 | 0.89 | 0 | 0 | ++ | - | 0 | ++ |
| INVESTMENT ADVISERS | 3/31/84 | 21 | 40 | 92 | 3.60 | 11.1 | 1.17 | 0.89 | 0 | + | ++ | - | 0 | ++ |
| INVESTMENT ADVISERS | 12/31/83 | 16 | 39 | 89 | 3.11 | 13.5 | 1.13 | 0.86 | -- | + | ++ | -- | 0 | 0 |
| INVESTMENT ADVISERS | 9/30/83 | 8 | 41 | 89 | 2.92 | 15.6 | 1.13 | 0.87 | -- | + | ++ | -- | 0 | 0 |
| INVESTMENT ADVISERS | 6/30/83 | 7 | 37 | 78 | 3.19 | 15.9 | 1.08 | 0.89 | - | 0 | 0 | -- | 0 | 0 |
| INVESTMENT ADVISERS | 3/31/83 | NA | 34 | 47 | 3.35 | 13.4 | 1.06 | 0.85 | 0 | 0 | - | -- | - | 0 |
| LIEBER & COMPANY | 6/30/84 | 10 | 117 | 95 | 2.66 | 12.0 | 1.33 | 0.81 | ++ | 0 | 0 | ++ | ++ | -- |
| LIEBER & COMPANY | 3/31/84 | 0 | 115 | 93 | 2.63 | 12.0 | 1.37 | 0.85 | + | 0 | -- | ++ | + | - |
| LIEBER & COMPANY | 12/31/83 | 9 | 60 | 100 | 2.77 | 12.9 | 1.24 | 0.83 | + | 0 | - | ++ | + | - |
| LIEBER & COMPANY | 9/30/83 | 9 | 56 | 97 | 2.83 | 11.3 | 1.30 | 0.83 | + | 0 | - | ++ | + | - |
| LIEBER & COMPANY | 6/30/83 | 2 | 49 | 92 | 2.70 | 14.0 | 1.26 | 0.84 | + | 0 | -- | ++ | + | - |
| LIEBER & COMPANY | 3/31/83 | NA | 24 | 45 | 2.94 | 15.9 | 1.20 | 0.85 | + | 0 | - | ++ | + | -- |
| LOOMIS SAYLES | 6/30/84 | 25 | 20 | 94 | 1.71 | 14.4 | 1.37 | 0.70 | ++ | ++ | - | + | ++ | 0 |
| LOOMIS SAYLES | 3/31/84 | 6 | 22 | 93 | 1.93 | 13.2 | 1.37 | 0.66 | ++ | ++ | -- | + | + | + |
| LOOMIS SAYLES | 12/31/83 | 39 | 19 | 81 | 1.79 | 18.0 | 1.38 | 0.70 | ++ | ++ | -- | + | + | 0 |
| LOOMIS SAYLES | 9/30/83 | 60 | 23 | 95 | 1.28 | 28.8 | 1.53 | 0.75 | ++ | ++ | -- | + | ++ | 0 |
| LOOMIS SAYLES | 6/30/83 | 49 | 19 | 97 | 1.21 | 17.3 | 1.64 | 0.75 | ++ | ++ | -- | + | ++ | ++ |
| LOOMIS SAYLES | 3/31/83 | NA | 20 | 98 | 1.62 | 18.2 | 1.44 | 0.85 | ++ | ++ | -- | 0 | ++ | - |
| NORWEST BANK MPLS | 6/30/84 | 26 | 56 | 89 | 1.96 | 17.4 | 1.39 | 0.83 | ++ | ++ | ++ | ++ | ++ | - |
| NORWEST BANK MPLS | 3/31/84 | 66 | 47 | 87 | 1.65 | 19.2 | 1.28 | 0.82 | ++ | ++ | -- | ++ | ++ | - |
| NORWEST BANK MPLS | 12/31/83 | 92 | 41 | 83 | 1.88 | 19.0 | 1.23 | 0.87 | + | 0 | - | + | + | -- |
| NORWEST BANK MPLS | 9/30/83 | 56 | 53 | 85 | 2.12 | 21.4 | 1.27 | 0.87 | + | 0 | - | + | + | - |
| NORWEST BANK MPLS | 6/30/83 | 95 | 42 | 80 | 2.53 | 16.3 | 1.23 | 0.88 | + | -- | - | + | + | -- |
| NORWEST BANK MPLS | 3/31/83 | NA | 35 | 83 | 2.94 | 14.1 | 1.20 | 0.90 | + | -- | - | + | + | -- |
| SIEBEL CAPITAL | 6/30/84 | 47 | 36 | 63 | 3.22 | 12.3 | 1.27 | 0.88 | + | -- | ++ | ++ | + | 0 |
| SIEBEL CAPITAL | 3/31/84 | 28 | 42 | 78 | 3.07 | 11.5 | 1.25 | 0.88 | + | 0 | + | + | + | 0 |
| SIEBEL CAPITAL | 12/31/83 | 25 | 37 | 90 | 3.14 | 12.4 | 1.16 | 0.89 | 0 | -- | 0 | 0 | - | ++ |
| SIEBEL CAPITAL | 9/30/83 | 26 | 35 | 83 | 3.28 | 12.6 | 1.15 | 0.88 | 0 | 0 | ++ | 0 | 0 | 0 |
| SIEBEL CAPITAL | 6/30/83 | 27 | 36 | 91 | 3.24 | 13.5 | 1.17 | 0.86 | + | 0 | 0 | 0 | 0 | ++ |
| SIEBEL CAPITAL | 3/31/83 | NA | 26 | 80 | 3.38 | 13.5 | 1.15 | 0.85 | + | 0 | - | -- | 0 | + |

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| MANAGER NAME | DATE | QTR. PORT. T/O | # OF STKS | EQUITY ALLOC. | YIELD | P/E | MKT VOLTY | DIVRSFN | Price Var. | PORTFOLIO RISK ORIENTATION | | | | |
|---------------------|----------|----------------------|--------------|------------------|-------|------|--------------|---------|---------------|----------------------------|----------------|------|--------|----------------|
| | | | | | | | | | | Earn. Var. | Earn. Succ. | Size | Growth | Fin. Lever. |
| HERBERT R. SMITH | 6/30/84 | 38 | 67 | 86 | 3.29 | 12.5 | 1.20 | 0.92 | + | + | - | + | + | -- |
| HERBERT R. SMITH | 3/31/84 | 29 | 68 | 84 | 3.12 | 13.9 | 1.22 | 0.91 | + | + | 0 | + | + | 0 |
| HERBERT R. SMITH | 12/31/83 | 46 | 60 | 80 | 2.14 | 18.9 | 1.33 | 0.85 | ++ | ++ | - | ++ | + | ++ |
| HERBERT R. SMITH | 9/30/83 | 40 | 46 | 65 | 2.68 | 19.4 | 1.44 | 0.87 | + | ++ | - | ++ | + | ++ |
| HERBERT R. SMITH | 6/30/83 | 13 | 48 | 65 | 2.36 | 18.2 | 1.46 | 0.83 | ++ | ++ | -- | ++ | ++ | ++ |
| HERBERT R. SMITH | 3/31/83 | NA | 18 | 20 | 2.74 | 13.7 | 1.45 | 0.77 | ++ | ++ | -- | + | + | ++ |
| TRUSTEE & INVESTORS | 6/30/84 | 15 | 40 | 95 | 3.86 | 12.8 | 1.31 | 0.90 | ++ | + | ++ | - | + | ++ |
| TRUSTEE & INVESTORS | 3/31/84 | 25 | 41 | 98 | 3.30 | 14.4 | 1.27 | 0.89 | ++ | + | ++ | 0 | + | ++ |
| TRUSTEE & INVESTORS | 12/31/83 | 17 | 44 | 99 | 2.82 | 18.0 | 1.25 | 0.89 | + | 0 | 0 | + | + | ++ |
| TRUSTEE & INVESTORS | 9/30/83 | 9 | 40 | 98 | 3.04 | 19.8 | 1.26 | 0.92 | + | 0 | ++ | + | + | ++ |
| TRUSTEE & INVESTORS | 6/30/83 | 11 | 34 | 98 | 3.09 | 17.5 | 1.24 | 0.93 | + | 0 | - | + | + | + |
| TRUSTEE & INVESTORS | 3/31/83 | NA | 26 | 71 | 3.80 | 14.4 | 1.24 | 0.93 | + | 0 | - | + | 0 | ++ |
| WADDELL & REED | 6/30/84 | 81 | 13 | 21 | 2.08 | 10.9 | 1.56 | 0.52 | ++ | ++ | ++ | ++ | + | + |
| WADDELL & REED | 3/31/84 | 35 | 21 | 31 | 2.63 | 12.6 | 1.31 | 0.74 | + | ++ | + | + | 0 | ++ |
| WADDELL & REED | 12/31/83 | 103 | 10 | 31 | 2.45 | 17.2 | 1.36 | 0.72 | ++ | + | -- | ++ | ++ | -- |
| WADDELL & REED | 9/30/83 | 9 | 17 | 73 | 1.41 | 27.4 | 1.41 | 0.73 | ++ | 0 | -- | ++ | + | -- |
| WADDELL & REED | 6/30/83 | 38 | 16 | 75 | 1.51 | 21.0 | 1.48 | 0.74 | ++ | 0 | -- | ++ | ++ | + |
| WADDELL & REED | 3/31/83 | NA | 17 | 79 | 2.04 | 14.9 | 1.50 | 0.81 | ++ | + | - | ++ | + | ++ |

EXTERNAL EQUITY MANAGERS

SECTOR WEIGHTING HISTORICAL PROFILE

EQUITY SECTOR WEIGHTS

| MANAGER NAME | DATE | TOTAL PORTFOLIO MARKET VALUE | CAP GDS | CONS DUR | CONS NDUR | ENER | FINL | MAT & SERV | TECH | TRAN | UTIL |
|--------------------|----------|------------------------------|---------|----------|-----------|------|------|------------|------|------|------|
| AVG. EXT. MANAGERS | 6/30/84 | --- | 4.0 | 7.6 | 28.6 | 4.2 | 12.5 | 10.9 | 23.4 | 5.4 | 3.4 |
| AVG. EXT. MANAGERS | 3/31/84 | --- | 5.2 | 7.6 | 24.0 | 5.7 | 13.2 | 13.3 | 22.7 | 5.1 | 3.1 |
| AVG. EXT. MANAGERS | 12/31/83 | --- | 6.0 | 6.4 | 23.5 | 3.0 | 12.2 | 15.1 | 24.0 | 6.3 | 3.5 |
| AVG. EXT. MANAGERS | 9/30/83 | --- | 3.6 | 5.9 | 28.9 | 3.1 | 12.8 | 13.5 | 24.2 | 5.7 | 2.4 |
| AVG. EXT. MANAGERS | 6/30/83 | --- | 3.7 | 6.1 | 30.2 | 3.6 | 15.1 | 11.7 | 21.2 | 5.8 | 2.5 |
| AVG. EXT. MANAGERS | 3/31/83 | --- | 2.8 | 4.3 | 30.6 | 3.6 | 15.2 | 11.4 | 23.5 | 4.9 | 3.8 |
| FRED ALGER | 6/30/84 | 49,936,760 | 14.0 | 8.0 | 30.7 | --- | 3.8 | 11.5 | 29.5 | 2.6 | --- |
| FRED ALGER | 3/31/84 | 51,737,228 | 13.3 | 4.3 | 28.8 | --- | 3.4 | 18.3 | 31.9 | --- | --- |
| FRED ALGER | 12/31/83 | 55,644,200 | 13.2 | 6.6 | 21.7 | --- | 6.4 | 18.1 | 33.9 | --- | --- |
| FRED ALGER | 9/30/83 | 56,169,879 | 5.7 | 6.8 | 26.9 | --- | 8.4 | 23.3 | 29.0 | --- | --- |
| FRED ALGER | 6/30/83 | 58,138,999 | 4.9 | 8.5 | 35.0 | 3.5 | 8.2 | 18.0 | 21.9 | --- | --- |
| FRED ALGER | 3/31/83 | 51,420,548 | 1.4 | 7.5 | 37.0 | --- | 9.0 | 22.0 | 23.1 | --- | --- |
| ALLIANCE CAPITAL | 6/30/84 | 48,457,996 | --- | 8.1 | 51.6 | --- | 6.9 | --- | 23.5 | 9.9 | --- |
| ALLIANCE CAPITAL | 3/31/84 | 47,427,119 | --- | 8.3 | 48.0 | 2.7 | 5.6 | --- | 25.1 | 10.4 | --- |
| ALLIANCE CAPITAL | 12/31/83 | 52,725,699 | 0.8 | 7.5 | 45.3 | --- | 6.8 | 2.4 | 24.2 | 13.1 | --- |
| ALLIANCE CAPITAL | 9/30/83 | 52,945,082 | 2.8 | 5.4 | 45.9 | --- | 9.2 | --- | 24.6 | 12.1 | --- |
| ALLIANCE CAPITAL | 6/30/83 | 57,538,354 | 2.2 | 4.7 | 42.3 | --- | 8.2 | 7.5 | 22.7 | 12.4 | --- |
| ALLIANCE CAPITAL | 3/31/83 | 51,037,067 | --- | 3.5 | 49.9 | 2.7 | 6.7 | 3.6 | 23.5 | 10.0 | --- |
| BEUTEL GOODMAN | 6/30/84 | 55,295,358 | 9.3 | --- | 21.1 | --- | 30.4 | 32.4 | 6.7 | --- | --- |
| BEUTEL GOODMAN | 3/31/84 | 56,896,258 | 8.9 | --- | 18.6 | --- | 27.2 | 39.3 | 6.0 | --- | --- |
| BEUTEL GOODMAN | 12/31/83 | 57,233,781 | 9.8 | --- | 20.2 | --- | 11.2 | 46.2 | 5.4 | 7.2 | --- |
| BEUTEL GOODMAN | 9/30/83 | 55,416,939 | 8.8 | --- | 22.0 | --- | 13.1 | 43.5 | 4.7 | 8.0 | --- |
| BEUTEL GOODMAN | 6/30/83 | 54,835,808 | 11.0 | --- | 18.5 | --- | 17.4 | 42.4 | --- | 10.6 | --- |
| BEUTEL GOODMAN | 3/31/83 | 50,442,256 | --- | --- | 15.7 | --- | 15.4 | 52.1 | --- | 16.8 | --- |
| BMI CAPITAL | 6/30/84 | 8,533,642 | 3.2 | 16.4 | 37.4 | --- | --- | 11.5 | 31.5 | --- | --- |
| BMI CAPITAL | 3/31/84 | 8,366,038 | 4.3 | 12.7 | 39.3 | --- | --- | 17.8 | 25.9 | --- | --- |
| BMI CAPITAL | 12/31/83 | 9,784,767 | 7.4 | 12.1 | 28.4 | --- | 6.6 | 19.0 | 26.4 | --- | --- |
| BMI CAPITAL | 9/30/83 | 10,420,827 | 7.6 | 11.2 | 37.1 | --- | 6.4 | 18.6 | 19.2 | --- | --- |
| BMI CAPITAL | 6/30/83 | 11,285,353 | 7.9 | 12.7 | 44.2 | --- | 9.8 | 15.9 | 9.5 | --- | --- |
| BMI CAPITAL | 3/31/83 | 10,081,983 | 10.6 | 8.1 | 35.3 | --- | 12.3 | 22.0 | 11.8 | --- | --- |
| FORSTMANN-LEFF | 6/30/84 | 51,218,131 | 3.7 | 3.6 | 40.2 | --- | 7.0 | 10.3 | 24.3 | 7.2 | 3.7 |
| FORSTMANN-LEFF | 3/31/84 | 52,083,507 | 7.6 | 3.0 | 37.0 | --- | 6.0 | 14.5 | 23.1 | 6.0 | 2.8 |
| FORSTMANN-LEFF | 12/31/83 | 55,421,154 | 5.7 | 13.6 | 35.5 | 5.8 | 3.9 | 8.4 | 18.7 | 5.3 | 3.1 |
| FORSTMANN-LEFF | 9/30/83 | 55,775,736 | --- | 14.6 | 52.3 | 3.3 | 4.5 | 5.3 | 15.1 | 4.8 | --- |
| FORSTMANN-LEFF | 6/30/83 | 56,471,479 | --- | 12.7 | 61.4 | --- | 2.7 | 7.2 | 11.7 | 4.3 | --- |
| FORSTMANN-LEFF | 3/31/83 | 51,390,160 | 2.1 | 4.7 | 50.7 | 5.9 | 4.7 | 10.3 | 17.4 | 4.2 | --- |

EQUITY SECTOR WEIGHTS

| MANAGER NAME | DATE | TOTAL PORTFOLIO MARKET VALUE | CAP GDS | CONS DUR | CONS NDUR | ENER | FINL | MAT & SERV | TECH | TRAN | UTIL |
|---------------------|----------|---------------------------------------|------------|-------------|--------------|------|------|------------------|------|------|------|
| HELLMAN JORDAN | 6/30/84 | 47,929,367 | 1.8 | 12.4 | 13.8 | 1.2 | 16.4 | 21.2 | 12.6 | 11.1 | 9.6 |
| HELLMAN JORDAN | 3/31/84 | 49,895,127 | --- | 12.4 | 19.5 | 6.4 | 15.7 | 15.7 | 4.3 | 8.8 | 17.2 |
| HELLMAN JORDAN | 12/31/83 | 50,182,761 | --- | 14.8 | 30.0 | 6.0 | 16.5 | 10.4 | 2.1 | 3.0 | 17.2 |
| HELLMAN JORDAN | 9/30/83 | 50,713,576 | --- | 15.0 | 47.4 | --- | 19.5 | 3.5 | 3.3 | 4.7 | 6.5 |
| HELLMAN JORDAN | 6/30/83 | 52,402,164 | --- | 3.8 | 23.3 | --- | 35.9 | --- | 24.8 | --- | 12.2 |
| HELLMAN JORDAN | 3/31/83 | 49,541,253 | --- | --- | 15.1 | --- | 33.4 | 4.6 | 27.2 | --- | 19.7 |
| INVESTMENT ADVISERS | 6/30/84 | 50,388,386 | 5.5 | 5.9 | 26.3 | 6.2 | 18.8 | 9.1 | 20.6 | 3.7 | 3.9 |
| INVESTMENT ADVISERS | 3/31/84 | 51,864,720 | 5.8 | 5.4 | 30.2 | 8.9 | 21.5 | 7.7 | 15.6 | 3.9 | 1.0 |
| INVESTMENT ADVISERS | 12/31/83 | 54,533,402 | 6.3 | 6.3 | 25.0 | 5.8 | 21.9 | 9.7 | 15.7 | 6.1 | 3.2 |
| INVESTMENT ADVISERS | 9/30/83 | 53,819,067 | 5.8 | 6.2 | 30.6 | 6.0 | 13.4 | 9.1 | 18.3 | 7.1 | 3.5 |
| INVESTMENT ADVISERS | 6/30/83 | 54,812,985 | 6.5 | 6.6 | 24.7 | 11.7 | 9.7 | 9.8 | 16.9 | 10.3 | 3.9 |
| INVESTMENT ADVISERS | 3/31/83 | 50,748,987 | 6.5 | 9.1 | 26.0 | 10.2 | 7.3 | 15.0 | 17.7 | 5.0 | 3.2 |
| IDS ADVISORY | 6/30/84 | 50,278,968 | --- | 5.3 | 27.6 | 8.1 | 6.8 | 7.6 | 19.2 | 4.8 | 20.6 |
| IDS ADVISORY | 3/31/84 | 50,085,955 | 4.8 | 10.1 | 12.4 | 9.6 | 8.7 | 14.3 | 15.2 | 9.5 | 15.4 |
| IDS ADVISORY | 12/31/83 | 54,006,960 | 4.9 | 7.6 | 18.0 | --- | 8.8 | 19.0 | 26.1 | 6.0 | 9.6 |
| IDS ADVISORY | 9/30/83 | 54,334,602 | --- | 4.1 | 24.3 | 3.4 | 6.0 | 19.7 | 33.8 | 5.4 | 3.4 |
| IDS ADVISORY | 6/30/83 | 57,561,715 | 4.2 | 12.0 | 30.5 | 4.5 | 4.2 | 6.7 | 33.7 | 4.3 | --- |
| IDS ADVISORY | 3/31/83 | 50,689,028 | 5.4 | 9.2 | 30.7 | 5.4 | 9.8 | 6.4 | 26.3 | --- | 6.6 |
| LIEBER & COMPANY | 6/30/84 | 23,927,529 | 2.6 | 3.3 | 34.8 | 3.5 | 21.1 | 16.7 | 15.3 | 1.8 | 0.8 |
| LIEBER & COMPANY | 3/31/84 | 24,261,218 | 3.6 | 6.4 | 32.3 | 4.9 | 17.3 | 16.8 | 16.3 | 1.8 | 0.7 |
| LIEBER & COMPANY | 12/31/83 | 11,159,936 | 7.7 | 4.5 | 33.7 | 3.5 | 16.7 | 22.3 | 6.1 | 5.6 | --- |
| LIEBER & COMPANY | 9/30/83 | 11,016,060 | 6.5 | 3.5 | 31.0 | 4.7 | 18.0 | 25.4 | 5.4 | 5.5 | --- |
| LIEBER & COMPANY | 6/30/83 | 11,233,248 | 6.4 | 5.0 | 33.3 | 5.0 | 16.5 | 23.9 | 3.3 | 6.6 | --- |
| LIEBER & COMPANY | 3/31/83 | 10,063,917 | 8.3 | --- | 23.1 | 3.9 | 11.6 | 41.0 | 5.6 | 6.4 | --- |
| LOOMIS SAYLES | 6/30/84 | 43,613,462 | 7.6 | 12.8 | 16.1 | --- | 4.9 | 8.8 | 33.8 | 16.0 | --- |
| LOOMIS SAYLES | 3/31/84 | 45,336,835 | 11.2 | 15.1 | 3.4 | --- | 5.1 | 12.8 | 38.2 | 14.3 | --- |
| LOOMIS SAYLES | 12/31/83 | 49,181,570 | 11.6 | 16.1 | 3.3 | --- | 5.2 | 14.0 | 33.5 | 16.4 | --- |
| LOOMIS SAYLES | 9/30/83 | 50,182,549 | 3.5 | 14.5 | 13.3 | --- | 10.6 | 5.2 | 44.9 | 8.0 | --- |
| LOOMIS SAYLES | 6/30/83 | 55,042,543 | 3.1 | 9.0 | 12.1 | --- | 34.6 | 10.8 | 20.4 | 9.9 | --- |
| LOOMIS SAYLES | 3/31/83 | 50,105,254 | --- | 4.8 | 19.8 | --- | 25.4 | 9.1 | 30.7 | 10.1 | --- |
| NORWEST BANK MPLS | 6/30/84 | 24,546,941 | 2.8 | 5.5 | 31.2 | 5.8 | 1.0 | 9.3 | 38.9 | 4.3 | 1.3 |
| NORWEST BANK MPLS | 3/31/84 | 10,385,041 | 3.6 | 4.4 | 23.1 | 8.5 | 1.1 | 7.2 | 45.5 | 5.4 | 1.1 |
| NORWEST BANK MPLS | 12/31/83 | 11,215,761 | 2.5 | 1.6 | 25.5 | 1.2 | 3.2 | 6.0 | 51.8 | 1.7 | 6.6 |
| NORWEST BANK MPLS | 9/30/83 | 11,816,270 | 1.2 | --- | 31.6 | 3.3 | 2.0 | 8.4 | 46.1 | 1.4 | 5.8 |
| NORWEST BANK MPLS | 6/30/83 | 12,126,921 | 4.8 | --- | 36.4 | 5.2 | 8.9 | 4.8 | 33.0 | 2.9 | 3.3 |
| NORWEST BANK MPLS | 3/31/83 | 10,417,512 | 7.0 | 1.8 | 47.1 | 4.2 | 13.5 | --- | 20.1 | 6.3 | --- |
| SIEBEL CAPITAL | 6/30/84 | 49,523,376 | 4.1 | 4.8 | 38.8 | --- | 25.9 | 7.4 | 17.6 | 1.4 | --- |
| SIEBEL CAPITAL | 3/31/84 | 49,328,007 | 3.6 | 1.3 | 26.4 | --- | 25.8 | 11.4 | 29.2 | 2.4 | --- |
| SIEBEL CAPITAL | 12/31/83 | 53,482,144 | 3.6 | 1.7 | 27.9 | --- | 24.0 | 11.7 | 24.6 | 2.6 | 3.8 |
| SIEBEL CAPITAL | 9/30/83 | 54,520,467 | 3.5 | --- | 32.7 | 2.8 | 25.1 | 7.2 | 19.3 | 5.0 | 4.4 |
| SIEBEL CAPITAL | 6/30/83 | 56,381,931 | 2.6 | --- | 36.4 | 1.7 | 22.6 | 6.2 | 20.1 | 5.4 | 5.0 |
| SIEBEL CAPITAL | 3/31/83 | 51,621,595 | 4.6 | --- | 28.8 | --- | 18.5 | 5.3 | 30.0 | 6.7 | 6.2 |

EQUITY SECTOR WEIGHTS

| MANAGER NAME | DATE | TOTAL PORTFOLIO MARKET VALUE | CAP GDS | CONS DUR | CONS NDUR | ENER | FINL | MAT & SERV | TECH | TRAN | UTIL |
|---------------------|----------|---------------------------------------|------------|-------------|--------------|------|------|------------------|------|------|------|
| HERBERT R. SMITH | 6/30/84 | 42,860,060 | 2.4 | 0.3 | 24.4 | 25.5 | 10.6 | 7.5 | 20.9 | 7.4 | 1.1 |
| HERBERT R. SMITH | 3/31/84 | 44,150,474 | 3.3 | 0.2 | 10.1 | 28.8 | 16.9 | 12.8 | 18.6 | 9.1 | --- |
| HERBERT R. SMITH | 12/31/83 | 46,441,280 | 4.4 | 0.4 | 15.4 | 10.6 | 14.5 | 8.8 | 30.2 | 15.8 | --- |
| HERBERT R. SMITH | 9/30/83 | 48,910,462 | 2.2 | 0.6 | 12.7 | 9.4 | 22.1 | 15.6 | 23.2 | 9.4 | 4.8 |
| HERBERT R. SMITH | 6/30/83 | 53,176,398 | 2.0 | 0.6 | 15.5 | 5.2 | 17.6 | 13.9 | 29.4 | 7.3 | 6.7 |
| HERBERT R. SMITH | 3/31/83 | 50,198,982 | 4.8 | --- | 32.6 | --- | 20.5 | --- | 34.7 | 7.4 | --- |
| TRUSTEE & INVESTORS | 6/30/84 | 44,119,650 | 2.5 | --- | 9.9 | 11.9 | 17.6 | 9.4 | 38.8 | --- | 10.0 |
| TRUSTEE & INVESTORS | 3/31/84 | 47,158,224 | 2.5 | --- | 10.0 | 16.0 | 17.3 | 10.1 | 35.3 | --- | 8.7 |
| TRUSTEE & INVESTORS | 12/31/83 | 50,974,369 | 2.4 | --- | 12.9 | 9.3 | 16.7 | 9.5 | 41.4 | --- | 7.7 |
| TRUSTEE & INVESTORS | 9/30/83 | 53,062,524 | 2.5 | --- | 15.6 | 10.5 | 17.1 | 8.8 | 38.4 | --- | 7.1 |
| TURSTEE & INVESTORS | 6/30/83 | 57,620,180 | 2.9 | 3.2 | 17.0 | 11.5 | 18.9 | 10.3 | 29.7 | --- | 6.5 |
| TRUSTEE & INVESTORS | 3/31/83 | 50,154,412 | 3.6 | --- | 12.2 | 14.4 | 24.1 | 10.2 | 24.1 | --- | 11.4 |
| WADDELL & REED | 6/30/84 | 25,495,564 | --- | 29.0 | 25.7 | --- | 15.7 | --- | 17.8 | 11.8 | --- |
| WADDELL & REED | 3/31/84 | 25,833,644 | 5.2 | 32.1 | 21.4 | --- | 25.0 | --- | 11.7 | 4.5 | --- |
| WADDELL & REED | 12/31/83 | 11,409,742 | 12.8 | 32.4 | --- | --- | 33.9 | --- | 20.9 | --- | --- |
| WADDELL & REED | 9/30/83 | 12,042,511 | 5.8 | 13.4 | 22.5 | --- | 5.1 | --- | 38.2 | 15.0 | --- |
| WADDELL & REED | 6/30/83 | 12,464,478 | 5.7 | 13.2 | 29.2 | 3.3 | 5.0 | --- | 31.1 | 12.5 | --- |
| WADDELL & REED | 3/31/83 | 10,013,713 | 5.5 | 13.8 | 15.5 | 2.5 | 29.1 | --- | 27.2 | 6.4 | --- |
| WILSHIRE 5000 | 6/30/84 | --- | 5.3 | 4.0 | 25.7 | 13.5 | 9.6 | 11.7 | 15.6 | 2.9 | 11.7 |
| WILSHIRE 5000 | 3/31/84 | --- | 5.4 | 3.9 | 23.6 | 16.1 | 9.8 | 12.1 | 15.3 | 2.9 | 11.1 |
| WILSHIRE 5000 | 12/31/83 | --- | 5.5 | 4.2 | 24.0 | 14.5 | 9.5 | 12.2 | 16.3 | 2.8 | 11.1 |
| WILSHIRE 5000 | 9/30/83 | --- | 5.2 | 4.0 | 24.3 | 14.8 | 9.4 | 11.8 | 16.3 | 2.9 | 11.3 |
| WILSHIRE 5000 | 6/30/83 | --- | 5.3 | 3.9 | 24.9 | 15.0 | 9.3 | 11.6 | 16.3 | 2.9 | 10.9 |
| WILSHIRE 5000 | 3/31/83 | --- | 5.1 | 3.5 | 25.2 | 14.6 | 9.8 | 12.3 | 14.9 | 2.9 | 11.8 |

STATE OF MINNESOTA
STATE BOARD OF INVESTMENT
COMPOSITION OF STATE INVESTMENT PORTFOLIO'S BY TYPE OF INVESTMENT
MARKET VALUE JUNE 30, 1984

| | CASH AND SHORT TERM SECURITIES | BONDS | | STOCKS | | ALTERNATIVE ASSETS | TOTAL |
|--------------------------------------|--------------------------------------|-------------------------------|-----------------------------|-----------------------------|-------------------------------|----------------------------|-----------------------------|
| | | INTERNAL | EXTERNAL | INTERNAL | EXTERNAL | | |
| BASIC RETIREMENT FUNDS: | | | | | | | |
| TEACHERS RETIREMENT FUND | \$ 55,687 4.59% | \$ -0- | \$344,497 28.37% | \$ -0- | \$ 725,783 59.76% | \$ 88,414 7.28% | \$1,214,381 100% |
| PUBLIC EMPLOYEES RETIRE. FUND | 27,938 2.97% | -0- | 268,023 28.45% | -0- | 576,536 61.19% | 69,630 7.39% | 942,127 100% |
| STATE EMPLOYEES RETIRE. FUND | 46,609 7.64% | -0- | 171,171 28.06% | -0- | 348,568 57.13% | 43,778 7.17% | 610,126 100% |
| PUBLIC EMP. POLICE & FIRE FUND | 20,194 9.55% | -0- | 58,629 27.74% | -0- | 117,576 55.62% | 14,987 7.09% | 211,386 100% |
| HIGHWAY PATROL RETIRE. FUND | 2,940 6.84% | -0- | 11,475 26.70% | -0- | 25,445 59.22% | 3,109 7.24% | 42,969 100% |
| JUDGES RETIREMENT FUND | 230 7.73% | -0- | 735 24.71% | -0- | 1,779 59.80% | 231 7.76% | 2,975 100% |
| POST RETIREMENT FUND | 278,092 15.30% | 886,807 48.77% | -0- | 653,355 35.93% | -0- | -0- | 1,818,254 100% |
| MINNESOTA SUPPLEMENTAL FUNDS: | | | | | | | |
| INCOME SHARE ACCOUNT | 9,783 8.97% | 38,294 35.12% | -0- | 52,433 48.08% | 8,534 7.83% | -0- | 109,044 100% |
| GROWTH SHARE ACCOUNT | 6,864 12.69% | -0- | -0- | 21,740 40.18% | 25,496 47.13% | -0- | 54,100 100% |
| FIXED RETURN ACCOUNT | 11,673 22.79% | 39,546 77.21% | -0- | -0- | -0- | -0- | 51,219 100% |
| BOND ACCOUNT | 98 3.34% | 2,841 96.66% | -0- | -0- | -0- | -0- | 2,939 100% |
| MINNESOTA VARIABLE ANNUITY | 8,920 9.38% | -0- | -0- | 37,706 39.65% | 48,474 50.97% | -0- | 95,100 100% |
| TOTAL RETIREMENT FUNDS | \$ 469,028 9.10% | \$ 967,488 18.77% | \$854,530 16.58% | \$765,234 14.84% | \$1,878,191 36.44% | \$220,149 4.27% | \$5,154,620 100% |
| PERMANENT SCHOOL FUND | 57,993 21.24% | 169,691 62.17% | -0- | 45,277 16.59% | -0- | -0- | 272,961 100% |
| TREASURERS CASH | 775,811 100% | -0- | -0- | -0- | -0- | -0- | 775,811 100% |
| TRANSPORTATION FUNDS | 392,344 100% | -0- | -0- | -0- | -0- | -0- | 392,344 100% |
| STATE BUILDING FUNDS | 116,506 100% | -0- | -0- | -0- | -0- | -0- | 116,506 100% |
| HOUSING FINANCE AGENCY | 158,220 100% | -0- | -0- | -0- | -0- | -0- | 158,220 100% |
| MINNESOTA DEBT SERVICE FUND | 162,379 100% | -0- | -0- | -0- | -0- | -0- | 162,379 100% |
| MISCELLANEOUS ACCOUNTS | 296,765 100% | -0- | -0- | -0- | -0- | -0- | 296,765 100% |
| TACONITE AREA ENVIR. PROTECTION | 12,313 100% | -0- | -0- | -0- | -0- | -0- | 12,313 100% |
| N.E. MINNESOTA PROTECTION | 43,720 100% | -0- | -0- | -0- | -0- | -0- | 43,720 100% |
| GRAND TOTAL | \$2,485,079 33.65% | \$1,137,179 15.40% | \$854,530 11.57% | \$810,511 10.97% | \$1,878,191 25.43% | \$220,149 2.98% | \$7,385,639 100% |

**FISCAL 1984 EQUITIES TRANSACTION SUMMARY
ALL FUNDS COMBINED**

| Security Description | Units Bought | Units Sold | Security Description | Units Bought | Units Sold |
|----------------------------------|--------------|------------|--------------------------------|--------------|------------|
| A & M Food Services | 41,800 | 0 | Anixter Bros. | 21,000 | 0 |
| A. G. Edwards, Inc. | 26,000 | 0 | Apache Corp. | 58,000 | 0 |
| Abbott Labs | 145,500 | 0 | Apogee Enterprises | 14,800 | 5,500 |
| ACCO World Corp. | 2,800 | 0 | Apollo Computer Inc. | 11,800 | 11,800 |
| ACF Industries Inc. | 14,600 | 5,000 | Apple Computer | 44,000 | 25,000 |
| Adage Inc. | 10,000 | 0 | Applied Circuit Tech. | 13,000 | 0 |
| Adobe Oil & Gas | 35,000 | 0 | Applied Data Res. | 20,600 | 7,000 |
| Advanced Micro Dev. | 196,400 | 134,700 | Applied Magnetics | 10,000 | 0 |
| Advanced Semi Conductor | 21,500 | 3,500 | Applied Materials Inc. | 30,000 | 0 |
| Aetna Life and Casualty Co. | 75,400 | 0 | ARA Services | 18,200 | 0 |
| AFG Inds Inc. | 31,000 | 0 | Archer Daniels Midland Co. | 1,251,050 | 1,180,100 |
| Agency Rent A Car | 15,100 | 0 | Arizona Pub. Service Co. | 50,100 | 0 |
| Ahmanson H.F. Co. | 91,000 | 124,000 | Arkla Incorporated | 39,000 | 90,000 |
| Air Midwest Inc. | 39,900 | 0 | Armco Inc. | 39,000 | 0 |
| Air Products & Chem. Inc. | 132,000 | 327,500 | Armstrong Ind. Inc. | 24,800 | 0 |
| Airborne Fght. Corp. | 24,000 | 0 | Arvin Inds. Inc. | 27,000 | 0 |
| AirCal Inc. | 16,500 | 0 | ASA Ltd. | 22,100 | 7,100 |
| Alaska Airlines Inc. | 45,000 | 0 | Asamera Inc. | 71,000 | 0 |
| Alba Waldensian Inc. | 10,000 | 10,000 | Asarco Inc. | 34,200 | 5,500 |
| Albertsons Inc. | 26,000 | 0 | Ashland Oil Inc. | 34,000 | 0 |
| Alcan Aluminum Ltd. | 77,900 | 35,000 | Ask Computer | 25,000 | 0 |
| Alco Standard Corp. | 37,900 | 0 | Assoc. Dry Goods | 26,100 | 2,600 |
| Alexander & Alexander | 63,000 | 67,300 | Atlantic Bancorportion | 36,000 | 0 |
| Alexander & Baldwin Inc. | 12,000 | 0 | Atlantic City Electric Co. | 28,000 | 0 |
| Alleghany Corp. | 11,000 | 0 | Atlantic Research Corp. | 7,600 | 7,600 |
| Allegheny & Western Energy Corp. | 500 | 0 | Atlantic Richfield | 767,500 | 1,344,900 |
| Allegheny Beverage Corp. | 41,000 | 0 | Atwood Oceanics Inc. | 1,000 | 0 |
| Allegheny International | 57,000 | 0 | Augat Inc. | 12,000 | 0 |
| Allegheny Power Sys. Inc. | 35,600 | 0 | Automatic Data Processing Inc. | 27,300 | 0 |
| Allen Group Inc. | 8,000 | 0 | Auxton Comp. Enterprises | 18,100 | 0 |
| Alliance Technology Fd. Inc. | 55,866 | 0 | Avante Garde Corp. | 7,000 | 7,000 |
| Allied Bancshares Inc. | 250,001 | 32,252 | Avantek Inc. | 27,000 | 0 |
| Allied Corporation | 163,000 | 39,250 | Avco Corp. | 631,100 | 1,028,000 |
| Allied Stores Corp. | 15,800 | 0 | Avery Intl. Corp. | 20,000 | 6,000 |
| Allis Chalmers Corp. | 40,000 | 0 | Avnet Inc. | 27,000 | 0 |
| Alltel Corp. | 26,000 | 0 | Avon Products Inc. | 417,200 | 604,900 |
| Alpha Industry Inc. | 0 | 13,000 | AVX Corp. | 24,000 | 0 |
| Aluminum Co. of America | 126,900 | 56,900 | Axia Inc. | 23,600 | 0 |
| Amax Inc. | 51,000 | 0 | Aydin Corp. | 23,500 | 0 |
| Amdahl Corp. | 36,600 | 0 | Bairnco Corp. | 20,500 | 0 |
| Amer. Bank Insurance Group | 0 | 7,000 | Baker International Corp. | 75,200 | 23,000 |
| Amer. District Telegraph | 44,200 | 15,200 | Baldwin United Corp. | 0 | 30,000 |
| Amer. Ecology Inc. | 2,443 | 1,200 | Bally Manufacturing Co. | 32,800 | 0 |
| Amer. General Corp. Pfd. 2.64 | 420,100 | 21,400 | Baltimore Gas & Electric Co. | 28,500 | 0 |
| Amer. General Corp. Warrants | 10,700 | 10,700 | Banc One Corp. | 29,000 | 0 |
| Amer. General Corp. | 54,650 | 13,450 | BancOhio Corp. | 30,000 | 0 |
| Amer. International Group Inc. | 185,000 | 60,200 | Bandag Inc. | 11,000 | 0 |
| Amer. Medical Int'l. | 198,000 | 4,200 | Bank Boston Corp. | 11,000 | 0 |
| Amerada Hess Corp. | 346,200 | 377,800 | Bank of NY Co. Inc. | 20,000 | 0 |
| American Brands Inc. | 49,500 | 0 | Bank VA Co. | 12,600 | 0 |
| American Broadcasting Co. | 31,800 | 0 | BankAmerica Corporation | 111,600 | 89,200 |
| American Can Corp. | 21,800 | 0 | Bankers Trust NY Corp. | 377,930 | 105,280 |
| American Carriers | 23,000 | 1,000 | Bard C.R. Inc. | 17,000 | 37,000 |
| American Cyanamid | 183,600 | 168,600 | Barnett Banks Fla. | 20,000 | 0 |
| American Electric Power Inc. | 137,400 | 0 | Barry Wright Corp. | 26,000 | 0 |
| American Express Company | 895,000 | 1,022,251 | Bassett Furniture Inds. Inc. | 14,000 | 0 |
| American Express Warrants | 0 | 150 | Bausch & Lomb Inc. | 24,800 | 0 |
| American Family Corp. | 35,000 | 0 | Baxter Travenol Labs | 459,050 | 1,299,550 |
| American Greetings | 93,200 | 7,500 | Baybanks Inc. | 18,000 | 0 |
| American Home Products Corp. | 19,300 | 79,300 | Bayly Corp. | 34,700 | 0 |
| American Hospital Supply | 96,700 | 49,400 | Beatrice Foods Co. | 92,100 | 0 |
| American Mtr. Inns Inc. | 19,000 | 0 | Becton Dickinson & Co. | 12,000 | 0 |
| American Natl. Ins. Co. | 30,000 | 0 | Bell & Howell Co. | 225,650 | 197,250 |
| American Natural Resources Co. | 19,100 | 0 | Bell Atlantic Corp. | 38,800 | 43,481 |
| American Petrofina Inc. | 12,000 | 0 | Bell Canada Enterprises Inc. | 177,000 | 0 |
| American Standard Inc. | 667,250 | 1,166,000 | Bell Industries | 3,500 | 3,500 |
| American Sterilizer Co. | 47,000 | 0 | Bell South Corporation | 21,500 | 22,181 |
| American Stores Co. New | 48,800 | 0 | Belo A. H. Corp. | 18,000 | 0 |
| American Tel. & Tel. New | 58,050 | 35,100 | Beneficial Corporation | 11,000 | 0 |
| American Tel. & Tel. | 1,228,857 | 2,226,697 | Berg Enterprises | 0 | 14,000 |
| American Water Works | 6,000 | 0 | Bergen Brunswick Corp. | 50,500 | 5,500 |
| Amerifin Corp. | 15,000 | 0 | Best Products | 26,000 | 77,400 |
| Ameritech Corp. | 17,300 | 19,981 | Bethlehem Steel | 66,200 | 31,100 |
| Ameritrust Corp. | 17,000 | 0 | Betz Labs Inc. | 13,000 | 0 |
| Ames Department Stores | 14,000 | 3,200 | Beverly Enterprises | 56,000 | 0 |
| Ametek Inc. | 62,400 | 0 | Big Three Industries | 35,000 | 0 |
| AMF Inc. | 44,500 | 0 | Bank of New Hampshire Corp. | 5,100 | 0 |
| Amfac Inc. | 30,200 | 0 | Black & Decker Mfg. Co. | 43,500 | 0 |
| Amfesco Ind. Inc. | 2,100 | 0 | Blair John & Co. | 0 | 8,000 |
| AMP Inc. | 66,900 | 10,200 | Block H & R Inc. | 41,900 | 14,900 |
| AMR Corp. | 276,200 | 219,900 | Blount Inc. | 13,400 | 0 |
| Amstar Corp. | 12,000 | 12,000 | Blue Bell Inc. | 11,000 | 0 |
| Amsted Inds. Inc. | 29,000 | 16,700 | Bob Evans Farms Inc. | 37,000 | 0 |
| Anacomp | 0 | 68,200 | Boeing Company | 956,650 | 1,760,150 |
| Analog Devices Inc. | 27,000 | 0 | Boise Cascade Corp. | 35,500 | 0 |
| Analogic Corp. | 49,000 | 0 | Borden Inc. | 25,800 | 7,000 |
| Anchor Hocking Corp. | 69,700 | 46,700 | Borg-Warner | 634,928 | 1,361,500 |
| Anderson Clayton & Co. | 26,000 | 0 | Borg-Warner ARC11-15-02 | 0 | 5,450 |
| Andrew Corp. | 21,000 | 0 | Boston Edison Co. | 24,000 | 0 |

**FISCAL 1984 EQUITIES TRANSACTION SUMMARY
ALL FUNDS COMBINED**

| Security Description | Units Bought | Units Sold | Security Description | Units Bought | Units Sold |
|--------------------------------|--------------|------------|--|--------------|------------|
| Bowater Inc. | 18,600 | 18,600 | Citizens & Southern GA Corp. | 49,600 | 0 |
| Brascan Ltd. | 21,300 | 0 | Citizens Fid. Corp. | 21,000 | 0 |
| Briggs & Stratton Corp. | 17,000 | 0 | Citizens Utils. Co. Del. | 22,000 | 0 |
| Bristol-Myers Company | 1,409,550 | 1,829,150 | City Fed. Savings & Loan Assn., Eliz, NJ | 55,000 | 0 |
| British Petroleum | 15,900 | 7,750 | City Investing | 262,350 | 194,650 |
| Brooklyn Un. Gas Co. | 21,000 | 0 | Clark Investing Pfd. 2.875 | 35,000 | 35,000 |
| Brooks Fashion Stores Inc. | 35,000 | 0 | Clark Equipment Co. | 24,400 | 0 |
| Brown Group | 234,550 | 20,750 | Cleveland Cliffs & Iron | 27,000 | 0 |
| Browning Ferris Inds. Inc. | 30,600 | 0 | Cleveland Elec. Illum. | 103,200 | 51,200 |
| Brunswick Corp. | 310,400 | 38,300 | Clorox Co. | 38,600 | 57,100 |
| Brush Wellman Inc. | 11,000 | 0 | Cluett Peabody | 90,000 | 60,000 |
| Bucyrus Erie Co. | 28,000 | 0 | CNA Finl Corp. | 50,000 | 0 |
| Builders Transport Inc. | 7,000 | 4,500 | Coachmen Inds. Inc. | 25,000 | 0 |
| Burlington Industries | 124,600 | 212,100 | Coastal Corp. | 20,000 | 0 |
| Burlington Northern Inc. | 213,300 | 9,000 | Coca Cola Bottling Co. Cons. | 20,000 | 0 |
| Burndy Corp. | 33,000 | 0 | Coca Cola Company | 160,000 | 159,600 |
| Burroughs Corporation | 62,500 | 0 | Cole National Corp. | 5,600 | 0 |
| Cabot Corp. | 18,000 | 0 | Coleco Ind. | 10,000 | 13,000 |
| Caesar's World | 53,000 | 53,000 | Coleman Co. Inc. | 11,000 | 0 |
| Calfed Inc. | 30,000 | 0 | Colgate Palmolive | 224,400 | 0 |
| California Federal S & L | 17,000 | 17,000 | Collins & Aikman Corp. | 17,600 | 0 |
| Callahan Mining Corp. | 30,000 | 0 | Collins Foods Intl. | 34,500 | 0 |
| Cameron Iron Works Inc. | 39,000 | 0 | Colonial Penn Group | 16,000 | 30,700 |
| Campbell Red Lakes Mines Ltd. | 50,000 | 0 | Colt Inds. Inc. Del. | 21,800 | 0 |
| Campbell Soup Co. | 33,000 | 0 | Columbia Gas System Inc. | 193,700 | 2,700 |
| Canadian Marconi Co. | 30,000 | 0 | Combined Intl. Corp. | 17,000 | 0 |
| Canadian Pacific Enterprises | 15,000 | 0 | Combustion Engineering | 399,350 | 722,350 |
| Canadian Pacific Ltd. | 227,300 | 2,300 | Comdata Network Inc. | 68,200 | 32,200 |
| Canal-Randolph Corp. | 1,000 | 0 | Comdisco Inc. | 62,500 | 37,500 |
| Capital Cities Communications | 12,700 | 0 | Comerica Inc. | 23,000 | 0 |
| Capital Holding Corp. | 65,200 | 37,300 | Cominco Ltd. | 16,000 | 0 |
| Carl Karcher Enterprises Inc. | 36,800 | 3,800 | Commerce Clearing House Inc. | 6,000 | 0 |
| Carlisle Corp. | 247,150 | 26,250 | Commercial Alliance | 2,000 | 0 |
| Carnation | 51,500 | 5,000 | Commercial Metals Co. | 26,000 | 0 |
| Carolina Freight Corp. | 24,000 | 0 | Commodore Intl. Ltd. | 22,800 | 0 |
| Carolina Power & Light Co. | 48,400 | 0 | Commonwealth Edison Co. | 2,163,916 | 3,993,606 |
| Carpenter Technology Corp. | 13,800 | 0 | Communications Inds. Inc. | 25,000 | 0 |
| Carson Pirie & Co. | 45,100 | 0 | Communications Satellite Corp. | 27,000 | 0 |
| Carter Hawley Hale Stores Inc. | 37,800 | 0 | Comprehensive Care Corp. | 28,000 | 0 |
| Castle & Cooke Inc. | 49,700 | 0 | Compression Labs Inc. | 11,800 | 11,800 |
| Castle Ind. Inc. | 0 | 15,000 | Compugraphic Corp. | 27,000 | 0 |
| Caterpillar Tractor Co. | 84,300 | 0 | Computer Assoc. Intl. Inc. | 25,000 | 0 |
| CBI Inds. Inc. | 12,000 | 0 | Computer Consoles | 4,800 | 0 |
| CBS Incorporated | 125,800 | 95,900 | Computer Memories | 6,000 | 6,000 |
| CBT Corp. | 22,000 | 0 | Computer Sciences Corp. | 85,500 | 0 |
| Celanese Corporation | 148,300 | 56,400 | Computer Vision Corp. | 51,100 | 0 |
| Gen. Jersey B & Tr. | 0 | 7,000 | Conagra Inc. | 108,500 | 18,500 |
| Centel Corp. | 21,000 | 0 | Conair Corp. Del. | 11,000 | 0 |
| Centex Corp. | 27,700 | 0 | Cone MLS Corp. | 10,000 | 10,000 |
| Central & So. West Corp. | 113,200 | 0 | Conifer/Essex Group | 2,000 | 0 |
| Central Ill. Light Co. | 32,000 | 0 | Conroy Inc. | 0 | 18,000 |
| Central Ill. Pub. Service Co. | 41,000 | 0 | Consol. Edison of NY | 358,600 | 260,800 |
| Central LA Electric Co. | 34,000 | 0 | Consol. Foods Corp. | 52,000 | 0 |
| Central Soya Inc. | 46,000 | 0 | Consol. Freightways Inc. | 11,800 | 0 |
| Cenvill Invs. Inc. | 26,000 | 0 | Consol. Natural Gas | 66,700 | 9,700 |
| Certain Teed Products Corp. | 31,400 | 0 | Consolidated Papers Inc. | 13,000 | 0 |
| Cessna Aircraft Co. | 42,000 | 0 | Consumers Power Co. | 45,000 | 0 |
| Cetus Corp. | 59,000 | 0 | Continental Bancorp Inc. PA | 26,000 | 0 |
| CFS Contl. Inc. | 18,000 | 0 | Continental Corp. | 28,000 | 0 |
| Champion International | 103,300 | 62,500 | Continental Group Inc. | 139,800 | 177,250 |
| Champion Spark Plug Co. | 64,000 | 0 | Continental Ill. Corp. | 38,000 | 0 |
| Charming Shoppes Inc. | 28,000 | 0 | Continental Telecom. Inc. | 401,200 | 420,300 |
| Chart House Inc. | 19,000 | 79,000 | Contl. Air | 2,500 | 15,900 |
| Charter Co. | 67,000 | 67,000 | Contl. Air 9% CV Pfd. | 0 | 6,500 |
| Charter Med. Corp. | 32,000 | 0 | Control Data Corp. | 221,400 | 164,200 |
| Chase Manhattan Corp. | 203,700 | 0 | Convergent Tech. | 129,100 | 37,400 |
| Chem-Lawn Corp. | 21,000 | 6,000 | Conwood Corp. | 25,900 | 25,900 |
| Chemed Corporation | 12,000 | 0 | Cooper Inds. Inc. | 69,600 | 37,000 |
| Chemical New York Corp. | 354,600 | 3,700 | Cooper Labs Inc. | 57,000 | 20,000 |
| Chesapeake Corp. VA | 16,000 | 0 | Cooper Tire & Rubber | 403,850 | 9,100 |
| Chesebrough-Ponds Inc. | 25,500 | 0 | Coopervision Inc. | 44,000 | 44,000 |
| Chi-Chis Inc. | 29,000 | 0 | Condura Corp. | 31,800 | 0 |
| Chicago & NW Trans. | 16,000 | 16,000 | Corestates Finl. Corp. | 21,000 | 0 |
| Chieftain Dev. Ltd. | 21,000 | 0 | Corning Glass Works | 35,100 | 0 |
| Chromalloy American Corp. Del. | 57,000 | 0 | Corroon & Black Corp. | 11,000 | 0 |
| Chrysler Corp. | 180,800 | 104,500 | Countryside Cr. Ind. | 17,000 | 0 |
| Chubb Corporation | 22,500 | 14,400 | Cox Communications Inc. | 48,800 | 0 |
| Churchs Fried Chickens | 212,900 | 164,700 | CPC International Inc. | 223,900 | 156,000 |
| Cigna Corporation | 71,600 | 0 | CPT Corp. | 18,000 | 21,100 |
| Cincinnati Bell Inc. | 3,000 | 0 | Crane Co. | 106,000 | 84,660 |
| Cincinnati Finl Corp. | 10,000 | 0 | Cray Resh Inc. | 12,100 | 0 |
| Cincinnati Gas & Electric Co. | 48,100 | 48,100 | Crocker National Corp. | 31,700 | 14,700 |
| Cincinnati Milacron Inc. | 18,000 | 0 | Cross & Trecker | 24,000 | 10,000 |
| Cintas Corp. | 7,000 | 7,000 | Cross A. T. Co. | 22,500 | 0 |
| Cipher Data Products Inc. | 28,000 | 0 | Crown Cork & Seal | 236,550 | 72,500 |
| Circle K Corp. | 21,000 | 0 | Crown Zellerbach Corp. | 27,400 | 0 |
| Circus Circus Enter. | 4,000 | 4,000 | CSX Corporation | 310,700 | 262,000 |
| Citicorp | 1,093,100 | 1,699,700 | Cullen Frost Bankers Inc. | 23,000 | 0 |
| Citizens & Southern Corp. | 20,000 | 0 | | | |

FISCAL 1984 EQUITIES TRANSACTION SUMMARY
ALL FUNDS COMBINED

| Security Description | Units Bought | Units Sold | Security Description | Units Bought | Units Sold |
|-------------------------------|--------------|------------|----------------------------------|--------------|------------|
| Cullinet Software Inc. | 43,300 | 18,300 | Faberge Inc. | 27,000 | 0 |
| Cummins Engine Co. | 116,100 | 77,500 | Fairchild Inds. Inc. | 37,000 | 0 |
| Dale Electronics | 5,000 | 0 | Fairfield Commun. Inc. | 10,000 | 0 |
| Dana Corporation | 38,000 | 67,500 | Falconbridge Ltd. | 10,000 | 0 |
| Dart & Kraft Inc. | 150,300 | 90,700 | Family Dlr. Stores Inc. | 34,000 | 0 |
| Dart Drug Corp. | 0 | 5,000 | Farm Fresh Inc. | 35,000 | 0 |
| Data General Corp. | 101,500 | 45,000 | Farmers Group Inc. | 61,000 | 9,000 |
| Data Switch Corp. | 20,000 | 0 | Federal Co. | 21,000 | 0 |
| Datapoint Corp. | 41,600 | 17,000 | Federal Express Corp. | 128,300 | 15,300 |
| Dataproducs Corp. | 23,000 | 20,000 | Federal Natl. Mtg. | 2,505,900 | 2,292,300 |
| Datum Inc. | 16,300 | 42,200 | Federal Paper Brd Inc. | 16,000 | 0 |
| Dauphin Deposit Corp. | 5,000 | 0 | Federal-Mogul Corp. | 21,000 | 15,000 |
| Dayton Power & Light Co. | 57,700 | 0 | Federated Dept. Stores | 154,650 | 139,350 |
| Dayton-Hudson Corp. | 343,000 | 500,700 | Felmont Oil Corp. | 30,000 | 30,000 |
| DeLuxe Check Printers Inc. | 21,400 | 0 | Ferro Corp. | 10,000 | 0 |
| Dean Foods Co. | 22,000 | 0 | Fidelcor | 18,000 | 0 |
| Deere & Company | 51,300 | 0 | Figgie Intl. Inc. | 17,700 | 14,800 |
| DeKalb Agresearch Inc. | 26,000 | 0 | Filtertek Cos. | 10,000 | 0 |
| Delmarva Power & Light Co. | 40,500 | 0 | Fin. Corp. of America | 72,904 | 100,599 |
| Delmed Inc. | 69,000 | 0 | Financial Cp. of Amer. Ppfd. | 11,760 | 11,760 |
| Delta Air Lines Inc. | 136,800 | 100,000 | Firestone Tire & Rubber Co. | 26,000 | 0 |
| Dennison Mines Ltd. A | 19,000 | 0 | First ALA Bancshares Inc. | 18,000 | 0 |
| Dennys Inc. | 40,600 | 66,300 | First Atlanta Corp. | 38,500 | 0 |
| Detroit Edison Co. | 153,000 | 0 | First Bank System | 12,800 | 0 |
| Detroit Edison Co. | 79,000 | 66,000 | First Boston Inc. | 14,700 | 0 |
| Dexter Corp. | 29,000 | 0 | First Charter Financial | 65,000 | 84,000 |
| Diagnostic Products Corp. | 7,000 | 0 | First Chicago Corp. | 35,300 | 0 |
| Diamond Shamrock | 161,200 | 58,800 | First City Bankcorp Texas | 375,800 | 8,400 |
| Diasonics Inc. | 96,000 | 0 | First Data Resources | 5,000 | 5,000 |
| Diebold Inc. | 10,000 | 25,000 | First Executive Corp. Del. | 47,600 | 0 |
| Digital Equipment Corp. | 119,700 | 48,000 | First Interstate Bancorp. | 302,250 | 96,850 |
| Digital Switch | 66,000 | 32,900 | First Jersey Natl. Co. | 8,000 | 0 |
| Disney Walt Productions | 61,700 | 75,800 | First KY Natl. Corp. | 17,900 | 0 |
| Diversifoods Inc. | 133,230 | 78,230 | First Natl BNCP-ALNTWN | 6,000 | 0 |
| Docutel Olivetti Corp. | 1,000 | 50,000 | First Natl. St. Bancorporation | 15,700 | 0 |
| Dome Mines Ltd. | 42,000 | 0 | First Sec. Corp. Del. | 29,000 | 0 |
| Dominion Resources | 339,050 | 3,850 | First Savings Bank Florida | 10,000 | 0 |
| Donaldson Lufkin & Jen. | 61,200 | 0 | First Tenn. Natl. Corp. | 5,000 | 0 |
| Donnelley RR & Sons | 36,600 | 10,000 | First UN Corp. | 18,000 | 0 |
| Dorchester Gas Corp. | 31,400 | 31,400 | Fleet Financial Group Inc. | 8,000 | 0 |
| Dover Corp. | 37,000 | 0 | Fleetwood Enter. Inc. | 341,200 | 120,000 |
| Dow Chemical Company | 1,304,500 | 2,030,900 | Fleming Cos. | 228,600 | 199,400 |
| Dow Jones & Co. | 90,000 | 0 | Flightsafety Intl. Inc. | 23,000 | 0 |
| Dr. Pepper Co. | 39,200 | 39,200 | Floating Point Systems Inc. | 54,000 | 0 |
| Dresser Industries | 61,600 | 0 | Florida Federal S & L | 20,000 | 0 |
| Dreyers Grand Ice Cream Inc. | 31,000 | 0 | Florida National Banks Fla. Inc. | 19,000 | 0 |
| Dreyfus Corp. | 40,500 | 51,000 | Florida Power & Light Co. | 41,800 | 0 |
| DuPont E.I. DeNemours | 829,080 | 1,223,280 | Florida Progress Corp. | 35,000 | 0 |
| Duke Power Co. NC | 610,400 | 78,000 | Florida Rock Industries | 3,000 | 0 |
| Dun & Bradstreet Cos. Inc. | 207,000 | 1,100 | Flowers Industries | 52,000 | 17,000 |
| Duquesne Lt. Co. | 55,900 | 0 | Fluke John Mfg. | 0 | 5,000 |
| Durr Fillauer Med. Inc. | 500 | 0 | Fluor Corp. | 73,000 | 0 |
| Dysan Corp. | 58,500 | 0 | FMC Corp. | 25,000 | 0 |
| E-Systems | 138,900 | 0 | Ford Motor Co. | 458,150 | 100,100 |
| E.F. Hutton Group Inc. | 67,100 | 45,000 | Foremost Corp. of America | 40,000 | 10,000 |
| Eagle Picher Inds. Inc. | 27,000 | 0 | Forest Labs | 13,000 | 0 |
| Eastern Gas & Fuel Assoc. | 27,000 | 0 | Forest Oil Corp. | 27,000 | 0 |
| Eastman Kodak Company | 259,800 | 523,380 | Fort Howard Paper Co. | 23,000 | 0 |
| Eaton Corp. | 83,900 | 20,000 | Foster Med. Corp. | 60,000 | 60,000 |
| Echlin Inc. | 29,000 | 47,000 | Foster Wheeler Corp. | 47,000 | 0 |
| Eckerd Jack Corp. | 29,100 | 0 | Foxboro Co. | 19,000 | 0 |
| Economics Lab Inc. | 26,800 | 0 | Foxmeyer Corp. | 22,600 | 8,300 |
| Edison Bros Stores Inc. | 15,000 | 0 | Freeport-McMoran Inc. | 69,000 | 0 |
| Educational Comp. Corp. | 15,000 | 0 | Fremont Gen. Corp. | 42,000 | 0 |
| Edwards A.G. & Sons | 10,000 | 19,700 | Fruehauf Corp. | 35,000 | 0 |
| EG & G Inc. | 28,900 | 0 | Fuqua Inds. Inc. | 24,000 | 0 |
| El Chico Corp. | 0 | 12,000 | G & K Services Inc. | 10,500 | 0 |
| El Paso Electric Co. | 57,000 | 0 | G.D. Ritzys Inc. | 8,500 | 8,500 |
| Electronic Data Systems Corp. | 56,700 | 700 | GAF Corp. | 40,000 | 0 |
| Electrospace Systems | 9,000 | 0 | Gallagher Arthur J. & Co. | 9,500 | 0 |
| Emerson Electric | 68,100 | 36,500 | Gannett Inc. | 41,400 | 0 |
| Emerson Radio Corp. | 174,993 | 262,390 | Garan Inc. | 3,500 | 4,200 |
| Emery Air Freight Corp. | 33,900 | 61,900 | GATX | 30,000 | 0 |
| Emhart Corp VA | 18,000 | 0 | GCA Corp. | 33,800 | 0 |
| Emulex Corp. | 15,100 | 0 | Gearhart Inds. Inc. | 40,000 | 0 |
| Englehard Corp. | 27,400 | 0 | Geico Corp. | 15,000 | 40,000 |
| Enserch Corp. | 284,450 | 2,950 | Gelco Corporation | 322,450 | 21,650 |
| Entex | 111,000 | 75,000 | Genentech Inc. | 17,000 | 0 |
| Entre Computer Centers | 5,300 | 5,300 | General Cinema Corp. | 11,000 | 0 |
| Enzo Biochem Inc. | 29,000 | 0 | General Datacomm Inds. Inc. | 22,000 | 0 |
| Equatorial | 28,900 | 15,900 | General Dynamics | 164,900 | 238,500 |
| Equitable Gas Co. | 14,000 | 0 | General Electric Co. | 1,528,800 | 2,200,800 |
| Esmark Inc. | 39,500 | 65,000 | General Foods Corp. | 165,200 | 115,900 |
| Esquire Inc. | 36,300 | 36,300 | General Homes | 0 | 4,000 |
| Esterline Corp. | 23,000 | 0 | General Host Corp. | 37,000 | 0 |
| Ethyl Corp. | 125,900 | 211,800 | General Instrument Corp. | 23,800 | 40,000 |
| Evans & Sutherland Computer C | 45,000 | 0 | General Mills Inc. | 77,000 | 25,000 |
| ExCellO Corp. | 19,000 | 0 | General Motors Corp. | 471,500 | 737,600 |
| Exxon Corporation | 1,122,950 | 79,550 | General Nutrition Inc. | 57,000 | 0 |

**FISCAL 1984 EQUITIES TRANSACTION SUMMARY
ALL FUNDS COMBINED**

| Security Description | Units Bought | Units Sold | Security Description | Units Bought | Units Sold |
|---|--------------|------------|---------------------------------|--------------|------------|
| General Public Utilities Corp. | 153,600 | 0 | Honeywell Inc. | 66,700 | 107,700 |
| General Re Corp. | 160,650 | 950 | Hoover Co. | 24,400 | 0 |
| General Signal Corp. | 48,000 | 0 | Hoover Universal | 47,400 | 5,200 |
| General Tire & Rubber Co. | 20,000 | 0 | Hospital Corp. of America | 115,900 | 84,000 |
| Genetic Sys. Corp. | 77,000 | 0 | Houghton Mifflin Co. | 20,900 | 0 |
| Genrad Inc. | 17,800 | 30,000 | House of Fabrics Inc. | 0 | 41,000 |
| Genstar Ltd. | 16,000 | 0 | Household Intl. | 37,000 | 0 |
| Genuine Parts Company | 275,900 | 636,500 | Houston Industries Inc. | 1,110,800 | 1,966,300 |
| George A. Hormel & Co. | 14,200 | 0 | Houston Natl. Gas Corp. | 284,050 | 30,700 |
| Georgia Pacific Corp. | 78,800 | 0 | Hubbard Real Estate Investments | 28,000 | 0 |
| Gerber Products Co. | 14,700 | 0 | Hubbell Harvey B. | 21,000 | 0 |
| Gerber Scientific | 8,000 | 8,000 | Hughes Tool | 42,900 | 0 |
| Getty Oil Company | 60,000 | 60,000 | Humana Inc. | 119,400 | 63,500 |
| Gibraltar Savings Assn. Houston T | 24,000 | 24,000 | Hunt J.B. | 10,100 | 10,100 |
| Gibson Greetings | 10,000 | 0 | Hybritech Inc. | 77,300 | 2,000 |
| Gillette Company | 23,700 | 212,000 | Hyster Co. | 8,000 | 8,000 |
| Global Marine | 44,100 | 44,100 | I. C. Industries | 19,000 | 10,000 |
| Golden West Financial | 24,800 | 3,800 | I.M.S. Intl. Inc. | 23,000 | 0 |
| Goodrich (B.F.) | 25,100 | 132,700 | Idaho Power Co. | 21,000 | 0 |
| Goodyear Tire & Rubber | 949,500 | 2,269,000 | Ideal Basic Industries Inc. | 30,000 | 0 |
| Gould Inc. | 34,400 | 0 | Illinois Power Co. | 56,400 | 47,200 |
| Goulds Pumps Inc. | 35,000 | 0 | Illinois Power Corp. | 86,000 | 0 |
| Gr. Amer. Fed. Savings Bank | 50,000 | 17,500 | Illinois Tool Works Inc. | 12,000 | 0 |
| Great Lakes Federal S&L | 14,000 | 1,300 | Imperial Oil Co. Ltd. | 42,400 | 0 |
| Great Western Financial | 49,800 | 184,500 | Inco Inc. | 72,700 | 230,000 |
| Grace W. R. & Co. | 36,700 | 0 | Inexco Oil Co. | 69,000 | 0 |
| Grainger W.W. Inc. | 12,600 | 2,600 | Infotron Systems | 4,000 | 4,000 |
| Granger Assoc. | 36,000 | 0 | Ingersoll Rand | 20,200 | 0 |
| Great Atlantic & Pacific Tea Inc. | 40,000 | 0 | Inland Steel Corp. | 30,500 | 35,000 |
| Great Lakes Chemical Corp. | 26,400 | 0 | Insilco Corp. | 43,000 | 0 |
| Great Northern Nekoosa Corp. | 61,000 | 0 | Instacom Inc. | 0 | 46,000 |
| Greentree Accept. Inc. | 14,000 | 0 | Intl. Kings Table | 15,000 | 0 |
| Greyhound Corp. | 675,100 | 1,238,200 | Integr. Res. 4.25 Pfd. Cv. | 0 | 10,000 |
| Grow Chem. Corp. | 35,000 | 0 | Integrated Device Tech. | 6,800 | 0 |
| Grumman Corp. | 67,600 | 85,000 | Integrated Genetics Inc. | 4,000 | 4,000 |
| GTE Corp. | 625,600 | 1,249,700 | Integrated Resources Inc. | 68,000 | 23,750 |
| Guardian Inds. Corp. | 32,000 | 0 | Intel Corp. | 161,100 | 65,000 |
| Guilford Mills | 29,000 | 0 | Intelligent Sys. Corp. | 35,000 | 0 |
| Gulf & Western Indus. | 668,200 | 1,223,200 | Inter Lease Financial | 3,000 | 0 |
| Gulf Broadcasting | 132,800 | 0 | Interco | 6,600 | 0 |
| Gulf CDA Ltd. | 78,000 | 0 | Interfirst Corp. | 52,500 | 75,000 |
| Gulf Corp. | 167,700 | 549,700 | Intergraph Corp. | 151,200 | 51,900 |
| Gulf Stream Aerospace | 54,900 | 8,500 | Intermedics Inc. | 42,000 | 0 |
| Gulf Sts. Utilis. Co. | 47,000 | 0 | International Multifoods Corp. | 26,000 | 0 |
| Gulf Utd. Corp. | 21,400 | 21,400 | Internorth Inc. | 188,700 | 2,000 |
| Hall Frank B. & Co. Inc. | 29,500 | 0 | Interpublic Group | 14,000 | 5,000 |
| Halliburton Inc. | 1,101,650 | 2,382,900 | Intl. Business Machines | 856,642 | 1,288,949 |
| Hamilton Bros. Pete. Corp. | 44,000 | 0 | Intl. Flavors & Frag. | 37,200 | 7,500 |
| Hammermill Paper Co. | 14,000 | 0 | Intl. Minerals & Chem. | 56,700 | 30,000 |
| Handleman Co. | 0 | 3,500 | Intl. Paper Co. | 305,200 | 489,100 |
| Handy & Harman | 38,000 | 0 | Invacare Corp. | 24,500 | 0 |
| Hanover Ins. Co. | 19,000 | 0 | Iowa Ill. Gas & Elec. Co. | 26,000 | 0 |
| Harcourt Brace Jovan. | 30,000 | 0 | Iowa Resources Inc. | 24,000 | 0 |
| Harland John H. Co. | 17,000 | 0 | Ipalco Enterprises | 15,000 | 0 |
| Harris Bankcorp. Inc. | 10,000 | 0 | Irving Bk. Corp. | 14,000 | 0 |
| Harris Corp. | 70,900 | 40,000 | ISC Sys. Corp. | 44,000 | 0 |
| Harsco Corp. | 28,000 | 0 | ITT Corp. | 163,850 | 292,995 |
| Harte Hanks Communications In. | 27,000 | 0 | IU Intl. Corp. | 26,000 | 0 |
| Hartford Natl. Corp. | 12,500 | 0 | James Riv. Corp. VA | 28,700 | 0 |
| Hartmarx Corp. | 35,000 | 0 | Jamesway Corp. | 0 | 6,800 |
| Hasbro Inds. Inc. | 3,000 | 0 | Jefferson Bankshares VA | 6,500 | 0 |
| Hawkeye Bancorp. | 4,000 | 0 | Jefferson Pilot Corp. | 26,000 | 0 |
| HBO & Co. | 20,000 | 0 | Jeffries Group | 7,500 | 7,500 |
| HCC Industries | 0 | 20,200 | Jerrico Inc. | 40,000 | 0 |
| Healthamerica Corp. | 2,500 | 2,500 | Jewel Companies | 280,650 | 269,650 |
| Healthdyne | 98,000 | 7,000 | Johnson & Johnson | 303,500 | 979,000 |
| Hecla Inc. | 36,000 | 36,000 | Johnson Controls | 14,000 | 15,000 |
| Heinz H.J. & Co. | 295,050 | 226,350 | Jonathan Logan | 21,000 | 0 |
| Heizer Corp. | 40,000 | 0 | Josephson Intl. Inc. | 0 | 8,000 |
| Heller Walter E. Intl. Corp. | 15,000 | 15,000 | Jostens Inc. | 24,000 | 0 |
| Helmerich & Payne Inc. | 30,000 | 0 | Joy Mfg. Co. | 17,000 | 0 |
| Hercules Incorporated | 77,400 | 51,000 | Juno Lighting Inc. | 5,000 | 0 |
| Heritage Federal S&L | 20,000 | 0 | JWT Group Inc. | 21,900 | 0 |
| Hershey Foods Corp. | 34,400 | 0 | K Mart Corporation | 222,300 | 75,500 |
| Hewlett Packard Co. | 264,900 | 32,000 | K N Energy Inc. | 22,000 | 0 |
| Higbee Company | 5,000 | 0 | Kaiser Alum. & Chem. Corp. | 32,800 | 0 |
| Hillenbrand Inds. Inc. | 16,000 | 0 | Kaneb Services | 54,000 | 0 |
| Hilton Hotels Corp. | 16,000 | 0 | Kansas City Power & Light Co. | 35,000 | 0 |
| Home Fed. Svc. & Loan Assn. S.D. Calif. | 41,800 | 0 | Kansas City So. Ind. | 20,100 | 24,000 |
| Hogan Systems | 67,300 | 0 | Kansas Gas & Elec. Co. | 38,000 | 0 |
| Holiday Inns | 56,500 | 11,000 | Kansas Power & Light Co. | 23,000 | 0 |
| Holly Corp. | 50,000 | 0 | Katy Inds. Inc. | 21,000 | 0 |
| Home Centers of America | 13,400 | 13,400 | Kaufman & Broad Inc. | 42,000 | 0 |
| Home Centers Amer. WTS 86 | 33,800 | 33,800 | Kaydon Corp. | 20,500 | 0 |
| Home Depot Inc. | 56,000 | 20,000 | Kearney Natl. Inc. | 6,000 | 0 |
| Home Health Care America | 7,000 | 5,000 | Kellogg Co. | 73,000 | 0 |
| Homecrafters Whse. Inc. | 3,700 | 3,700 | Kemper Corp. | 16,035 | 35 |
| Homestake Mining Co. | 85,950 | 13,700 | Kennametal Inc. | 19,000 | 0 |
| Hon Industries | 6,000 | 6,000 | Kentron Intl. Inc. | 19,400 | 0 |

**FISCAL 1984 EQUITIES TRANSACTION SUMMARY
ALL FUNDS COMBINED**

| Security Description | Units Bought | Units Sold | Security Description | Units Bought | Units Sold |
|------------------------------|--------------|------------|-----------------------------------|--------------|------------|
| Kentucky Utils. Co. | 29,000 | 0 | McKesson Corp. | 9,000 | 0 |
| Kerr McGee Corp. | 58,500 | 9,900 | Mead Corp. | 51,000 | 28,700 |
| Key Pharmaceutical | 55,600 | 55,500 | Media Gen. Inc. | 11,000 | 0 |
| Keytronic Inc. | 0 | 6,000 | Medtronic Inc. | 30,900 | 0 |
| Kidde Inc. | 244,400 | 114,400 | MEI Corp. | 19,000 | 0 |
| Kimberly Clark Corp. | 30,500 | 26,000 | Mellon National Corp. | 162,750 | 3,850 |
| Kinder Care Learning Center | 0 | 86,000 | Melridge Inc. | 3,000 | 0 |
| KLA Instrs. Corp. | 44,200 | 0 | Melville Corporation | 263,700 | 43,250 |
| KLM Royal Dutch Air | 10,600 | 30,000 | Mentor Graphics Corp. | 9,275 | 9,275 |
| Knight Ridder Inc. | 64,000 | 0 | Mercantile Bancorporation Inc. | 10,000 | 0 |
| Koppers Inc. | 33,000 | 0 | Mercantile Stores Inc. | 11,000 | 0 |
| Kroger Company | 206,300 | 3,000 | Mercantile Texas Corp. | 120,600 | 31,000 |
| Kroy Inc. | 24,000 | 0 | Merchants Savings Bank | 11,000 | 0 |
| Kulicke & Soffa Ind. | 17,300 | 9,000 | Merck & Company Inc. | 69,200 | 8,900 |
| La Quinta Mtr. Inns Inc. | 25,000 | 0 | Meredith Corp. | 28,000 | 0 |
| Ladd Furniture | 8,000 | 0 | Meridian Bancorp Inc. | 22,000 | 0 |
| Lafarge Corp. | 285,000 | 0 | Merrill Lynch & Co. Inc. | 142,900 | 252,800 |
| Lance Inc. | 25,000 | 0 | Metromedia Inc. | 31,300 | 31,300 |
| Landmark Banking Corp. Fla. | 12,500 | 0 | MGM/UA Enterprises | 47,400 | 9,800 |
| Lawter Intl. Inc. | 32,000 | 0 | Mgmt. Science Amer. | 48,700 | 0 |
| Lear Siegler Inc. | 164,900 | 40,200 | Micom Sys. Inc. | 23,000 | 0 |
| Lee Data Corp. | 50,000 | 0 | Micro Mask | 6,000 | 18,000 |
| Lennar Corp. | 15,000 | 80,000 | Micron Technology | 15,900 | 15,900 |
| Levi Strauss & Co. | 287,100 | 75,000 | Micropolis Corp. | 7,000 | 7,000 |
| Levitz Furniture | 17,000 | 0 | Midcon Corporation | 24,000 | 0 |
| Libbey Owens Ford Co. | 16,000 | 0 | Middle South Utils. Inc. | 120,900 | 0 |
| Liberty Homes | 18,000 | 0 | Midland Energy Co. | 10,000 | 0 |
| Liberty National Corp. | 3,000 | 0 | Midland Ross Corp. | 35,000 | 0 |
| Liebert Corp. | 30,000 | 0 | Midlantic Banks Inc. | 8,000 | 0 |
| Lifeline Systems Inc. | 5,100 | 5,100 | Miller Herman Inc. | 66,700 | 10,000 |
| Lifemark Corp. | 18,900 | 18,900 | Miller Wohl | 34,000 | 82,000 |
| Lilly Eli & Co. | 68,300 | 13,400 | Millipore Corp. | 22,000 | 15,000 |
| Lily Tulip Inc. | 31,000 | 0 | Miniscribe | 15,000 | 15,000 |
| Limited Inc. | 112,700 | 130,000 | Minnesota Mining & Mfg. Co. | 96,900 | 16,500 |
| Lin Broadcast. Corp. | 118,000 | 0 | Minnesota Power & Light Co. | 25,000 | 0 |
| Lincoln Natl. Corp. Ind. | 18,200 | 0 | Mission Ins. Group Inc. | 45,100 | 0 |
| Litton Inds. Inc. | 113,200 | 65,000 | Mitchell Energy | 247,850 | 13,700 |
| Liz Claiborne Inc. | 36,000 | 5,000 | Mitel Corp. | 47,000 | 0 |
| Lockheed Aircraft Corp. | 511,870 | 863,170 | Mn. Venture Capital Pool | 29,587 | 0 |
| Loctite Corp. | 20,000 | 0 | Mn. Ext. Active Man. Pool | 0 | 3,223 |
| Loews Corp. | 38,000 | 0 | Mn. Indexed Fund Pool | 1,407,040 | 1,933 |
| Logicon Inc. | 16,000 | 0 | Mn. Real Estate Fund Pool | 157,899 | 0 |
| Lomas & Nettleton Finl Corp. | 26,000 | 0 | Mn. Resources Fund Pool | 24,203 | 53 |
| Lone Star Industries | 25,000 | 3,100 | Mobil Corporation | 1,052,550 | 1,663,200 |
| Long Drug Stores Inc. | 13,000 | 15,000 | Molax Inc. | 9,400 | 0 |
| Long Island Ltg. Co. | 73,800 | 73,800 | Monarch Capital Corp. | 56,000 | 59,000 |
| Loral Corp. | 20,000 | 0 | Monolithic Memories Inc. | 52,900 | 0 |
| Lotus | 4,500 | 4,500 | Monsanto Co. | 112,700 | 102,500 |
| Louisiana Ld. & Expl. Co. | 34,600 | 0 | Montana Power Co. | 25,000 | 0 |
| Louisiana Pac. Corp. | 20,000 | 50,000 | Moore Corp. Ltd. | 29,100 | 0 |
| Louisville Gas & Elec. Co. | 28,000 | 0 | Moore McCormack Res. Inc. | 10,000 | 0 |
| Lowenstein M Corp. | 5,000 | 0 | Morgan J.P. & Company Inc. | 614,900 | 798,400 |
| Lowe's Company | 107,200 | 72,000 | Morris Co. Savings Bank | 15,000 | 0 |
| LSI Logic Corp. | 34,200 | 0 | Morrison Knudsen Inc. | 23,000 | 0 |
| LTV Corp. | 110,900 | 0 | Morse Shoe | 5,000 | 0 |
| Lubrizol Corp. | 63,200 | 0 | Morton Thiokol | 25,000 | 15,000 |
| Lucky Stores | 391,200 | 1,000 | Motorola Incorporated | 241,900 | 388,100 |
| M/A Com | 79,700 | 16,000 | Mountain Fuel Supply Co. | 26,000 | 0 |
| Machine Technology | 43,700 | 0 | Multimedia Inc. | 18,000 | 1,500 |
| Mack Trucks Inc. | 99,400 | 0 | Munford Inc. | 5,000 | 0 |
| Macy R.H. & Co. | 55,100 | 68,000 | Murphy Oil | 25,000 | 0 |
| Magic Chef Inc. | 16,000 | 0 | Mylan Labs Inc. | 35,000 | 11,000 |
| Malone & Hyde Inc. | 21,000 | 0 | N.W. Natl. Life | 4,000 | 4,000 |
| Manufacturers Han. Corp. | 45,500 | 0 | Nabisco Brands | 84,100 | 20,900 |
| Mapco Inc. | 27,000 | 0 | Nalco Chemical Co. | 70,000 | 40,000 |
| Marine Midland Banks Inc. | 33,000 | 0 | National Bankshares Corp. | 5,000 | 0 |
| Marion Labs Inc. | 27,900 | 0 | National City Corp. | 14,000 | 0 |
| Marriott Corp. | 20,800 | 0 | National Convenience Stores | 35,000 | 0 |
| Marsh & McClennan | 179,350 | 132,350 | National Data Corp. | 33,000 | 0 |
| Marshall Industries | 37,500 | 15,500 | National Distillers & Chem. | 28,000 | 0 |
| Martin Marietta | 39,700 | 36,850 | National Gypsum Co. | 19,500 | 0 |
| Mary Kay Cosmetics | 254,000 | 35,000 | National Intergroup Inc. | 20,300 | 0 |
| Masco Corp. | 42,500 | 0 | National Med. Care Inc. | 72,600 | 0 |
| Masonite Corp. New | 13,000 | 29,400 | National Service Inds. Inc. | 18,600 | 0 |
| Materials Research | 4,000 | 4,000 | Natl. Patent Devel. Corp. | 38,800 | 0 |
| Matrix Corp NJ | 25,000 | 0 | Natl. Computer Systems | 5,000 | 0 |
| Matrix Science Corp. | 0 | 23,000 | Natl. Med. Enter. Inc. | 952,250 | 1,815,475 |
| May Dept. Stores Co. | 246,800 | 386,900 | Natl. Semiconductor | 235,800 | 175,200 |
| Maytag Co. | 8,000 | 3,100 | NBD Bancorp Inc. | 16,000 | 0 |
| MCA Inc. | 171,000 | 60,700 | NBI Inc. | 18,000 | 0 |
| McCormick & Co. Inc. | 22,000 | 0 | NCNB Corp. | 36,000 | 40,000 |
| McDermott Intl. Inc. | 20,000 | 0 | NCR Corp. | 240,100 | 605,600 |
| McDonalds Corp. | 586,350 | 1,352,050 | Network Systems Corp. | 114,200 | 73,200 |
| McDonnell Douglas Corp. | 140,400 | 31,050 | Nevada Power Co. | 26,000 | 0 |
| McFarland Energy Inc. | 1,500 | 0 | New England Business Svc. Inc. | 20,500 | 0 |
| McGraw Edison Co. | 138,950 | 120,950 | New England Elec. Sys. | 16,069 | 0 |
| McGraw Hill Inc. | 61,800 | 0 | New York St. Electric & Gas Corp. | 37,000 | 0 |
| MCI Communication | 2,196,900 | 3,395,300 | New York Times Co. | 34,800 | 0 |
| McIntyre Mines Ltd. | 8,000 | 0 | Newell Cos. | 0 | 15,200 |

FISCAL 1984 EQUITIES TRANSACTION SUMMARY
ALL FUNDS COMBINED

| Security Description | Units Bought | Units Sold | Security Description | Units Bought | Units Sold |
|---------------------------------|--------------|------------|-----------------------------------|--------------|------------|
| Newhall Ld. & Farming Co. | 21,000 | 0 | PHH Group Inc. | 21,000 | 0 |
| Newmont Mining | 47,700 | 22,000 | Phibro-Salomon | 267,300 | 84,600 |
| Niagara Mohawk Power Corp. | 76,400 | 0 | Philadelphia Elec. Co. | 505,700 | 1,800 |
| Nico Corp. | 10,000 | 0 | Philip Morris | 17,000 | 17,000 |
| Nicor Inc. | 23,100 | 0 | Phillips Petroleum Co. | 260,500 | 143,550 |
| Nielsen A.C. Co. | 20,000 | 0 | Pic N Save Corp. | 39,000 | 4,000 |
| Nike Inc. | 46,000 | 0 | Piedmont Aviation | 36,000 | 24,000 |
| NL Industries | 29,300 | 0 | Pier 1 Imports | 40,200 | 40,200 |
| No. American Philips Corp. | 11,700 | 6,000 | Pier 1 Imports Wts. 7/15/88 | 15,540 | 0 |
| No. States Power Co. Minn. | 386,144 | 939,351 | Pillsbury Company | 32,100 | 0 |
| Noble Affiliates Inc. | 51,000 | 0 | Pioneer Corp. | 20,000 | 51,200 |
| Nordstrom Inc. | 18,000 | 0 | Pioneer Hi-Bred Intl. | 35,000 | 0 |
| Norfolk Southern Corp. | 47,600 | 0 | Pitney Bowes Inc. | 215,850 | 378,450 |
| Norstar Bancorp | 18,000 | 0 | Pittston Co. | 47,000 | 0 |
| North American Coal Corp. | 13,000 | 0 | Planning Research Corp. | 7,500 | 0 |
| Northeast Utilities | 635,050 | 27,150 | PNC Financial | 30,600 | 0 |
| Northern Ind. Pub. Service Co. | 50,200 | 0 | Pneumo Corp. | 29,000 | 0 |
| Northern Telecom Ltd. | 86,700 | 69,700 | Pogo Producing Co. | 30,000 | 0 |
| Northrop Corp. | 16,100 | 20,500 | Polaroid Corp. | 13,900 | 0 |
| Northwest Airlines | 20,700 | 20,400 | Policy Mgmt. Sys. Corp. | 26,000 | 6,000 |
| Northwest Inds. Inc. | 55,700 | 35,400 | Ponderosa System Inc. | 27,000 | 75,000 |
| Norton Co. | 11,000 | 0 | Pope & Talbot | 24,300 | 0 |
| Norwest Corp. | 50,700 | 0 | Portland Gen. Elec. Co. | 46,000 | 0 |
| Novar Electronics | 29,400 | 0 | Post Corp. | 3,900 | 0 |
| Noxell Corp. | 18,000 | 0 | Potlatch Corp. | 20,000 | 0 |
| Nucor Corp. | 37,800 | 0 | Potomac Electric & Power | 71,000 | 38,000 |
| Numerax Inc. | 15,000 | 0 | PPG Industries Inc. | 53,500 | 25,000 |
| Nutri Sys. Inc. | 70,000 | 0 | Premier Indl. Corp. | 20,000 | 0 |
| Nynex | 49,100 | 44,781 | Prentice Hall Inc. | 22,700 | 5,000 |
| Occidental Pete Corp. | 72,800 | 0 | Priam Corp. | 0 | 15,500 |
| Ocean Drilling & Expl. Co. | 39,000 | 0 | Price Co. | 6,000 | 0 |
| Ogden Corp. | 24,000 | 20,000 | Prime Computer Inc. | 37,400 | 0 |
| Ohio Cas Corp. | 14,000 | 0 | Prime Motor Inns Inc. | 30,000 | 0 |
| Ohio Edison Co. | 106,200 | 0 | Proctor & Gamble | 419,600 | 655,600 |
| Ohio Mattress Co. | 19,000 | 0 | Progressive Corp. Ohio | 30,000 | 0 |
| Oklahoma Gas & Electric Co. | 33,000 | 0 | Provident Life & Acc. Ins. Co. | 11,000 | 0 |
| Old Rep. Intl. Corp. | 20,000 | 0 | PSA Inc. | 28,000 | 0 |
| Olin Corp. | 27,400 | 0 | Public Service Co. Colo. | 35,000 | 0 |
| OMI Corp. | 20,000 | 20,000 | Public Service Co. Ind. Inc. | 70,000 | 70,000 |
| Omnicare Inc. | 25,000 | 0 | Public Service Co. NH | 66,600 | 66,600 |
| Oneok Inc. | 24,000 | 0 | Public Service Co. N. Mex. | 35,000 | 0 |
| Optical Coating Lab | 7,000 | 0 | Public Service Electric & Gas Co. | 75,300 | 0 |
| Optical Radiation Corp. | 24,900 | 0 | Puget Sound Power & Light Co. | 59,000 | 0 |
| Outboard Marine Corp. | 13,300 | 0 | Pulte Home Corp. | 33,700 | 0 |
| Overnite Transport | 39,300 | 0 | Purolator | 13,500 | 0 |
| Overseas Shipholding Group Inc. | 34,000 | 0 | Quaker Oats Co. | 15,500 | 0 |
| Owens Corning Fiber. Corp. | 383,000 | 1,700 | Quaker State Oil Refining Corp. | 47,400 | 0 |
| Owens Illinois Inc. | 217,600 | 29,850 | Quantum Corp. | 6,800 | 0 |
| Oxford Inds. Inc. | 32,500 | 0 | Quotron Systems Inc. | 114,200 | 55,000 |
| Paccar Inc. | 7,000 | 0 | R.P.M. Inc. Ohio | 20,000 | 0 |
| Pacific Gas & Electric Co. | 222,600 | 0 | Rio Grande Inds. Inc. | 20,000 | 15,000 |
| Pacific Lumber Co. | 26,000 | 0 | Rainier Bancorporation | 20,000 | 0 |
| Pacific Ltg. Corp. | 24,800 | 0 | Ralston Purina Co. | 135,900 | 11,800 |
| Pacific Telesis Group | 11,500 | 25,181 | Ranger Oil Ltd. | 77,000 | 0 |
| Pacificorp | 72,000 | 28,900 | Ransburg Corp. | 34,000 | 0 |
| Paine Webber | 18,100 | 53,000 | Raychem Corp. | 6,000 | 0 |
| Pall Corp. | 24,300 | 0 | Raytheon Company | 125,700 | 0 |
| Pandick Inc. | 19,000 | 0 | RB Industries Inc. | 800 | 50,800 |
| Pandick Press Inc. | 19,000 | 28,500 | RCA Corp. | 250,300 | 77,000 |
| Panhandle Eastern Corp. | 31,900 | 0 | Reading & Bates Corp. | 65,000 | 0 |
| Pantry Pride | 44,700 | 44,700 | Recoton Corp. | 25,000 | 0 |
| Par Pharmaceutical | 11,000 | 11,000 | Redman Inds. Inc. | 40,000 | 0 |
| Paradyne Corp. | 92,500 | 0 | Reeves Communications Corp. | 58,000 | 0 |
| Parisian Inc. | 8,000 | 8,000 | Regency Electronics | 9,500 | 0 |
| Parker Drilling Co. | 90,000 | 0 | Republic Airlines | 41,000 | 28,000 |
| Parker Hannifin Corp. | 21,000 | 0 | Republic Bank Corp. | 416,200 | 3,300 |
| Parker Pen Co. | 36,000 | 0 | Republic N.Y. Corp. | 23,300 | 0 |
| Parsons Corporation | 269,800 | 18,800 | Republic Steel | 129,000 | 0 |
| Pay N Pak Stores | 0 | 5,000 | Resort Intl. | 11,000 | 11,000 |
| Pay N Save Corp. | 25,000 | 0 | Restaurant Systems | 2,500 | 2,500 |
| Payless Cashways | 62,500 | 20,000 | Reuters Holdings Plc. | 20,000 | 20,000 |
| Penn Central Corp. | 53,900 | 0 | Revco D.S. | 317,100 | 724,600 |
| Penn Central Pfd. 5.27 | 0 | 53,500 | Revlon Incorporated | 65,700 | 38,000 |
| Penney J.C. Inc. | 217,000 | 399,800 | Rexnord Inc. | 45,000 | 0 |
| Pennsylvania Power & Light Co. | 87,600 | 0 | Reynolds & Reynolds Co. | 20,000 | 0 |
| Pennwalt Corp. | 16,000 | 0 | Reynolds Metals Co. | 21,000 | 0 |
| Pennzoil Co. | 219,500 | 2,850 | Richardson Vicks | 24,000 | 0 |
| Pentair Inc. | 26,000 | 0 | Rite Aid Corp. | 52,500 | 20,000 |
| Peoples Energy Corp. | 44,000 | 0 | RLC Corp. | 62,500 | 0 |
| Peoples Express Airlines Inc. | 30,000 | 0 | Roadway Services Inc. | 19,900 | 0 |
| Pep Boys Manny Moe & Jack | 25,000 | 0 | Robertson H.H. Co. | 18,500 | 0 |
| Pepsico Incorporated | 109,800 | 22,200 | Robins A.H. Inc. | 45,300 | 1,200 |
| Perkin Elmer | 40,500 | 56,500 | Rochester Gas & Elec. Corp. | 39,000 | 0 |
| Petrie Stores Corp. | 74,800 | 84,800 | Rochester Tel. Corp. | 22,000 | 0 |
| Petrolane Inc. | 65,500 | 7,500 | Rockwell Intl. Corp. | 159,900 | 0 |
| Petrolite Corp. | 24,000 | 0 | Rohm & Haas Co. | 19,800 | 0 |
| Pfizer Incorporated | 1,127,800 | 1,241,700 | Rohr Inds. Inc. | 19,800 | 0 |
| Phelps Dodge | 27,700 | 100,000 | Rollins Communications Inc. | 21,000 | 0 |
| Phelps Dodge Corp. Pfd. \$5 | 10,000 | 0 | Rollins Envir. Services | 0 | 12,000 |

**FISCAL 1984 EQUITIES TRANSACTION SUMMARY
ALL FUNDS COMBINED**

| Security Description | Units Bought | Units Sold | Security Description | Units Bought | Units Sold |
|-----------------------------------|--------------|------------|-------------------------------|--------------|------------|
| Rollins Inc. | 35,000 | 0 | Sparkman Energy Corp. Units | 0 | 310 |
| Rolm Corp. | 19,600 | 0 | Sperry Corp. | 183,200 | 74,700 |
| Rorer Group Inc. | 37,000 | 33,900 | Springs Inds. Inc. | 21,000 | 0 |
| Roses Stores Inc. | 8,000 | 0 | Square D Co. | 22,100 | 0 |
| Rouse Co. | 22,000 | 0 | Squibb Corp. | 287,000 | 624,900 |
| Rowan Companies Inc. | 115,500 | 50,700 | SRI Corp. | 38,000 | 0 |
| Royal Crown Cos. Inc. | 25,800 | 25,800 | St. Regis Corp. | 26,900 | 0 |
| Royal Dutch Pet. Gldrs. | 964,500 | 2,079,400 | St. Paul Cos. Inc. | 135,750 | 1,050 |
| RPC Energy Services Inc. | 21,000 | 0 | Staley A.E. Mfg. Co. | 41,000 | 0 |
| Rubbermaid Inc. | 19,000 | 0 | Stanadyne Inc. | 2,000 | 2,000 |
| Ryan Homes Inc. | 29,000 | 0 | Standard Mtr. Prods. Inc. | 34,000 | 0 |
| Ryder Systems Inc. | 39,000 | 22,750 | Standard Oil Co. Ohio | 318,450 | 102,700 |
| Rykoff S.E. & Co. | 37,000 | 0 | Standard Oil of Calif. | 756,100 | 1,874,600 |
| Sabine Corp. | 33,000 | 0 | Standard Oil of Indiana | 377,450 | 136,250 |
| Safeco Corporation | 19,200 | 0 | Standard Products Co. | 6,000 | 0 |
| Safety Kleen Corp. | 19,000 | 0 | Standun Corp. | 10,000 | 12,500 |
| Safeway Stores Inc. | 57,400 | 0 | Stanley Works | 30,700 | 0 |
| Saga Corp. | 70,000 | 0 | State Street Boston Corp. | 20,000 | 0 |
| San Diego Gas & Electric Co. | 37,000 | 0 | Stauffer Chemical Co. | 59,000 | 23,000 |
| Sanders Associates | 86,700 | 0 | Sterling Drug Inc. | 605,500 | 17,200 |
| Santa Fe Industries | 15,000 | 25,000 | Stevens, J.P. | 52,600 | 70,100 |
| Santa Fe So. Pacific Corp. | 146,245 | 0 | Stone Container Corp. | 18,000 | 0 |
| Sargent Welch Scien. | 800 | 0 | Stop & Shop Inc. | 46,300 | 1,300 |
| Savannah Foods & Inds. Inc. | 10,900 | 0 | Storage Technology | 52,000 | 60,300 |
| SCA Services Inc. | 46,000 | 0 | Storer Communications | 54,000 | 0 |
| Scherer R.P. Corp. | 8,000 | 37,000 | Stratus Computer Inc. | 4,000 | 4,000 |
| Schering Plough Corp. | 38,500 | 0 | Stryker Corp. | 25,000 | 0 |
| Schlumberger Ltd. | 545,300 | 167,100 | Subaru of America Inc. | 86,500 | 7,600 |
| SCI Sys. Inc. | 48,900 | 0 | Sun Bks. Inc. | 17,000 | 0 |
| Scientific Atlanta Inc. | 33,000 | 0 | Sun Chemical | 80,000 | 0 |
| Scitex Ltd. | 27,000 | 0 | Sun Inc. | 88,400 | 0 |
| SCM Corp. | 19,000 | 0 | Sunair Electric Inc. | 11,600 | 0 |
| SCOA Inds. Inc. | 27,000 | 0 | Sundstrand Corp. | 14,800 | 0 |
| Scott & Fetzer Company | 152,500 | 142,200 | Sunshine Mining Co. | 54,000 | 0 |
| Scott Paper Co. | 62,700 | 50,000 | Super Valu Stores Inc. | 78,600 | 76,700 |
| Scovill | 16,000 | 0 | Superior Oil Company | 113,500 | 59,517 |
| Sea Containers Ltd. | 153,600 | 3,600 | Supermarkets Gen. Corp. | 19,000 | 0 |
| Seaco Inc. | 157,200 | 210,200 | Surgical Care Affil. | 4,700 | 0 |
| Seaco Inc. | 150,000 | 0 | Susquehanna Bankshares Inc. | 8,000 | 0 |
| Seagate Technology | 96,300 | 34,800 | Savings Bank Puget Sound | 0 | 20,000 |
| Sealed Power Corp. | 24,000 | 20,000 | Swift Indpt. Corp. | 22,000 | 0 |
| Searle Gd. & Co. | 135,800 | 56,500 | Sybron Corp. | 31,000 | 0 |
| Sears Roebuck & Company | 285,900 | 69,500 | Syms Corp. | 29,000 | 0 |
| Security Pacific Corp. | 304,285 | 526,503 | Syntex Corporation | 744,750 | 1,596,350 |
| Sedco Inc. | 27,400 | 8,000 | Sysco Corp. | 26,000 | 0 |
| See Q Tech. Inc. | 2,900 | 2,900 | Systems & Computer Technology | 24,000 | 0 |
| SEI Corp. | 14,000 | 0 | Systems Associates | 13,000 | 0 |
| Sensomatic Electrs. Corp. | 29,400 | 0 | Taft Broadcasting | 12,000 | 4,000 |
| Service Corp. Intl. | 24,500 | 15,000 | Tambrands Inc. | 17,200 | 0 |
| Service Merchandise | 44,000 | 0 | Tampax Inc. | 149,000 | 137,000 |
| Servicemaster Inds. Inc. | 21,000 | 0 | Tandem Computers Inc. | 49,100 | 16,500 |
| SFN Cos. Inc. | 17,000 | 0 | Tandon Corp. | 130,700 | 35,200 |
| Shaklee Corp. | 29,000 | 0 | Tandy Corp. | 476,200 | 154,000 |
| Shared Med. Systems Corp. | 80,500 | 25,000 | Teco Energy Inc. | 24,000 | 0 |
| Shawmut Corp. | 10,000 | 0 | Tecumseh Products Co. | 7,000 | 0 |
| Shell Oil | 150,900 | 150,900 | Tejon Ranch Co. | 7,000 | 0 |
| Sheller Globe Corp. | 30,000 | 0 | Tektronix Inc. | 14,800 | 0 |
| Sherwin Williams Co. | 35,000 | 114,800 | Tele Communications Inc. | 32,600 | 0 |
| Shoneys Inc. | 28,000 | 0 | Telecom Plus Intl. Corp. | 87,000 | 0 |
| Signal Cos. Inc. | 84,500 | 0 | Teledyne Inc. | 28,000 | 20,400 |
| Silicone Systems Inc. | 16,400 | 7,400 | Telesphere Intl. Inc. | 0 | 18,000 |
| Silvercrest Ind. | 1,700 | 0 | Telex Corp. | 74,000 | 55,300 |
| Singer Co. | 158,000 | 133,000 | Tellabs Inc. | 32,000 | 0 |
| Skyline Corp. | 36,000 | 0 | Temple Inland | 34,844 | 15,408 |
| Smith Intl. Inc. | 43,000 | 0 | Tenneco Inc. | 482,000 | 681,150 |
| Smithkline-Beckman Corp. | 535,400 | 470,800 | Teradyne Inc. | 48,000 | 30,000 |
| Smucker J.M. Co. | 11,000 | 0 | Tesoro Pete Corp. | 44,000 | 0 |
| Snap On Tools Corp. | 21,200 | 0 | Texaco Inc. | 256,400 | 39,800 |
| Sonat Inc. | 386,600 | 14,500 | Texas Amern. Bancshares Inc. | 17,000 | 0 |
| Sonoco Products Co. | 1,000 | 0 | Texas Commerce Bankshares | 318,200 | 0 |
| Sony Corp. | 34,000 | 34,000 | Texas Eastern Corp. | 118,850 | 0 |
| South Carolina Electric & Gas Co. | 36,000 | 0 | Texas Industries | 25,500 | 13,800 |
| Southdown Inc. | 20,600 | 0 | Texas Instruments | 87,900 | 112,400 |
| Southeast Bkg. Corp. | 28,000 | 0 | Texas Oil & Gas Corp. | 568,700 | 1,461,120 |
| Southern Calif. Edison | 118,600 | 0 | Texas Utilities Co. | 343,600 | 4,050 |
| Southern Co. | 170,900 | 0 | Textron Inc. | 29,700 | 0 |
| Southern New England Tel. Co. | 21,000 | 0 | Thermo Electron Corp. | 15,000 | 0 |
| Southern Pacific Co. | 42,000 | 62,000 | Thomas & Betts Corp. | 9,900 | 0 |
| Southern Union Co. | 31,000 | 0 | Thompson Med. Co. Inc. | 8,000 | 0 |
| Southland Corp. | 342,574 | 388,259 | Thousand Trails | 12,700 | 9,000 |
| Southland Rty. Co. | 39,000 | 0 | Three Com. Corp. | 10,400 | 0 |
| Southmark Corp. | 31,300 | 0 | Thrifty Corp. | 40,000 | 0 |
| Southwest Airlines | 44,000 | 10,000 | Thunander Corp. | 10,000 | 0 |
| Southwest Bancshares Inc. | 25,000 | 0 | Tidewater Inc. | 36,000 | 0 |
| Southwestern Bell Corp. | 36,000 | 36,681 | TIE Communications | 119,100 | 108,800 |
| Southwestern Energy Co. | 32,000 | 0 | Time Inc. | 68,400 | 48,300 |
| Southwestern Pub. Service Co. | 39,000 | 0 | Timeplex Inc. | 15,800 | 0 |
| Sovran Financial Corp. | 21,050 | 0 | Times Mirror Co. | 26,700 | 0 |
| Sparkman Energy Corp. | 49,350 | 0 | Timken Co. | 10,200 | 0 |

**FISCAL 1984 EQUITIES TRANSACTION SUMMARY
ALL FUNDS COMBINED**

| Security Description | Units Bought | Units Sold | Security Description | Units Bought | Units Sold |
|---------------------------------|--------------|------------|-------------------------------|--------------------|--------------------|
| Todd Shipyards Corp. | 10,000 | 0 | Wavetek Corp. | 5,400 | 15,400 |
| Toledo Edison Co. | 44,000 | 0 | WD 40 Co. | 32,000 | 0 |
| Topps Chewing Gum Inc. | 25,000 | 25,000 | Weis Markets Inc. | 6,500 | 0 |
| Torchmark Corp. | 17,000 | 0 | Weldotron Corp. | 5,000 | 0 |
| Toys R Us | 148,300 | 61,000 | Wells Fargo & Co. | 14,000 | 5,000 |
| Tracor Inc. | 78,000 | 0 | Wells Fargo Mtg. & Equity Tr. | 24,000 | 0 |
| Trane Co. | 11,000 | 11,000 | Wendys Intl. Inc. | 48,600 | 0 |
| Trans World Airl. Pfd. .05 | 0 | 6,938 | West Inc. | 25,000 | 0 |
| Trans World Airlines | 69,859 | 1 | West Point Pepperell Inc. | 15,000 | 5,000 |
| Trans World Corp. | 83,900 | 32,700 | Western Cas. & Surety Co. | 7,000 | 0 |
| Transamerica Corp. | 207,450 | 158,950 | Western Pac. Inds. Inc. | 7,500 | 1,000 |
| Transco Energy Co. | 171,350 | 40,800 | Western Tel. Comm. | 1,630 | 0 |
| Transco Expl. Part. Ltd. | 96,900 | 0 | Western Union Corp. | 247,350 | 23,250 |
| Travelers Corp. | 818,300 | 64,100 | Westinghouse Elec. Co. | 1,079,300 | 1,399,000 |
| Tribune Company | 16,150 | 16,150 | Westmoreland Coal Co. | 27,000 | 0 |
| Trinity Inds. Inc. | 20,000 | 0 | Westvaco Corp. | 14,700 | 0 |
| Trust Co. GA Atlanta | 14,000 | 0 | Wetterau Inc. | 33,000 | 0 |
| TRW Inc. | 27,300 | 29,600 | Weyerhaeuser Co. | 99,700 | 0 |
| Tyco Labs | 127,800 | 0 | Whirlpool Corp. | 1,065,300 | 1,779,300 |
| Tyler Corp. | 22,000 | 0 | White Cons. Inds. Inc. | 15,000 | 0 |
| Tymshare Inc. | 33,000 | 33,000 | Whitehall Corp. | 13,600 | 0 |
| Tyson Foods Inc. | 44,000 | 0 | Whittaker Corp. | 36,600 | 0 |
| U.S. Bancorp. | 31,000 | 0 | Willamette Inds. Inc. | 21,000 | 0 |
| U.S. Inds. Inc. | 40,000 | 40,000 | Williams Cos. | 16,000 | 0 |
| U.S. Gypsum Co. | 17,700 | 0 | Williams Sonoma Inc. | 3,000 | 3,000 |
| U.S. Home Corp. | 0 | 143,000 | Winn Dixie Stores Inc. | 32,200 | 0 |
| U.S. Steel Pfd. 12.75 | 15,500 | 5,500 | Winnebago Ind. Inc. | 85,000 | 0 |
| U.S. West Corp. | 29,300 | 19,981 | Wisconsin Electric Power | 256,200 | 229,800 |
| UAL Inc. | 58,100 | 59,500 | Wisconsin Pub. Service Corp. | 24,000 | 0 |
| UAL Inc. CV Pfd. 2.40 | 0 | 29,300 | Wisconsin Power & Light Co. | 26,000 | 0 |
| Ultimate Corp. | 70,700 | 24,200 | Wiser Oil Co. Del. | 28,000 | 0 |
| Ultrasystems Inc. | 500 | 0 | Witco Chemical Corp. | 40,600 | 3,500 |
| Union Camp Corp. | 60,200 | 8,000 | Wolverine World Wide | 0 | 25,000 |
| Union Carbide Corp. | 147,518 | 427,899 | Wometco Enterprises Inc. | 14,000 | 14,000 |
| Union Elec. Co. | 195,500 | 0 | Woods Pete Corp. | 27,000 | 0 |
| Union Pacific Corp. | 108,000 | 28,000 | Woolworth F.W. Co. | 23,800 | 0 |
| Uniroyal Inc. | 20,000 | 0 | Worthington Inds. Inc. | 33,000 | 0 |
| United Artists Theatre Circuit | 37,000 | 0 | Wrigley Wm. Jr. Co. | 12,000 | 0 |
| United Brands Co. | 45,500 | 0 | Wyman-Gordon Co. | 21,200 | 15,000 |
| United Cable TV Corp. | 42,100 | 0 | Xerox Corp. | 403,300 | 185,750 |
| United Energy Res. Inc. | 28,000 | 0 | Xicor Inc. | 0 | 7,000 |
| United Illum. Co. | 28,000 | 0 | Xidex Corp. | 32,200 | 0 |
| United States Leasing Intl. In. | 17,000 | 0 | Xtra Corp. | 24,000 | 8,800 |
| United States Shoe Corp. | 21,700 | 0 | Yellow Freight System | 25,600 | 40,700 |
| United States Steel Corp. | 80,700 | 0 | Zapata Corp. | 6,100 | 6,100 |
| United States Surgical Corp. | 45,000 | 0 | Zayre Corp. | 61,000 | 68,000 |
| United Stationers Inc. | 500 | 0 | Zenith Radio Corp. | 18,900 | 0 |
| United Stockyards Corp. | 3,000 | 0 | Zero Corp. | 0 | 4,000 |
| United Technologies Corp. | 76,000 | 10,000 | Zurn Inds. Inc. | 23,000 | 0 |
| United Telecom. Inc. | 65,200 | 0 | Zycad Corp. | 23,400 | 0 |
| United VA Bankshares Inc. | 22,000 | 0 | Equit. Life Assur. Society | 0 | 11,373 |
| Unitog Co. | 3,000 | 3,000 | Amgo I | 0 | 21,996 |
| Unitrode Corp. | 23,000 | 0 | Aetna Real Estate Fund | 0 | 11,414 |
| Universal Foods Corp. | 19,300 | 0 | Prudential Real Estate Fund | 0 | 10,480 |
| Universal Health Services | 50,000 | 0 | TOTAL | 121,819,617 | 102,094,331 |
| Unocal Corp. | 1,177,000 | 2,297,500 | | | |
| Upjohn Co. | 26,800 | 0 | | | |
| US Air Group | 236,050 | 41,450 | | | |
| US Fidelity & Guar. Co. | 280,900 | 35,550 | | | |
| USLIFE Corp. | 23,000 | 0 | | | |
| Utah Power & Light Co. In. | 31,000 | 0 | | | |
| UTL Corp. | 2,000 | 53,900 | | | |
| V. F. Corp. | 32,400 | 0 | | | |
| Valero Energy Corp. | 484,050 | 2,550 | | | |
| Valid Logic Systems Inc. | 18,000 | 0 | | | |
| Valley National Corp. | 110,000 | 83,000 | | | |
| Value Line Inc. | 20,000 | 0 | | | |
| Varian Assoc. Inc. | 34,900 | 30,000 | | | |
| Veeco Instrs. Inc. | 30,000 | 0 | | | |
| Verbatim Corp. | 28,000 | 0 | | | |
| Viacom Intl. | 22,000 | 9,000 | | | |
| Vicorp Restaurants Inc. | 30,000 | 40,000 | | | |
| Virginia Natl. Bankshares Inc. | 7,000 | 7,000 | | | |
| Vulcan Mats. Co. | 10,000 | 0 | | | |
| Wachovia Corp. | 33,200 | 0 | | | |
| Wackenhut Corp. | 12,000 | 0 | | | |
| Wal-Mart Stores Inc. | 358,650 | 261,850 | | | |
| Walgreen Co. | 25,000 | 0 | | | |
| Wallace Computer Ser. Inc. | 22,000 | 0 | | | |
| Walter Jim Corp. | 10,000 | 0 | | | |
| Wang Labs Cl. B | 1,077,400 | 1,089,300 | | | |
| Warnaco Inc. | 267,100 | 19,500 | | | |
| Warner Communications | 70,400 | 17,800 | | | |
| Warner Lambert | 62,100 | 53,000 | | | |
| Washington Natl. Corp. | 26,000 | 0 | | | |
| Washington Post B | 10,000 | 0 | | | |
| Washington Water Power Co. | 34,000 | 0 | | | |
| Waste Management | 752,900 | 1,254,000 | | | |
| Watkins Johnson Co. | 8,000 | 0 | | | |

MINNESOTA STATE BOARD OF INVESTMENT
 COMMISSIONS AND TRADING VOLUME
 BY BROKER
 FISCAL YEAR 1984

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| BROKER | EQUITY DOLLAR VOLUME | EQUITY COMM | BOND DOLLAR VOLUME | BOND COMM | SHORT TERM DOLLAR VOLUME |
|--------------------------|-------------------------|--------------|-----------------------|-----------|-----------------------------|
| A.G. BECKER & CO. | \$ 31,083,549.03 | \$ 72,189.00 | \$ 0.00 | \$ 0.00 | \$ 1,858,052,222.22 |
| ABEL/NOSER CORP. | 2,195,250.00 | 4,860.00 | 0.00 | 0.00 | 0.00 |
| ADAMS HARKNESS & HILL | 2,359,519.67 | 5,025.00 | 0.00 | 0.00 | 0.00 |
| ALLISON-WILLIAMS | 0.00 | 0.00 | 2,573,222.09 | 19,810.31 | 0.00 |
| AMERICAN EXPRESS CREDIT | 0.00 | 0.00 | 0.00 | 0.00 | 3,354,000.00 |
| AMERICAN NATIONAL BANK | 0.00 | 0.00 | 0.00 | 0.00 | 88,353,200.00 |
| AMERICAN SECURITIES | 3,335,602.25 | 8,300.99 | 0.00 | 0.00 | 0.00 |
| ASSOC CORP OF N AMER | 0.00 | 0.00 | 0.00 | 0.00 | 140,059,155.56 |
| AUTRANET | 22,338,149.93 | 48,747.00 | 0.00 | 0.00 | 0.00 |
| BAIRD PATRICK AND CO | 556,037.82 | 1,404.00 | 0.00 | 0.00 | 0.00 |
| BANK OF AMERICA | 0.00 | 0.00 | 5,000,000.00 | 13,500.00 | 66,000,000.00 |
| BANKERS TRUST | 0.00 | 0.00 | 0.00 | 0.00 | 134,505,000.00 |
| BATEMAN EICHLER | 1,875,000.00 | 6,000.00 | 0.00 | 0.00 | 0.00 |
| BEAR STEARNS & CO | 59,401,772.32 | 147,456.55 | 0.00 | 0.00 | 5,716,398,000.00 |
| BECKER-WARBURG-PARIBUS | 63,984,112.50 | 142,358.00 | 0.00 | 0.00 | 0.00 |
| BLYTH PAINE WEBBER | 0.00 | 0.00 | 2,000,000.00 | 6,000.00 | 0.00 |
| BMI CAPITAL MANAGEMENT | 11,078,853.89 | 38,797.09 | 0.00 | 0.00 | 0.00 |
| BOSTON INST. SERVICES | 32,313,049.21 | 88,653.00 | 0.00 | 0.00 | 0.00 |
| BRANDT (ROBERT) & CO | 27,173,512.50 | 61,941.00 | 0.00 | 0.00 | 0.00 |
| BRIGGS & SCHAEDEL | 0.00 | 0.00 | 0.00 | 0.00 | 84,700,000.00 |
| BROWN ALEX & SONS | 1,685,618.46 | 3,860.00 | 188,560.00 | 500.00 | 0.00 |
| BROWN BROS. HARRIMAN | 1,232,300.00 | 3,395.00 | 0.00 | 0.00 | 0.00 |
| BURGESS & LEITH | 1,109,453.02 | 3,538.00 | 0.00 | 0.00 | 0.00 |
| BURNS FRY & TIMMINS | 949,590.00 | 2,340.00 | 0.00 | 0.00 | 0.00 |
| BUTCHER & SINGER | 723,170.87 | 560.00 | 0.00 | 0.00 | 0.00 |
| CABLE/HOWSE & RAGEN | 1,149,894.35 | 2,714.00 | 0.00 | 0.00 | 0.00 |
| CANTOR FITZGERALD | 25,568,892.78 | 62,264.50 | 0.00 | 0.00 | 0.00 |
| CARROLL MCENTEE & MCGIN. | 0.00 | 0.00 | 0.00 | 0.00 | 16,000,000.00 |
| CHASE MANHATTAN BANK | 0.00 | 0.00 | 0.00 | 0.00 | 12,800,000.00 |
| CHEMICAL BANK N.Y. | 0.00 | 0.00 | 0.00 | 0.00 | 9,800,000.00 |
| CHICAGO CORP | 117,096.08 | 400.00 | 0.00 | 0.00 | 0.00 |
| CHRISTOPHER (B.C.) & CO. | 302,812.50 | 500.00 | 0.00 | 0.00 | 0.00 |
| CIT FINANCIAL CORP | 0.00 | 0.00 | 0.00 | 0.00 | 90,703,111.11 |
| CITIBANK | 0.00 | 0.00 | 0.00 | 0.00 | 244,803,028.86 |
| CONNING & COMPANY | 5,974,794.42 | 15,428.00 | 0.00 | 0.00 | 0.00 |
| COWEN & CO | 17,682,263.17 | 38,709.90 | 0.00 | 0.00 | 0.00 |
| CYRUS J. LAWRENCE | 25,547,450.73 | 57,994.50 | 0.00 | 0.00 | 0.00 |
| DAIN KALMAN & QUAIL | 3,453,072.50 | 9,597.50 | 0.00 | 0.00 | 0.00 |
| DEAN WITTER REYNOLDS | 123,723,354.59 | 287,303.70 | 3,920,260.00 | 11,000.00 | 303,705,000.00 |
| DELAFIELD HARVEY TABELL | 9,758,487.50 | 21,745.00 | 0.00 | 0.00 | 0.00 |
| DILLON READ | 45,346,808.88 | 113,283.57 | 0.00 | 0.00 | 0.00 |
| DISCOUNT CORP (N.Y.) | 0.00 | 0.00 | 0.00 | 0.00 | 99,765,000.00 |
| DONALDSON LUFKIN | 46,297,114.46 | 100,407.00 | 0.00 | 0.00 | 0.00 |
| DREXEL BURNHAM LAMBERT | 79,443,591.93 | 182,309.00 | 0.00 | 0.00 | 0.00 |

MINNESOTA STATE BOARD OF INVESTMENT
 COMMISSIONS AND TRADING VOLUME
 BY BROKER
 FISCAL YEAR 1984

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| BROKER | EQUITY DOLLAR VOLUME | EQUITY COMM | BOND DOLLAR VOLUME | BOND COMM | SHORT TERM DOLLAR VOLUME |
|------------------------------|-------------------------|--------------|-----------------------|-----------|-----------------------------|
| EF HUTTON AND CO | \$ 40,991,078.54 | \$ 98,150.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 |
| EBERSTADT (F) & CO | 23,836,886.98 | 50,815.00 | 0.00 | 0.00 | 0.00 |
| EDWARDS A.G. & SONS | 0.00 | 0.00 | 0.00 | 4,000.00 | 0.00 |
| ERNST & CO. | 20,346,160.69 | 39,891.62 | 0.00 | 0.00 | 0.00 |
| FHLB DES MOINES | 0.00 | 0.00 | 0.00 | 0.00 | 12,000,000.00 |
| FIRST BOSTON CORPORATION | 96,937,021.58 | 209,214.55 | 7,000,000.00 | 16,100.00 | 4,496,192,100.00 |
| FIRST INTERSTATE BANK CAL | 0.00 | 0.00 | 0.00 | 0.00 | 22,576,867.56 |
| FIRST INTERSTATE DALLAS | 0.00 | 0.00 | 0.00 | 0.00 | 5,000,000.00 |
| FIRST MANHATTAN COMPANY | 47,987,506.21 | 106,942.50 | 0.00 | 0.00 | 0.00 |
| FIRST NATIONAL BANK BOSTON | 0.00 | 0.00 | 0.00 | 0.00 | 1,000,000.00 |
| FIRST NATIONAL BANK CHICAGO | 0.00 | 0.00 | 0.00 | 0.00 | 53,000,000.00 |
| FIRST NATIONAL BANK MPLS | 0.00 | 0.00 | 0.00 | 0.00 | 193,356,000.00 |
| FIRST NATIONAL BANK ST. PAUL | 0.00 | 0.00 | 0.00 | 0.00 | 185,829,000.00 |
| FRED ALGER & COMPANY | 86,942,238.40 | 309,706.84 | 0.00 | 0.00 | 0.00 |
| GENERAL ELECTRIC CREDIT | 1,543,975.51 | 3,346.00 | 0.00 | 0.00 | 84,639,000.00 |
| GENERAL MOTORS ACCEPTANCE | 0.00 | 0.00 | 0.00 | 0.00 | 286,746,100.00 |
| GEORGE K. BAUM & CO. | 29,336.64 | 144.00 | 0.00 | 0.00 | 0.00 |
| GOLDMAN SACHS & COMPANY | 150,998,388.03 | 328,705.50 | 2,000,000.00 | 6,000.00 | 6,420,457,100.00 |
| HALSEY STUART & CO | 6,370,530.91 | 15,603.00 | 0.00 | 0.00 | 0.00 |
| HAMBRECHT & QUIST | 914,850.00 | 2,052.00 | 0.00 | 0.00 | 0.00 |
| HARRIS TRUST & SAVINGS | 0.00 | 0.00 | 0.00 | 0.00 | 13,000,000.00 |
| HAYDEN STONE INC | 605,129.78 | 1,225.00 | 0.00 | 0.00 | 0.00 |
| HOENIG & CO. | 372,500.00 | 1,600.00 | 0.00 | 0.00 | 0.00 |
| HOUSEHOLD FINANCE | 0.00 | 0.00 | 0.00 | 0.00 | 9,900,000.00 |
| INDEPENDENT STATE BANK | 0.00 | 0.00 | 0.00 | 0.00 | 24,500,000.00 |
| INSTANET | 240,107,524.26 | 97,768.34 | 0.00 | 0.00 | 0.00 |
| INTERFIRST DALLAS | 0.00 | 0.00 | 0.00 | 0.00 | 1,500,000.00 |
| INTERSTATE SECURITIES | 4,678,072.50 | 5,651.00 | 0.00 | 0.00 | 0.00 |
| IRVING TRUST CO N.Y. | 0.00 | 0.00 | 0.00 | 0.00 | 12,000,000.00 |
| JANNEY MONTGOMERY SCOTT | 0.00 | 0.00 | 470,000.00 | 1,250.00 | 0.00 |
| JEFFERIES & CO | 84,527,614.71 | 186,490.61 | 0.00 | 0.00 | 0.00 |
| JOHNSON LANE SPACE & SMITH | 44,139,841.83 | 87,488.00 | 0.00 | 0.00 | 0.00 |
| JONES & ASSOCIATES | 51,260,014.25 | 93,438.00 | 0.00 | 0.00 | 0.00 |
| JOSEPHTHAL & CO. | 3,021,573.60 | 7,783.00 | 0.00 | 0.00 | 0.00 |
| KEEFE BRUYETTE & WOOD | 14,165,431.25 | 32,546.00 | 0.00 | 0.00 | 0.00 |
| KIDDER PEABODY | 93,365,622.33 | 217,263.45 | 29,638,968.30 | 85,175.00 | 15,219,479,000.00 |
| KIRKPATRICK & CO. | 284,058.20 | 579.00 | 0.00 | 0.00 | 0.00 |
| KLEINWORT BENSON GOVT SEC | 0.00 | 0.00 | 0.00 | 0.00 | 1,014,200,000.00 |
| KLEINWORTH BENSON INC | 0.00 | 0.00 | 0.00 | 0.00 | 20,000,000.00 |
| L F ROTHSCHILD | 7,651,225.12 | 18,700.00 | 0.00 | 0.00 | 0.00 |
| LANSTON CO | 0.00 | 0.00 | 0.00 | 0.00 | 4,120,000.00 |
| LAZARD FRERES & CO | 702,470.63 | 2,280.00 | 497,800.00 | 1,250.00 | 0.00 |
| LEGG-MASON | 38,795.00 | 170.00 | 0.00 | 0.00 | 0.00 |
| LEHMAN GOVT SECURITIES | 0.00 | 0.00 | 191,400.00 | 500.00 | 10,586,887,844.44 |
| LEIBER & COMPANY | 33,756,260.02 | 121,483.50 | 0.00 | 0.00 | 0.00 |

MINNESOTA STATE BOARD OF INVESTMENT
 COMMISSIONS AND TRADING VOLUME
 BY BROKER
 FISCAL YEAR 1984

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| BROKER | EQUITY DOLLAR VOLUME | EQUITY COMM | BOND DOLLAR VOLUME | BOND COMM | SHORT TERM DOLLAR VOLUME |
|------------------------------|-------------------------|--------------|-----------------------|-----------|-----------------------------|
| LEWCO SECURITIES INC. \$ | 22,848,961.23 | \$ 58,225.52 | \$ 0.00 | \$ 0.00 | \$ 0.00 |
| LOVETT MITCHELL WEBBER INC | 1,012,371.50 | 2,759.00 | 0.00 | 0.00 | 0.00 |
| LYNCH JONES & RYAN | 6,469,959.19 | 14,018.00 | 0.00 | 0.00 | 0.00 |
| MABON NUGENT & CO. | 1,693,956.00 | 5,340.00 | 0.00 | 0.00 | 0.00 |
| MARQUETTE NATIONAL BANK | 0.00 | 0.00 | 0.00 | 0.00 | 129,927,000.00 |
| MCDONALD & COMPANY | 629,639.48 | 2,338.00 | 0.00 | 0.00 | 0.00 |
| MERRIL-PERFORMANCE MEASURE | 2,331,793.13 | 5,811.58 | 0.00 | 0.00 | 0.00 |
| MERRILL LYNCH - IDC | 207,975,928.41 | 423,117.63 | 0.00 | 0.00 | 0.00 |
| MERRILL LYNCH EVALUATION | 2,257,325.00 | 4,560.00 | 0.00 | 0.00 | 0.00 |
| MERRILL LYNCH P F & S | 54,392,388.67 | 128,338.50 | 0.00 | 0.00 | 9,967,147.22 |
| MERRILL LYNCH P F & S (R) | 95,178,530.73 | 246,355.50 | 6,298,180.00 | 16,875.00 | 287,404,000.00 |
| MESIROW AND COMPANY | 24,604,930.00 | 46,413.50 | 0.00 | 0.00 | 0.00 |
| MIDLAND NATIONAL BANK MPLS | 0.00 | 0.00 | 0.00 | 0.00 | 6,800,000.00 |
| MIDWAY NATIONAL BANK ST PAUL | 0.00 | 0.00 | 0.00 | 0.00 | 1,500,000.00 |
| MONTGOMERY SECURITIES | 14,668,572.10 | 37,338.50 | 0.00 | 0.00 | 0.00 |
| MOORE SCHLEY & CAMERON | 2,022,106.34 | 2,247.00 | 0.00 | 0.00 | 0.00 |
| MORGAN GUARANTY | 0.00 | 0.00 | 0.00 | 0.00 | 18,100,000.00 |
| MORGAN STANLEY & CO | 112,618,521.27 | 253,320.50 | 14,834,896.00 | 33,750.00 | 0.00 |
| MOSELY (F.S.) & CO | 81,685.00 | 310.00 | 0.00 | 0.00 | 0.00 |
| MURPHY, BARRY W. | 328,720.00 | 560.00 | 0.00 | 0.00 | 0.00 |
| NATIONAL CITY BANK MPLS | 0.00 | 0.00 | 0.00 | 0.00 | 7,500,000.00 |
| NEUBERGER & BERMAN | 11,889,896.25 | 27,521.00 | 0.00 | 0.00 | 0.00 |
| NOMURA SECURITIES INTL | 3,529,660.00 | 8,360.00 | 0.00 | 0.00 | 0.00 |
| NORWEST BANK MPLS | 0.00 | 0.00 | 0.00 | 0.00 | 243,547,000.00 |
| OPPENHEIMER & CO | 55,649,459.26 | 129,214.17 | 0.00 | 0.00 | 0.00 |
| PACIFIC BROKERAGE SEC. | 375,660,188.03 | 425,691.00 | 0.00 | 0.00 | 0.00 |
| PAINE WEBBER J & C | 98,642,669.18 | 225,055.50 | 0.00 | 0.00 | 1,434,344,000.00 |
| PENNEY (J.C.) FINANCE | 0.00 | 0.00 | 0.00 | 0.00 | 15,456,000.00 |
| PFORZHEIMER CARL H. | 347,613.39 | 450.00 | 0.00 | 0.00 | 0.00 |
| PIPER JAFFRAY & HOPWOOD | 1,675,382.50 | 5,377.00 | 0.00 | 0.00 | 0.00 |
| PIPER JAFFRAY & HOP S | 2,602,575.00 | 8,457.50 | 0.00 | 0.00 | 0.00 |
| PRESCOTT BALL & TURBAN | 3,618,083.30 | 7,909.00 | 0.00 | 0.00 | 0.00 |
| PRINTON & KANE | 0.00 | 0.00 | 1,243,282.50 | 3,667.50 | 0.00 |
| PRUDENTIAL | 11,844,527.37 | 25,681.00 | 0.00 | 0.00 | 0.00 |
| PRUDENTIAL BACHE SEC. | 79,436,524.55 | 225,890.90 | 16,571,949.00 | 47,500.00 | 1,391,816,000.00 |
| QUANTITATIVE ANALYSIS | 2,127,873.74 | 4,450.00 | 0.00 | 0.00 | 0.00 |
| QUEST SECURITIES INC | 1,052,700.00 | 2,700.00 | 0.00 | 0.00 | 0.00 |
| R.C. STAMM | 2,696,575.00 | 6,000.00 | 0.00 | 0.00 | 0.00 |
| REPUBLIC BANK DALLAS | 0.00 | 0.00 | 0.00 | 0.00 | 5,292,000.00 |
| REPUBLIC NATL. BANK N.Y. | 0.00 | 0.00 | 0.00 | 0.00 | 7,284,705.66 |
| RESEARCH MANAGEMENT ASSOC | 0.00 | 0.00 | 0.00 | 0.00 | 13,864,973.62 |
| ROBERTSON COLMAN & STEPH | 206,439.22 | 940.00 | 0.00 | 0.00 | 0.00 |
| ROBINSON-HUMPHREY CO | 2,275,000.00 | 5,200.00 | 0.00 | 0.00 | 0.00 |
| RODMAN & RENSHAW | 0.00 | 0.00 | 3,405,130.00 | 8,875.00 | 0.00 |

MINNESOTA STATE BOARD OF INVESTMENT
 COMMISSIONS AND TRADING VOLUME
 BY BROKER
 FISCAL YEAR 1984

| BROKER | EQUITY DOLLAR VOLUME | EQUITY COMM | BOND DOLLAR VOLUME | BOND COMM | SHORT TERM DOLLAR VOLUME |
|----------------------------|-------------------------|----------------|-----------------------|--------------|-----------------------------|
| ROONEY PACE INC. | \$ 123,662.50 | \$ 700.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 |
| ROTAN MOSLE | 1,622,294.24 | 4,763.00 | 0.00 | 0.00 | 0.00 |
| SALOMON BROTHERS | 177,135,354.76 | 336,252.65 | 20,753,841.50 | 82,478.75 | 15,151,906,200.00 |
| SANFORD C. BERNSTEIN | 52,063,762.51 | 129,806.50 | 0.00 | 0.00 | 0.00 |
| SEARS ROEBUCK ACCEPTANCE | 0.00 | 0.00 | 0.00 | 0.00 | 65,681,000.00 |
| SECURITIES SETTLEMENT CORP | 1,853,164.47 | 3,594.00 | 0.00 | 0.00 | 0.00 |
| SECURITY PACIFIC BANK | 0.00 | 0.00 | 0.00 | 0.00 | 5,000,000.00 |
| SHEARSON ARGUS RESEARCH | 869,970.83 | 5,000.00 | 0.00 | 0.00 | 0.00 |
| SHEARSON COMPUTER | 0.00 | 0.00 | 3,000,000.00 | 8,500.00 | 0.00 |
| SHEARSON LEHMAN (BONDSTAT) | 0.00 | 0.00 | 5,000,000.00 | 14,500.00 | 0.00 |
| SHEARSON LEHMAN AMER EXP. | 78,974,959.31 | 172,996.80 | 5,110,625.00 | 13,812.00 | 33,744,000.00 |
| SHEARSON/AMERICAN EXPRESS | 85,228,997.87 | 188,768.50 | 0.00 | 0.00 | 0.00 |
| SMITH BARNEY & COMPANY | 171,337,944.17 | 380,928.25 | 963,760.00 | 2,500.00 | 0.00 |
| SOWARBY (JOHN) ASSOCIATES | 0.00 | 0.00 | 0.00 | 0.00 | 10,593,000.00 |
| SUTRO & COMPANY INC | 274,915.12 | 922.00 | 0.00 | 0.00 | 0.00 |
| SYNDICATION | 0.00 | 0.00 | 14,922,190.00 | 0.00 | 0.00 |
| THOMSON & MCKINNON | 2,732,347.08 | 3,980.00 | 4,000,000.00 | 8,600.00 | 0.00 |
| TRANSAM FINANCIAL | 0.00 | 0.00 | 0.00 | 0.00 | 21,015,000.00 |
| TUCKER ANTHONY & R.L. DAY | 8,285,437.50 | 17,820.00 | 0.00 | 0.00 | 0.00 |
| TUCKER ANTHONY (L. BAILEY) | 2,736,977.92 | 5,574.00 | 0.00 | 0.00 | 0.00 |
| UNION BANK OF L.A. | 0.00 | 0.00 | 0.00 | 0.00 | 63,590,000.00 |
| W.E. POLLOCK & COMPANY | 0.00 | 0.00 | 0.00 | 0.00 | 1,119,834,000.00 |
| WAGNER STOTT & CO. | 663,340.91 | 2,234.00 | 0.00 | 0.00 | 0.00 |
| WALL STREET CLEARING | 112,050.00 | 300.00 | 0.00 | 0.00 | 0.00 |
| WALTER HELLER & CO | 0.00 | 0.00 | 0.00 | 0.00 | 123,668,844.44 |
| WEEDEN & COMPANY | 43,506,625.00 | 86,566.00 | 0.00 | 0.00 | 0.00 |
| WEISS | 1,580,668.28 | 3,580.00 | 0.00 | 0.00 | 0.00 |
| WELLS FARGO BANK | 0.00 | 0.00 | 0.00 | 0.00 | 517,531,000.00 |
| WERTHEIM & COMPANY | 32,835,437.51 | 72,613.25 | 11,786,600.00 | 31,000.00 | 0.00 |
| WERTHEIM MEASUREMENT | 229,592.33 | 400.00 | 0.00 | 0.00 | 0.00 |
| WESTINGHOUSE CREDIT | 0.00 | 0.00 | 0.00 | 0.00 | 49,126,000.00 |
| WILLIAM BLAIR & CO. | 3,580,985.37 | 11,042.00 | 0.00 | 0.00 | 0.00 |
| WILLIAM O NEIL & CO | 47,955.00 | 80.00 | 0.00 | 0.00 | 0.00 |
| WILSHIRE ASSOCIATES | 18,550,713.36 | 35,986.50 | 0.00 | 0.00 | 0.00 |
| WILSHIRE EQUITY MGR. SERV | 4,292,000.00 | 15,000.00 | 0.00 | 0.00 | 0.00 |
| WOOD GUNDY & COMPANY | 11,409,338.64 | 25,037.00 | 0.00 | 0.00 | 0.00 |
| ALL BROKERS COMBINED | \$3,606,264,379.86 | \$7,416,760.96 | \$161,370,664.39 | \$437,143.56 | \$68,269,872,600.69 |

TIME-WEIGHTED RATE OF RETURN

In measuring the performance of a manager or fund whose investment objective is to maximize the total value of an investment portfolio, the proper measuring tool is the time-weighted total rate of return. This performance measure includes the effect of income earned as well as realized and unrealized portfolio market value changes. In addition, the time-weighted total rate of return nets out the influence of contributions made to and distributions taken from the manager or fund. These are variables over which the manager or fund generally has no control.

The calculation of a portfolio's true time-weighted return requires that the portfolio be valued every time that there is a capital flow in or out. Because most portfolios are not valued that frequently, it is usually necessary to estimate the time-weighted total rates of return by approximating the required valuations.

In 1968, the Bank Administration Institute (BAI) commissioned a study, conducted by the University of Chicago, which considered desirable methods of estimating time-weighted returns. The BAI report is considered to be the definitive work in the field of performance measurement because of the academic reputations and thorough scientific efforts of its authors.

When monthly data are available, the BAI study recommends employing a technique called the linked internal rate of return (LIRR). Merrill Lynch, the SBI's performance measurement consultant, calculates the LIRR by solving the following equation for R:

$$VB*(1+R) + C*(1+R)**1/2 = VE$$

Where:

VB = Value of the fund at the beginning of the month

VE = Value of the fund at the end of the month

C = Assumed single mid-month net cash flow

R = Internal rate of return

The internal rate of return, R, is a proxy for the true time-weighted return over the month. It approximates the interim valuations by assuming a uniform growth of the invested assets throughout the period.

The IRR's calculated for each month can be linked together to estimate the time-weighted return for a longer period. For example, given three consecutive monthly IRR's - R1, R2, and R3, the quarterly time-weighted return (TWRQ) is:

$$TWRQ = (1+R1)*(1+R2)*(1+R3) - 1$$



STATE OF MINNESOTA

OFFICE OF THE LEGISLATIVE AUDITOR

VETERANS SERVICE BUILDING, ST. PAUL, MN 55155 • 612/296-4708

JAMES R. NOBLES, LEGISLATIVE AUDITOR

The State Board of Investment

and

Howard J. Bicker, Executive Director

We have examined the combining and individual fund financial statements, including the portfolio of investments, and the supplementary schedule of participation of the Investment Trust Funds of the Minnesota State Board of Investment as of and for the year ended June 30, 1984 as shown on pages 91 to 183. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances. Securities owned at June 30, 1984 were counted by us when held by the State Treasurer or were confirmed to us when held by other custodians.

Required reserves, which determine participation in the Post Retirement Investment Fund, are presented in accordance with reports certified by the consulting actuaries for the various pension funds participating in the fund.

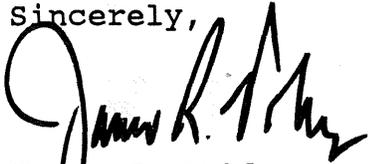
In our opinion, the aforementioned combining financial statements PRESENT FAIRLY the net assets and participation of the INVESTMENT TRUST FUNDS of the State of Minnesota at June 30, 1984, and the results of their operations and changes in their net assets for the year then ended, in conformity with generally accepted accounting principles which, except for the change in reporting entity as discussed in the Summary of Significant Accounting Policies, have been applied on a basis consistent with that of the preceding fiscal year.

In our opinion, relying on the certifications from the consulting actuaries as to reserves required for the Post Retirement Investment Fund, as discussed previously, the aforementioned financial statements PRESENT FAIRLY the net assets and participation of the SUPPLEMENTAL RETIREMENT FUND and its components, the INCOME SHARE, GROWTH SHARE, FIXED RETURN, and BOND accounts, the POST RETIREMENT INVESTMENT FUND, the VARIABLE ANNUITY FUND and the ACTIVE EQUITY FUND at June 30, 1984 and the results of their operations and changes in their net assets for the year then ended, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding fiscal year.

The State Board of Investment
and
Howard J. Bicker, Executive Director

In our opinion, the aforementioned financial statements PRESENT FAIRLY the net assets and participation of the BASIC RETIREMENT POOLED FUNDS and the PASSIVE EQUITY FUND, REAL ESTATE FUND, RE-SOURCE FUND, VENTURE CAPITAL FUND, BOND FUND, and MONEY MARKET FUND at June 30, 1984 and the results of their operations and changes in their net assets for the year then ended, in conformity with generally accepted accounting principles.

Sincerely,



James R. Nobles
Legislative Auditor



John Asmussen, CPA
Deputy Legislative Auditor

November 19, 1984

STATE BOARD OF INVESTMENT
INVESTMENT TRUST FUNDS
COMBINING STATEMENT OF ASSETS AND LIABILITIES
JUNE 30, 1984

| | SUPPLEMENTAL RETIREMENT FUND TOTAL | POST RETIREMENT INVESTMENT FUND | VARIABLE(4) ANNUITY FUND | BASIC RETIREMENT POOLED FUNDS | TOTAL |
|--|--|---------------------------------------|--------------------------------|-------------------------------------|-------------------------|
| ASSETS: | | | | | |
| INVESTMENTS (at market value) (1) | | | | | |
| Common Stock | \$ 87,503,669 | \$ 650,034,806 | \$ 82,036,515 | \$ 1,686,649,400 | \$ 2,506,224,390 |
| Alternative Equities | -0- | -0- | -0- | 167,919,432 | 167,919,432 |
| Fixed Income Securities | 85,021,765 | 924,432,719 | 4,901,550 | 826,747,938 | 1,841,103,972 |
| Short Term Securities | <u>46,627,795</u> | <u>252,034,000</u> | <u>8,972,877</u> | <u>292,716,548</u> | <u>600,351,220</u> |
| TOTAL INVESTMENTS(2) | \$ 219,153,229 | \$ 1,826,501,525 | \$ 95,910,942 | \$ 2,974,033,318 | \$ 5,115,599,014 |
| Cash With State Treasurer | 551 | 612 | 217 | 14 | 1,394 |
| Security Sales Receivable | 1,191,319 | 9,588,843 | 847,506 | 19,846,440 | 31,474,108 |
| Accounts Receivable-Mortality | -0- | 9,223,205 | -0- | -0- | 9,223,205 |
| Accounts Receivable-Participants | -0- | 6,533,620 | -0- | -0- | 6,533,620 |
| Accrued Interest | 2,550,981 | 29,902,893 | 78,736 | 22,526,040 | 55,058,650 |
| Accrued Dividends | 400,444 | 3,580,377 | 286,728 | 7,530,953 | 11,798,502 |
| Accrued Short Term Gain | <u>128,098</u> | <u>686,944</u> | <u>2,878</u> | <u>2,555,107</u> | <u>3,373,027</u> |
| TOTAL ASSETS | \$ 223,424,622 | \$ 1,886,018,019 | \$ 97,127,007 | \$ 3,026,491,872 | \$ 5,233,061,520 |
| LIABILITIES: | | | | | |
| Management Fees Payable | 114,037 | 331,321 | 115,008 | 850,625 | 1,410,991 |
| Security Purchases Payable | 3,365,784 | 19,686,152 | 1,937,435 | 14,475,113 | 39,464,484 |
| Accounts Payable to Teachers | -0- | -0- | 267,724 | -0- | 267,724 |
| Options Premiums Received | <u>-0-</u> | <u>121,550(3)</u> | <u>-0-</u> | <u>-0-</u> | <u>121,550</u> |
| TOTAL LIABILITIES | \$ 3,479,821 | \$ 20,139,023 | \$ 2,320,167 | \$ 15,325,738 | \$ 41,264,749 |
| NET ASSETS AT JUNE 30, 1984 | <u>\$ 219,944,801</u> | <u>\$ 1,865,878,996</u> | <u>\$ 94,806,840</u> | <u>\$ 3,011,166,134</u> | <u>\$ 5,191,796,771</u> |
| (1)The cost of investments at June 30, was: | | | | | |
| Common Stock | \$ 94,224,991 | \$ 675,298,750 | \$ 88,839,877 | \$ 1,855,597,064 | \$ 2,713,960,682 |
| Alternative Equities | -0- | -0- | -0- | 157,126,365 | 157,126,365 |
| Fixed Income Securities | 99,173,739 | 1,041,511,250 | 5,000,764 | 828,740,387 | 1,974,426,140 |
| Short Term Securities | <u>46,627,795</u> | <u>252,034,000</u> | <u>8,972,877</u> | <u>292,716,548</u> | <u>600,351,220</u> |
| Total Investments at Cost | \$ 240,026,525 | \$ 1,968,844,000 | \$ 102,813,518 | \$ 3,134,180,364 | \$ 5,445,864,407 |
| (2)The cost of loaned securities outstanding at June 30, was: | | | | | |
| | \$ 1,639,141 | \$ 71,105,102 | \$ -0- | \$ -0- | \$ 72,744,243 |

STATE BOARD OF INVESTMENT
INVESTMENT TRUST FUNDS
COMBINING STATEMENT OF CHANGES IN NET ASSETS
YEAR ENDED JUNE 30, 1984

| | SUPPLEMENTAL RETIREMENT FUND TOTAL | POST RETIREMENT INVESTMENT FUND | VARIABLE (4) ANNUITY FUND | BASIC RETIREMENT POOLED FUNDS | TOTAL |
|--|--|---------------------------------------|---------------------------------|-------------------------------------|-------------------------|
| FROM INVESTMENT ACTIVITY: | | | | | |
| Net Investment Income | \$ 17,202,163 | \$ 162,467,706 | \$ 4,339,777 | \$ 90,943,084 | \$ 274,952,730 |
| Realized Gains (Losses) | 6,950,051 | 42,263,254 | 3,902,257 | (38,713,705) | 14,401,857 |
| Unrealized Gains (Losses) | (33,845,695) | (264,396,146) | (19,423,648) | (214,657,961) | (532,323,450) |
| TOTAL INCOME | \$ (9,693,481) | \$ (59,665,186) | \$ (11,181,614) | \$ (162,428,582) | \$ (242,968,863) |
| Less Distribution to Participant Accounts | 5,177,450 | (83,181,357) | (10,525,516) | (42,815,613) | (131,345,036) |
| Undistributed Dedicated Income | -0- | (111,514,807) | -0- | 1,090,356 | (110,424,451) |
| NET CHANGE IN UNDISTRIBUTED INCOME | \$ (4,516,031) | \$ (254,361,350) | \$ (21,707,130) | \$ (204,153,839) | \$ (484,738,350) |
| FROM PARTICIPANT TRANSACTION: | | | | | |
| Additions to Participant Accounts | | | | | |
| Participant Contributions | 11,931,161 | 277,990,549 | 9,190 | 2,558,268,776 | 2,848,199,676 |
| Income Distribution | (5,177,450) | 83,181,357 | 10,525,516 | 42,815,613 | 131,345,036 |
| Income to be Distributed | -0- | 111,514,807 | -0- | (1,090,356) | 110,424,451 |
| TOTAL ADDITIONS | \$ 6,753,711 | \$ 472,686,713 | \$ 10,534,706 | \$ 2,599,994,033 | \$ 3,089,969,163 |
| Deductions from Participant Accounts | | | | | |
| Withdrawals | 4,207,566 | 136,867,738 | 803,259 | -0- | 141,878,563 |
| TOTAL DEDUCTIONS | \$ 4,207,566 | \$ 136,867,738 | \$ 803,259 | \$ -0- | \$ 141,878,563 |
| NET CHANGE IN PARTICIPATION | \$ 2,546,145 | \$ 335,818,975 | \$ 9,731,447 | \$ 2,599,994,033 | \$ 2,948,090,600 |
| TOTAL CHANGE IN ASSETS | (1,969,886) | 81,457,625 | (11,975,683) | 2,395,840,194 | 2,463,352,250 |
| NET ASSETS: | | | | | |
| Beginning of Period | 221,914,687 | 1,784,421,371 | 106,782,523 | 615,325,940 | 2,728,444,521 |
| End of Period | \$ 219,944,801 | \$ 1,865,878,996 | \$ 94,806,840 | \$ 3,011,166,134 | \$ 5,191,796,771 |

STATE BOARD OF INVESTMENT
INVESTMENT TRUST FUNDS
COMBINING STATEMENT OF OPERATIONS
YEAR ENDED JUNE 30, 1984

| | SUPPLEMENTAL RETIREMENT FUND TOTAL | POST RETIREMENT INVESTMENT FUND | VARIABLE (4) ANNUITY FUND | BASIC RETIREMENT POOLED FUNDS | TOTAL |
|--|--|---------------------------------------|---------------------------------|-------------------------------------|------------------|
| INVESTMENT INCOME: | | | | | |
| Interest | \$ 9,945,521 | \$ 120,932,350 | \$ 473,981 | \$ 21,924,315 | \$ 153,276,167 |
| Dividends | 3,772,682 | 31,662,679 | 2,827,665 | 53,103,510 | 91,366,536 |
| Short Term Gains | 3,771,445 | 10,203,998 | 1,341,264 | 19,368,771 | 34,685,478 |
| INCOME BEFORE EXPENSES | \$ 17,489,648 | \$ 162,799,027 | \$ 4,642,910 | \$ 94,396,596 | \$ 279,328,181 |
| Management Fee—Outside Managers | (287,485) | (331,321) | (303,133) | (3,453,512) | (4,375,451) |
| NET INCOME | \$ 17,202,163 | \$ 162,467,706 | \$ 4,339,777 | \$ 90,943,084 | \$ 274,952,730 |
| REALIZED AND UNREALIZED GAIN (LOSS) ON INVESTMENTS | | | | | |
| Realized: | | | | | |
| Proceeds from Sales | \$ 151,165,440 | \$ 641,246,985 | \$ 130,854,491 | \$ 2,409,794,847 | \$ 3,333,061,763 |
| Cost of Securities Sold | 144,215,389 | 598,983,731 | 126,952,234 | 2,448,508,553 | 3,318,659,907 |
| NET REALIZED GAIN (LOSS) | \$ 6,950,051 | \$ 42,263,254 | \$ 3,902,257 | \$ (38,713,706) | \$ 14,401,856 |
| Unrealized | | | | | |
| Beginning of Period | 12,972,399 | 122,368,389 | 12,521,072 | 54,510,914 | 202,372,774 |
| End of Period | (20,873,296) | (142,027,757) | (6,902,576) | (160,147,027) | (329,950,656) |
| INCREASE (DECREASE) IN UNREALIZED APPRECIATION | \$ (33,845,695) | \$ (264,396,146) | \$ (19,423,648) | \$ (214,657,941) | \$ (532,323,430) |
| NET REALIZED AND UNREALIZED GAIN (LOSS) ON INVESTMENT | \$ (26,895,644) | \$ (222,132,892) | \$ (15,521,391) | \$ (253,371,647) | \$ (517,921,574) |

STATE BOARD OF INVESTMENT
MINNESOTA SUPPLEMENTAL RETIREMENT FUND
COMBINING STATEMENT OF ASSETS AND LIABILITIES
JUNE 30, 1984

| | INCOME SHARE ACCOUNT | GROWTH SHARE ACCOUNT | FIXED RETURN ACCOUNT | BOND ACCOUNT | SUPPLEMENTAL RETIREMENT FUND TOTAL |
|--|----------------------------|----------------------------|----------------------------|---------------------|--|
| ASSETS: | | | | | |
| INVESTMENTS (at market value) (1) | | | | | |
| Common Stock | \$ 60,426,777 | \$ 27,076,892 | \$ -0- | \$ -0- | \$ 87,503,669 |
| Fixed Income Securities | 38,715,034 | -0- | 43,466,393 | 2,840,338 | 85,021,765 |
| Short Term Securities | <u>10,934,330</u> | <u>27,063,465</u> | <u>8,533,000</u> | <u>97,000</u> | <u>46,627,795</u> |
| TOTAL INVESTMENTS(2) | \$ 110,076,141 | \$ 54,140,357 | \$ 51,999,393 | \$ 2,937,338 | \$ 219,153,229 |
| Cash With State Treasurer | 162 | (1,018) | 890 | 517 | 551 |
| Security Sales Receivable | 666,997 | 524,322 | -0- | -0- | 1,191,319 |
| Accounts Receivable-Mortality | -0- | -0- | -0- | -0- | -0- |
| Accounts Receivable-Participants | -0- | -0- | -0- | -0- | -0- |
| Accrued Interest | 1,099,719 | -0- | 1,358,268 | 92,994 | 2,550,981 |
| Accrued Dividends | 273,269 | 127,175 | -0- | -0- | 400,444 |
| Accrued Short Term Gain | <u>6,938</u> | <u>113,647</u> | <u>7,513</u> | <u>-0-</u> | <u>128,098</u> |
| TOTAL ASSETS | \$ 112,123,226 | \$ 54,904,483 | \$ 53,366,064 | \$ 3,030,849 | \$ 223,424,622 |
| LIABILITIES: | | | | | |
| Management Fees Payable | 42,029 | 62,479 | 9,052 | 477 | 114,037 |
| Security Purchases Payable | 1,751,165 | 690,189 | 924,430 | -0- | 3,365,784 |
| Accounts Payable to Teachers | -0- | -0- | -0- | -0- | -0- |
| Options Premiums Received | <u>-0-</u> | <u>-0-</u> | <u>-0-</u> | <u>-0-</u> | <u>-0-</u> |
| TOTAL LIABILITIES | \$ 1,793,194 | \$ 752,668 | \$ 933,482 | \$ 477 | \$ 3,479,821 |
| NET ASSETS AT JUNE 30, 1984 | <u>\$ 110,330,032</u> | <u>\$ 54,151,815</u> | <u>\$ 52,432,582</u> | <u>\$ 3,030,372</u> | <u>\$ 219,944,801</u> |
| (1)The cost of investments at June 30, was: | | | | | |
| Common Stock | \$ 64,721,701 | \$ 29,503,290 | \$ -0- | \$ -0- | \$ 94,224,991 |
| Fixed Income Securities | 45,894,921 | -0- | 50,288,071 | 2,990,747 | 99,173,739 |
| Short Term Securities | <u>10,934,330</u> | <u>27,063,465</u> | <u>8,533,000</u> | <u>97,000</u> | <u>46,627,795</u> |
| Total Investments at Cost | <u>\$ 121,550,952</u> | <u>\$ 56,566,755</u> | <u>\$ 58,821,071</u> | <u>\$ 3,087,747</u> | <u>\$ 240,026,525</u> |
| (2)The cost of loaned securities outstanding at June 30, was: | | | | | |
| | \$ 460,000 | \$ -0- | \$ 850,000 | \$ 329,141 | \$ 1,639,141 |

STATE BOARD OF INVESTMENT
MINNESOTA SUPPLEMENTAL RETIREMENT FUND
COMBINING STATEMENT OF CHANGES IN NET ASSETS
YEAR ENDED JUNE 30, 1984

| | INCOME SHARE ACCOUNT | GROWTH SHARE ACCOUNT | FIXED RETURN ACCOUNT | BOND (6) ACCOUNT | SUPPLEMENTAL RETIREMENT FUND TOTAL |
|--|----------------------------|----------------------------|----------------------------|---------------------|--|
| FROM INVESTMENT ACTIVITY: | | | | | |
| Net Investment Income | \$ 8,179,927 | \$ 3,029,728 | \$ 5,675,231 | \$ 317,277 | \$ 17,202,163 |
| Realized Gains (Losses) | 4,503,771 | 2,445,151 | 1,129 | -0- | 6,950,051 |
| Unrealized Gains (Losses) | <u>(19,120,623)</u> | <u>(10,213,500)</u> | <u>(4,231,917)</u> | <u>(279,655)</u> | <u>(33,845,695)</u> |
| TOTAL INCOME | \$ (6,436,925) | \$ (4,738,621) | \$ 1,444,443 | \$ 37,622 | \$ (9,693,481) |
| Less Distribution to Participant Accounts | 6,436,925 | 4,738,621 | (5,687,558) | (310,538) | 5,177,450 |
| Undistributed Dedicated Income | <u>-0-</u> | <u>-0-</u> | <u>-0-</u> | <u>-0-</u> | <u>-0-</u> |
| NET CHANGE IN UNDISTRIBUTED INCOME | \$ -0- | \$ -0- | \$ (4,243,115) | \$ (272,916) | \$ (4,516,031) |
| FROM PARTICIPANT TRANSACTION: | | | | | |
| Additions to Participant Accounts | | | | | |
| Participant Contributions | 4,293,085 | 344,192 | 6,457,914 | 835,970 | 11,931,161 |
| Income Distribution | (6,436,925) | (4,738,621) | 5,687,558 | 310,538 | (5,177,450) |
| Income to be Distributed | <u>-0-</u> | <u>-0-</u> | <u>-0-</u> | <u>-0-</u> | <u>-0-</u> |
| TOTAL ADDITIONS | \$ (2,143,840) | \$ (4,394,429) | \$ 12,145,472 | \$ 1,146,508 | \$ 6,753,711 |
| Deductions from Participant Accounts | | | | | |
| Withdrawals | <u>2,270,436</u> | <u>-0-</u> | <u>1,937,130</u> (5) | <u>-0-</u> | <u>4,207,566</u> |
| TOTAL DEDUCTIONS | \$ 2,270,436 | \$ -0- | \$ 1,937,130 | \$ -0- | \$ 4,207,566 |
| NET CHANGE IN PARTICIPATION | \$ (4,414,276) | \$ (4,394,429) | \$ 10,208,342 | \$ 1,146,508 | \$ 2,546,145 |
| TOTAL CHANGE IN ASSETS | (4,414,276) | (4,394,429) | 5,965,227 | 873,592 | (1,969,886) |
| NET ASSETS: | | | | | |
| Beginning of Period | <u>114,744,308</u> | <u>58,546,244</u> | <u>46,467,355</u> | <u>2,156,780</u> | <u>221,914,687</u> |
| End of Period | \$ <u>110,330,032</u> | \$ <u>54,151,815</u> | \$ <u>52,432,582</u> | \$ <u>3,030,372</u> | \$ <u>219,944,801</u> |

STATE BOARD OF INVESTMENT
MINNESOTA SUPPLEMENTAL RETIREMENT FUND
COMBINING STATEMENT OF OPERATIONS
YEAR ENDED JUNE 30, 1984

| | INCOME SHARE ACCOUNT | GROWTH SHARE ACCOUNT | FIXED RETURN ACCOUNT | BOND ACCOUNT | SUPPLEMENTAL RETIREMENT FUND TOTAL |
|--|----------------------------|----------------------------|----------------------------|-----------------|--|
| INVESTMENT INCOME: | | | | | |
| Interest | \$ 4,673,464 | \$ 13,096 | \$ 4,956,712 | \$ 302,249 | \$ 9,945,521 |
| Dividends | 2,558,831 | 1,213,851 | -0- | -0- | 3,772,682 |
| Option Income | -0- | -0- | -0- | -0- | -0- |
| Short Term Gains | 1,060,564 | 1,967,805 | 727,571 | 15,505 | 3,771,445 |
| INCOME BEFORE EXPENSES | \$ 8,292,859 | \$ 3,194,752 | \$ 5,684,283 | \$ 317,754 | \$ 17,489,648 |
| Management Fee-Outside Managers | (112,932) | (165,024) | (9,052) | (477) | (287,485) |
| NET INCOME | \$ 8,179,927 | \$ 3,029,728 | \$ 5,675,231 | \$ 317,277 | \$ 17,202,163 |
| REALIZED AND UNREALIZED GAIN (LOSS) ON INVESTMENTS | | | | | |
| Realized: | | | | | |
| Proceeds from Sales | \$ 82,371,797 | \$ 68,407,539 | \$ 386,104 | \$ -0- | \$ 151,165,440 |
| Cost of Securities Sold | 77,868,026 | 65,962,388 | 384,975 | -0- | 144,215,389 |
| NET REALIZED GAIN (LOSS) | \$ 4,503,771 | \$ 2,445,151 | \$ 1,129 | \$ -0- | \$ 6,950,051 |
| Unrealized | | | | | |
| Beginning of Period | 7,645,812 | 7,787,102 | (2,589,761) | 129,246 | 12,972,399 |
| End of Period | (11,474,811) | (2,426,398) | (6,821,678) | (150,409) | (20,873,296) |
| INCREASE (DECREASE) IN UNREALIZED APPRECIATION | \$ (19,120,623) | \$ (10,213,500) | \$ (4,231,917) | \$ (279,655) | \$ (33,845,695) |
| NET REALIZED AND UNREALIZED GAIN (LOSS) ON INVESTMENT | \$ (14,616,852) | \$ (7,768,349) | \$ (4,230,788) | \$ (279,655) | \$ (26,895,644) |

STATE BOARD OF INVESTMENT
MINNESOTA POOLED FUNDS
COMBINING STATEMENT OF ASSETS AND LIABILITIES
JUNE 30, 1984

| | ACTIVE EQUITY FUND | PASSIVE EQUITY FUND | REAL ESTATE FUND | RESOURCE FUND | VENTURE CAPITAL FUND | BOND FUND | MONEY MARKET FUND | BASIC RETIREMENT POOLED FUNDS TOTAL |
|---|--------------------------|---------------------------|------------------------|----------------------|----------------------------|-----------------------|-------------------------|---|
| ASSETS: | | | | | | | | |
| INVESTMENTS (at market value) (1) | | | | | | | | |
| Common Stock | \$ 441,679,745 | \$1,244,969,655 | \$ -0- | \$ -0- | \$ -0- | \$ -0- | \$ -0- | \$ 1,686,649,400 |
| Alternative Equities | -0- | -0- | 140,493,313 | 23,051,119 | 4,375,000 | -0- | -0- | 167,919,432 |
| Fixed Income Securities | 18,113,497 | 957,052 | -0- | -0- | -0- | 807,677,389 | -0- | 826,747,938 |
| Short Term Securities | 66,942,566 | 8,599,757 | 25,613,143 | 1,111,066 | 25,054,234 | 24,958,876 | 140,436,906 | 292,716,548 |
| TOTAL INVESTMENTS(2) | \$ 526,735,808 | \$1,254,526,464 | \$ 166,106,456 | \$ 24,162,185 | \$ 29,429,234 | \$ 832,636,265 | \$ 140,436,906 | \$ 2,974,033,318 |
| Cash With State Treasurer | 8 | 1 | 1 | -0- | 1 | 3 | -0- | 14 |
| Security Sales Receivable | 16,242,051 | 3,604,389 | -0- | -0- | -0- | -0- | -0- | 19,846,440 |
| Accounts Receivable-Mortality | -0- | -0- | -0- | -0- | -0- | -0- | -0- | -0- |
| Accounts Receivable-Participants | -0- | -0- | -0- | -0- | -0- | -0- | -0- | -0- |
| Accrued Interest | 822,346 | 4,742 | -0- | -0- | -0- | 21,698,952 | -0- | 22,526,040 |
| Accrued Dividends | 1,635,530 | 5,895,423 | -0- | -0- | -0- | -0- | -0- | 7,530,953 |
| Accrued Short Term Gain | 614,687 | 75,091 | 222,378 | 9,646 | 218,702 | 195,303 | 1,219,300 | 2,555,107 |
| TOTAL ASSETS | \$ 546,050,430 | \$1,264,106,110 | \$ 166,328,835 | \$ 24,171,831 | \$ 29,647,937 | \$ 854,530,523 | \$ 141,656,206 | \$ 3,026,491,872 |
| LIABILITIES: | | | | | | | | |
| Management Fees Payable | 807,647 | 42,978 | -0- | -0- | -0- | -0- | -0- | 850,625 |
| Security Purchases Payable | 11,814,227 | 2,660,886 | -0- | -0- | -0- | -0- | -0- | 14,475,113 |
| Accounts Payable to Teachers | -0- | -0- | -0- | -0- | -0- | -0- | -0- | -0- |
| Options Premiums Received | -0- | -0- | -0- | -0- | -0- | -0- | -0- | -0- |
| TOTAL LIABILITIES | \$ 12,621,874 | \$ 2,703,864 | \$ -0- | \$ -0- | \$ -0- | \$ -0- | \$ -0- | \$ 15,325,738 |
| NET ASSETS AT JUNE 30, 1984 | \$ 533,428,556 | \$1,261,402,246 | \$ 166,328,835 | \$ 24,171,831 | \$ 29,647,937 | \$ 854,530,523 | \$ 141,656,206 | \$ 3,011,166,134 |
| (1) The cost of investments at June 30, was: | | | | | | | | |
| Common Stock | \$ 472,190,773 | \$1,383,406,291 | \$ -0- | \$ -0- | \$ -0- | \$ -0- | \$ -0- | \$ 1,855,597,064 |
| Alternative Equities | -0- | -0- | 129,700,246 | 23,051,119 | 4,375,000 | -0- | -0- | 157,126,365 |
| Fixed Income Securities | 19,053,856 | 965,697 | -0- | -0- | -0- | 808,720,834 | -0- | 828,740,387 |
| Short Term Securities | 66,942,566 | 8,599,757 | 25,613,143 | 1,111,066 | 25,054,234 | 24,958,876 | 140,436,906 | 292,716,548 |
| Total Investments at Cost | \$ 558,187,195 | \$1,392,971,745 | \$ 155,313,389 | \$ 24,162,185 | \$ 29,429,234 | \$ 833,679,710 | \$ 140,436,906 | \$ 3,134,180,364 |
| (2) The cost of loaned securities outstanding at June 30, was: | | | | | | | | |
| | \$ 35,227,313 | \$ 113,287,485 | \$ -0- | \$ -0- | \$ -0- | \$ 16,865,546 | \$ -0- | \$ 165,380,344 |

STATE BOARD OF INVESTMENT
MINNESOTA POOLED FUNDS
COMBINING STATEMENT OF CHANGES IN NET ASSETS
YEAR ENDED JUNE 30, 1984

| | ACTIVE EQUITY FUND | PASSIVE EQUITY FUND | REAL ESTATE FUND | RESOURCE FUND | VENTURE CAPITAL FUND | BOND FUND | MONEY MARKET FUND | BASIC RETIREMENT POOLED FUNDS TOTAL |
|--|--------------------------|---------------------------|------------------------|------------------|----------------------------|-----------------|-------------------------|---|
| FROM INVESTMENT ACTIVITY: | | | | | | | | |
| Net Investment Income | \$ 19,837,263 | \$ 39,455,572 | \$ 1,135,522 | \$ 383,590 | \$ 647,937 | \$ 18,979,078 | \$ 10,504,122 | \$ 90,943,084 |
| Realized Gains (Losses) | (15,825,345) | 13,745,314 | -0- | -0- | -0- | (36,633,674) | -0- | (38,713,705) |
| Unrealized Gains (Losses) | (85,962,302) | (138,445,281) | 10,793,067 | -0- | -0- | (1,043,445) | -0- | (214,657,961) |
| TOTAL INCOME | \$ (81,950,384) | \$ (85,244,395) | \$ 11,928,589 | \$ 383,590 | \$ 647,937 | \$ (18,698,041) | \$ 10,504,122 | \$ (162,428,582) |
| Less Distribution to Participant Accounts | (4,819,565) | (52,503,582) | (1,135,522) | (383,590) | (647,937) | 16,674,583 | -0- | (42,815,613) |
| Undistributed Dedicated Income | 807,647 | (697,304) | -0- | -0- | -0- | 980,013 | -0- | 1,090,356 |
| NET CHANGE IN UNDISTRIBUTED INCOME | \$ (85,962,302) | \$ (138,445,281) | \$ 10,793,067 | \$ -0- | \$ -0- | \$ (1,043,445) | \$ 10,504,122 | \$ (204,153,839) |
| FROM PARTICIPANT TRANSACTION: | | | | | | | | |
| Additions to Participant Accounts | | | | | | | | |
| Participant Contributions | 53,000 | 1,346,646,641 | 154,400,246 | 23,788,241 | 29,000,000 | 873,228,564 | 131,152,084 | 2,558,268,776 |
| Income Distribution | 4,819,565 | 52,503,582 | 1,135,522 | 383,590 | 647,937 | (16,674,583) | -0- | 42,815,613 |
| Income to be Distributed | (807,647) | 697,304 | -0- | -0- | -0- | (980,013) | -0- | (1,090,356) |
| TOTAL ADDITIONS | \$ 4,064,918 | \$ 1,399,847,527 | \$ 155,535,768 | \$ 24,171,831 | \$ 29,647,937 | \$ 855,573,968 | \$ 131,152,084 | \$ 2,599,994,033 |
| Deductions from Participant Accounts | | | | | | | | |
| Withdrawals | -0- | -0- | -0- | -0- | -0- | -0- | -0- | -0- |
| TOTAL DEDUCTIONS | \$ -0- | \$ -0- | \$ -0- | \$ -0- | \$ -0- | \$ -0- | \$ -0- | \$ -0- |
| NET CHANGE IN PARTICIPATION | \$ 4,064,918 | \$ 1,399,847,527 | \$ 155,535,768 | \$ 24,171,831 | \$ 29,647,937 | \$ 855,573,968 | \$ 131,152,084 | \$ 2,599,994,033 |
| TOTAL CHANGE IN ASSETS | (81,897,384) | 1,261,402,246 | 166,328,835 | 24,171,831 | 29,647,937 | 854,530,523 | 141,656,206 | 2,395,840,194 |
| NET ASSETS: | | | | | | | | |
| Beginning of Period | 615,325,940 | -0- | -0- | -0- | -0- | -0- | -0- | 615,325,940 |
| End of Period | \$ 533,428,556 | \$ 1,261,402,246 | \$ 166,328,835 | \$ 24,171,831 | \$ 29,647,937 | \$ 854,530,523 | \$ 141,656,206 | \$ 3,011,166,134 |

STATE BOARD OF INVESTMENT
MINNESOTA POOLED FUNDS
COMBINING STATEMENT OF OPERATIONS
YEAR ENDED JUNE 30, 1964

| | ACTIVE EQUITY FUND | PASSIVE EQUITY FUND | REAL ESTATE FUND | RESOURCE FUND | VENTURE CAPITAL FUND | BOND FUND | MONEY MARKET FUND | BASIC RETIREMENT POOLED FUNDS TOTAL |
|--|--------------------------|---------------------------|------------------------|------------------|----------------------------|-----------------|-------------------------|---|
| INVESTMENT INCOME: | | | | | | | | |
| Interest | \$ 2,032,049 | \$ 1,202,856 | \$ -0- | \$ -0- | \$ -0- | \$ 18,689,410 | \$ -0- | \$ 21,924,315 |
| Dividends | 14,431,891 | 38,344,019 | -0- | 327,600 | -0- | -0- | -0- | 53,103,510 |
| Short Term Gains | 6,730,790 | 4,742 | 1,135,522 | 55,990 | 647,937 | 289,668 | 10,504,122 | 19,368,771 |
| INCOME BEFORE EXPENSES | \$ 23,194,730 | \$ 39,551,617 | \$ 1,135,522 | \$ 383,590 | \$ 647,937 | \$ 18,979,078 | \$ 10,504,122 | \$ 94,396,596 |
| Management Fee-Outside Managers | 3,357,467 | 96,045 | -0- | -0- | -0- | -0- | -0- | 3,453,512 |
| NET INCOME | \$ 19,837,263 | \$ 39,455,572 | \$ 1,135,522 | \$ 383,590 | \$ 647,937 | \$ 18,979,078 | \$ 10,504,122 | \$ 90,943,084 |
| REALIZED AND UNREALIZED GAIN (LOSS) ON INVESTMENTS | | | | | | | | |
| Realized: | | | | | | | | |
| Proceeds from Sales | \$ 572,541,966 | \$ 1,109,510,453 | \$ -0- | \$ -0- | \$ -0- | \$ 727,742,428 | \$ -0- | \$ 2,409,794,847 |
| Cost of Securities Sold | 588,367,312 | 1,095,765,139 | -0- | -0- | -0- | 764,376,102 | -0- | 2,448,508,553 |
| NET REALIZED GAIN (LOSS) | \$ (15,825,346) | \$ 13,745,314 | \$ -0- | \$ -0- | \$ -0- | \$ (36,633,674) | \$ -0- | \$ (38,713,706) |
| Unrealized | | | | | | | | |
| Beginning of Period | 54,510,914 | -0- | -0- | -0- | -0- | -0- | -0- | 54,510,914 |
| End of Period | (31,451,388) | (138,445,261) | 10,793,067 | -0- | -0- | (1,043,445) | -0- | (160,147,027) |
| INCREASE (DECREASE) IN UNREALIZED APPRECIATION | \$ (85,962,302) | \$ (138,445,261) | \$ 10,793,067 | \$ -0- | \$ -0- | \$ (1,043,445) | \$ -0- | \$ (214,657,941) |
| NET REALIZED AND UNREALIZED GAIN (LOSS) ON INVESTMENT | \$ (101,787,648) | \$ (124,699,947) | \$ 10,793,067 | \$ -0- | \$ -0- | \$ (37,677,119) | \$ -0- | \$ (253,371,647) |

SIGNIFICANT ACCOUNTING POLICIES

The following general notes apply to all financial statements presented herein for the twelve funds under management of the State Board. Specific notes can be found immediately after the financial statements.

The Minnesota Post Retirement Fund, Minnesota Variable Annuity Fund, Minnesota Supplemental Retirement Fund, Minnesota Active Equity Pooled Fund, Minnesota Passive Equity Pooled Fund, Minnesota Real Estate Pooled Fund, Minnesota Resource Pooled Fund, Minnesota Venture Capital Pooled Fund and the Minnesota Bond Pooled Fund are managed by the State Board of Investment under authority of Minnesota Statutes 11A. The Supplemental Fund prepares separate financial statements for four investment accounts which it is comprised of: Income Share, Growth Share, Fixed Return and Bond Accounts.

The assets of the six pooled funds are held by our new master custodian State Street Bank of Boston. The six Basic Retirement Funds are the sole participants of these pooled funds. State Street Bank also invests cash equivalents for the six basic retirement funds and the value of these cash equivalents are included in the combining statement. The master custodial relationship with State Street Bank started on November 1, 1983. The Minnesota Active Equity Pooled Fund was created on March 1, 1983 and the remaining five pooled funds on November 1, 1984.

The financial statements presented for these funds are based on the preferred accounting practices described in the American Institute of Certified Public Accountants audit guide, "Audits of Investment Companies". These practices and the significant accounting policies which follow are in conformity with generally accepted accounting principles.

The format of the financial statements presented herein is unchanged from that used in the prior years report, but the number of funds included has increased from seven to twelve. In the prior years annual report only one of the six pooled funds existed. For this reason comparative statements were not presented. The four investment accounts that make up the Supplemental Fund are combined to show the total for that fund. The six pooled funds are combined to show the total investments for the six basic retirement funds that are held at State Street Bank. The totals for the Supplemental Fund and the Pooled Funds are then combined with the Post Retirement and Variable Annuity Funds to present the entire group of funds administered by the State Board on a combined basis.

SECURITY VALUATION: All securities are valued at market except for U.S. Government short-term securities and commercial paper, which are valued at market less accrued interest. Accrued short-term interest is recognized as income as part of "Short-Term Gain". For long-term fixed income securities the State Board uses the Merrill Lynch valuation system. This pricing service is capable of providing prices for both actively traded and privately placed bonds. For equity securities the State Board uses a valuation service provided by Compensation & Capital.

RECOGNITION OF SECURITY TRANSACTIONS: Security transactions are accounted for on the date the securities are purchased or sold.

INCOME RECOGNITION: Dividend income is recorded on the ex-dividend date. Interest and dividend income are accrued monthly. Short term interest is accrued monthly and is presented as "Accrued Short-Term Gain".

LOANING SECURITIES: Certain U.S. Government and Government Agency securities are loaned out by the State Board to banks and brokers for additional income. Collateral in the amount of 105% of the market value of the security loaned is required. The Pooled Funds under the custody of State Street Bank participate in a loan program in which equity and corporate bonds are loaned out to banks and brokers for additional income. This program is run entirely by the Bank with the income generated being split evenly by the State Board and the Bank.

PORTFOLIO LISTING: A listing of all securities held by these funds can be found starting on page 104 of this report. Bonds are shown at face value and stocks at market value. Securities held as cash equivalents are not listed.

GENERAL FOOTNOTES:

3) Options premiums received are shown as a liability until such time as the option contract is terminated. Upon termination any gain or loss applicable to the option transaction is recognized. For reporting purposes the market value of the option is shown on the Statement of Assets and Liabilities, while the difference between the premium received and the market value of the option is reported on the Statement of Operations as part of the "Increase (Decrease) in Unrealized Appreciation". At June 30, 1984 the option account in the Post Retirement Fund was:

| | |
|-------------------------|-------------------|
| Option Premium Received | \$436,268.47 |
| Market Value of Options | <u>121,550.00</u> |
| Unrealized Appreciation | \$314,718.47 |

4) STATUTORY VALUATIONS REQUIRED IN MINNESOTA VARIABLE ANNUITY FUND: The Admitted Value Increment at June 30, 1983 and 1984 was \$2,015,181 and \$4,298,664 respectively. This valuation is required by Minnesota Statutes 11A.19 Subdivision 5 and is the amount by which the recognized value of investments is above of below the book value of investments. The admitted value is based on an average ratio of book value to market value of the securities calculated over a two year period. This calculation is used to determine the rate of return and the increase or decrease which shall be credited to the individual member's account balances at the end of the fiscal year.

Laws of Minnesota 1978, Chapter 781, stated in part "Effective July 1, 1978 no future employee and employer contribution shall be credited to any account in the variable annuity division unless the member elects continued participation...". Very few members of the Teachers' Retirement Fund elected to continue in the variable annuity division. There have been no contributions in the last five years. Previous contributions for all former and current participants in the variable annuity fund will remain in that fund until the participant retires or withdraws in accordance with the Teachers' Retirement Act [M.S.354]

VARIABLE ANNUITY FUND
PARTICIPATION AT JUNE 30, 1984

| | |
|--|--------------------|
| Net Assets | \$ 94,806,106 |
| Admitted Value Increment | <u>4,298,664</u> |
| | \$ 99,104,770 |
| Less: Unrealized Market Appreciation (Depreciation) | <u>(6,902,576)</u> |
| Total Participation | \$ 106,002,348 |

5) Withdrawals from the fixed return account are paid out pursuant to Minnesota Statutes 11A.17 Subdivision 9, which states in part that: "The value of investment shares in the fixed-return account shall be \$5 per share; provided, however, if the fixed-return investment account shares are redeemed by a public retirement fund where the shares are not attributable to the individual account of any person prior to the expiration of the multi-year period set by the board for the payment of the applicable assumed rate, the value of the investment shares shall be at market value. Terms as to withdrawal schedules will be agreed upon by the public retirement fund and the state board."

6) The Minnesota Supplemental Investment Fund Bond Account was created pursuant to Laws of Minnesota 1981, Chapter 208 with activity commencing on July 1, 1981. It is designed for public retirement funds who wish to lock in a guaranteed rate over a multi-year period. These retirement funds have been participating in a similar multi-year guaranteed rate plan in the Fixed Return Account. The guaranteed rate plan is being phased out of the Fixed Return Account. Income earned from prior year pools in the Fixed Return Account is being transferred to the Bond Account on a monthly basis. This income, new contributions and principal from the guaranteed rate pools as it matures will all be invested in the Bond Account. The first investment pool which commenced July 1, 1981 will pay 14.4% over a seven year period.

7) Total participation for the Post Retirement Fund is equal to the actuarially determined required reserves at June 30, 1984. It includes the 5% actuarially assumed income distribution made pursuant to Minnesota Statutes 11A.18 and the mortality gains and losses as determined by the actuaries for the applicable retirement funds.

8) The annuity stabilization reserve is the difference between the actuarially determined reserves required to support benefits in force and the book value of the assets of the fund. Pursuant to Minnesota Statutes 11A.18 Subdivision 9 Claus 2C, "The book value of assets on any given date shall be the net assets at cost less the excess investment income determined pursuant to Clause (1) (C)." "If the state board determines that the book value of the assets of the fund is less than an amount equal to 100 percent of the current June 30 required reserves, with the book value and required reserves to be determined after the adjustments provided for in Subdivision 11, then the board shall allocate five percent of the excess investment income as an asset of the fund. The remaining 95 percent will be termed available for distribution."

The Deferrred Yield Adjustment account at June 30, 1984 was \$21,895,896.15. This account is required by Minnesota Statutes 11A.18 Subdivision 5 and is the unamortized loss on the sale or disposition of debt securities. The account is increased by the loss on the sale of debt securities and decreased by the gain on the sale of such securities. At the end of each year a portion of the balance is offset against investment income for the year.

FISCAL YEAR 1984

| | |
|---------------------------|-----------------------|
| Deferred Yield Adjustment | |
| Beginning Balance | \$23,580,322.81 |
| Net Realized (Gain) Loss | 560,585.49 |
| Amortization | <u>(2,245,012.15)</u> |
| Balance at June 30 | \$21,895,896.15 |

9) The unrealized market appreciation or (depreciation) is the difference between the cost and market value of investments.

10) Pursuant to Minnesota Statutes 11A.18 Subdivision 9 this is the portion of fiscal year 1984 income which is available for distribution as a benefit increase in January of 1985. This amount shall be increased by 2.5% from fiscal year 1985 income and shall be stated as a percentage of total required reserves. The amount available shall be certified to each participating pension fund for distribution to eligible individuals. Individuals receiving benefits at June 30, 1983 are eligible to receive the January 1, 1985 increase. Past increases paid to retirees on January 1st have been:

| | |
|------|--------|
| 1981 | 3.209% |
| 1982 | 7.436% |
| 1983 | 6.853% |
| 1984 | 7.449% |

The benefit increase for January 1, 1985 will be 6.905%.

STATE BOARD OF INVESTMENT
MINNESOTA INVESTMENT TRUST FUNDS
SCHEDULE OF PARTICIPATION
JUNE 30, 1984

| | SUPPLEMENTAL RETIREMENT FUND TOTAL | POST RETIREMENT FUND | VARIABLE ANNUITY FUND | BASIC RETIREMENT POOLED FUND TOTAL | TOTAL |
|-----------------------------------|--|-----------------------------|-----------------------------|--|-------------------------|
| Albert Lea Firemen's Relief | \$ 1,885,322 | \$ -0- | \$ -0- | \$ -0- | \$ 1,885,322 |
| Apple Valley Firemen's-Special | 138,392 | -0- | -0- | -0- | 138,392 |
| Apple Valley Firemen's-General | 8,670 | -0- | -0- | -0- | 8,670 |
| Bloomington Fire Dept. Relief | 4,828,218 | -0- | -0- | -0- | 4,828,218 |
| Bloomington Police Relief | 598,617 | -0- | -0- | -0- | 598,617 |
| Chanhassen Fire Dept. | 17,483 | -0- | -0- | -0- | 17,483 |
| Hennepin County Supplemental Ret. | 13,687,308 | -0- | -0- | -0- | 13,687,308 |
| Inver Grove Heights Fire-Special | 114,636 | -0- | -0- | -0- | 114,636 |
| St. Louis Park Police Relief | 47,381 | -0- | -0- | -0- | 47,381 |
| St. Paul Fire -General | 283,656 | -0- | -0- | -0- | 283,656 |
| St. Paul Fire-Special | 29,201,139 | -0- | -0- | -0- | 29,201,139 |
| St. Paul Police Relief | 29,448,877 | -0- | -0- | -0- | 29,448,877 |
| MSRS Deferred Compensation | 71,221,353 | -0- | -0- | -0- | 71,221,353 |
| MSRS Unclassified Empl. Escrow | 21,584,539 | -0- | -0- | -0- | 21,584,539 |
| South St. Paul Policemen's Relief | 159,074 | -0- | -0- | -0- | 159,074 |
| Teacher's Supplemental Retirement | 53,380,279 | -0- | -0- | -0- | 53,380,279 |
| Winona Fire Dept. Relief | 199,301 | -0- | -0- | -0- | 199,301 |
| Teacher's Retirement Fund | -0- | 819,209,787 | 106,008,080 | 1,213,765,945 | 2,138,983,792 |
| Public Employees Retirement Fund | -0- | 634,793,435 | -0- | 840,394,665 | 1,575,188,100 |
| State Employees Retirement Fund | -0- | 358,378,679 | -0- | 603,952,486 | 960,331,145 |
| Public Employees Police & Fire | -0- | 59,663,039 | -0- | 207,609,909 | 267,272,948 |
| Highway Patrolmen's Retirement | -0- | 40,454,843 | -0- | 42,466,780 | 82,921,703 |
| Legislators & Survivors Retire. | -0- | 5,501,426 | -0- | -0- | 5,501,426 |
| Judges Retirement Fund | -0- | 6,838,301 | -0- | 2,978,389 | 9,814,690 |
| TOTAL PARTICIPATION | \$ 226,914,225 | \$ 1,822,838,580 (7) | \$ 106,008,080 | \$ 3,011,166,134 | \$ 5,266,928,029 |
| Less: | | | | | |
| Annuity Stabilization(8) | -0- | [26,447,644] | -0- | -0- | [26,447,644] |
| Admitted Value Increment | -0- | -0- | [4,298,664] | -0- | [4,298,664] |
| Unrealized Appreciation(9) | [6,972,087] | [142,027,757] | [6,902,578] | -0- | [155,902,420] |
| (Depreciation) of Investments | 2,682 | 111,514,807 (10) | -0- | -0- | 111,517,470 |
| Undistributed Earnings | -0- | -0- | -0- | -0- | -0- |
| NET ASSETS | \$ 219,944,801 | \$ 1,865,878,986 | \$ 94,806,840 | \$ 3,011,166,134 | \$ 5,191,796,771 |

MINNESOTA SUPPLEMENTAL RETIREMENT FUND

| | INCOME SHARE ACCOUNT | GROWTH SHARE ACCOUNT | FIXED RETURN ACCOUNT | BOND ACCOUNT | SUPPLEMENTAL RETIREMENT FUND TOTAL |
|-----------------------------------|----------------------------|----------------------------|----------------------------|---------------------|--|
| Albert Lea Firemen's Relief | \$ 1,886,406 | \$ -0- | \$ 68,729 | \$ 22,187 | \$ 1,985,322 |
| Apple Valley Firemen's-Special | 32,130 | 13,885 | 21,135 | 71,242 | 138,392 |
| Apple Valley Firemen's-General | 3,893 | -0- | -0- | 4,777 | 8,670 |
| Bloomington Fire Dept. Relief | 4,445,881 | 382,337 | -0- | -0- | 4,828,218 |
| Bloomington Police Relief | 598,617 | -0- | -0- | -0- | 598,617 |
| Chanhassen Fire Dept. | -0- | -0- | 13,077 | 4,386 | 17,463 |
| Hennepin County Supplemental Ret. | 6,100,081 | 5,892,618 | 1,694,631 | -0- | 13,687,308 |
| Inver Grove Heights Fire-Special | 114,636 | -0- | -0- | -0- | 114,636 |
| St. Louis Park Police Relief | 47,381 | -0- | -0- | -0- | 47,381 |
| St. Paul Fire -General | 163,491 | 30,545 | -0- | 88,620 | 283,656 |
| St. Paul Fire-Special | 15,113,241 | 3,706,139 | 7,423,689 | 2,958,090 | 29,201,139 |
| St. Paul Police Relief | 24,326,528 | 5,122,349 | -0- | -0- | 29,448,877 |
| MSRS Deferred Compensation | 13,554,218 | 11,872,731 | 45,794,404 | -0- | 71,221,353 |
| MSRS Unclassified Empl. Escrow | 12,463,850 | 4,835,577 | 4,185,112 | -0- | 21,584,539 |
| South St. Paul Policemen's Relief | 75,755 | -0- | 61,773 | 21,546 | 159,074 |
| Teacher's Supplemental Retirement | 31,194,843 | 22,195,636 | -0- | -0- | 53,380,279 |
| Winona Fire Dept. Relief | 199,301 | -0- | -0- | -0- | 199,301 |
| TOTAL PARTICIPATION | \$ 110,330,032 | \$ 54,151,815 | \$ 59,260,530 | \$ 3,171,848 | \$ 226,914,225 |
| Less: | | | | | |
| Unrealized Appreciation | -0- | -0- | [6,821,678] | [150,409] | [6,972,087] |
| (Depreciation) of Investments(9) | -0- | -0- | [8,270] | 8,933 | 2,663 |
| Undistributed Earnings | -0- | -0- | -0- | -0- | -0- |
| NET ASSETS | \$ 110,330,032 | \$ 54,151,815 | \$ 52,432,582 | \$ 3,030,372 | \$ 219,944,801 |

MINNESOTA BASIC RETIREMENT POOLED FUNDS

| | ACTIVE EQUITY FUND | PASSIVE EQUITY FUND | REAL ESTATE FUND | RESOURCE FUND | VENTURE CAPITAL FUND | BOND FUND | CASH EQUIVALENTS | BASIC RETIREMENT POOLED FUND TOTAL |
|----------------------------------|--------------------------|---------------------------|------------------------|----------------------|----------------------------|-----------------------|----------------------|--|
| Teachers Retirement Fund | \$ 214,705,987 | \$ 510,732,838 | \$ 67,086,868 | \$ 9,356,497 | \$ 11,960,374 | \$ 344,486,975 | \$ 55,416,431 | \$ 1,213,765,945 |
| Public Employees Retirement Fund | 172,187,531 | 404,062,209 | 52,329,735 | 7,984,025 | 9,316,008 | 268,022,542 | 26,462,615 | 940,394,665 |
| State Employees Retirement Fund | 103,235,812 | 245,168,300 | 33,053,771 | 4,826,384 | 5,897,649 | 171,171,442 | 40,601,008 | 603,952,486 |
| Public Employees Police & Fire | 34,886,228 | 82,633,573 | 11,332,554 | 1,630,983 | 2,023,399 | 58,628,880 | 16,474,292 | 207,609,909 |
| Highway Patrolmen's Retirement | 7,868,490 | 17,582,423 | 2,351,495 | 386,862 | 420,859 | 11,475,258 | 2,450,373 | 42,466,760 |
| Judges Retirement Fund | 533,428 | 1,244,908 | 184,412 | 37,080 | 29,648 | 735,426 | 231,487 | 2,978,389 |
| TOTAL PARTICIPATION | \$ 533,428,556 | \$1,261,402,246 | \$ 168,328,835 | \$ 24,171,831 | \$ 29,647,837 | \$ 854,530,523 | \$141,656,206 | \$ 3,011,166,134 |

MINNESOTA STATE BOARD OF INVESTMENT
 POST RETIREMENT FUND
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|------------------------|-----------------|
| 193,675 | ALLIED BANCSHARES INC | \$ 4,623,991 |
| 146,775 | ALLIED CORP | 4,641,759 |
| 220,700 | AMER. GENERAL CORP | 4,579,525 |
| 72,500 | AMER. INT'L. GROUP | 4,241,250 |
| 314,150 | AMERICAN EXPRESS CO | 9,031,813 |
| 172,257 | AMERICAN TEL & TEL NEW | 2,971,433 |
| 408,100 | ARCHER DANIELS MIDLAND | 7,192,763 |
| 148,200 | ATLANTIC RICHFIELD | 6,743,100 |
| 304,900 | AVON PRODS INC | 6,707,800 |
| 223,050 | BANKERS TRUST NY CORP | 8,587,425 |
| 245,800 | BAXTER TRAVENOL LABS | 3,779,175 |
| 271,500 | BOEING CO | 11,878,125 |
| 241,728 | BORG-WARNER | 4,532,400 |
| 157,400 | BROWN GROUP | 4,171,100 |
| 170,700 | BRUNSWICK CORP | 4,992,975 |
| 109,050 | BURLINGTON NORTHERN | 4,389,263 |
| 134,300 | CANADIAN PACIFIC LTD | 4,112,938 |
| 154,300 | CAPITAL HOLDING CORP | 5,091,900 |
| 157,200 | CARLISLE CORP | 4,480,200 |
| 69,100 | CELANESE CORP | 4,474,225 |
| 119,100 | CHASE MANHATTAN CORP | 4,689,563 |
| 331,300 | CHEMICAL NEW YORK CO | 7,951,200 |
| 87,950 | CITY INVESTING | 3,748,869 |
| 130,550 | COLUMBIA GAS SYSTEM | 4,340,788 |
| 142,900 | COMBUSTION ENGINEERING | 4,447,763 |
| 607,145 | COMMONWEALTH EDISON | 13,812,539 |
| 223,800 | CONTINENTAL TELECOM | 4,280,175 |
| 134,300 | CONTROL DATA CORP | 4,146,513 |
| 316,450 | COOPER TIRE & RUBBER | 4,430,300 |
| 125,050 | CROWN CORK & SEAL | 4,955,106 |
| 218,600 | DOMINION RESOURCES | 5,082,450 |
| 99,800 | DU PONT EI DENEMOURS | 4,553,375 |
| 366,400 | DUKE POWER CO. NC | 8,976,800 |
| 85,100 | DUN & BRADSTREET CO | 5,042,175 |
| 88,600 | E-SYSTEMS | 2,458,650 |
| 175,000 | ENSERCH CORP | 3,368,750 |
| 247,400 | EXXON CORP | 10,081,550 |
| 974,650 | FEDERAL NATL. MTG | 12,304,956 |
| 274,850 | FIRST CITY BANCORP | 4,397,600 |
| 125,900 | FIRST INTERSTATE BANK | 3,950,113 |
| 234,200 | FLEETWOOD ENTER. INC | 4,010,675 |
| 120,300 | FORD MOTOR CO | 4,345,838 |
| 271,800 | GELCO CORP | 4,110,975 |
| 290,800 | GENERAL ELECTRIC CO | 15,267,000 |
| 175,300 | GENERAL MOTORS CORP | 11,460,238 |

MINNESOTA STATE BOARD OF INVESTMENT
 POST RETIREMENT FUND
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 74,250 | GENERAL RE CORP | \$ 4,260,094 |
| 133,900 | GOODYEAR TIRE & RUBBER | 3,447,925 |
| 336,300 | GREYHOUND CORP | 7,524,713 |
| 122,200 | GTE CORP | 4,567,225 |
| 91,950 | HALLIBURTON INC | 3,091,819 |
| 261,100 | HOUSTON INDUSTRIES INC | 4,830,350 |
| 178,100 | HOUSTON NAT. GAS CORP | 8,571,063 |
| 123,700 | INTERNORTH INC | 4,499,588 |
| 261,684 | INTL. BUSINESS MACHINES | 27,673,083 |
| 194,655 | ITT CORP | 6,107,301 |
| 79,800 | KIDDE INC | 2,284,275 |
| 141,900 | KROGER CO | 4,700,438 |
| 75,500 | LEAR SIEGLER INC | 3,265,375 |
| 178,650 | LEVI STRAUSS & CO | 5,113,856 |
| 750 | LITTON INDS INC | 55,125 |
| 196,030 | LOCKHEED AIRCRAFT CO | 7,694,178 |
| 284,850 | LUCKY STORES | 4,593,206 |
| 180,775 | MARY KAY COSMETICS | 1,852,944 |
| 81,700 | MCA INC | 3,553,950 |
| 88,450 | MCDONNELL DOUGLAS CO | 4,953,200 |
| 385,200 | MCI COMMUNICATION | 2,889,000 |
| 113,500 | MELLON NATIONAL CORP | 4,256,250 |
| 119,700 | MELVILLE CORP | 4,294,238 |
| 157,050 | MITCHELL ENERGY | 3,023,213 |
| 280,650 | MOBIL CORP | 7,437,225 |
| 58,000 | NATL. MED. ENTER. INC | 1,210,750 |
| 408,700 | NORTHEAST UTILITIES | 4,648,963 |
| 326,500 | OWENS CORNING FIBERGLASS | 8,570,625 |
| 123,900 | OWENS ILLINOIS INC | 4,584,300 |
| 189,600 | PARSONS CORP | 4,597,800 |
| 130,150 | PENNZOIL CO | 4,213,606 |
| 160,000 | PFIZER INC | 5,240,000 |
| 324,100 | PHILADELPHIA ELEC. CO | 4,051,250 |
| 61,200 | PHILLIPS PETROLEUM CO | 2,172,600 |
| 8,300 | RAYTHEON CO | 315,400 |
| 314,900 | REPUBLIC BANK CORP | 8,344,850 |
| 372,000 | ROYAL DUTCH PET. GLD | 17,809,500 |
| 178,450 | SCHLUMBERGER LTD | 8,074,863 |
| 79,550 | SECURITY PACIFIC CORP | 3,360,988 |
| 227,750 | SMITHKLINE-BECKMAN CORP | 12,896,344 |
| 268,000 | SONAT INC | 8,676,500 |
| 149,900 | SOUTHLAND CORP | 4,047,300 |
| 85,800 | ST. PAUL COS. INC | 4,483,050 |
| 100,850 | STANDARD OIL CO. OHIO | 4,399,581 |
| 301,000 | STERLING DRUG INC | 8,051,750 |

MINNESOTA STATE BOARD OF INVESTMENT
 POST RETIREMENT FUND
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------------|------------------------|-----------------|
| 57,900 | SUBARU OF AMERICA INC | \$ 5,326,800 |
| 116,600 | SYNTEX CORP | 5,013,800 |
| 320,000 | TANDY CORP | 8,320,000 |
| 116,950 | TENNECO INC | 4,371,006 |
| 221,000 | TEXAS COMMERCE BANKS | 9,033,375 |
| 149,200 | TEXAS EASTERN CORP | 4,196,250 |
| 600,800 | TEXAS OIL & GAS CORP | 13,367,800 |
| 194,250 | TEXAS UTILITIES CO | 4,152,094 |
| 102,800 | TRANSCO ENERGY CO | 4,446,100 |
| 515,600 | TRAVELERS CORP | 14,694,600 |
| 164,200 | US AIR GROUP | 4,474,450 |
| 356,800 | US FIDELITY & GUARANTY | 7,091,400 |
| 361,600 | VALERO ENERGY CORP | 3,480,400 |
| 194,200 | WARNACO INC | 4,709,350 |
| 194,400 | WASTE MANAGEMENT | 6,342,300 |
| 184,300 | WESTERN UNION CORP | 4,238,900 |
| 938,100 | WESTINGHOUSE ELEC. CO | 20,638,200 |
| 114,950 | XEROX CORP | 4,411,206 |
| TOTAL EQUITY PORTFOLIO | | \$ 650,034,806 |

MINNESOTA STATE BOARD OF INVESTMENT
 POST RETIREMENT FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|--------------------------|------------|---------|-----------------|
| 100,000 | ALBERTA GOVT TEL COMM | 06/15/1994 | 8.000% | \$ 70,560 |
| 100,000 | AMERICAN BRANDS INC | 03/01/1985 | 8.125% | 97,260 |
| 745,000 | AMERICAN PRES LINES | 11/01/1991 | 4.800% | 450,688 |
| 22,000,000 | AMERICAN TELEPHONE & TEL | 03/15/1991 | 13.250% | 21,168,840 |
| 1,105,000 | ARISTAR INC | 05/15/1990 | 8.500% | 951,681 |
| 5,000,000 | ASSOCIATES CORP NO. AMER | 11/15/1992 | 11.450% | 4,306,000 |
| 4,427,142 | ATLANTIC RICHFIELD CO | 07/15/1996 | 9.250% | 3,169,745 |
| 2,842,393 | ATLANTIC RICHFIELD CO | 12/01/2001 | 8.750% | 1,864,320 |
| 2,250,000 | BEATRICE FOODS CO | 08/15/2008 | 8.500% | 1,414,170 |
| 5,000,000 | BELL TEL CO OF PENN | 01/15/2019 | 9.250% | 3,237,800 |
| 1,175,000 | BROOKLYN UNION GAS | 04/01/1990 | 4.625% | 772,069 |
| 4,200,000 | BURLINGTON INDUSTRIES | 08/01/1990 | 11.250% | 3,690,540 |
| 2,143,907 | BURLINGTON NORTHERN | 09/01/1993 | 8.750% | 1,559,199 |
| 179,931 | BURLINGTON NORTHERN | 07/03/1993 | 8.500% | 129,045 |
| 4,000,000 | CANADIAN PACIFIC LTD | 01/15/1992 | 8.625% | 3,336,600 |
| 5,000,000 | CENTRAL POWER & LIGHT | 06/01/2004 | 9.375% | 3,307,350 |
| 15,000,000 | CHESAPEAKE & POTOMAC TEL | 04/15/2019 | 9.500% | 9,936,300 |
| 1,000,000 | CITIZENS UTILITIES | 12/31/1991 | 4.800% | 628,370 |
| 3,000,000 | CONSOLIATED NATURAL GAS | 10/01/2000 | 12.875% | 2,706,870 |
| 1,650,000 | DEERE (JOHN) CREDIT | 10/31/1990 | 5.000% | 1,075,536 |
| 6,000,000 | DOW CHEMICAL CO | 07/15/2007 | 7.875% | 3,465,720 |
| 150,000 | DRESSER INDUSTRIES | 05/15/1985 | 8.650% | 145,218 |
| 50,000 | DUKE POWER CO | 05/01/1986 | 3.625% | 43,218 |
| 250,000 | FARRELL LINES INC | 06/29/1997 | 8.350% | 165,935 |
| 3,000,000 | FEDERAL FARM CREDIT BANK | 10/20/1997 | 11.900% | 2,634,360 |
| 6,000,000 | FEDERAL FARM CREDIT BANK | 10/22/1990 | 10.600% | 5,156,220 |
| 10,000,000 | FEDERAL FARM CREDIT BANK | 10/21/1991 | 10.600% | 8,453,100 |
| 20,000,000 | FEDERAL FARM CREDIT BANK | 10/20/1993 | 11.800% | 17,625,000 |
| 5,000,000 | FEDERAL FARM CREDIT BANK | 03/01/1994 | 12.350% | 4,540,600 |
| 5,000,000 | FEDERAL FARM CREDIT BANK | 10/20/1986 | 10.750% | 4,745,300 |
| 6,500,000 | FEDERAL FARM CREDIT BANK | 04/22/1985 | 13.250% | 6,550,765 |
| 1,300,000 | FEDERAL FARM CREDIT BANK | 12/01/1986 | 10.000% | 1,211,847 |
| 28,000,000 | FEDERAL FARM CREDIT BANK | 07/22/1991 | 14.700% | 28,805,000 |
| 10,000,000 | FEDERAL HOME LOAN BANK | 09/25/1990 | 12.500% | 9,400,000 |
| 10,000,000 | FEDERAL HOME LOAN BANK | 09/25/1991 | 11.750% | 8,968,700 |
| 5,000,000 | FEDERAL HOME LOAN BANK | 04/27/1992 | 11.700% | 4,446,850 |
| 7,000,000 | FEDERAL HOME LOAN BANK | 07/26/1993 | 11.700% | 6,138,090 |
| 5,000,000 | FEDERAL HOME LOAN BANK | 11/25/1992 | 11.100% | 4,271,850 |
| 10,000,000 | FEDERAL HOME LOAN BANK | 12/27/1993 | 12.150% | 9,000,000 |
| 1,698,397 | FEDERAL HOME LOAN MTG | 01/01/2010 | 12.500% | 1,515,820 |
| 8,579,558 | FEDERAL HOME LOAN MTG | 03/01/2010 | 14.750% | 8,569,348 |
| 2,555,904 | FEDERAL HOME LOAN MTG | 07/01/2010 | 10.750% | 2,054,308 |
| 20,000,000 | FEDERAL HOME LOAN MTG | 08/30/1991 | 11.850% | 17,987,400 |
| 3,000,000 | FEDERAL NATIONAL MTG | 11/12/1990 | 10.900% | 2,610,000 |
| 14,000,000 | FEDERAL NATIONAL MTG | 05/10/1990 | 10.300% | 11,943,680 |

MINNESOTA STATE BOARD OF INVESTMENT
 POST RETIREMENT FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|----------------------------|------------|---------|-----------------|
| 250,000 | FEDERAL NATIONAL MTG | 03/10/1987 | 7.750% | \$ 218,828 |
| 4,000,000 | FEDERAL NATIONAL MTG | 06/10/1988 | 10.500% | 3,597,480 |
| 5,000,000 | FIRESTONE TIRE & RUBBER | 12/01/2004 | 9.250% | 3,194,000 |
| 5,000,000 | FIRST INTERSTATE BANCORP | 04/15/1988 | 10.500% | 4,498,050 |
| 2,000,000 | FLORIDA POWER & LIGHT | 05/01/2010 | 11.300% | 1,544,040 |
| 3,000,000 | FLORIDA POWER & LIGHT | 11/01/2009 | 12.125% | 2,472,330 |
| 4,850,000 | FMC CORP | 01/15/2000 | 9.500% | 3,414,497 |
| 1,850,000 | FORD MOTOR CO | 07/15/1994 | 9.250% | 1,379,564 |
| 5,000,000 | FORD MOTOR CREDIT CO | 04/01/1999 | 8.700% | 3,221,400 |
| 14,000,000 | GENERAL ELECTRIC CR. CO | 09/15/1991 | 13.625% | 13,766,340 |
| 5,500,000 | GENERAL FOODS INC | 03/01/1989 | 14.375% | 5,554,230 |
| 13,000,000 | GENERAL MOTORS ACCEPT CORP | 04/01/2011 | 6.000% | 5,850,000 |
| 8,800,000 | GENERAL MOTORS ACCEPT CORP | 10/15/1989 | 11.750% | 8,061,416 |
| 1,000,000 | GENERAL TEL CO (FLA) | 05/01/1993 | 4.500% | 559,150 |
| 946,271 | GNMA POOL # 03818 | 04/15/2004 | 8.000% | 631,636 |
| 70,742 | GNMA POOL # 04054 | 10/15/2004 | 8.500% | 44,339 |
| 636,099 | GNMA POOL # 04086 | 05/15/2004 | 8.000% | 424,596 |
| 1,609,081 | GNMA POOL # 04137 | 10/15/2004 | 9.000% | 1,138,425 |
| 690,943 | GNMA POOL # 04149 | 09/15/2004 | 8.500% | 433,063 |
| 504,244 | GNMA POOL # 04168 | 09/15/2004 | 9.000% | 356,753 |
| 36,452 | GNMA POOL # 04225 | 09/15/2004 | 8.500% | 22,847 |
| 516,614 | GNMA POOL # 04471 | 11/15/2004 | 9.000% | 365,505 |
| 477,542 | GNMA POOL # 04507 | 10/15/2004 | 9.000% | 337,861 |
| 427,393 | GNMA POOL # 04714 | 10/15/2004 | 8.250% | 262,103 |
| 235,676 | GNMA POOL # 08073 | 01/15/2006 | 8.500% | 147,715 |
| 468,703 | GNMA POOL # 08296 | 02/15/2006 | 8.500% | 293,769 |
| 229,872 | GNMA POOL # 08437 | 02/15/2006 | 8.500% | 144,077 |
| 1,305,390 | GNMA POOL # 08803 | 04/15/2006 | 8.250% | 800,543 |
| 643,446 | GNMA POOL # 08961 | 05/15/2006 | 8.250% | 394,600 |
| 1,111,092 | GNMA POOL # 09105 | 03/15/2006 | 8.250% | 681,388 |
| 1,132,874 | GNMA POOL # 09204 | 02/15/2006 | 8.500% | 710,052 |
| 731,127 | GNMA POOL # 09678 | 08/15/2006 | 8.000% | 488,027 |
| 1,149,017 | GNMA POOL # 09760 | 05/15/2006 | 8.250% | 704,646 |
| 699,597 | GNMA POOL # 10182 | 05/15/2006 | 8.000% | 466,981 |
| 498,082 | GNMA POOL # 10278 | 06/15/2006 | 8.000% | 332,470 |
| 55,503 | GNMA POOL # 10697 | 07/15/2006 | 8.000% | 37,048 |
| 272,323 | GNMA POOL # 10805 | 10/15/2006 | 8.000% | 181,776 |
| 688,071 | GNMA POOL # 10810 | 07/15/2006 | 8.000% | 459,288 |
| 1,186,360 | GNMA POOL # 10904 | 08/15/2006 | 8.000% | 791,895 |
| 596,766 | GNMA POOL # 10910 | 09/15/2006 | 8.000% | 398,341 |
| 559,547 | GNMA POOL # 10960 | 07/15/2006 | 8.000% | 373,498 |
| 655,896 | GNMA POOL # 10961 | 08/15/2006 | 8.000% | 437,811 |
| 724,458 | GNMA POOL # 10975 | 08/15/2006 | 8.000% | 483,575 |
| 1,195,561 | GNMA POOL # 11057 | 09/15/2006 | 8.000% | 798,037 |
| 568,695 | GNMA POOL # 11304 | 07/15/2006 | 8.000% | 379,604 |

MINNESOTA STATE BOARD OF INVESTMENT
 POST RETIREMENT FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|-------------------|------------|---------|-----------------|
| 427,858 | GNMA POOL # 11312 | 09/15/2006 | 8.000% | \$ 285,595 |
| 716,062 | GNMA POOL # 11639 | 10/15/2006 | 8.000% | 477,972 |
| 548,806 | GNMA POOL # 11780 | 02/15/2007 | 8.000% | 366,328 |
| 1,160,179 | GNMA POOL # 12312 | 10/15/2006 | 8.000% | 774,419 |
| 335,550 | GNMA POOL # 12527 | 10/15/2006 | 8.000% | 223,980 |
| 305,809 | GNMA POOL # 13003 | 10/15/2006 | 8.000% | 204,128 |
| 621,846 | GNMA POOL # 13338 | 11/15/2006 | 8.000% | 415,082 |
| 595,264 | GNMA POOL # 13439 | 10/15/2006 | 8.000% | 397,339 |
| 718,511 | GNMA POOL # 13548 | 01/15/2007 | 8.000% | 479,606 |
| 800,189 | GNMA POOL # 13653 | 10/15/2006 | 8.000% | 534,126 |
| 505,794 | GNMA POOL # 13844 | 01/15/2007 | 8.000% | 337,617 |
| 744,692 | GNMA POOL # 14575 | 07/15/2007 | 8.000% | 497,082 |
| 753,535 | GNMA POOL # 16214 | 07/15/2007 | 8.000% | 502,984 |
| 693,960 | GNMA POOL # 16805 | 08/15/2007 | 8.000% | 463,218 |
| 761,690 | GNMA POOL # 17398 | 08/15/2007 | 8.000% | 508,428 |
| 836,075 | GNMA POOL # 17424 | 07/15/2007 | 8.000% | 558,080 |
| 733,223 | GNMA POOL # 17467 | 07/15/2007 | 8.000% | 489,427 |
| 633,230 | GNMA POOL # 17784 | 07/15/2007 | 8.000% | 422,681 |
| 632,188 | GNMA POOL # 17891 | 07/15/2007 | 8.000% | 421,985 |
| 663,696 | GNMA POOL # 18077 | 07/15/2007 | 8.000% | 443,017 |
| 215,441 | GNMA POOL # 18516 | 09/15/2007 | 8.000% | 143,807 |
| 1,684,825 | GNMA POOL # 19672 | 02/15/2008 | 8.000% | 1,124,621 |
| 793,646 | GNMA POOL # 20041 | 03/15/2008 | 8.000% | 529,759 |
| 787,773 | GNMA POOL # 20413 | 01/15/2008 | 8.000% | 525,839 |
| 805,440 | GNMA POOL # 20746 | 12/15/2007 | 8.000% | 537,631 |
| 764,868 | GNMA POOL # 20952 | 10/15/2007 | 8.000% | 510,549 |
| 772,288 | GNMA POOL # 21467 | 12/15/2007 | 8.000% | 515,502 |
| 746,663 | GNMA POOL # 21480 | 01/15/2008 | 8.000% | 498,398 |
| 817,366 | GNMA POOL # 21652 | 02/15/2008 | 8.000% | 545,592 |
| 1,800,767 | GNMA POOL # 21878 | 04/15/2008 | 8.000% | 1,202,012 |
| 821,673 | GNMA POOL # 21982 | 01/15/2008 | 8.000% | 548,466 |
| 803,244 | GNMA POOL # 22676 | 02/15/2008 | 8.000% | 536,165 |
| 871,087 | GNMA POOL # 23016 | 01/15/2008 | 8.000% | 581,450 |
| 701,608 | GNMA POOL # 23098 | 01/15/2008 | 8.000% | 468,323 |
| 4,342,053 | GNMA POOL # 23139 | 05/15/2008 | 8.000% | 2,898,320 |
| 820,276 | GNMA POOL # 24837 | 04/15/2008 | 8.000% | 547,534 |
| 819,310 | GNMA POOL # 24978 | 04/15/2008 | 8.000% | 546,890 |
| 4,448,479 | GNMA POOL # 26980 | 10/15/2008 | 9.000% | 3,147,299 |
| 4,696,093 | GNMA POOL # 33172 | 07/15/2009 | 9.500% | 3,445,758 |
| 3,808,113 | GNMA POOL # 34007 | 09/15/2009 | 9.500% | 2,794,203 |
| 2,865,725 | GNMA POOL # 34126 | 08/15/2009 | 9.500% | 2,102,726 |
| 2,879,100 | GNMA POOL # 36068 | 10/15/2009 | 9.500% | 2,112,540 |
| 709,315 | GNMA POOL # 38180 | 07/15/2010 | 13.500% | 673,849 |
| 4,574,567 | GNMA POOL # 42691 | 08/15/2010 | 11.000% | 3,716,836 |
| 6,231,110 | GNMA POOL # 43600 | 11/15/2010 | 12.500% | 5,584,633 |

MINNESOTA STATE BOARD OF INVESTMENT
 POST RETIREMENT FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|---------------------------|------------|---------|-----------------|
| 3,665,163 | GNMA POOL # 44539 | 10/15/2010 | 11.500% | \$3,087,900 |
| 799,125 | GNMA POOL # 45933 | 04/15/2011 | 13.500% | 759,169 |
| 845,790 | GNMA POOL # 46868 | 05/15/2011 | 13.500% | 803,500 |
| 790,574 | GNMA POOL # 47924 | 05/15/2011 | 13.500% | 751,045 |
| 443,295 | GNMA POOL # 49656 | 10/15/2011 | 16.000% | 471,001 |
| 433,394 | GNMA POOL # 49993 | 10/15/2011 | 16.000% | 460,481 |
| 963,235 | GNMA POOL # 50250 | 10/15/2011 | 13.500% | 915,073 |
| 260,511 | GNMA POOL # 50733 | 10/15/2011 | 16.000% | 276,793 |
| 178,278 | GNMA POOL # 51252 | 11/15/2011 | 16.000% | 189,420 |
| 169,003 | GNMA POOL # 51524 | 10/15/2011 | 16.000% | 179,566 |
| 77,961 | GNMA POOL # 51624 | 10/15/2011 | 16.000% | 82,833 |
| 380,955 | GNMA POOL # 52431 | 10/15/2011 | 16.000% | 404,765 |
| 258,629 | GNMA POOL # 52437 | 10/15/2011 | 16.000% | 274,793 |
| 200,000 | HARBOR TUG & BARGE | 03/15/2001 | 8.150% | 124,436 |
| 3,000,000 | HERTZ CORP | 02/15/1999 | 9.500% | 2,099,010 |
| 5,000,000 | HONEYWELL INC | 11/01/1992 | 11.125% | 4,316,350 |
| 5,000,000 | HOUSTON NATURAL GAS CO | 11/15/1992 | 11.000% | 4,230,250 |
| 150,000 | INGERSOLL RAND CO | 05/01/1985 | 8.750% | 145,535 |
| 4,950,000 | JEWEL COS INC | 12/01/1992 | 11.500% | 4,294,373 |
| 10,000,000 | KIMBERLY CLARK | 10/15/1990 | 11.125% | 8,841,500 |
| 1,895,000 | LACHMAR HULL 54 US | 09/25/1988 | 14.000% | 1,917,020 |
| 6,124,613 | LNM ACCEPTANCE CORP | 12/01/1986 | 9.100% | 5,594,773 |
| 1,000,000 | LONG ISLAND LIGHTING | 04/01/1993 | 4.400% | 530,590 |
| 3,518,861 | LOUISVILLE & NASHVILLE | 10/20/1991 | 9.000% | 2,663,954 |
| 122,042 | LOUISVILLE & NASHVILLE | 04/20/1988 | 8.125% | 100,796 |
| 50,000 | MACMILLAN BLOEDEL LTD | 07/15/1992 | 6.500% | 29,865 |
| 4,940,000 | MANITOBA HYDRO ELECTRIC | 10/15/1997 | 7.650% | 3,008,954 |
| 1,020,000 | MANITOBA, PROVINCE OF | 04/01/1994 | 7.875% | 680,830 |
| 9,000,000 | MARTIN-MARIETTA CORP | 03/15/2011 | 7.000% | 4,373,730 |
| 5,000,000 | MINNESOTA POWER & LIGHT | 08/01/2005 | 10.500% | 3,643,150 |
| 5,000,000 | MINNESOTA POWER & LIGHT | 09/01/2006 | 8.700% | 3,068,300 |
| 3,000,000 | MISSISSIPPI POWER & LIGHT | 06/01/1988 | 11.250% | 2,675,280 |
| 1,463,662 | MISSOURI PACIFIC RR | 06/01/1995 | 12.750% | 1,343,847 |
| 2,313,654 | MISSOURI PACIFIC RR | 06/01/1994 | 9.750% | 1,774,480 |
| 250,000 | MONTGOMERY WARD CREDIT | 09/15/1986 | 8.625% | 224,375 |
| 1,228,000 | MOUNTAIN FUEL SUPPLY | 09/01/1986 | 4.875% | 1,055,589 |
| 7,000,000 | MOUNTAIN STATES TEL & TEL | 06/01/2013 | 7.750% | 3,784,830 |
| 8,825,000 | MOUNTAIN STATES TEL & TEL | 04/01/2018 | 8.625% | 5,299,589 |
| 150,000 | NATIONAL RURAL UTILITIES | 02/01/1985 | 8.950% | 147,267 |
| 4,000,000 | NATL MED ENTERPRISE CV. | 05/15/2008 | 8.000% | 3,320,000 |
| 2,000,000 | NEW YORK STATE ELEC & GAS | 04/01/1993 | 11.750% | 1,667,740 |
| 6,500,000 | NEW YORK STATE ELEC & GAS | 01/01/1994 | 12.375% | 5,592,080 |
| 2,500,000 | NORTHERN STATES POWER CO | 01/01/2004 | 8.375% | 1,539,625 |
| 8,500,000 | NORTHWESTERN BELL TEL | 08/15/2016 | 9.500% | 5,660,660 |
| 4,000,000 | NORWEST CORP | 03/15/2003 | 7.750% | 2,276,800 |

MINNESOTA STATE BOARD OF INVESTMENT
 POST RETIREMENT FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|---------------------------|------------|---------|-----------------|
| 2,000,000 | NORWEST FINANCIAL | 07/01/1990 | 12.750% | \$1,885,380 |
| 2,570,000 | NORWEST FINANCIAL | 07/01/1993 | 11.250% | 2,191,311 |
| 7,000,000 | NORWEST FINANCIAL | 01/01/1994 | 12.125% | 6,221,740 |
| 3,500,000 | NOVA SCOTIA POWER COMM | 03/15/1997 | 7.750% | 2,111,095 |
| 6,400,000 | NOVA SCOTIA POWER CORP | 06/01/2008 | 9.625% | 4,279,360 |
| 4,680,000 | ONTARIO HYDRO | 03/15/1996 | 9.500% | 3,492,450 |
| 7,000,000 | ONTARIO, PROVINCE OF | 06/01/2008 | 9.375% | 4,661,300 |
| 6,920,000 | ONTARIO, PROVINCE OF | 11/30/2008 | 9.375% | 4,602,215 |
| 5,300,000 | OWENS ILLINOIS INC | 06/01/1990 | 10.375% | 4,515,229 |
| 3,000,000 | PACIFIC TEL & TEL CO | 11/01/2020 | 15.000% | 2,990,070 |
| 30,000 | PACIFIC TELE & TELE | 11/01/1990 | 4.625% | 19,566 |
| 12,660,000 | PENNEY (J.C.) CO | 06/15/1990 | 10.750% | 11,010,022 |
| 100,000 | PENNWALT CORP | 04/15/1985 | 9.000% | 97,285 |
| 15,000,000 | PHILLIPS PETROLEUM | 09/01/1992 | 12.875% | 14,193,600 |
| 2,415,000 | PUBLIC SERV ELEC & GAS | 09/01/1994 | 4.625% | 1,300,188 |
| 3,000,000 | PUBLIC SERVICE CO OF IND | 09/01/1990 | 12.125% | 2,538,990 |
| 7,000,000 | PUBLIC SERVICE ELEC & GAS | 06/01/2007 | 8.250% | 4,090,240 |
| 1,110,000 | ROCHESTER TELEPHONE | 09/01/1993 | 4.750% | 631,523 |
| 7,000,000 | SASKATCH., PROVINCE OF | 04/15/2008 | 9.250% | 4,588,080 |
| 4,826,091 | SEABOARD COAST LINE RR | 10/01/1992 | 8.250% | 3,590,419 |
| 4,701,139 | SEABOARD COAST LINE RR | 09/01/1993 | 9.625% | 3,558,292 |
| 4,000,000 | SEAFIRST CORP | 06/01/1990 | 10.500% | 3,460,000 |
| 3,200,000 | SOUTHERN BELL TEL & TEL | 10/05/2020 | 12.875% | 2,782,368 |
| 6,000,000 | SOUTHERN BELL TEL & TEL | 12/01/2019 | 10.900% | 4,499,040 |
| 8,000,000 | SOUTHERN BELL TEL & TEL | 03/15/2013 | 7.625% | 4,320,960 |
| 3,150,000 | SOUTHERN NATURAL GAS | 11/15/1994 | 11.375% | 2,681,753 |
| 200,000 | SOUTHWEST INVESTMENT | 10/15/1986 | 8.500% | 177,440 |
| 5,000,000 | SOUTHWESTERN BELL TEL CO | 03/15/2019 | 9.625% | 3,309,050 |
| 450,000 | SPRAGUE ELECTRIC CO | 09/01/1988 | 4.375% | 313,200 |
| 1,123,687 | STANDARD OIL OF CALIF | 03/30/1997 | 7.700% | 703,383 |
| 1,043,424 | STANDARD OIL OF CALIF | 03/02/1997 | 7.700% | 647,601 |
| 1,043,424 | STANDARD OIL OF CALIF | 02/10/1997 | 7.700% | 654,738 |
| 4,308,801 | STANDARD OIL OF CALIF | 07/02/1999 | 8.500% | 2,818,947 |
| 15,000,000 | STANDARD OIL OF INDIANA | 06/01/1991 | 14.000% | 15,065,400 |
| 550,000 | STATES STEAMSHIP CO | 03/31/1993 | 5.100% | 314,298 |
| 5,000,000 | STUDEBAKER-WORTHINGTON | 11/15/2003 | 9.350% | 3,400,100 |
| 4,000,000 | TEKTRONIX INC | 07/15/1990 | 11.000% | 3,499,240 |
| 3,275,000 | TEXACO INC | 12/01/2001 | 7.750% | 1,940,241 |
| 150,000 | TEXAS EASTERN TRANS | 07/01/1985 | 10.000% | 146,016 |
| 3,000,000 | TEXAS POWER & LIGHT | 01/01/2006 | 8.600% | 1,852,410 |
| 2,500,000 | TEXAS POWER & LIGHT | 02/01/2009 | 9.375% | 1,638,950 |
| 12,000,000 | U.S.A. TREASURY BOND | 02/15/2001 | 11.750% | 10,372,440 |
| 9,000,000 | U.S.A. TREASURY BOND | 05/15/2009 | 9.125% | 6,069,330 |
| 10,000,000 | U.S.A. TREASURY NOTE | 05/15/1992 | 13.750% | 9,950,000 |
| 20,000,000 | U.S.A. TREASURY NOTE | 07/15/1989 | 14.500% | 20,537,400 |

MINNESOTA STATE BOARD OF INVESTMENT
 POST RETIREMENT FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|----------------------|---------------------------|------------|---------|-----------------|
| 26,000,000 | U.S.A. TREASURY NOTE | 10/15/1989 | 11.875% | \$24,212,500 |
| 23,000,000 | U.S.A. TREASURY NOTE | 11/15/1992 | 10.500% | 19,248,010 |
| 20,000,000 | U.S.A. TREASURY NOTE | 04/30/1985 | 9.500% | 19,606,200 |
| 13,000,000 | U.S.A. TREASURY NOTE | 05/15/1993 | 10.125% | 10,570,560 |
| 15,000,000 | U.S.A. TREASURY NOTE | 05/31/1985 | 9.875% | 14,700,000 |
| 5,000,000 | U.S.A. TREASURY NOTE | 05/15/1991 | 14.500% | 5,146,850 |
| 20,000,000 | U.S.A. TREASURY NOTE | 08/15/1991 | 14.875% | 20,937,400 |
| 25,000,000 | U.S.A. TREASURY NOTE | 11/15/1991 | 14.250% | 25,484,250 |
| 10,500,000 | U.S.A. TREASURY NOTE | 04/15/1988 | 13.250% | 10,421,250 |
| 15,000,000 | U.S.A. TREASURY NOTE | 10/15/1988 | 15.375% | 15,853,050 |
| 46,000,000 | U.S.A. TREASURY NOTE | 01/15/1989 | 14.625% | 47,437,500 |
| 2,000,000 | U.S.A. TREASURY NOTE | 11/15/1989 | 10.750% | 1,780,000 |
| 36,000,000 | U.S.A. TREASURY NOTE | 02/15/1992 | 14.625% | 37,305,000 |
| 5,000,000 | UNION CAMP | 10/01/2012 | 12.750% | 4,435,300 |
| 4,000,000 | UNION TANK CAR | 12/15/1995 | 9.500% | 3,005,200 |
| 20,000,000 | UPJOHN CO | 06/01/1991 | 14.000% | 19,948,000 |
| 4,000,000 | USLIFE CORP | 10/15/1989 | 12.000% | 3,680,040 |
| 60,000 | VIRGINIA ELEC. & POWER | 12/01/1987 | 4.500% | 46,332 |
| 4,000,000 | WESTINGHOUSE CREDIT CORP | 01/15/1989 | 10.750% | 3,561,280 |
| 10,450,000 | WILLAMETTE INDUSTRIES INC | 04/15/1993 | 11.375% | 8,832,758 |
| TOTAL BOND PORTFOLIO | | | | \$924,432,719 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT INCOME SHARE ACCOUNT
 COMBINED INTERNAL AND EXTERNAL MANAGERS
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 16,812 | ALLIED BANCSHARES INC | \$ 401,387 |
| 12,075 | ALLIED CORP | 381,872 |
| 18,900 | AMER. GENERAL CORP | 392,175 |
| 6,400 | AMER. INT'L. GROUP INC | 374,400 |
| 31,000 | AMERICAN EXPRESS CO | 891,250 |
| 7,900 | AMERICAN TEL & TEL NEW | 136,275 |
| 49,200 | ARCHER DANIELS MIDLAND | 867,150 |
| 25,000 | * ASK COMPUTER | 412,500 |
| 16,600 | ATLANTIC RICHFIELD | 755,300 |
| 32,300 | AVON PRODS INC | 710,600 |
| 19,600 | BANKERS TRUST NY CORP | 754,600 |
| 28,600 | BOEING CO | 1,251,250 |
| 18,200 | BORG-WARNER | 341,250 |
| 15,300 | BROWN GROUP | 405,450 |
| | BRUNSWICK CORP | |
| 15,000 | BMI CAPITAL MGMT | 438,750 |
| 19,500 | INTERNAL MGMT | 570,375 |
| | SUB-TOTAL 34,500 SHARES | 1,009,125 |
| 16,500 | * BURLINGTON INDUSTRIES | 435,188 |
| 8,150 | BURLINGTON NORTHERN INC | 328,038 |
| 11,150 | CANADIAN PACIFIC LTD | 341,469 |
| 12,500 | CAPITAL HOLDING CORP | 412,500 |
| 13,900 | CARLISLE CORP | 396,150 |
| 5,750 | CELANESE CORP | 372,313 |
| 10,500 | CHASE MANHATTAN CORP | 413,438 |
| 28,150 | CHEMICAL NEW YORK CORP | 675,600 |
| 10,700 | CITY INVESTING | 456,088 |
| 11,000 | COLUMBIA GAS SYSTEM INC | 365,750 |
| 13,000 | COMBUSTION ENGINEERING | 404,625 |
| 72,700 | COMMONWEALTH EDISON CO | 1,653,925 |
| 20,300 | CONTINENTAL TELECOM. INC | 388,238 |
| 12,300 | CONTROL DATA CORP | 379,763 |
| 27,400 | COOPER TIRE & RUBBER | 383,600 |
| 10,500 | CROWN CORK & SEAL | 416,063 |
| 7,000 | * CULLINET SOFTWARE INC | 270,375 |
| 17,500 | DOMINION RESOURCES | 406,875 |
| 8,400 | DU PONT EI DENEMOURS | 383,250 |
| 32,500 | DUKE POWER CO | 796,250 |
| | DUN & BRADSTREET COS INC | |
| 8,000 | BMI CAPITAL MGMT | 474,000 |
| 6,900 | INTERNAL MGMT | 408,825 |
| | SUB-TOTAL 14,900 SHARES | 882,825 |
| 7,800 | E-SYSTEMS | 216,450 |
| 44,450 | EMERSON RADIO CORP | 377,825 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT INCOME SHARE ACCOUNT
 COMBINED INTERNAL AND EXTERNAL MANAGERS
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|------------------------------|-----------------|
| 20,900 | ENSERCH CORP | \$ 402,325 |
| 21,750 | EXXON CORP | 886,313 |
| 102,100 | FEDERAL NATL. MTG | 1,289,013 |
| 18,400 | FIRST CITY BANCORP TEXAS | 294,400 |
| 9,800 | FIRST INTERSTATE BANCORP | 307,475 |
| 20,700 | FLEETWOOD ENTER. INC | 354,488 |
| | FORD MOTOR CO | |
| 10,000 | BMI CAPITAL MGMT | 361,250 |
| 10,600 | INTERNAL MGMT | 382,925 |
| | SUB-TOTAL 20,600 SHARES | 744,175 |
| 13,000 | * FOREST LABS | 204,750 |
| 6,200 | GENERAL MOTORS CORP | 405,325 |
| 5,350 | GENERAL RE CORP | 306,956 |
| 19,500 | * GENUINE PARTS CO | 536,250 |
| | GOODYEAR TIRE & RUBBER | |
| 19,000 | BMI CAPITAL MGMT | 489,250 |
| 16,000 | INTERNAL MGMT | 412,000 |
| | SUB-TOTAL 35,000 | 901,250 |
| 39,800 | GREYHOUND CORP | 890,525 |
| 10,500 | GTE CORP | 392,438 |
| 6,600 | HALLIBURTON INC | 221,925 |
| 20,150 | HOUSTON INDUSTRIES INC | 372,775 |
| 11,700 | HOUSTON NAT. GAS CORP | 563,063 |
| 26,250 | * INSILCO CORP | 416,719 |
| 10,000 | * INTERGRAPH CORP | 435,000 |
| 10,300 | INTERNORTH INC | 374,663 |
| 6,700 | INTL. BUSINESS MACHINES | 708,525 |
| 10,500 | * INTL. FLAVORS & FRAGRANCES | 271,688 |
| 16,000 | * KELLWOOD CO | 424,000 |
| 6,500 | KIDDE INC | 186,063 |
| 12,000 | KROGER CO | 397,500 |
| 7,000 | LEAR SIEGLER INC | 302,750 |
| 13,700 | LEVI STRAUSS & CO | 392,163 |
| 250 | LITTON INDS INC | 18,375 |
| | LOCKHEED AIRCRAFT CORP | |
| 11,000 | BMI CAPITAL MGMT | 431,750 |
| 23,800 | INTERNAL MGMT | 934,150 |
| | SUB-TOTAL 34,800 | 1,365,900 |
| 22,650 | LUCKY STORES | 365,231 |
| 13,450 | MARY KAY COSMETICS | 137,863 |
| 9,950 | MCA INC | 432,825 |
| 7,200 | MCDONNELL DOUGLAS CORP | 403,200 |
| 46,000 | MCI COMMUNICATION | 345,000 |
| 8,050 | MELLON NATIONAL CORP | 301,875 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT INCOME SHARE ACCOUNT
 COMBINED INTERNAL AND EXTERNAL MANAGERS
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|----------------------------|-----------------|
| 11,100 | MELVILLE CORP | \$ 398,213 |
| 15,000 | * MGMT. SCIENCE AMER | 296,250 |
| 10,000 | * MILLIPORE CORP | 270,000 |
| 4,500 | * MINNESOTA MNG & MFG CO | 347,063 |
| 16,300 | MITCHELL ENERGY | 313,775 |
| 21,400 | MOBIL CORP | 567,100 |
| 20,000 | * MORSE SHOE | 460,000 |
| 35,700 | NORTHEAST UTILITIES | 406,088 |
| 6,900 | NUCOR CORP | 205,275 |
| 15,000 | * NUMERAX INC | 105,000 |
| 13,500 | OWENS CORNING FIBERGLASS | 354,375 |
| 11,600 | OWENS ILLINOIS INC | 429,200 |
| 16,300 | PARSONS CORP | 395,275 |
| 11,000 | PENNZOIL CO | 356,125 |
| 26,400 | PHILADELPHIA ELEC. CO | 330,000 |
| 25,000 | * QUOTRON SYSTEMS INC | 268,750 |
| 24,800 | REPUBLIC BANK CORP | 657,200 |
| 7,800 | ROYAL DUTCH PET. GLDRS | 373,425 |
| 12,550 | SCHLUMBERGER LTD | 567,888 |
| 31,650 | SEA CONTAINERS LTD | 704,213 |
| 31,650 | SEACO INC | 114,731 |
| 6,250 | SECURITY PACIFIC CORP | 264,063 |
| 10,000 | * SHARED MED. SYSTEMS CORP | 288,750 |
| 10,000 | * SHERWIN WILLIAMS CO | 282,500 |
| 23,300 | SMITHKLINE-BECKMAN CORP | 1,319,363 |
| 22,400 | SONAT INC | 725,200 |
| 13,300 | SOUTHLAND CORP | 359,100 |
| 7,600 | ST. PAUL COS. INC | 397,100 |
| 9,000 | STANDARD OIL CO. OHIO | 392,625 |
| 34,300 | STERLING DRUG INC | 917,525 |
| 4,500 | SUBARU OF AMERICA INC | 414,000 |
| 8,800 | SYNTEX CORP | 378,400 |
| 28,200 | TANDY CORP | 733,200 |
| 9,900 | TENNECO INC | 370,013 |
| 19,500 | TEXAS COMMERCE BANKSHARES | 797,063 |
| 11,300 | TEXAS EASTERN CORP | 317,813 |
| 10,100 | TEXAS UTILITIES CO | 215,888 |
| 22,500 | * THERMO ELECTRON CORP | 360,000 |
| 19,000 | TIE COMMUNICATIONS | 285,000 |
| 9,100 | TRANSCO ENERGY CO | 393,575 |
| 39,400 | TRAVELERS CORP | 1,122,900 |
| 2,500 | * UPJOHN CO | 165,625 |
| 14,100 | US AIR GROUP | 384,225 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT INCOME SHARE ACCOUNT
 COMBINED INTERNAL AND EXTERNAL MANAGERS
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------------|------------------------|-----------------|
| 36,700 | US FIDELITY & GUAR. CO | \$ 729,413 |
| 26,900 | VALERO ENERGY CORP | 258,913 |
| 16,300 | WARNACO INC | 395,275 |
| 21,100 | WASTE MANAGEMENT | 688,388 |
| 15,250 | WESTERN UNION CORP | 350,750 |
| 99,800 | WESTINGHOUSE ELEC. CO | 2,195,600 |
| 10,700 | XEROX CORP | 410,613 |
| TOTAL EQUITY PORTFOLIO | | \$60,426,777 |

* THESE SECURITIES ARE HELD IN THE PORTFOLIO MANAGED BY
 BMI CAPITAL MANAGEMENT INC.

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT INCOME SHARE ACCOUNT
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|---------------------------|------------|---------|-----------------|
| 1,000,000 | AMERICAN TELEPHONE & TEL | 08/01/2000 | 6.000% | \$ 491,520 |
| 1,250,000 | ASSOCIATES CORP NO AMER | 11/15/1992 | 11.450% | 1,076,500 |
| 668,000 | BRITISH COLUMBIA HYDRO | 07/15/1996 | 9.625% | 519,991 |
| 535,977 | BURLINGTON NORTHERN | 09/01/1993 | 8.750% | 389,800 |
| 400,000 | CANADIAN PACIFIC LTD | 01/15/1992 | 8.625% | 333,660 |
| 259,137 | CHESAPEAKE & OHIO RY | 03/15/1989 | 8.750% | 221,165 |
| 400,000 | CITIES SERVICE GAS CO | 06/01/1991 | 8.250% | 286,136 |
| 500,000 | CONSOLIATED NATURAL GAS | 10/01/2000 | 12.875% | 451,145 |
| 1,000,000 | DOW CHEMICAL CO | 07/15/2007 | 7.875% | 577,620 |
| 1,500,000 | FEDERAL FARM CREDIT BANK | 03/01/1994 | 12.350% | 1,362,180 |
| 1,000,000 | FEDERAL FARM CREDIT BANK | 04/22/1985 | 13.250% | 1,007,810 |
| 2,000,000 | FEDERAL HOME LOAN MTG | 08/30/1991 | 11.850% | 1,798,740 |
| 1,000,000 | FEDERAL NATIONAL MTG | 08/10/1984 | 11.100% | 1,000,000 |
| 500,000 | FEDERAL NATIONAL MTG | 06/10/1988 | 10.500% | 449,685 |
| 1,000,000 | FIRST INTERSTATE BANCORP | 04/15/1988 | 10.500% | 899,610 |
| 800,000 | FMC CORP | 01/15/2000 | 9.500% | 563,216 |
| 800,000 | FORD MOTOR CREDIT CO | 04/01/1999 | 8.700% | 515,424 |
| 1,000,000 | GENERAL MOTORS ACCEPT CO | 10/15/1989 | 11.750% | 916,070 |
| 1,500,000 | GERBER PRODUCTS CO | 11/01/1994 | 11.750% | 1,296,660 |
| 580,136 | GNMA POOL # 11828 | 09/15/2006 | 8.000% | 387,241 |
| 695,602 | GNMA POOL # 12712 | 10/15/2006 | 8.000% | 464,314 |
| 655,202 | GNMA POOL # 14185 | 12/15/2006 | 8.000% | 437,347 |
| 755,377 | GNMA POOL # 17945 | 12/15/2007 | 8.000% | 504,214 |
| 816,221 | GNMA POOL # 19774 | 11/15/2007 | 8.000% | 544,828 |
| 1,000,000 | HAWAIIAN TELEPHONE | 10/01/2010 | 13.375% | 902,980 |
| 1,000,000 | HOUSTON NATURAL GAS CO | 11/15/1992 | 11.000% | 846,050 |
| 1,000,000 | KIMBERLY CLARK | 10/15/1990 | 11.125% | 884,150 |
| 800,000 | LINCOLN NATIONAL CORP | 09/15/1992 | 13.875% | 778,288 |
| 351,886 | LOUISVILLE & NASHVILLE | 10/20/1991 | 9.000% | 266,395 |
| 500,000 | MANITOBA HYDRO ELEC | 10/15/1997 | 7.650% | 304,550 |
| 800,000 | MARATHON OIL CO | 02/01/2000 | 8.500% | 480,152 |
| 2,000,000 | MISSISSIPPI POWER & LIGHT | 06/01/1988 | 11.250% | 1,783,520 |
| 731,831 | MISSOURI PACIFIC RR | 06/01/1995 | 12.750% | 671,923 |
| 407,000 | NATL MED ENTERPRISE CV. | 11/15/2001 | 12.625% | 421,245 |
| 700,000 | NEW YORK STATE ELEC & GAS | 04/01/1993 | 11.750% | 583,709 |
| 625,000 | NORTHERN STATES POWER CO | 01/01/2004 | 8.375% | 384,906 |
| 1,000,000 | NORTHWESTERN BELL TEL | 08/15/2016 | 9.500% | 665,960 |
| 800,000 | NORWEST CORP | 09/15/1986 | 7.875% | 710,864 |
| 624,000 | ONTARIO HYDRO | 03/15/1996 | 9.500% | 465,660 |
| 1,000,000 | ONTARIO, PROVINCE OF | 06/15/2005 | 9.125% | 658,120 |
| 500,000 | ONTARIO, PROVINCE OF | 06/01/2008 | 9.375% | 332,950 |
| 500,000 | PACIFIC TEL & TEL CO | 11/01/2020 | 15.000% | 498,345 |
| 500,000 | ROHM & HAAS CO | 04/15/1985 | 9.000% | 486,785 |
| 700,000 | SASKATCH., PROVINCE OF | 04/15/2008 | 9.250% | 458,808 |
| 500,000 | SEAFIRST CORP | 06/01/1990 | 10.500% | 432,500 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT INCOME SHARE ACCOUNT
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|----------------------|-------------------------|------------|---------|-----------------|
| 500,000 | SOUTHERN BELL TEL & TEL | 10/05/2020 | 12.875% | \$ 434,745 |
| 120,395 | STANDARD OIL OF CALIF | 03/30/1997 | 7.700% | 75,363 |
| 120,395 | STANDARD OIL OF CALIF | 03/02/1997 | 7.700% | 74,723 |
| 160,527 | STANDARD OIL OF CALIF | 02/10/1997 | 7.700% | 100,729 |
| 82,045 | STANDARD OIL OF CALIF | 09/07/1997 | 7.700% | 50,978 |
| 82,045 | STANDARD OIL OF CALIF | 09/08/1997 | 7.700% | 50,976 |
| 82,045 | STANDARD OIL OF CALIF | 11/06/1997 | 7.700% | 50,842 |
| 1,400,000 | U.S.A. TREASURY BOND | 11/15/1995 | 11.500% | 1,216,250 |
| 3,000,000 | U.S.A. TREASURY NOTE | 10/15/1989 | 11.875% | 2,793,750 |
| 3,000,000 | U.S.A. TREASURY NOTE | 11/15/1992 | 10.500% | 2,510,610 |
| 1,000,000 | U.S.A. TREASURY NOTE | 02/15/1987 | 9.000% | 907,810 |
| 500,000 | USLIFE CORP | 10/15/1990 | 12.500% | 466,355 |
| 766,000 | WELLS FARGO & CO | 11/01/1998 | 8.625% | 469,167 |
| TOTAL BOND PORTFOLIO | | | | \$38,715,034 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT GROWTH SHARE ACCOUNT
 COMBINED INTERNAL AND EXTERNAL MANAGERS
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 6,787 | ALLIED BANCSHARES INC | \$ 162,040 |
| 4,725 | ALLIED CORP | 149,428 |
| 7,600 | AMER. GENERAL CORP | 157,700 |
| 2,600 | AMER. INT'L. GROUP | 152,100 |
| 12,350 | AMERICAN EXPRESS CO | 355,063 |
| 1,200 | AMERICAN TEL & TEL NEW | 20,700 |
| 20,600 | * AMR CORP | 628,300 |
| 19,800 | ARCHER DANIELS MIDLAND | 348,975 |
| 6,600 | ATLANTIC RICHFIELD | 300,300 |
| 8,000 | BANKERS TRUST NY CORP | 308,000 |
| 11,350 | BOEING CO | 496,563 |
| 3,000 | BRITISH PETROLEUM | 74,625 |
| 3,850 | BROWN GROUP | 102,025 |
| 6,800 | BRUNSWICK CORP | 198,900 |
| 3,200 | BURLINGTON NORTHERN INC | 128,800 |
| | CALFED INC | |
| 17,000 | WADDELL & REED | 218,875 |
| 10,700 | INTERNAL MGMT | 137,763 |
| | SUB-TOTAL 27,700 SHARES | 356,638 |
| 3,900 | CANADIAN PACIFIC LTD | 119,438 |
| 5,000 | CAPITAL HOLDING CORP | 165,000 |
| 5,600 | CARLISLE CORP | 159,600 |
| 2,300 | CELANESE CORP | 148,925 |
| 4,200 | CHASE MANHATTAN CORP | 165,375 |
| 10,750 | CHEMICAL NEW YORK CORP | 258,000 |
| 42,200 | * CHRYSLER CORP | 1,055,000 |
| 20,000 | * CHURCHS FRIED CHICKEN | 550,000 |
| 4,300 | CITY INVESTING | 183,288 |
| 10,000 | CLEVELAND ELEC. ILLUM | 157,500 |
| 3,800 | COLUMBIA GAS SYSTEM INC | 126,350 |
| 5,200 | COMBUSTION ENGINEERING | 161,850 |
| 23,770 | COMMONWEALTH EDISON CO | 540,768 |
| 4,700 | CONTINENTAL TELECOM. INC | 89,888 |
| 4,950 | CONTROL DATA CORP | 152,831 |
| 11,000 | COOPER TIRE & RUBBER | 154,000 |
| 4,200 | CROWN CORK & SEAL | 166,425 |
| 5,600 | * DATAPOINT CORP | 106,400 |
| 13,000 | DETROIT EDISON CO | 164,125 |
| 7,100 | DOMINION RESOURCES | 165,075 |
| 3,400 | DU PONT EI DENEMOURS | 155,125 |
| 13,000 | DUKE POWER CO NC | 318,500 |
| 2,800 | DUN & BRADSTREET COS INC | 165,900 |
| 3,100 | E-SYSTEMS | 86,025 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT GROWTH SHARE ACCOUNT
 COMBINED INTERNAL AND EXTERNAL MANAGERS
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 39,520 | EMERSON RADIO CORP | \$ 335,920 |
| 8,500 | ENSERCH CORP | 163,625 |
| 7,850 | EXXON CORP | 319,888 |
| | FEDERAL NATL. MTG | |
| 35,000 | WADDELL & REED | 441,875 |
| 31,850 | INTERNAL MGMT | 402,106 |
| | SUB-TOTAL 66,850 SHARES | 843,981 |
| 2,900 | FIGGIE INTL. INC | 73,950 |
| 6,900 | FIRST CITY BANCORP TEXAS | 110,400 |
| 3,800 | FIRST INTERSTATE BANCORP | 119,225 |
| 8,300 | FLEETWOOD ENTER. INC | 142,138 |
| | FORD MOTOR CO | |
| 13,700 | WADDELL & REED | 494,912 |
| 4,300 | INTERNAL MGMT | 155,338 |
| | SUB-TOTAL 18,000 SHARES | 650,250 |
| 1,600 | GENERAL ELECTRIC CO | 84,000 |
| 2,500 | GENERAL MOTORS CORP | 163,438 |
| 1,600 | GENERAL RE CORP | 91,800 |
| 6,400 | GOODYEAR TIRE & RUBBER | 164,800 |
| 10,000 | * GR. WESTERN FINANCIAL | 177,500 |
| | GREYHOUND CORP | |
| 4,700 | WADDELL & REED | 105,163 |
| 16,000 | INTERNAL MGMT | 358,000 |
| | SUB-TOTAL 20,700 | 463,163 |
| 4,200 | GTE CORP | 156,975 |
| 8,000 | HALLIBURTON INC | 269,000 |
| 6,000 | HOOVER UNIVERSAL | 136,500 |
| 8,100 | HOUSTON INDUSTRIES INC | 149,850 |
| 1,300 | HOUSTON NAT. GAS CORP | 62,563 |
| 9,200 | ILLINOIS POWER CO | 170,200 |
| 4,100 | INTERNORTH INC | 149,138 |
| 3,000 | INTL. BUSINESS MACHINES | 317,250 |
| 2,800 | KIDDE INC | 80,150 |
| 4,800 | KROGER CO | 159,000 |
| 2,800 | LEAR SIEGLER INC | 121,100 |
| 5,500 | LEVI STRAUSS & CO | 157,438 |
| 50 | LITTON INDS INC | 3,675 |
| 9,600 | LOCKHEED AIRCRAFT CORP | 376,800 |
| 34,200 | * LSI LOGIC CORP | 478,800 |
| 8,250 | LUCKY STORES | 133,031 |
| 5,275 | MARY KAY COSMETICS | 54,069 |
| 4,000 | MCA INC | 174,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT GROWTH SHARE ACCOUNT
 COMBINED INTERNAL AND EXTERNAL MANAGERS
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|---------------------------|-----------------|
| 2,900 | MCDONNELL DOUGLAS CORP | \$ 162,400 |
| 18,900 | MCI COMMUNICATION | 141,750 |
| 2,150 | MELLON NATIONAL CORP | 80,625 |
| 4,500 | MELVILLE CORP | 161,438 |
| 6,750 | MITCHELL ENERGY | 129,938 |
| 8,800 | MOBIL CORP | 233,200 |
| 7,500 | MOTOROLA INC | 250,313 |
| 8,500 | NATL. MED. ENTER. INC | 177,438 |
| 3,950 | NO. STS. POWER CO | 146,644 |
| 25,550 | NORTHEAST UTILITIES | 290,631 |
| 3,000 | NUCOR CORP | 89,250 |
| 5,000 | OWENS CORNING FIBERGLASS | 131,250 |
| 4,700 | OWENS ILLINOIS INC | 173,900 |
| 6,500 | PARSONS CORP | 157,625 |
| 4,400 | PENNZOIL CO | 142,450 |
| 13,500 | * PFIZER INC | 442,125 |
| 8,600 | PHILADELPHIA ELEC. CO | 107,500 |
| 9,400 | REPUBLIC BANK CORP | 249,100 |
| 2,550 | ROYAL DUTCH PET. GLDRS | 122,081 |
| 3,900 | SCHLUMBERGER LTD | 176,475 |
| 12,550 | SEA CONTAINERS LTD | 279,238 |
| 12,550 | SEACO INC | 45,494 |
| 2,500 | SECURITY PACIFIC CORP | 105,625 |
| 9,400 | SMITHKLINE-BECKMAN CORP | 532,275 |
| 9,000 | SONAT INC | 291,375 |
| 5,300 | SOUTHLAND CORP | 143,100 |
| 3,000 | ST. PAUL COS. INC | 156,750 |
| 3,600 | STANDARD OIL CO. OHIO | 157,050 |
| 14,050 | STERLING DRUG INC | 375,838 |
| 1,800 | SUBARU OF AMERICA INC | 165,600 |
| 4,100 | SYNTEX CORP | 176,300 |
| 51,000 | * TANDON CORP | 363,375 |
| 11,400 | TANDY CORP | 296,400 |
| 4,000 | TENNECO INC | 149,500 |
| 7,900 | TEXAS COMMERCE BANKSHARES | 322,913 |
| 4,400 | TEXAS EASTERN CORP | 123,750 |
| 7,200 | TEXAS UTILITIES CO | 153,900 |
| 12,900 | TIE COMMUNICATIONS | 193,500 |
| 6,200 | * TOYS R US | 274,350 |
| 3,600 | TRANSCO ENERGY CO | 155,700 |
| 16,400 | TRAVELERS CORP | 467,400 |
| 5,700 | US AIR GROUP | 155,325 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT GROWTH SHARE ACCOUNT
 COMBINED INTERNAL AND EXTERNAL MANAGERS
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------------|------------------------|-----------------|
| 14,800 | US FIDELITY & GUAR. CO | \$ 294,150 |
| 11,050 | VALERO ENERGY CORP | 106,356 |
| 6,500 | WARNACO INC | 157,625 |
| 9,450 | WASTE MANAGEMENT | 308,306 |
| 5,400 | WESTERN UNION CORP | 124,200 |
| 34,600 | WESTINGHOUSE ELEC. CO | 761,200 |
| 4,300 | XEROX CORP | 165,013 |
| TOTAL EQUITY PORTFOLIO | | \$27,076,893 |

* THESE SECURITIES ARE HELD IN THE PORTFOLIO MANAGED
 BY WADDELL & REED.

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT FIXED RETURN ACCOUNT
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|---------------------------|------------|---------|-----------------|
| 105,000 | ACF INDUSTRIES INC | 03/01/1991 | 9.000% | \$ 81,195 |
| 51,000 | ACF INDUSTRIES INC | 02/01/1992 | 8.000% | 39,250 |
| 150,000 | AMAX | 03/01/2001 | 8.625% | 93,394 |
| 1,000,000 | ASSOCIATES CORP NO AMER | 02/01/1989 | 11.850% | 924,250 |
| 1,000,000 | ASSOCIATES CORP NO AMER | 11/15/1992 | 11.450% | 861,200 |
| 132,814 | ATLANTIC RICHFIELD CO | 07/15/1996 | 9.250% | 95,092 |
| 501,000 | BRITISH COLUMBIA HYDRO | 07/15/1996 | 9.625% | 389,993 |
| 401,983 | BURLINGTON NORTHERN | 09/01/1993 | 8.750% | 292,350 |
| 280,000 | BURLINGTON NORTHERN | 06/15/1998 | 9.250% | 209,776 |
| 200,000 | CANADIAN PACIFIC LTD | 01/15/1992 | 8.625% | 166,830 |
| 500,000 | COMMONWEALTH EDISON | 04/01/1999 | 10.000% | 385,735 |
| 500,000 | CREDITHRIFT FINANCIAL | 01/01/1994 | 12.375% | 451,990 |
| 500,000 | FEDERAL FARM CREDIT BANK | 01/22/1990 | 10.950% | 443,750 |
| 500,000 | FEDERAL HOME LOAN BANK | 03/25/1987 | 11.100% | 495,780 |
| 750,000 | FEDERAL HOME LOAN BANK | 06/25/1987 | 10.300% | 691,403 |
| 5,000,000 | FEDERAL HOME LOAN BANK | 12/26/1990 | 10.900% | 4,356,250 |
| 500,000 | FEDERAL HOME LOAN BANK | 11/25/1986 | 11.300% | 479,375 |
| 77,600 | FEDERAL HOME LOAN MTG | 03/15/2007 | 8.050% | 61,546 |
| 1,600,000 | FEDERAL HOME LOAN MTG | 08/30/1991 | 11.850% | 1,438,992 |
| 500,000 | FLORIDA POWER & LIGHT | 11/01/1990 | 13.300% | 483,590 |
| 500,000 | FLORIDA POWER CORP | 04/01/1987 | 13.625% | 496,940 |
| 150,000 | FMC CORP | 01/15/2000 | 9.500% | 105,603 |
| 500,000 | FORD LEASING DEV | 03/15/2004 | 9.500% | 328,355 |
| 150,000 | FORD MOTOR CO | 07/15/1994 | 9.250% | 111,856 |
| 11,795 | GNMA POOL # 09797 | 05/15/2006 | 8.000% | 7,873 |
| 351,896 | GNMA POOL # 10375 | 05/15/2006 | 8.250% | 215,804 |
| 174,462 | GNMA POOL # 15955 | 08/15/2007 | 8.000% | 116,453 |
| 373,414 | GNMA POOL # 17086 | 11/15/2007 | 8.000% | 249,254 |
| 364,052 | GNMA POOL # 17606 | 07/15/2007 | 8.000% | 243,005 |
| 500,000 | HAWAIIAN TELEPHONE | 10/01/2010 | 13.375% | 451,490 |
| 600,000 | HOUSTON LIGHTING & POWER | 02/01/1991 | 13.875% | 590,586 |
| 250,000 | HOUSTON LIGHTING & POWER | 10/01/2006 | 8.375% | 145,490 |
| 250,000 | IOWA-ILL GAS & ELEC | 01/15/2007 | 8.250% | 148,400 |
| 500,000 | KIMBERLY CLARK | 10/15/1990 | 11.125% | 442,075 |
| 471,124 | LNM ACCEPTANCE CORP | 12/01/1986 | 9.100% | 430,367 |
| 105,566 | LOUISVILLE & NASHVILLE | 10/20/1991 | 9.000% | 79,919 |
| 83,576 | LOUISVILLE & NASHVILLE | 04/20/1992 | 8.375% | 66,210 |
| 150,000 | MINNESOTA POWER & LIGHT | 08/01/2005 | 10.500% | 109,295 |
| 330,522 | MISSOURI PACIFIC RR | 06/01/1994 | 9.750% | 253,497 |
| 400,000 | MONTGOMERY WARD CREDIT | 06/30/2002 | 8.250% | 233,316 |
| 400,000 | MONTGOMERY WARD CREDIT | 10/01/2002 | 8.375% | 235,936 |
| 500,000 | NEW YORK STATE ELEC & GAS | 01/01/1994 | 12.375% | 430,160 |
| 400,000 | NORTHERN STATES POWER | 01/01/2004 | 8.375% | 246,340 |
| 1,000,000 | NORTHERN TELECOM | 10/01/1990 | 12.250% | 909,470 |
| 500,000 | NORWEST FINANCIAL | 07/01/1990 | 12.750% | 471,345 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT FIXED RETURN ACCOUNT
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|----------------------|---------------------------|------------|---------|-----------------|
| 1,000,000 | NORWEST FINANCIAL | 07/01/1991 | 12.750% | \$ 928,670 |
| 500,000 | NOVA SCOTIA POWER CORP | 06/01/2008 | 9.625% | 334,325 |
| 500,000 | OHIO EDISON CO | 04/15/2010 | 15.500% | 457,870 |
| 233,652 | OLYMPIC PIPELINE CO | 09/01/2001 | 8.850% | 144,119 |
| 468,000 | ONTARIO HYDRO | 03/15/1996 | 9.500% | 349,245 |
| 700,000 | ONTARIO, PROVINCE OF | 06/15/2005 | 9.125% | 460,684 |
| 500,000 | ONTARIO, PROVINCE OF | 11/30/2008 | 9.375% | 332,530 |
| 250,000 | PACIFIC GAS & ELECTRIC | 12/01/2005 | 7.750% | 137,465 |
| 700,000 | PENNEY J.C. | 02/01/1993 | 12.125% | 632,373 |
| 219,000 | PLANTATION PIPE LINE | 10/01/2001 | 7.875% | 168,253 |
| 1,000,000 | PUBLIC SERVICE CO OF IND | 09/01/1990 | 12.125% | 846,330 |
| 250,000 | PUBLIC SERVICE CO OF IND | 01/01/2007 | 7.625% | 120,088 |
| 500,000 | PUBLIC SERVICE ELEC & GAS | 06/01/2007 | 8.250% | 292,160 |
| 600,000 | SASKATCH., PROVINCE OF | 04/15/2008 | 9.250% | 393,264 |
| 196,833 | SEABOARD COAST LINE RR | 04/01/1992 | 9.000% | 147,382 |
| 386,087 | SEABOARD COAST LINE RR | 10/01/1992 | 8.250% | 287,234 |
| 250,000 | SOUTHERN BELL TEL & TEL | 03/15/2013 | 7.625% | 135,030 |
| 125,499 | STANDARD OIL OF CALIF | 07/02/1999 | 8.500% | 82,105 |
| 150,000 | STANDARD OIL OF INDIANA | 07/15/2004 | 9.200% | 104,565 |
| 250,000 | TEXAS POWER & LIGHT CO | 02/01/2007 | 8.250% | 147,845 |
| 500,000 | U.S.A. TREASURY BOND | 11/15/1993 | 8.625% | 365,935 |
| 2,000,000 | U.S.A. TREASURY NOTE | 09/30/1986 | 12.250% | 1,965,620 |
| 5,000,000 | U.S.A. TREASURY NOTE | 04/15/1990 | 10.500% | 4,362,500 |
| 3,000,000 | U.S.A. TREASURY NOTE | 04/30/1985 | 9.500% | 2,940,930 |
| 1,000,000 | U.S.A. TREASURY NOTE | 05/31/1985 | 9.875% | 980,000 |
| 500,000 | U.S.A. TREASURY NOTE | 02/15/1987 | 9.000% | 453,905 |
| 500,000 | U.S.A. TREASURY NOTE | 11/15/1984 | 14.375% | 505,470 |
| 3,000,000 | U.S.A. TREASURY NOTE | 02/15/1985 | 14.625% | 3,047,820 |
| 250,000 | UNION OIL OF CALIF | 03/01/2006 | 8.625% | 160,283 |
| 2,000,000 | UPJOHN CO | 07/15/1990 | 10.650% | 1,732,640 |
| 500,000 | USLIFE CORP | 10/15/1990 | 12.500% | 466,355 |
| 500,000 | WILLAMETTE INDUSTRIES | 04/15/1993 | 11.375% | 422,620 |
| TOTAL BOND PORTFOLIO | | | | \$43,466,393 |

MINNESOTA STATE BOARD OF INVESTMENT
 SUPPLEMENTAL RETIREMENT BOND ACCOUNT
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|----------------------|---------------------------|------------|---------|-----------------|
| 350,000 | ASSOCIATES CORP NO AMER | 11/15/1992 | 11.450% | \$ 301,420 |
| 200,000 | FEDERAL NATIONAL MTG | 10/13/1987 | 12.125% | 192,000 |
| 400,000 | FIRST INTERSTATE BANCORP | 04/15/1988 | 10.500% | 359,844 |
| 200,000 | GENERAL MOTORS ACCEPT | 10/15/1989 | 11.750% | 183,214 |
| 300,000 | NEW YORK STATE ELEC & GAS | 04/01/1993 | 11.750% | 250,161 |
| 300,000 | PENNEY J.C. | 02/01/1993 | 12.125% | 271,017 |
| 480,000 | U.S.A. TREASURY NOTE | 04/15/1989 | 14.375% | 491,098 |
| 250,000 | U.S.A. TREASURY NOTE | 11/15/1991 | 14.250% | 254,842 |
| 250,000 | U.S.A. TREASURY NOTE | 01/15/1989 | 14.625% | 257,813 |
| 330,000 | WILLAMETTE INDUSTRIES | 04/15/1993 | 11.375% | 278,929 |
| TOTAL BOND PORTFOLIO | | | | \$2,840,338 |

MINNESOTA STATE BOARD OF INVESTMENT
 MINNESOTA VARIABLE ANNUITY FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|----------------------|----------------------|------------|--------|-----------------|
| 5,000,000 | U.S.A. TREASURY NOTE | 04/30/1985 | 9.500% | \$4,901,550 |
| TOTAL BOND PORTFOLIO | | | | \$4,901,550 |

MINNESOTA STATE BOARD OF INVESTMENT
MINNESOTA VARIABLE ANNUITY FUND
COMBINED INTERNAL AND EXTERNAL MANAGERS
ALPHABETICAL EQUITY HOLDINGS
JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|-----------------------------|-----------------|
| 10,000 | ** A G EDWARDS INC | \$ 225,000 |
| 10,000 | ** ADAGE INC | 92,500 |
| 15,605 | * AGENCY RENT A CAR | 280,890 |
| 10,000 | ** ALBA WALDENSIAN INC | 95,000 |
| 17,900 | * ALCO STANDARD CORP | 548,188 |
| 10,900 | ALLIED BANCSHARES INC | 260,238 |
| 7,625 | ALLIED CORP | 241,141 |
| 13,000 | ** AMER. DISTRICT TELEGRAPH | 352,625 |
| 12,300 | AMER. GENERAL CORP | 255,225 |
| 4,100 | AMER. INT'L GROUP INC | 239,850 |
| 15,800 | ** AMER. MEDICAL INT'L | 363,400 |
| 5,000 | ** AMERADA HESS CORP | 140,625 |
| 26,000 | * AMERICAN CARRIERS | 234,000 |
| 20,100 | AMERICAN EXPRESS CO | 577,875 |
| 6,800 | ** AMERICAN GREETINGS | 194,650 |
| 8,000 | ** AMERICAN STANDARD INC | 199,000 |
| 6,000 | ** AMERICAN WATER WORKS | 184,500 |
| 5,620 | ** AMFESCO IND. INC | 76,573 |
| 9,900 | ** AMP INC | 316,800 |
| 20,000 | ** ANALOGIC CORP | 255,000 |
| 9,000 | ** ANDREW CORP | 299,250 |
| 9,300 | ** APOGEE ENTERPRISES | 76,725 |
| 13,000 | * APPLIED CIRCUIT TECH | 27,625 |
| 19,005 | * APPLIED DATA RESEARCH | 372,973 |
| 10,500 | ** APPLIED MAGNETICS | 124,688 |
| 31,900 | ARCHER DANIELS MIDLAND CO | 562,238 |
| 7,000 | ** ARMSTRONG IND. INC | 179,375 |
| 7,800 | * ASSOC. DRY GOODS | 419,250 |
| 10,800 | ATLANTIC RICHFIELD | 491,400 |
| 7,500 | ** AYDIN CORP | 201,563 |
| 16,000 | ** BANK OF NY CO INC | 432,000 |
| 12,800 | BANKERS TRUST NY CORP | 492,800 |
| 10,000 | ** BANTA GEORGE & CO | 181,250 |
| 6,000 | ** BASSET WALKER INC | 117,000 |
| 5,100 | ** BK. OF NEW HAMP. CORP | 132,600 |
| 18,100 | BOEING CO | 791,875 |
| 5,150 | BRITISH PETROLEUM | 128,106 |
| 7,150 | BROWN GROUP | 189,475 |
| | BRUNSWICK CORP | |
| 15,000 | NORWEST BANK MPLS | 438,750 |
| 11,200 | INTERNAL MGMT | 327,600 |
| | SUB-TOTAL 26,200 SHARES | 766,350 |
| 2,500 | ** BUILDERS TRANSPORT INC | 38,125 |
| 5,450 | BURLINGTON NORTHERN INC | 219,363 |

MINNESOTA STATE BOARD OF INVESTMENT
MINNESOTA VARIABLE ANNUITY FUND
COMBINED INTERNAL AND EXTERNAL MANAGERS
ALPHABETICAL EQUITY HOLDINGS
JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|------------------------------|-----------------|
| 51,600 | CALFED INC | \$ 664,350 |
| 6,750 | CANADIAN PACIFIC LTD | 206,719 |
| 8,100 | CAPITAL HOLDING CORP | 267,300 |
| 9,000 | CARLISLE CORP | 256,500 |
| 8,000 | ** CARTER HAWLEY HALE STORES | 158,000 |
| 6,900 | * CBS INC | 539,925 |
| 3,700 | CELANESE CORP | 239,575 |
| 7,500 | ** CEN. BANKSHRS SO | 151,875 |
| 6,800 | CHASE MANHATTAN CORP | 267,750 |
| 17,900 | CHEMICAL NEW YORK CORP | 429,600 |
| 29,100 | * CHRYSLER CORP | 727,500 |
| 6,950 | CITY INVESTING | 296,244 |
| 8,000 | * CLUETT PEABODY | 208,000 |
| 5,000 | ** COLE NATIONAL CORP | 186,250 |
| 11,000 | ** COLEMAN CO INC | 310,750 |
| 10,000 | ** COLLINS FOODS INTL | 186,250 |
| 6,500 | COLUMBIA GAS SYSTEM INC | 216,125 |
| 8,400 | COMBUSTION ENGINEERING | 261,450 |
| 14,600 | ** COMMERCIAL ALLIANCE | 251,850 |
| 32,300 | COMMONWEALTH EDISON CO | 734,825 |
| 4,800 | ** COMPUTER CONSOLES | 88,800 |
| 11,000 | ** CONAIR CORP DEL | 203,500 |
| 7,800 | ** CONIFER/ESSEX GROUP | 269,100 |
| 9,000 | ** CONROY INC | 31,500 |
| 10,100 | CONTINENTAL TELECOM. INC | 193,163 |
| 8,000 | CONTROL DATA CORP | 247,000 |
| 22,300 | * CONVERGENT TECH | 301,050 |
| 17,800 | COOPER TIRE & RUBBER | 249,200 |
| 31,800 | * CORDURA CORP | 651,900 |
| 17,340 | ** COUNTRYWIDE CR. IND | 114,878 |
| 6,800 | CROWN CORK & SEAL | 269,450 |
| 5,000 | ** DALE ELECTRONICS | 96,250 |
| 5,000 | ** DAUPHIN DEPOSIT CORP | 126,250 |
| 13,800 | * DENNYS INC | 545,100 |
| 7,000 | ** DIAGNOSTIC PRODUCTS CORP | 57,750 |
| 5,500 | ** DILLARD DEPT. STORES | 283,938 |
| 10,500 | * DISNEY WALT PRODUCTIONS | 497,438 |
| 11,400 | DOMINION RESOURCES | 265,050 |
| 7,000 | ** DONNELLEY RR & SONS | 276,500 |
| 5,400 | DU PONT EI DENEMOURS | 246,375 |
| 21,000 | DUKE POWER CO NC | 514,500 |
| 4,500 | DUN & BRADSTREET COS INC | 266,625 |
| 5,100 | E-SYSTEMS | 141,525 |
| 11,000 | ** E.F. HUTTON GROUP INC | 328,625 |

MINNESOTA STATE BOARD OF INVESTMENT
 MINNESOTA VARIABLE ANNUITY FUND
 COMBINED INTERNAL AND EXTERNAL MANAGERS
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|------------------------------|-----------------|
| 15,000 | ** EDUCATIONAL COMP. CORP | \$ 105,000 |
| 5,000 | ** ELECTROSPACE SYSTEMS | 121,250 |
| 63,703 | EMERSON RADIO CORP | 541,476 |
| 13,600 | ENSERCH CORP | 261,800 |
| 13,000 | * EQUATORIAL | 287,625 |
| 12,600 | EXXON CORP | 513,450 |
| 18,000 | ** FAIRFIELD COMMUN. INC | 211,500 |
| 28,200 | FEDERAL NATL. MTG | 356,025 |
| 10,000 | ** FILTERTEK COS | 135,000 |
| 11,750 | FIRST CITY BANKCORP TEXAS | 188,000 |
| 9,900 | FIRST INTERSTATE BANCORP | 310,613 |
| 8,000 | ** FIRST JERSEY NAT'L. CO | 184,000 |
| 6,000 | ** FIRST NATL BNCP-ALLENTOWN | 163,500 |
| 10,000 | ** FIRST NATL. SUPERMARKET | 145,000 |
| 10,000 | ** FIRST SVGS. BANK FLORIDA | 250,000 |
| 13,400 | FLEETWOOD ENTER. INC | 229,475 |
| 8,000 | ** FLEMING COS | 212,000 |
| 20,000 | ** FLORIDA FED. S & L | 295,000 |
| 5,400 | ** FLORIDA ROCK INDUSTRIES | 148,500 |
| 6,900 | FORD MOTOR CO | 249,263 |
| 5,000 | ** FORT HOWARD PAPER CO | 273,125 |
| 14,300 | * FOXMEYER CORP | 314,600 |
| 10,500 | ** G & K SERVICES INC | 175,875 |
| 9,500 | * GALLAGHER ARTHUR J. & CO | 137,750 |
| 4,000 | GENERAL MOTORS CORP | 261,500 |
| 3,750 | GENERAL RE CORP | 215,156 |
| 10,000 | ** GIBSON GREETINGS | 245,000 |
| | GOODYEAR TIRE & RUBBER | |
| 17,300 | NORWEST BANK MPLS | 445,475 |
| 10,400 | INTERNAL MGMT | 267,800 |
| | SUB-TOTAL 27,700 SHARES | 713,275 |
| 12,700 | * GR. LAKES FEDERAL S&L | 74,613 |
| 14,000 | ** GREENTREE ACCEPT. INC | 199,500 |
| 25,800 | GREYHOUND CORP | 577,275 |
| 6,800 | GTE CORP | 254,150 |
| 15,000 | ** GULF CDA LTD | 191,250 |
| 35,400 | * GULF STREAM AEROSPACE | 575,250 |
| 26,950 | HALLIBURTON INC | 906,194 |
| 4,000 | ** HANDLEMAN CO | 128,500 |
| 10,000 | ** HARCOURT BRACE JOVAN | 295,000 |
| 5,000 | ** HARPER GROUP | 120,000 |
| 14,000 | ** HARTMARX CORP | 392,000 |
| 4,500 | ** HASBRO INDS. INC | 201,375 |
| 4,000 | ** HAWKEYE BANCORP | 60,000 |

MINNESOTA STATE BOARD OF INVESTMENT
MINNESOTA VARIABLE ANNUITY FUND
COMBINED INTERNAL AND EXTERNAL MANAGERS
ALPHABETICAL EQUITY HOLDINGS
JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|----------------------------|-----------------|
| 20,000 | ** HERITAGE FEDERAL S&L | \$ 265,000 |
| 5,000 | ** HIGBEE CO | 195,000 |
| 37,300 | * HOGAN SYSTEMS | 568,825 |
| 8,400 | ** HOLMES D.H. & CO | 151,200 |
| 10,200 | HOOVER UNIVERSAL | 232,050 |
| 28,900 | * HOUGHTON MIFFLIN CO | 722,500 |
| 13,100 | HOUSTON INDUSTRIES INC | 242,350 |
| 6,800 | ** HUBBELL HARVEY B. | 204,850 |
| 44,800 | * HYBRITECH INC | 627,200 |
| 23,400 | * IMPERIAL OIL CO LTD | 611,325 |
| 15,000 | ** INT'L KINGS TABLE | 232,500 |
| 6,800 | * INTEGRATED DEVICE TECH | 61,200 |
| 3,000 | ** INTER LEASE FINANCIAL | 39,375 |
| 6,700 | INTERNORTH INC | 243,713 |
| 10,000 | ** INTL. ALUMINUM CORP | 156,250 |
| | INTL. BUSINESS MACHINES | |
| 7,000 | NORWEST BANK MPLS | 740,250 |
| 10,300 | LIEBER & CO | 1,089,225 |
| 5,002 | INTERNAL MGMT | 528,962 |
| | SUB-TOTAL 22,302 SHARES | 2,358,437 |
| 24,500 | * INVACARE CORP | 232,750 |
| 7,700 | * JAMES RIVER CORP VA | 209,825 |
| 6,500 | ** JEFFERSON BANKSHARES VA | 159,250 |
| 5,000 | ** JUNO LIGHTING INC | 91,250 |
| 6,000 | ** KEARNEY NATL. INC | 97,500 |
| 15,600 | * KERR MCGEE CORP | 487,500 |
| 4,400 | KIDDE INC | 125,950 |
| 7,800 | KROGER CO | 258,375 |
| 12,300 | * KULICKE & SOFFA IND | 250,613 |
| 8,000 | ** LADD FURNITURE | 112,000 |
| 10,000 | ** LANCE INC | 267,500 |
| | LEAR SIEGLER INC | |
| 13,300 | NORWEST BANK MPLS | 575,225 |
| 5,500 | INTERNAL MGMT | 237,875 |
| | SUB-TOTAL 18,800 SHARES | 813,100 |
| 6,000 | ** LEE DATA CORP | 62,250 |
| 15,000 | ** LENNAR CORP | 157,500 |
| 8,900 | LEVI STRAUSS & CO | 254,763 |
| 18,000 | ** LIBERTY HOMES | 175,500 |
| 14,700 | ** LIBERTY NATIONAL CORP | 169,050 |
| 31,000 | * LILY TULIP INC | 259,625 |
| 10,000 | ** LIMITED INC | 195,000 |
| 250 | LITTON INDS INC | 18,375 |
| 10,000 | ** LIZ CLAIBORNE INC | 400,000 |

MINNESOTA STATE BOARD OF INVESTMENT
MINNESOTA VARIABLE ANNUITY FUND
COMBINED INTERNAL AND EXTERNAL MANAGERS
ALPHABETICAL EQUITY HOLDINGS
JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|---------------------------|-----------------|
| 17,000 | LOCKHEED AIRCRAFT CORP | |
| 15,500 | NORWEST BANK MPLS | \$ 667,250 |
| | INTERNAL MGMT | 608,375 |
| | SUB-TOTAL 32,500 SHARES | 1,275,625 |
| 10,300 | ** LOUISIANA PAC. CORP | 187,975 |
| 5,000 | ** LOWENSTEIN M CORP | 273,750 |
| 14,200 | LUCKY STORES | 228,975 |
| 9,050 | MARY KAY COSMETICS | 92,763 |
| 10,000 | ** MAYFLOWER CORP | 220,000 |
| 6,450 | MCA INC | 280,575 |
| 4,600 | MCDONNELL DOUGLAS CORP | 257,600 |
| 95,100 | * MCI COMMUNICATION | 713,250 |
| 5,500 | MELLON NATIONAL CORP | 206,250 |
| 7,250 | MELVILLE CORP | 260,094 |
| 11,000 | ** MERCHANTS SVGS. BANK | 184,250 |
| 8,000 | ** MERRILL LYNCH & CO INC | 215,000 |
| 37,600 | * MGM/UA ENTERPRISES | 521,700 |
| 8,000 | ** MICOM SYS INC | 310,000 |
| 10,000 | ** MIDLAND ENERGY CO | 233,750 |
| 16,000 | ** MILLER HERMAN INC | 396,000 |
| 11,750 | MITCHELL ENERGY | 226,188 |
| 15,550 | MOBIL CORP | 412,075 |
| 15,000 | ** MORRIS CO SVGS. BANK | 202,500 |
| 13,500 | MOTOROLA INC | 450,563 |
| 5,625 | ** MUNFORD INC | 109,688 |
| 12,500 | ** NATL. COMPUTER SYSTEMS | 200,000 |
| 14,000 | NATL. MED. ENTER. INC | 292,250 |
| 39,000 | * NATL. SEMICONDUCTOR | 477,750 |
| 19,000 | * NETWORK SYSTEMS CORP | 441,750 |
| 10,000 | ** NICO CORP | 85,000 |
| 55,700 | NORTHEAST UTILITIES | 633,588 |
| 4,900 | NUCOR CORP | 145,775 |
| 7,000 | ** OPTICAL COATING LAB | 152,250 |
| 8,300 | OWENS CORNING FIBERGLASS | 217,875 |
| 7,500 | OWENS ILLINOIS INC | 277,500 |
| 21,000 | ** OXFORD INDS INC | 288,750 |
| 24,100 | * PARADYNE CORP | 310,288 |
| 10,500 | PARSONS CORP | 254,625 |
| 32,500 | * PAYLESS CASHWAYS | 532,188 |
| 7,100 | PENNZOIL CO | 229,863 |
| 7,000 | ** PERKIN ELMER | 145,250 |
| 14,500 | PHILADELPHIA ELEC. CO | 181,250 |
| 7,500 | ** PLANNING RESEARCH CORP | 112,500 |
| 9,000 | ** POPE & TALBOT | 144,000 |

MINNESOTA STATE BOARD OF INVESTMENT
MINNESOTA VARIABLE ANNUITY FUND
COMBINED INTERNAL AND EXTERNAL MANAGERS
ALPHABETICAL EQUITY HOLDINGS
JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|-----------------------------|-----------------|
| 3,900 | ** POST CORP | \$ 249,113 |
| 8,700 | ** PRENTICE HALL INC | 376,275 |
| 2,500 | ** PUROLATOR | 80,625 |
| 10,800 | * QUANTUM CORP | 202,500 |
| 19,700 | * RAYTHEON CO | 748,600 |
| 15,500 | * RCA CORP | 490,188 |
| 25,000 | ** RECOTON CORP | 265,625 |
| 9,500 | ** REGENCY ELECTRONICS | 65,313 |
| 13,000 | * REPUBLIC AIRLINES | 48,750 |
| 16,100 | REPUBLIC BANK CORP | 426,650 |
| 8,000 | ** ROSES STORES INC | 144,000 |
| 13,800 | * ROWAN COMPANIES INC | 150,075 |
| 10,550 | ROYAL DUTCH PET. GLDRS. | 505,081 |
| 2,300 | ** SARGENT WELCH SCIENTIFIC | 62,388 |
| 9,800 | SCHLUMBERGER LTD | 443,450 |
| 21,150 | SEA CONTAINERS LTD | 470,588 |
| 21,150 | SEACO INC | 76,669 |
| 20,100 | * SEAGATE TECHNOLOGY | 206,025 |
| 5,450 | SECURITY PACIFIC CORP | 230,263 |
| 14,000 | ** SEI CORP | 210,000 |
| 9,000 | * SILICONE SYSTEMS INC | 182,250 |
| 15,000 | SMITHKLINE-BECKMAN CORP | 849,375 |
| 3,200 | ** SO. CAROLINA NATL. CORP | 126,400 |
| 14,600 | SONAT INC | 472,675 |
| 8,600 | SOUTHLAND CORP | 232,200 |
| 29,750 | * SOUTHWEST AIRLINES | 632,188 |
| 4,900 | ST. PAUL COS. INC | 256,025 |
| 5,800 | STANDARD OIL CO OHIO | 253,025 |
| 21,950 | STERLING DRUG INC | 587,163 |
| 3,000 | SUBARU OF AMERICA INC | 276,000 |
| 11,600 | ** SUNAIR ELEC. INC | 94,250 |
| 4,700 | * SURGICAL CARE AFFIL | 48,175 |
| 8,000 | ** SUSQUEHANNA BNKSHRS. INC | 248,000 |
| 29,000 | * SYMS CORP | 362,500 |
| 28,100 | SYNTEX CORP | 1,208,300 |
| 13,000 | * SYSTEMS ASSOCIATES | 237,250 |
| 13,500 | * TANDON CORP | 96,188 |
| 18,300 | TANDY CORP | 475,800 |
| 6,400 | TENNECO INC | 239,200 |
| 12,700 | TEXAS COMMERCE BANKSHARES | 519,113 |
| 7,500 | TEXAS EASTERN CORP | 210,938 |
| 230 | TEXAS INDUSTRIES | 6,699 |
| 52,100 | TEXAS OIL & GAS CORP | 1,159,225 |

MINNESOTA STATE BOARD OF INVESTMENT
MINNESOTA VARIABLE ANNUITY FUND
COMBINED INTERNAL AND EXTERNAL MANAGERS
ALPHABETICAL EQUITY HOLDINGS
JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------------|---|-----------------|
| 26,050 | TEXAS UTILITIES CO | \$ 556,819 |
| 10,400 | * THREE COM CORP | 81,900 |
| 10,000 | ** THUNANDER CORP | 56,250 |
| 3,500 | TIE COMMUNICATIONS | 52,500 |
| 23,425 | * TIMEPLEX INC | 333,806 |
| 5,900 | TRANSCO ENERGY CO | 255,175 |
| 26,700 | TRAVELERS CORP | 760,950 |
| 17,000 | ** U.S. HOME CORP | 97,750 |
| 5,000 | ** UNITED STATES SHOE CORP | 135,625 |
| 10,100 | ** UNIVERSAL-RUNDLE | 188,113 |
| 7,000 | ** UNOCAL CORP | 234,500 |
| 9,200 | US AIR GROUP | 250,700 |
| 23,800 | US FIDELITY & GUAR. CO | 473,025 |
| 5,000 | ** V F CORP | 121,250 |
| 18,050 | VALERO ENERGY CORP | 173,731 |
| 18,000 | * VALID LOGIC SYSTEMS INC | 213,750 |
| 12,000 | ** WACKENHUT CORP | 265,500 |
| 10,500 | WARNACO INC | 254,625 |
| 18,200 | * WARNER COMMUNICATIONS WASTE MANAGEMENT | 425,425 |
| 17,300 | NORWEST BANK MPLS | 564,412 |
| 15,550 | INTERNAL MGMT | 507,319 |
| | SUB-TOTAL 32,850 SHARES | 1,071,731 |
| 6,500 | ** WEIS MARKETS INC | 201,500 |
| 5,000 | ** WELDOTRON CORP | 35,000 |
| 9,200 | WESTERN UNION CORP | 211,600 |
| 57,800 | WESTINGHOUSE ELEC. CO | 1,271,600 |
| 6,900 | XEROX CORP | 264,788 |
| 23,400 | * ZYCAD CORP | 310,050 |
| TOTAL EQUITY PORTFOLIO | | \$ 82,036,515 |

* THESE SECURITIES ARE HELD IN THE PORTFOLIO MANAGED BY
NORWEST BANK.

** THESE SECURITIES ARE HELD IN THE PORTFOLIO MANAGED BY
LIEBER & CO.

MINNESOTA STATE BOARD OF INVESTMENT
 PERMANENT SCHOOL FUND
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|------------------------|-----------------|
| 13,488 | ALLIED BANCSHARES INC | \$ 322,026 |
| 10,675 | ALLIED CORP | 337,597 |
| 15,300 | AMER. GENERAL CORP | 317,475 |
| 5,200 | AMER. INT'L. GROUP | 304,200 |
| 27,400 | AMERICAN EXPRESS CO | 787,750 |
| 8,400 | AMERICAN TEL & TEL NEW | 144,900 |
| 43,500 | ARCHER DANIELS MIDLAND | 766,688 |
| 13,400 | ATLANTIC RICHFIELD | 609,700 |
| 23,300 | AVON PRODS INC | 512,600 |
| 16,000 | BANKERS TRUST NY CORP | 616,000 |
| 23,100 | BAXTER TRAVENOL LABS | 355,163 |
| 27,650 | BOEING CO | 1,209,688 |
| 16,800 | BORG-WARNER | 315,000 |
| 13,100 | BROWN GROUP | 347,150 |
| 20,800 | BRUNSWICK CORP | 608,400 |
| 8,150 | BURLINGTON NORTHERN | 328,038 |
| 10,200 | CANADIAN PACIFIC LTD | 312,375 |
| 10,100 | CAPITAL HOLDING CORP | 333,300 |
| 11,200 | CARLISLE CORP | 319,200 |
| 4,650 | CELANESE CORP | 301,088 |
| 8,500 | CHASE MANHATTAN CORP | 334,688 |
| 24,600 | CHEMICAL NEW YORK CO | 590,400 |
| 9,500 | CITY INVESTING | 404,938 |
| 9,750 | COLUMBIA GAS SYSTEM | 324,188 |
| 10,500 | COMBUSTION ENGINEERING | 326,813 |
| 64,350 | COMMONWEALTH EDISON | 1,463,963 |
| 16,400 | CONTINENTAL TELECOM | 313,650 |
| 14,350 | CONTROL DATA CORP | 443,060 |
| 22,100 | COOPER TIRE & RUBBER | 309,400 |
| 14,300 | DOMINION RESOURCES | 332,475 |
| 6,800 | DU PONT EI DENEMOURS | 310,250 |
| 26,100 | DUKE POWER CO. NC | 639,450 |
| 5,600 | DUN & BRADSTREET CO | 331,800 |
| 6,300 | E-SYSTEMS | 174,825 |
| 18,500 | ENSERCH CORP | 356,125 |
| 16,700 | EXXON CORP | 680,525 |
| 88,100 | FEDERAL NATL. MTG | 1,112,273 |
| 20,500 | FIRST CITY BANKCORP | 328,000 |
| 9,500 | FIRST INTERSTATE BANK | 298,063 |
| 16,700 | FLEETWOOD ENTER. INC | 285,988 |
| 8,600 | FORD MOTOR CO | 310,675 |
| 5,000 | GENERAL MOTORS CORP | 326,875 |
| 5,650 | GENERAL RE CORP | 324,169 |
| 12,900 | GOODYEAR TIRE & RUBBER | 332,175 |
| 34,000 | GREYHOUND CORP | 760,750 |

MINNESOTA STATE BOARD OF INVESTMENT
 PERMANENT SCHOOL FUND
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 8,500 | GTE CORP | \$ 317,688 |
| 6,950 | HALLIBURTON INC | 233,694 |
| 18,750 | HOUSTON INDUSTRIES INC | 346,875 |
| 7,350 | HOUSTON NAT. GAS CORP | 353,719 |
| 8,300 | INTERNORTH INC | 301,913 |
| 6,700 | INTL. BUSINESS MACHINES | 708,525 |
| 6,500 | KIDDE INC | 186,063 |
| 9,800 | KROGER CO | 324,625 |
| 5,600 | LEAR SIEGLER INC | 242,200 |
| 14,350 | LEVI STRAUSS & CO | 410,769 |
| 4,400 | LITTON INDS INC | 323,400 |
| 22,650 | LUCKY STORES | 365,231 |
| 13,450 | MARY KAY COSMETICS | 137,863 |
| 8,800 | MCA INC | 382,800 |
| 5,800 | MCDONNELL DOUGLAS CO | 324,800 |
| 7,700 | MELLON NATIONAL CORP | 288,750 |
| 17,800 | MELVILLE CORP | 638,575 |
| 16,300 | MITCHELL ENERGY | 313,775 |
| 22,850 | MOBIL CORP | 605,525 |
| 29,250 | NORTHEAST UTILITIES | 332,719 |
| 11,700 | OWENS CORNING FIBERGLASS | 307,125 |
| 18,550 | OWENS ILLINOIS INC | 686,350 |
| 13,100 | PARSONS CORP | 317,675 |
| 8,900 | PENNZOIL CO | 288,138 |
| 25,100 | PHILADELPHIA ELECTRIC CO | 313,750 |
| 22,700 | REPUBLIC BANK CORP | 601,550 |
| 6,900 | ROYAL DUTCH PET. GLD | 330,338 |
| 15,300 | SCHLUMBERGER LTD | 692,325 |
| 31,650 | SEA CONTAINERS LTD | 704,213 |
| 31,650 | SEACO INC | 114,731 |
| 6,250 | SECURITY PACIFIC CORP | 264,063 |
| 19,950 | SMITHKLINE-BECKMAN CORP | 1,129,669 |
| 18,200 | SONAT INC | 589,225 |
| 10,700 | SOUTHLAND CORP | 288,900 |
| 6,100 | ST. PAUL COS. INC | 318,725 |
| 7,300 | STANDARD OIL CO. OHIO | 318,463 |
| 29,700 | STERLING DRUG INC | 794,475 |
| 3,700 | SUBARU OF AMERICA INC | 340,400 |
| 8,900 | SYNTEX CORP | 382,700 |
| 8,000 | TENNECO INC | 299,000 |
| 15,800 | TEXAS COMMERCE BANKS | 645,825 |
| 12,300 | TEXAS EASTERN CORP | 345,938 |
| 13,750 | TEXAS UTILITIES CO | 293,906 |
| 7,350 | TRANSCO ENERGY CO | 317,888 |

MINNESOTA STATE BOARD OF INVESTMENT
 PERMANENT SCHOOL FUND
 ALPHABETICAL EQUITY HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------------|------------------------|-----------------|
| 39,400 | TRAVELERS CORP | \$ 1,122,900 |
| 11,400 | US AIR GROUP | 310,650 |
| 31,100 | US FIDELITY & GUARANTY | 618,113 |
| 26,900 | VALERO ENERGY CORP | 258,913 |
| 13,100 | WARNACO INC | 317,675 |
| 21,100 | WASTE MANAGEMENT | 688,388 |
| 14,050 | WESTERN UNION CORP | 323,150 |
| 83,100 | WESTINGHOUSE ELEC. CO | 1,828,200 |
| 8,600 | XEROX CORP | 330,025 |
| TOTAL EQUITY PORTFOLIO | | \$ 44,186,723 |

MINNESOTA STATE BOARD OF INVESTMENT
 PERMANENT SCHOOL FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|--------------------------|------------|---------|-----------------|
| 1,000,000 | ALUMINUM CO OF CANADA | 03/01/1995 | 9.500% | \$ 745,570 |
| 787,000 | AMERICAN PRES LINES | 11/01/1991 | 4.800% | 476,096 |
| 2,656,285 | ATLANTIC RICHFIELD CO | 07/15/1996 | 9.250% | 1,901,847 |
| 1,894,929 | ATLANTIC RICHFIELD CO | 12/01/2001 | 8.750% | 1,242,884 |
| 2,500,000 | BELL TELE. CO CANADA | 09/01/1995 | 4.850% | 1,321,175 |
| 1,200,000 | CANADIAN PACIFIC, LTD | 01/15/1992 | 8.625% | 1,000,980 |
| 4,000,000 | CONSOLIDATED NATURAL GAS | 06/01/1997 | 8.125% | 2,657,120 |
| 875,000 | CONSTRUCTION AGGREGATE | 06/01/1991 | 7.500% | 637,254 |
| 1,644,000 | EAGLE TERMINAL TANKERS | 06/01/1989 | 6.000% | 1,191,867 |
| 2,867,000 | EL PASO COLUMBIA TANKER | 03/31/2003 | 9.250% | 1,953,316 |
| 150,000 | FARRELL LINES, INC | 09/20/1998 | 9.000% | 103,692 |
| 140,000 | FARRELL LINES, INC | 06/29/1997 | 9.000% | 98,102 |
| 144,000 | FARRELL LINES, INC | 11/27/1997 | 9.000% | 100,423 |
| 146,000 | FARRELL LINES, INC | 02/28/1998 | 9.000% | 101,531 |
| 591,000 | FARRELL LINES, INC | 04/01/1988 | 8.050% | 509,158 |
| 5,000,000 | FEDERAL FARM CREDIT BANK | 10/21/1991 | 10.600% | 4,226,550 |
| 7,000,000 | FEDERAL HOME LOAN BANK | 03/25/1988 | 10.200% | 6,289,080 |
| 3,000,000 | FEDERAL HOME LOAN BANK | 04/27/1992 | 11.700% | 2,668,110 |
| 3,000,000 | FEDERAL HOME LOAN BANK | 07/26/1993 | 11.700% | 2,630,610 |
| 3,000,000 | FEDERAL HOME LOAN MTG | 08/30/1991 | 11.850% | 2,698,110 |
| 2,500,000 | FEDERAL NATIONAL MTG | 08/10/1984 | 11.100% | 2,500,000 |
| 4,000,000 | FEDERAL NATIONAL MTG | 05/10/1990 | 10.300% | 3,412,480 |
| 3,000,000 | FMC CORP | 01/15/2000 | 9.500% | 2,112,060 |
| 3,609,183 | GNMA POOL # | 07/30/2001 | 8.750% | 2,277,755 |
| 1,064,594 | GNMA POOL # 00001 | 02/15/2000 | 7.000% | 674,686 |
| 671,376 | GNMA POOL # 00010 | 06/15/2000 | 8.000% | 448,144 |
| 739,441 | GNMA POOL # 00019 | 07/15/2000 | 8.000% | 493,577 |
| 669,753 | GNMA POOL # 00020 | 10/15/2000 | 8.000% | 447,060 |
| 722,460 | GNMA POOL # 00021 | 11/15/2000 | 8.000% | 482,242 |
| 716,993 | GNMA POOL # 00022 | 01/15/2001 | 8.000% | 478,593 |
| 313,944 | GNMA POOL # 00023 | 02/15/2001 | 8.000% | 209,557 |
| 761,812 | GNMA POOL # 00027 | 05/15/2000 | 7.000% | 482,798 |
| 752,918 | GNMA POOL # 00030 | 07/15/2000 | 8.000% | 502,573 |
| 819,469 | GNMA POOL # 00058 | 08/01/2000 | 8.000% | 546,996 |
| 602,410 | GNMA POOL # 00061 | 12/15/2000 | 8.000% | 402,109 |
| 784,953 | GNMA POOL # 00071 | 09/15/2000 | 8.000% | 523,956 |
| 530,695 | GNMA POOL # 00075 | 12/15/2000 | 8.000% | 354,239 |
| 759,049 | GNMA POOL # 00107 | 12/15/2000 | 8.000% | 506,665 |
| 489,363 | GNMA POOL # 00116 | 02/15/2001 | 8.000% | 326,650 |
| 669,659 | GNMA POOL # 00252 | 02/15/2001 | 8.000% | 446,997 |
| 377,103 | GNMA POOL # 00484 | 03/15/2001 | 7.500% | 244,645 |
| 2,352,410 | GNMA POOL # 00505 | 11/15/2001 | 6.500% | 1,482,018 |
| 2,303,606 | GNMA POOL # 00506 | 12/15/2001 | 6.500% | 1,451,272 |
| 619,740 | GNMA POOL # 02180 | 02/15/2004 | 8.000% | 413,677 |
| 2,479,651 | GNMA POOL # 02290 | 03/15/2003 | 6.500% | 1,562,180 |

MINNESOTA STATE BOARD OF INVESTMENT
 PERMANENT SCHOOL FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|-------------------|------------|--------|-----------------|
| 2,732,627 | GNMA POOL # 02291 | 04/15/2003 | 6.500% | \$1,721,555 |
| 1,259,325 | GNMA POOL # 02292 | 06/15/2003 | 6.500% | 793,375 |
| 2,703,587 | GNMA POOL # 02424 | 04/15/2003 | 6.500% | 1,703,260 |
| 2,691,562 | GNMA POOL # 02548 | 07/15/2003 | 6.500% | 1,695,684 |
| 955,095 | GNMA POOL # 02678 | 11/15/2003 | 8.000% | 637,526 |
| 1,496,668 | GNMA POOL # 02682 | 11/15/2003 | 8.000% | 999,026 |
| 937,902 | GNMA POOL # 03015 | 04/15/2004 | 8.000% | 626,050 |
| 1,473,030 | GNMA POOL # 03291 | 04/15/2004 | 8.000% | 983,248 |
| 828,634 | GNMA POOL # 03487 | 02/15/2004 | 8.000% | 553,113 |
| 390,644 | GNMA POOL # 03627 | 07/15/2004 | 8.250% | 239,566 |
| 25,993 | GNMA POOL # 03738 | 06/15/2004 | 8.000% | 17,350 |
| 1,098,639 | GNMA POOL # 03972 | 07/15/2004 | 8.250% | 673,752 |
| 779,061 | GNMA POOL # 03974 | 11/15/2004 | 9.000% | 551,185 |
| 1,204,341 | GNMA POOL # 03975 | 07/15/2004 | 8.000% | 803,898 |
| 434,393 | GNMA POOL # 03979 | 08/15/2004 | 8.250% | 266,396 |
| 442,795 | GNMA POOL # 04004 | 08/15/2004 | 8.250% | 271,549 |
| 1,176,728 | GNMA POOL # 04092 | 07/15/2004 | 8.250% | 721,640 |
| 369,670 | GNMA POOL # 04145 | 08/15/2004 | 8.250% | 226,704 |
| 507,801 | GNMA POOL # 04472 | 09/15/2004 | 9.000% | 359,269 |
| 35,754 | GNMA POOL # 06039 | 07/15/2005 | 8.000% | 23,866 |
| 24,632 | GNMA POOL # 06560 | 10/15/2005 | 8.000% | 16,442 |
| 502,643 | GNMA POOL # 09113 | 12/15/2005 | 8.000% | 335,514 |
| 463,169 | GNMA POOL # 09680 | 06/15/2006 | 8.250% | 284,043 |
| 690,045 | GNMA POOL # 10351 | 08/15/2006 | 8.000% | 460,605 |
| 674,693 | GNMA POOL # 10887 | 07/15/2006 | 8.250% | 413,762 |
| 758,575 | GNMA POOL # 11127 | 09/15/2006 | 8.000% | 506,349 |
| 555,826 | GNMA POOL # 11299 | 08/15/2006 | 8.000% | 371,014 |
| 3,786,540 | GNMA POOL # 12383 | 02/15/2005 | 8.750% | 2,389,686 |
| 744,597 | GNMA POOL # 12766 | 12/15/2006 | 8.000% | 497,019 |
| 451,049 | GNMA POOL # 13705 | 10/15/2006 | 8.000% | 301,075 |
| 1,524,331 | GNMA POOL # 15976 | 08/15/2007 | 8.000% | 1,017,491 |
| 690,486 | GNMA POOL # 16875 | 08/15/2007 | 8.000% | 460,899 |
| 833,035 | GNMA POOL # 16965 | 11/15/2007 | 8.000% | 556,051 |
| 810,011 | GNMA POOL # 17189 | 07/15/2007 | 8.000% | 540,683 |
| 885,242 | GNMA POOL # 17769 | 08/15/2007 | 8.000% | 590,899 |
| 396,243 | GNMA POOL # 17803 | 11/15/2007 | 8.000% | 264,492 |
| 733,826 | GNMA POOL # 17904 | 08/15/2007 | 8.000% | 489,829 |
| 755,377 | GNMA POOL # 17945 | 12/15/2007 | 8.000% | 504,214 |
| 684,465 | GNMA POOL # 18017 | 07/15/2007 | 8.000% | 456,880 |
| 883,534 | GNMA POOL # 18058 | 07/15/2007 | 8.000% | 589,759 |
| 362,359 | GNMA POOL # 18592 | 11/15/2007 | 8.000% | 241,875 |
| 751,584 | GNMA POOL # 18768 | 08/15/2007 | 8.000% | 501,682 |
| 699,340 | GNMA POOL # 18782 | 10/15/2007 | 8.000% | 466,809 |
| 798,501 | GNMA POOL # 19105 | 07/15/2007 | 8.000% | 532,999 |
| 737,268 | GNMA POOL # 19667 | 01/15/2008 | 8.000% | 492,127 |

MINNESOTA STATE BOARD OF INVESTMENT
 PERMANENT SCHOOL FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|---------------------------|------------|---------|-----------------|
| 746,183 | GNMA POOL # 19740 | 10/15/2007 | 8.000% | \$ 498,077 |
| 4,232,147 | GNMA POOL # 19784 | 09/15/2007 | 8.000% | 2,824,958 |
| 681,769 | GNMA POOL # 19997 | 10/15/2007 | 8.000% | 455,081 |
| 53,554 | GNMA POOL # 20074 | 03/15/2007 | 8.000% | 35,747 |
| 787,476 | GNMA POOL # 20263 | 11/15/2007 | 8.000% | 525,640 |
| 811,724 | GNMA POOL # 20393 | 11/15/2007 | 8.000% | 541,826 |
| 829,543 | GNMA POOL # 20495 | 11/15/2007 | 8.000% | 553,720 |
| 896,484 | GNMA POOL # 21037 | 11/15/2007 | 8.000% | 598,403 |
| 746,663 | GNMA POOL # 21480 | 01/15/2008 | 8.000% | 498,398 |
| 823,832 | GNMA POOL # 21615 | 01/15/2008 | 8.000% | 549,908 |
| 768,937 | GNMA POOL # 21930 | 03/15/2008 | 8.000% | 513,266 |
| 891,477 | GNMA POOL # 22012 | 04/15/2008 | 8.000% | 595,061 |
| 799,753 | GNMA POOL # 22820 | 12/15/2007 | 8.000% | 533,835 |
| 847,427 | GNMA POOL # 24078 | 02/15/2008 | 8.000% | 565,658 |
| 892,384 | GNMA POOL # 24417 | 03/15/2008 | 8.000% | 595,667 |
| 4,206,204 | GNMA POOL # 27638 | 10/15/2008 | 9.000% | 2,975,889 |
| 4,496,877 | GNMA POOL # 35014 | 02/15/2010 | 11.000% | 3,653,713 |
| 1,975,796 | GNMA POOL # 40589 | 03/15/2010 | 11.000% | 1,605,334 |
| 1,827,219 | GNMA POOL # 42691 | 08/15/2010 | 11.000% | 1,484,616 |
| 2,665,721 | GNMA POOL # 43596 | 10/15/2010 | 11.500% | 2,245,870 |
| 4,000,000 | KANSAS POWER & LIGHT | 06/01/2007 | 8.125% | 2,337,200 |
| 3,140,827 | LNMA ACCEPTANCE CORP | 12/01/1986 | 9.100% | 2,869,114 |
| 1,977,473 | MARLIN DRILLING CO | 01/01/1991 | 8.900% | 1,85,874 |
| 984,000 | MATSON NAVIGATION CO | 11/10/1994 | 7.500% | 644,264 |
| 1,205,000 | MCI COMMUNICATIONS CV. | 03/15/2003 | 7.750% | 723,000 |
| 2,500,000 | MICHIGAN BELL TELEPHONE | 06/01/2015 | 8.125% | 1,415,350 |
| 2,607,000 | MOORE-MCCORMACK LEASING | 07/15/2001 | 8.875% | 1,738,061 |
| 648,000 | MOORE-MCCORMACK LINES | 04/01/1987 | 5.750% | 560,209 |
| 3,000,000 | MOUNTAIN STATES TEL & TEL | 06/01/2013 | 7.750% | 1,622,070 |
| 30,000 | MOWER/FREEBORN SD 90 | 07/01/1986 | 3.000% | 26,276 |
| 355,000 | NATL MED ENTERPRISE CV. | 11/15/2001 | 12.625% | 367,425 |
| 2,500,000 | NORTHERN STATES POWER | 01/01/2004 | 8.375% | 1,539,625 |
| 1,904,800 | NORTON SIMON, INC | 06/01/2004 | 9.875% | 1,334,598 |
| 1,500,000 | NORWEST CORP | 03/15/2003 | 7.750% | 853,800 |
| 3,000,000 | NORWEST CORP | 09/15/1986 | 7.875% | 2,665,740 |
| 1,500,000 | NORWEST CORP | 10/15/1990 | 5.125% | 990,375 |
| 1,000,000 | OWENS ILLINOIS INC | 06/01/1990 | 10.375% | 851,930 |
| 1,543,000 | PACIFIC FAR EAST LINE | 02/01/1997 | 8.750% | 1,066,290 |
| 914,500 | PENN TANKER CO | 11/10/1989 | 6.000% | 664,073 |
| 1,632,000 | PRUDENTIAL LINES INC | 11/01/1995 | 6.000% | 902,904 |
| 1,855,000 | PUGET SOUND TUG & BARGE | 02/15/2001 | 9.125% | 1,265,815 |
| 148,500 | SBA POOL # 3004 | 05/15/2004 | 11.700% | 148,500 |
| 268,216 | SBA POOL # 3009 | 12/19/2003 | 11.700% | 268,216 |
| 66,780 | SBA POOL # 3005A | 04/13/1999 | 11.700% | 66,780 |
| 100,470 | SBA POOL # 3005B | 03/25/1999 | 11.700% | 100,470 |

MINNESOTA STATE BOARD OF INVESTMENT
 PERMANENT SCHOOL FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|----------------------|--------------------------|------------|---------|-----------------|
| 109,296 | SBA POOL - SULLIVAN | 05/10/1991 | 11.700% | \$ 109,296 |
| 37,800 | SBA POOL - WAGNER | 04/02/1999 | 11.700% | 37,800 |
| 4,000,000 | SOUTHERN BELL TEL & TEL | 03/15/2013 | 7.625% | 2,160,480 |
| 1,000,000 | SPRAGUE ELECTRIC CO | 09/01/1988 | 4.375% | 696,000 |
| 820,448 | STANDARD OIL OF CALIF | 09/07/1997 | 7.700% | 509,785 |
| 820,448 | STANDARD OIL OF CALIF | 09/08/1997 | 7.700% | 509,761 |
| 820,448 | STANDARD OIL OF CALIF | 11/06/1997 | 7.700% | 508,423 |
| 878,000 | STATES STEAMSHIP CO | 03/31/1993 | 5.100% | 501,733 |
| 3,000,000 | TEXAS POWER & LIGHT | 02/01/2009 | 9.375% | 1,966,740 |
| 1,000,000 | U.S.A. TREASURY BOND | 02/15/2007 | 7.625% | 582,500 |
| 2,000,000 | U.S.A. TREASURY BOND | 11/15/2010 | 12.750% | 1,857,500 |
| 2,000,000 | U.S.A. TREASURY BOND | 11/15/1995 | 11.500% | 1,737,500 |
| 50,000 | U.S.A. TREASURY BOND | 11/15/1998 | 3.500% | 44,938 |
| 3,000,000 | U.S.A. TREASURY BOND | 02/15/2001 | 11.750% | 2,593,110 |
| 69,000 | U.S.A. TREASURY BOND | 08/15/1984 | 6.375% | 68,676 |
| 2,000,000 | U.S.A. TREASURY BOND | 11/15/1993 | 8.625% | 1,463,740 |
| 15,000,000 | U.S.A. TREASURY NOTE | 10/15/1989 | 11.875% | 13,968,750 |
| 5,000,000 | U.S.A. TREASURY NOTE | 04/30/1985 | 9.500% | 4,901,550 |
| 40,000 | U.S.A. TREASURY NOTE | 11/15/1987 | 7.625% | 34,300 |
| 11,000 | U.S.A. TREASURY NOTE | 02/15/1985 | 8.000% | 10,780 |
| 50,000 | U.S.A. TREASURY NOTE | 05/15/1986 | 7.875% | 45,860 |
| 2,000,000 | U.S.A. TREASURY NOTE | 02/15/1987 | 9.000% | 1,815,620 |
| 40,000 | U.S.A. TREASURY NOTE | 05/15/198 | 12.000% | 38,825 |
| 90,000 | U.S.A. TREASURY NOTE | 08/15/1986 | 8.000% | 81,815 |
| 2,000,000 | U.S.A. TREASURY NOTE | 11/15/1989 | 10.750% | 1,780,000 |
| 2,985,261 | US DEPT OF AGRICULTURE | 07/31/1985 | 8.625% | 2,847,193 |
| 20,000 | WAD/OTTERTL JICSD 291 | 07/01/1986 | 3.000% | 17,518 |
| 2,176,246 | WESTERN CO OF NORTH AMER | 06/11/1990 | 9.250% | 1,775,490 |
| 3,000,000 | ZAPATA OFF-SHORE CO | 06/15/1996 | 8.625% | 2,072,550 |
| TOTAL BOND PORTFOLIO | | | | \$175,683,473 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------|--------------------------|---------------------|-----------------|
| 41,800 | A & M FOOD SERVICES | HERBERT R. SMITH | \$ 240,350 |
| 50,000 | ABBOTT LABS | LOOMIS SAYLES | 2,181,250 |
| 20,000 | ADVANCED MICRO DEV | HELLMAN JORDAN | 615,000 |
| 60,000 | AHMANSON H.F. CO | INVESTMENT ADVISORS | 1,117,500 |
| 39,900 | AIR MIDWEST INC | HERBERT R. SMITH | 458,850 |
| 16,500 | AIRCAL INC | HERBERT R. SMITH | 148,500 |
| 7,000 | ALCAN ALUMINUM LTD | HELLMAN JORDAN | 190,750 |
| 30,000 | ALEXANDER & ALEXANDER | HELLMAN JORDAN | 570,000 |
| 140,000 | ALLEGHENY INTERNATIONAL | BEUTEL GOODMAN | 2,905,000 |
| 55,866 | ALLIANCE TECHNOLOGY FUND | ALLIANCE CAPITAL | 901,620 |
| 35,000 | ALUMINUM CO OF AMERICA | HELLMAN JORDAN | 1,190,000 |
| 75,000 | AMER. GEN. CORP PFD 2.64 | BEUTEL GOODMAN | 3,140,625 |
| 31,000 | | HELLMAN JORDAN | 1,298,125 |
| 17,900 | | SIEBEL CAPITAL | 749,563 |
| | SUB-TOTAL | 123,900 SHARES | 5,188,313 |
| 63,100 | AMER. MEDICAL INT'L | FRED ALGER | 1,451,300 |
| 47,000 | | SIEBEL CAPITAL | 1,081,000 |
| | SUB-TOTAL | 110,100 SHARES | 2,532,300 |
| 14,400 | AMERADA HESS CORP | HERBERT R. SMITH | 405,000 |
| 9,000 | AMERICAN BROADCASTING CO | FORSTMANN LEFF | 564,750 |
| 40,000 | AMERICAN EXPRESS CO | FORSTMANN LEFF | 1,150,000 |
| 40,000 | | INVESTMENT ADVISORS | 1,150,000 |
| 11,000 | | SIEBEL CAPITAL | 316,250 |
| | SUB-TOTAL | 91,000 SHARES | 2,616,250 |
| 54,000 | AMERICAN GREETINGS | FRED ALGER | 1,545,750 |
| 25,000 | AMERICAN HOSPITAL SUPPLY | INVESTMENT ADVISORS | 778,125 |
| 40,000 | AMERICAN STANDARD INC | INVESTMENT ADVISORS | 995,000 |
| 25,000 | AMERICAN STORES CO NEW | IDS ADVISORY | 809,375 |
| 18,000 | AMERITECH CORP | IDS ADVISORY | 1,170,000 |
| 44,400 | AMETEK INC | IDS ADVISORY | 1,176,600 |
| 45,000 | AMP INC | FRED ALGER | 1,440,000 |
| 30,000 | | ALLIANCE CAPITAL | 960,000 |
| 90,000 | | LOOMIS SAYLES | 2,880,000 |
| | SUB-TOTAL | 165,000 SHARES | 5,280,000 |
| 43,000 | AMR CORP | ALLIANCE CAPITAL | 1,311,500 |
| 19,000 | | FORSTMANN LEFF | 579,500 |
| 31,000 | | INVESTMENT ADVISORS | 945,500 |
| 70,000 | | LOOMIS SAYLES | 2,135,000 |
| | SUB-TOTAL | 163,000 SHARES | 4,971,500 |
| 60,000 | ARCHER DANIELS MIDLAND | HELLMAN JORDAN | 1,057,500 |
| 20,000 | ARKLA INCORPORATED | INVESTMENT ADVISORS | 395,000 |
| 70,000 | | TRUSTEE & INVESTORS | 1,382,500 |
| | SUB-TOTAL | 90,000 SHARES | 1,777,500 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------|--------------------------|---------------------|-----------------|
| 15,000 | ATLANTIC RICHFIELD | INVESTMENT ADVISORS | \$ 682,500 |
| 15,000 | | TRUSTEE & INVESTORS | 682,500 |
| | SUB-TOTAL | 30,000 SHARES | 1,365,000 |
| 26,500 | AUXTON COMP. ENTERPRISES | HERBERT R. SMITH | 324,625 |
| 110,000 | AVCO CORP | BEUTEL GOODMAN | 3,272,500 |
| 54,500 | | SIEBEL CAPITAL | 1,621,375 |
| | SUB-TOTAL | 164,500 SHARES | 4,893,875 |
| 12,600 | BANK OF VIRGINIA | HERBERT R. SMITH | 456,750 |
| 70,000 | BAXTER TRAVENOL LABS | INVESTMENT ADVISORS | 1,076,250 |
| 34,700 | BAYLY CORP | HERBERT R. SMITH | 303,625 |
| 16,000 | BELL ATLANTIC CORP | IDS ADVISORY | 1,086,000 |
| 20,000 | BERGEN BRUNSWIG CORP | SIEBEL CAPITAL | 445,000 |
| 35,000 | BEVERLY ENTERPRISES | INVESTMENT ADVISORS | 958,125 |
| 25,000 | | SIEBEL CAPITAL | 684,375 |
| | SUB-TOTAL | 60,000 SHARES | 1,642,500 |
| 26,000 | BLOCK H & R INC | SIEBEL CAPITAL | 1,020,500 |
| 41,500 | BOEING CO | FRED ALGER | 1,815,625 |
| 29,000 | | ALLIANCE CAPITAL | 1,268,750 |
| 17,000 | | IDS ADVISORY | 743,750 |
| 30,000 | | TRUSTEE & INVESTORS | 1,312,500 |
| | SUB-TOTAL | 117,500 SHARES | 5,140,625 |
| 30,000 | BOISE CASCADE CORP | INVESTMENT ADVISORS | 1,023,750 |
| 15,000 | BRUNSWICK CORP | HELLMAN JORDAN | 438,750 |
| 30,000 | BURLINGTON INDUSTRIES | FORSTMANN LEFF | 791,250 |
| 16,000 | | HERBERT R. SMITH | 422,000 |
| | SUB-TOTAL | 46,000 SHARES | 1,213,250 |
| 29,500 | BURLINGTON NORTHERN INC | FRED ALGER | 1,187,375 |
| 12,000 | | IDS ADVISORY | 483,000 |
| | SUB-TOTAL | 41,500 SHARES | 1,670,375 |
| 21,000 | BURROUGHS CORP | IDS ADVISORY | 1,118,250 |
| 7,700 | | HERBERT R. SMITH | 410,025 |
| | SUB-TOTAL | 28,700 SHARES | 1,528,275 |
| 16,100 | CARNATION | HERBERT R. SMITH | 961,975 |
| 70,100 | CARSON PIRIE & CO | SIEBEL CAPITAL | 2,646,275 |
| 70,000 | CATERPILLAR TRACTOR CO | HELLMAN JORDAN | 525,000 |
| 25,000 | CELANESE CORP | FRED ALGER | 1,618,750 |
| 7,500 | | FORSTMANN LEFF | 485,625 |
| | SUB-TOTAL | 32,500 SHARES | 2,104,375 |
| 15,700 | CENTEX CORP | HERBERT R. SMITH | 380,725 |
| 57,200 | CENTRAL & SO WEST CORP | FORSTMANN LEFF | 1,015,300 |
| 54,000 | CHAMPION INTERNATIONAL | INVESTMENT ADVISORS | 1,046,250 |
| 65,000 | CHASE MANHATTAN CORP | BEUTEL GOODMAN | 2,559,375 |
| 29,000 | | TRUSTEE & INVESTORS | 1,141,875 |
| | SUB-TOTAL | 94,000 SHARES | 3,701,250 |
| 37,500 | CHEMICAL NEW YORK CORP | INVESTMENT ADVISORS | 900,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------|---------------------------|---------------------|-----------------|
| 55,000 | CHRYSLER CORP | ALLIANCE CAPITAL | \$ 1,375,000 |
| 100,000 | | LOOMIS SAYLES | 2,500,000 |
| | SUB-TOTAL | 155,000 SHARES | 3,875,000 |
| 20,300 | CHUBB CORP | HERBERT R. SMITH | 933,800 |
| 17,000 | CIGNA CORP | FRED ALGER | 533,375 |
| 40,000 | CITICORP | INVESTMENT ADVISORS | 1,225,000 |
| 40,000 | | TRUSTEE & INVESTORS | 1,225,000 |
| | SUB-TOTAL | 80,000 SHARES | 2,450,000 |
| 21,600 | CITIZENS & SOUTHN GA CORP | HERBERT R. SMITH | 294,300 |
| 24,600 | CLOROX CO | HERBERT R. SMITH | 658,050 |
| 17,200 | COCA COLA CO | HERBERT R. SMITH | 991,150 |
| 145,000 | COLGATE PALMOLIVE | BEUTEL GOODMAN | 3,335,000 |
| 17,400 | | HERBERT R. SMITH | 400,200 |
| | SUB-TOTAL | 162,400 SHARES | 3,735,200 |
| 19,300 | COLONIAL PENN GROUP | HERBERT R. SMITH | 547,638 |
| 46,600 | COMMONWEALTH EDISON CO | IDS ADVISORY | 1,060,150 |
| 51,000 | COMPUTER SCIENCES CORP | SIEBEL CAPITAL | 663,000 |
| 30,000 | COMPUTER VISION CORP | TRUSTEE & INVESTORS | 1,162,500 |
| 60,000 | CONAGRA INC | IDS ADVISORY | 2,280,000 |
| 25,000 | CONSOL. NAT. GAS | IDS ADVISORY | 868,750 |
| 74,900 | CONTINENTAL TELECOM. INC | TRUSTEE & INVESTORS | 1,432,463 |
| 56,600 | CONTL. AIR | HERBERT R. SMITH | 360,825 |
| 63,500 | CONTL. AIR 9% CV PFD | HERBERT R. SMITH | 492,125 |
| 45,000 | CONTROL DATA CORP | INVESTMENT ADVISORS | 1,389,375 |
| 48,400 | CONVERGENT TECH. | FORSTMANN LEFF | 653,400 |
| 19,100 | CORNING GLASS WORKS | FRED ALGER | 1,217,625 |
| 25,000 | COX COMMUNICATIONS INC | ALLIANCE CAPITAL | 1,321,875 |
| 20,900 | CPC INTERNATIONAL INC | FORSTMANN LEFF | 770,688 |
| 7,000 | CROWN ZELLERBACH CORP | HELLMAN JORDAN | 215,250 |
| 45,000 | CSX CORP | FORSTMANN LEFF | 933,750 |
| 35,000 | | IDS ADVISORY | 726,250 |
| | SUB-TOTAL | 80,000 SHARES | 1,660,000 |
| 31,200 | CUMMINS ENGINE CO | FRED ALGER | 2,242,500 |
| 66,000 | | BEUTEL GOODMAN | 4,743,750 |
| 20,000 | | LOOMIS SAYLES | 1,437,500 |
| 5,100 | | HERBERT R. SMITH | 366,563 |
| | SUB-TOTAL | 122,300 SHARES | 8,790,313 |
| 60,000 | DAMON CORP | FRED ALGER | 855,000 |
| 9,000 | DART & KRAFT INC | IDS ADVISORY | 709,875 |
| 45,000 | DATA GENERAL CORP | LOOMIS SAYLES | 2,115,000 |
| 58,500 | DAYTON HUDSON CORP | ALLIANCE CAPITAL | 1,835,438 |
| 40,000 | | INVESTMENT ADVISORS | 1,255,000 |
| | SUB-TOTAL | 98,500 SHARES | 3,090,438 |
| 35,000 | DELTA AIR LINES INC | HELLMAN JORDAN | 1,076,250 |
| 62,000 | DETROIT EDISON CO | IDS ADVISORY | 782,750 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------|--------------------------|---------------------|-----------------|
| 46,000 | DIAMOND SHAMROCK | HELLMAN JORDAN | \$ 851,000 |
| 11,500 | DIGITAL EQUIPMENT CORP | FORSTMANN LEFF | 966,000 |
| 25,000 | | LOOMIS SAYLES | 2,100,000 |
| 15,300 | | TRUSTEE & INVESTORS | 1,285,200 |
| | SUB-TOTAL | 51,800 SHARES | 4,351,200 |
| 17,800 | DIGITAL SWITCH | HELLMAN JORDAN | 407,175 |
| 16,800 | | TRUSTEE & INVESTORS | 384,300 |
| | SUB-TOTAL | 34,600 SHARES | 791,475 |
| 55,000 | DIVERSIFOODS INC | SIEBEL CAPITAL | 763,125 |
| 22,200 | DONALDSON LUFKIN & JEN | HERBERT R. SMITH | 432,900 |
| 51,000 | DONNELLEY RR & SONS | ALLIANCE CAPITAL | 2,014,500 |
| 50,000 | DOW CHEMICAL CO | INVESTMENT ADVISORS | 1,400,000 |
| 45,000 | DOW JONES & CO | ALLIANCE CAPITAL | 1,985,625 |
| 26,200 | DUN & BRADSTREET COS INC | FRED ALGER | 1,552,350 |
| 23,000 | | IDS ADVISORY | 1,362,750 |
| | SUB-TOTAL | 49,200 SHARES | 2,915,100 |
| 23,000 | EASTMAN KODAK CO | FRED ALGER | 1,592,750 |
| 15,000 | | INVESTMENT ADVISORS | 1,038,750 |
| 21,000 | | TRUSTEE & INVESTORS | 1,454,250 |
| | SUB-TOTAL | 59,000 SHARES | 4,085,750 |
| 40,000 | EATON CORP | LOOMIS SAYLES | 1,640,000 |
| 12,200 | ELECTRONIC DATA SYS CORP | HERBERT R. SMITH | 510,875 |
| 25,000 | EXXON CORP | IDS ADVISORY | 1,018,750 |
| 21,700 | | HERBERT R. SMITH | 884,275 |
| | SUB-TOTAL | 46,700 SHARES | 1,903,025 |
| 23,000 | FARMERS GROUP INC | IDS ADVISORY | 885,500 |
| 40,000 | FEDERAL EXPRESS CORP | ALLIANCE CAPITAL | 1,395,000 |
| 60,000 | | LOOMIS SAYLES | 2,092,500 |
| | SUB-TOTAL | 100,000 SHARES | 3,487,500 |
| 45,000 | FEDERAL NATL. MTG. | ALLIANCE CAPITAL | 568,125 |
| 45,000 | | SIEBEL CAPITAL | 568,125 |
| | SUB-TOTAL | 90,000 SHARES | 1,136,250 |
| 70,000 | FIN. CORP OF AMERICA | HELLMAN JORDAN | 735,000 |
| 83,000 | FIRST INTERSTATE BANCORP | BEUTEL GOODMAN | 2,604,125 |
| 18,000 | FLUOR CORP | HELLMAN JORDAN | 308,250 |
| 41,900 | FORD MOTOR CO | HELLMAN JORDAN | 1,513,638 |
| 35,000 | | IDS ADVISORY | 1,264,375 |
| 34,000 | | INVESTMENT ADVISORS | 1,228,250 |
| 75,000 | | LOOMIS SAYLES | 2,709,375 |
| | SUB-TOTAL | 185,900 SHARES | 6,715,638 |
| 30,000 | FOREMOST CORP OF AMERICA | SIEBEL CAPITAL | 742,500 |
| 39,700 | FRUEHAUF CORP | FRED ALGER | 1,210,850 |
| 45,000 | GANNETT INC | ALLIANCE CAPITAL | 1,878,750 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------|---------------------------|---------------------|-----------------|
| 31,400 | GENERAL ELECTRIC CO | FRED ALGER | \$ 1,648,500 |
| 33,000 | | INVESTMENT ADVISORS | 1,732,500 |
| 25,000 | | SIEBEL CAPITAL | 1,312,500 |
| | SUB-TOTAL | 89,400 SHARES | 4,693,500 |
| 14,000 | GENERAL MOTORS CORP | FRED ALGER | 915,250 |
| 34,000 | | ALLIANCE CAPITAL | 2,222,750 |
| 31,700 | | HELLMAN JORDAN | 2,072,388 |
| 26,000 | | INVESTMENT ADVISORS | 1,699,750 |
| | SUB-TOTAL | 105,700 SHARES | 6,910,138 |
| 108,600 | GENERAL PUBLIC UTIL. CORP | TRUSTEE & INVESTORS | 977,400 |
| 35,000 | GENERAL RE CORP | LOOMIS SAYLES | 2,008,125 |
| 22,000 | GENERAL SIGNAL CORP | INVESTMENT ADVISORS | 962,500 |
| 62,100 | GENSTAR LTD. | TRUSTEE & INVESTORS | 1,040,175 |
| 5,000 | GENUINE PARTS CO | FORSTMANN LEFF | 137,500 |
| 43,300 | GEORGIA PACIFIC CORP | FORSTMANN LEFF | 822,700 |
| 33,800 | GOODYEAR TIRE & RUBBER | FORSTMANN LEFF | 870,350 |
| 40,000 | GOULD INC | TRUSTEE & INVESTORS | 1,050,000 |
| 32,500 | GR. AMER. FED. SVGS. BANK | INVESTMENT ADVISORS | 292,500 |
| 45,000 | GREAT NORTHN NEKOOSA CORP | LOOMIS SAYLES | 1,530,000 |
| 34,000 | GRUMMAN CORP | TRUSTEE & INVESTORS | 884,000 |
| 29,000 | GUILFORD MILLS | HERBERT R. SMITH | 616,250 |
| 85,000 | GULF & WESTERN IND | FRED ALGER | 2,486,250 |
| 28,900 | | HERBERT R. SMITH | 845,325 |
| 40,600 | | TRUSTEE & INVESTORS | 1,187,550 |
| | SUB-TOTAL | 154,500 SHARES | 4,519,125 |
| 10,000 | HALLIBURTON INC | HELLMAN JORDAN | 336,250 |
| 25,000 | | TRUSTEE & INVESTORS | 840,625 |
| | SUB-TOTAL | 35,000 SHARES | 1,176,875 |
| 71,700 | HECLA INC | TRUSTEE & INVESTORS | 1,209,938 |
| 35,000 | HERCULES INC | IDS ADVISORY | 1,045,625 |
| 8,000 | HEWLETT PACKARD CO | HELLMAN JORDAN | 292,000 |
| 35,000 | | TRUSTEE & INVESTORS | 1,277,500 |
| | SUB-TOTAL | 43,000 SHARES | 1,569,500 |
| 16,500 | HOLIDAY INNS | FORSTMANN LEFF | 709,500 |
| 20,000 | HOME DEPOT INC | IDS ADVISORY | 452,500 |
| 18,200 | HONEYWELL INC | FORSTMANN LEFF | 962,325 |
| 8,000 | HOUSTON NAT. GAS CORP | HELLMAN JORDAN | 385,000 |
| 8,000 | | HERBERT R. SMITH | 385,000 |
| 8,000 | | TRUSTEE & INVESTORS | 385,000 |
| | SUB-TOTAL | 24,000 SHARES | 1,155,000 |
| 52,100 | HUGHES TOOL | TRUSTEE & INVESTORS | 827,088 |
| 28,500 | HUMANA INC | FORSTMANN LEFF | 758,813 |
| 16,600 | | HERBERT R. SMITH | 441,975 |
| | SUB-TOTAL | 45,100 SHARES | 1,200,788 |
| 48,600 | ILLINOIS POWER CORP | HELLMAN JORDAN | 899,100 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------|--------------------------|---------------------|-----------------|
| 33,000 | INTEGRATED RESOURCES INC | SIEBEL CAPITAL | \$ 701,250 |
| 41,500 | INTEL CORP | ALLIANCE CAPITAL | 1,255,375 |
| 39,000 | | TRUSTEE & INVESTORS | 1,179,750 |
| | SUB-TOTAL | 80,500 | 2,435,125 |
| 20,000 | INTERGRAPH CORP | IDS ADVISORY | 870,000 |
| 50,000 | | LOOMIS SAYLES | 2,175,000 |
| | SUB-TOTAL | 70,000 SHARES | 3,045,000 |
| 20,000 | INTL. BUSINESS MACHINES | FRED ALGER | 2,115,000 |
| 22,000 | | ALLIANCE CAPITAL | 2,326,500 |
| 15,000 | | HELLMAN JORDAN | 1,586,250 |
| 18,000 | | IDS ADVISORY | 1,903,500 |
| 20,000 | | INVESTMENT ADVISORS | 2,115,000 |
| 26,291 | | SIEBEL CAPITAL | 2,780,273 |
| | SUB-TOTAL | 121,291 SHARES | 12,826,523 |
| 19,000 | INTL. PAPER CO | HELLMAN JORDAN | 923,875 |
| 12,000 | JEFFERSON PILOT CORP | SIEBEL CAPITAL | 363,000 |
| 31,000 | JOHNSON & JOHNSON | FORSTMANN LEFF | 930,000 |
| 21,900 | JWT GROUP INC | SIEBEL CAPITAL | 810,300 |
| 49,300 | K MART CORP | FRED ALGER | 1,528,300 |
| 70,000 | | FORSTMANN LEFF | 2,170,000 |
| | SUB-TOTAL | 119,300 | 3,698,300 |
| 41,800 | KASLER CORP | HERBERT R. SMITH | 627,000 |
| 36,400 | KENTRON INTL. INC | HERBERT R. SMITH | 154,700 |
| 38,000 | KNIGHT RIDDER INC | IDS ADVISORY | 1,030,750 |
| 285,000 | LAFARGE CORP | BEUTEL GOODMAN | 2,956,875 |
| 20,200 | LEVI STRAUSS & CO | IDS ADVISORY | 578,225 |
| 40,000 | LEVITZ FURNITURE | FRED ALGER | 1,200,000 |
| 40,000 | LIMITED INC | ALLIANCE CAPITAL | 780,000 |
| 70,000 | LIN BROADCAST. CORP | ALLIANCE CAPITAL | 1,513,750 |
| 11,800 | LITTON INDS INC | HERBERT R. SMITH | 867,300 |
| 35,000 | LOCKHEED AIRCRAFT CORP | IDS ADVISORY | 1,373,750 |
| 60,000 | | LOOMIS SAYLES | 2,355,000 |
| 25,000 | | SIEBEL CAPITAL | 981,250 |
| 13,200 | | HERBERT R. SMITH | 518,100 |
| 14,800 | | TRUSTEE & INVESTORS | 580,900 |
| | SUB-TOTAL | 148,000 SHARES | 5,809,000 |
| 19,800 | LOEWS CORP | FRED ALGER | 1,593,900 |
| 9,900 | | SIEBEL CAPITAL | 796,950 |
| | SUB-TOTAL | 29,700 SHARES | 2,390,850 |
| 16,000 | LOGICON INC | SIEBEL CAPITAL | 364,000 |
| 24,800 | LONE STAR INDUSTRIES | TRUSTEE & INVESTORS | 489,800 |
| 18,600 | LOUISIANA LD & EXPL CO | HERBERT R. SMITH | 546,375 |
| 180,400 | LTV CORP | BEUTEL GOODMAN | 2,142,250 |
| 30,000 | | HELLMAN JORDAN | 356,250 |
| | SUB-TOTAL | 210,400 SHARES | 2,498,500 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------|----------------------------|---------------------|-----------------|
| 28,080 | LTV CORP CV PFD 1.25 SER.D | BEUTEL GOODMAN | \$ 449,280 |
| 26,200 | LUBRIZOL CORP | IDS ADVISORY | 569,850 |
| 21,700 | M/A COM | TRUSTEE & INVESTORS | 396,025 |
| 43,700 | MACHINE TECHNOLOGY | HERBERT R. SMITH | 284,050 |
| 67,000 | MACK TRUCKS INC | IDS ADVISORY | 1,030,125 |
| 30,000 | MACY R.H. & CO | ALLIANCE CAPITAL | 1,462,500 |
| 16,100 | | SIEBEL CAPITAL | 784,875 |
| | SUB-TOTAL | 46,100 SHARES | 2,247,375 |
| 10,000 | MANUFACTURERS HANOVER CORP | TRUSTEE & INVESTORS | 247,500 |
| 10,000 | MARRIOTT CORP | INVESTMENT ADVISORS | 681,250 |
| 20,000 | MARSH & MCCLENNAN | IDS ADVISORY | 870,000 |
| 5,000 | MATH. APPLICATION GROUP | HERBERT R. SMITH | 30,000 |
| 7,300 | MAY DEPT. STORES CO | HERBERT R. SMITH | 413,363 |
| 40,000 | MCA INC | ALLIANCE CAPITAL | 1,740,000 |
| 28,900 | MCDONALDS CORP | FRED ALGER | 1,983,263 |
| 17,400 | | FORSTMANN LEFF | 1,194,075 |
| 22,000 | | INVESTMENT ADVISORS | 1,509,750 |
| | SUB-TOTAL | 68,300 SHARES | 4,687,088 |
| 26,800 | MCGRAW HILL INC | FRED ALGER | 1,139,000 |
| 34,000 | | TRUSTEE & INVESTORS | 1,445,000 |
| | SUB-TOTAL | 60,800 SHARES | 2,584,000 |
| 95,000 | MCI COMMUNICATION | ALLIANCE CAPITAL | 712,500 |
| 3,000 | MELRIDGE INC | HERBERT R. SMITH | 23,625 |
| 11,400 | MELVILLE CORP | HERBERT R. SMITH | 408,975 |
| 30,000 | MERCANTILE TEXAS CORP | IDS ADVISORY | 607,500 |
| 30,000 | | SIEBEL CAPITAL | 607,500 |
| | SUB-TOTAL | 60,000 SHARES | 1,215,000 |
| 13,000 | MEREDITH CORP | SIEBEL CAPITAL | 562,250 |
| 25,000 | MERRILL LYNCH & CO INC | HELLMAN JORDAN | 671,875 |
| 51,000 | | TRUSTEE & INVESTORS | 1,370,625 |
| | SUB-TOTAL | 76,000 SHARES | 2,042,500 |
| 50,000 | MILLER HERMAN INC | IDS ADVISORY | 1,237,500 |
| 102,100 | MIN. & RES. LTD. ADR | TRUSTEE & INVESTORS | 791,275 |
| 50,000 | MOBIL CORP | TRUSTEE & INVESTORS | 1,325,000 |
| 54,000 | MONSANTO CO | BEUTEL GOODMAN | 2,335,500 |
| 10,000 | | HELLMAN JORDAN | 432,500 |
| | SUB-TOTAL | 64,000 SHARES | 2,768,000 |
| 20,000 | MORGAN J P & CO INC | INVESTMENT ADVISORS | 1,242,500 |
| 45,600 | MOTOROLA INC | FRED ALGER | 1,521,900 |
| 45,000 | | ALLIANCE CAPITAL | 1,501,875 |
| 36,000 | | IDS ADVISORY | 1,201,500 |
| 6,000 | | SIEBEL CAPITAL | 200,250 |
| 42,000 | | TRUSTEE & INVESTORS | 1,401,750 |
| | SUB-TOTAL | 174,600 SHARES | 5,827,275 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------|----------------------------|---------------------|-----------------|
| 45,000 | MULTIMEDIA INC | ALLIANCE CAPITAL | \$ 1,743,750 |
| 5,000 | NATIONAL BANKSHARES CORP | HERBERT R. SMITH | 106,250 |
| 25,600 | NATIONAL MED CARE INC | HERBERT R. SMITH | 348,800 |
| 63,300 | NATL. SEMICONDUCTOR | FORSTMANN LEFF | 775,425 |
| 60,000 | NCR CORP | FRED ALGER | 1,470,000 |
| 56,000 | | FORSTMANN LEFF | 1,372,000 |
| | SUB-TOTAL | 116,000 SHARES | 2,842,000 |
| 20,000 | NORTHERN TELECOM LTD | ALLIANCE CAPITAL | 672,500 |
| 4,600 | NORTHROP CORP | HERBERT R. SMITH | 427,800 |
| 45,000 | NORTHWEST AIRLINES | ALLIANCE CAPITAL | 1,659,375 |
| 13,000 | | FORSTMANN LEFF | 479,375 |
| | SUB-TOTAL | 58,000 SHARES | 2,138,750 |
| 40,000 | NORWEST CORP | INVESTMENT ADVISORS | 1,005,000 |
| 50,800 | NOVAR ELECTRONICS | HERBERT R. SMITH | 482,600 |
| 25,000 | NYNEX | INVESTMENT ADVISORS | 1,512,500 |
| 23,300 | OVERNITE TRANSPORT | HERBERT R. SMITH | 460,175 |
| 7,000 | PACIFIC TELESIS GROUP | HELLMAN JORDAN | 380,625 |
| 13,000 | PAINE WEBBER | FRED ALGER | 396,500 |
| 20,000 | PENN CENTRAL CORP | SIEBEL CAPITAL | 925,000 |
| 10,300 | | HERBERT R. SMITH | 476,375 |
| | SUB-TOTAL | 30,300 SHARES | 1,401,375 |
| 36,000 | PENNSYLVANIA PWR & LT CO | IDS ADVISORY | 769,500 |
| 18,100 | PENNZOIL CO | TRUSTEE & INVESTORS | 585,988 |
| 31,800 | PFIZER INC | HELLMAN JORDAN | 1,041,450 |
| 53,000 | | INVESTMENT ADVISORS | 1,735,750 |
| 30,000 | | SIEBEL CAPITAL | 982,500 |
| | SUB-TOTAL | 114,800 SHARES | 3,759,700 |
| 10,000 | PHELPS DODGE CORP PFD \$5 | HELLMAN JORDAN | 435,000 |
| 24,000 | PHIBRO-SALOMON | ALLIANCE CAPITAL | 642,000 |
| 30,000 | | FORSTMANN LEFF | 802,500 |
| 20,000 | | HELLMAN JORDAN | 535,000 |
| 40,000 | | INVESTMENT ADVISORS | 1,070,000 |
| 50,000 | | TRUSTEE & INVESTORS | 1,337,500 |
| | SUB-TOTAL | 164,000 SHARES | 4,387,000 |
| 11,300 | PHILLIPS PETROLEUM CO | HERBERT R. SMITH | 401,150 |
| 38,000 | PIER 1 IMPORTS | HERBERT R. SMITH | 650,750 |
| 15,540 | PIER I IMPORTS WTS 7/15/88 | HERBERT R. SMITH | 69,930 |
| 40,000 | PIONEER HI-BRED INT'L | INVESTMENT ADVISORS | 1,040,000 |
| 34,800 | PITNEY BOWES INC | INVESTMENT ADVISORS | 1,200,600 |
| 30,000 | PROGRESSIVE CORP OHIO | ALLIANCE CAPITAL | 937,500 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------|--------------------------|---------------------|-----------------|
| 5,100 | RALSTON PURINA CO | IDS ADVISORY | \$ 154,913 |
| 27,800 | | HERBERT R. SMITH | 844,425 |
| | SUB-TOTAL | 32,900 SHARES | 999,338 |
| 40,000 | RAYTHEON CO | INVESTMENT ADVISORS | 1,520,000 |
| 39,000 | | TRUSTEE & INVESTORS | 1,482,000 |
| | SUB-TOTAL | 79,000 SHARES | 3,002,000 |
| 47,000 | RCA CORP | FRED ALGER | 1,486,375 |
| 36,900 | | FORSTMANN LEFF | 1,166,963 |
| 15,000 | | SIEBEL CAPITAL | 474,375 |
| | SUB-TOTAL | 98,900 SHARES | 3,127,713 |
| 93,750 | RLC CORP | HERBERT R. SMITH | 773,438 |
| 43,000 | ROCKWELL INTL CORP | TRUSTEE & INVESTORS | 1,166,375 |
| 17,100 | ROLLINS ENVIR. SVS | HERBERT R. SMITH | 241,538 |
| 26,100 | RORER GROUP INC | SIEBEL CAPITAL | 822,150 |
| 20,000 | ROYAL DUTCH PET. GLDRS | IDS ADVISORY | 957,500 |
| 20,600 | RYDER SYSTEMS INC | IDS ADVISORY | 901,250 |
| 52,000 | SAGA CORP | IDS ADVISORY | 1,534,000 |
| 30,000 | | SIEBEL CAPITAL | 885,000 |
| | SUB-TOTAL | 82,000 SHARES | 2,419,000 |
| 50,000 | SANDERS ASSOCIATES | LOOMIS SAYLES | 2,137,500 |
| 35,000 | | TRUSTEE & INVESTORS | 1,496,250 |
| | SUB-TOTAL | 85,000 SHARES | 3,633,750 |
| 15,000 | SCHLUMBERGER LTD | IDS ADVISORY | 678,750 |
| 10,000 | | INVESTMENT ADVISORS | 452,500 |
| | SUB-TOTAL | 25,000 SHARES | 1,131,250 |
| 17,800 | SCOTT PAPER CO | FORSTMANN LEFF | 489,500 |
| 150,000 | SEA CONTAINERS LTD | BEUTEL GOODMAN | 3,337,500 |
| 150,000 | SEACO INC | BEUTEL GOODMAN | 543,750 |
| 30,000 | SEARLE GD & CO | FRED ALGER | 1,372,500 |
| 16,500 | | IDS ADVISORY | 754,875 |
| 30,000 | | LOOMIS SAYLES | 1,372,500 |
| | SUB-TOTAL | 76,500 SHARES | 3,499,875 |
| 35,000 | SEARS ROEBUCK & CO | FORSTMANN LEFF | 1,102,500 |
| 46,000 | | HELLMAN JORDAN | 1,449,000 |
| 38,700 | | TRUSTEE & INVESTORS | 1,219,050 |
| | SUB-TOTAL | 119,700 SHARES | 3,770,550 |
| 30,000 | SECURITY PACIFIC CORP | INVESTMENT ADVISORS | 1,267,500 |
| 33,000 | SHARED MED. SYSTEMS CORP | IDS ADVISORY | 952,875 |
| 18,700 | SILVERCREST IND | HERBERT R. SMITH | 100,513 |
| 82,400 | SOUTHDOWN INC | BEUTEL GOODMAN | 3,656,500 |
| 30,000 | SOUTHERN CALIF. EDISON | IDS ADVISORY | 1,106,250 |
| 99,000 | SOUTHMARK CORP | SIEBEL CAPITAL | 742,500 |
| 20,000 | SOUTHWESTERN BELL CORP | HELLMAN JORDAN | 1,117,500 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------|---------------------------|---------------------|-----------------|
| 49,350 | SPARKMAN ENERGY CORP | HERBERT R. SMITH | \$ 690,900 |
| 22,900 | SPERRY CORP | FORSTMANN LEFF | 850,163 |
| 40,000 | | INVESTMENT ADVISORS | 1,485,000 |
| | SUB-TOTAL | 62,900 SHARES | 2,335,163 |
| 32,000 | SQUIBB CORP | INVESTMENT ADVISORS | 1,476,000 |
| 11,700 | ST. PAUL COS. INC | IDS ADVISORY | 611,325 |
| 13,700 | STANDARD OIL OF CALIF | HERBERT R. SMITH | 479,500 |
| 15,000 | STANDARD OIL OF INDIANA | INVESTMENT ADVISORS | 856,875 |
| 26,400 | | HERBERT R. SMITH | 1,508,100 |
| | SUB-TOTAL | 41,400 SHARES | 2,364,975 |
| 140,000 | STERLING DRUG INC | BEUTEL GOODMAN | 3,745,000 |
| 30,000 | STOP & SHOP INC | ALLIANCE CAPITAL | 1,323,750 |
| 35,000 | STORER COMMUNICATIONS | FORSTMANN LEFF | 1,404,375 |
| 80,000 | SUN CHEMICAL | BEUTEL GOODMAN | 2,030,000 |
| 50,000 | SUPER VALU STORES INC | INVESTMENT ADVISORS | 1,425,000 |
| 18,200 | SYNTEX CORP | FORSTMANN LEFF | 782,600 |
| 70,000 | TAMBRANDS INC | BEUTEL GOODMAN | 3,622,500 |
| 17,200 | | SIEBEL CAPITAL | 890,100 |
| | SUB-TOTAL | 87,200 SHARES | 4,512,600 |
| 44,700 | TELEX CORP | HERBERT R. SMITH | 1,195,725 |
| 19,200 | TENNECO INC | TRUSTEE & INVESTORS | 717,600 |
| 21,400 | TEXACO INC | HERBERT R. SMITH | 722,250 |
| 9,800 | TEXAS COMMERCE BANKSHARES | HERBERT R. SMITH | 400,575 |
| 15,000 | TEXAS INSTRUMENTS | FRED ALGER | 1,931,250 |
| 7,000 | | SIEBEL CAPITAL | 901,250 |
| 6,900 | | HERBERT R. SMITH | 888,375 |
| 5,500 | | TRUSTEE & INVESTORS | 708,125 |
| | SUB-TOTAL | 34,400 SHARES | 4,429,000 |
| 16,100 | TEXAS OIL & GAS CORP | HERBERT R. SMITH | 358,225 |
| 29,550 | THOUSAND TRAILS | HERBERT R. SMITH | 624,244 |
| 38,500 | TIE COMMUNICATIONS | ALLIANCE CAPITAL | 577,500 |
| 45,000 | TOYS R US | ALLIANCE CAPITAL | 1,991,250 |
| 45,000 | | LOOMIS SAYLES | 1,991,250 |
| 10,600 | | HERBERT R. SMITH | 469,050 |
| | SUB-TOTAL | 100,600 SHARES | 4,451,550 |
| 62,000 | TRACOR INC | INVESTMENT ADVISORS | 1,472,500 |
| 87,999 | TRANS WORLD AIRLINES | HELLMAN JORDAN | 780,991 |
| 30,000 | TRANS WORLD CORP | HELLMAN JORDAN | 813,750 |
| 16,200 | TRANSCO ENERGY CO | HERBERT R. SMITH | 700,650 |
| 96,900 | TRANSCO EXPL. PART. LTD | HERBERT R. SMITH | 1,986,450 |
| 33,000 | TRAVELERS CORP | HELLMAN JORDAN | 940,500 |
| 43,000 | | TRUSTEE & INVESTORS | 1,225,500 |
| | SUB-TOTAL | 76,000 SHARES | 2,166,000 |
| 104,300 | TYCO LABS | BEUTEL GOODMAN | 3,415,825 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | ADVISOR | MARKET VALUE |
|------------------------|--------------------------|---------------------|-----------------|
| 10,000 | U.S. STEEL PFD. 12.75 | HELLMAN JORDAN | \$ 1,233,750 |
| 30,000 | U.S. WEST CORP | IDS ADVISORY | 1,732,500 |
| 25,000 | UAL INC | INVESTMENT ADVISORS | 881,250 |
| 65,000 | | LOOMIS SAYLES | 2,291,250 |
| | SUB-TOTAL | 90,000 SHARES | 3,172,500 |
| 44,350 | ULTIMATE CORP | HERBERT R. SMITH | 870,369 |
| 60,000 | UNION CAMP CORP | LOOMIS SAYLES | 2,062,500 |
| 100,000 | UNION ELEC CO | IDS ADVISORY | 1,275,000 |
| 14,000 | UNION PACIFIC CORP | HELLMAN JORDAN | 542,500 |
| 12,000 | | SIEBEL CAPITAL | 465,000 |
| | SUB-TOTAL | 26,000 SHARES | 1,007,500 |
| 42,100 | UNITED CABLE TV CORP | ALLIANCE CAPITAL | 1,015,663 |
| 30,000 | UNITED TECHNOLOGIES CORP | INVESTMENT ADVISORS | 975,000 |
| 46,000 | | TRUSTEE & INVESTORS | 1,495,000 |
| | SUB-TOTAL | 76,000 SHARES | 2,470,000 |
| 32,000 | UNOCAL CORP | INVESTMENT ADVISORS | 1,072,000 |
| 37,700 | UTL CORP | HERBERT R. SMITH | 669,175 |
| 15,200 | WACHOVIA CORP | HERBERT R. SMITH | 697,300 |
| 55,000 | WAL-MART STORES INC | ALLIANCE CAPITAL | 2,268,750 |
| 46,000 | | IDS ADVISORY | 1,897,500 |
| 25,000 | | LOOMIS SAYLES | 1,031,250 |
| | SUB-TOTAL | 126,000 SHARES | 5,197,500 |
| 40,000 | WANG LABS CL B | ALLIANCE CAPITAL | 1,130,000 |
| 26,000 | | HELLMAN JORDAN | 734,500 |
| | SUB-TOTAL | 66,000 SHARES | 1,864,500 |
| 15,900 | WASHINGTON POST B | FRED ALGER | 1,236,225 |
| 78,300 | WATKINS JOHNSON CO | FRED ALGER | 1,937,925 |
| 25,000 | WEST POINT PEPPERELL INC | SIEBEL CAPITAL | 993,750 |
| 63,600 | WESTINGHOUSE ELEC. CO | FRED ALGER | 1,399,200 |
| 46,800 | | FORSTMANN LEFF | 1,029,600 |
| | SUB-TOTAL | 110,400 SHARES | 2,428,800 |
| 39,700 | WEYERHEUSER CO | FORSTMANN LEFF | 1,061,975 |
| 19,600 | WHITEHALL CORP | HERBERT R. SMITH | 445,900 |
| 50,000 | WILMINGTON TRUST CO | SIEBEL CAPITAL | 1,675,000 |
| 20,100 | WITCO CHEMICAL CORP | HERBERT R. SMITH | 635,663 |
| 23,000 | WOLVERINE WORLD WIDE | HERBERT R. SMITH | 313,375 |
| 36,900 | XTRA CORP | FRED ALGER | 844,088 |
| TOTAL EQUITY PORTFOLIO | | | \$441,679,745 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|----------------------------|-----------------|
| 26,000 | A G EDWARDS INC | \$ 585,000 |
| 95,500 | ABBOTT LABS | 4,166,140 |
| 2,800 | ACCO WORLD CORP | 78,750 |
| 9,600 | ACF INDUSTRIES INC | 517,200 |
| 35,000 | ADOBE OIL & GAS | 665,000 |
| 41,700 | ADVANCED MICRO DEV | 1,282,275 |
| 18,000 | ADVANCED SEMI CONDUCTOR | 391,500 |
| 75,400 | AETNA LIFE AND CASUALTY | 2,214,875 |
| 31,000 | AFG INDS INC | 488,250 |
| 21,000 | AHMANSON H.F. CO | 391,125 |
| 24,500 | AIR PRODUCTS & CHEM | 1,010,625 |
| 24,000 | AIRBORNE FGHT CORP | 432,000 |
| 45,000 | ALASKA AIRLS INC | 511,875 |
| 26,000 | ALBERTSONS INC | 656,500 |
| 70,900 | ALCAN ALUMINUM LTD | 1,932,025 |
| 20,000 | ALCO STANDARD CORP | 612,500 |
| 33,000 | ALEXANDER & ALEXANDER | 627,000 |
| 24,000 | ALEXANDER & BALDWIN | 603,000 |
| 11,000 | ALLEGHANY CORP | 807,125 |
| 500 | ALLEGHENY & WESTERN ENERGY | 6,875 |
| 41,000 | ALLEGHENY BEVERAGE | 594,500 |
| 17,000 | ALLEGHENY INTERNATIONAL | 352,750 |
| 35,600 | ALLEGHENY PWR SYS INC | 881,100 |
| 8,000 | ALLEN GROUP INC | 156,000 |
| 30,000 | ALLIED BANCSHARES INC | 716,250 |
| 60,750 | ALLIED CORPORATION | 1,921,219 |
| 15,800 | ALLIED STORES CORP | 663,600 |
| 40,000 | ALLIS CHALMERS CORP | 430,000 |
| 26,000 | ALLTEL CORP | 555,750 |
| 65,000 | ALUMINUM CO OF AMERICA | 2,210,000 |
| 51,000 | AMAX INC | 1,026,375 |
| 36,600 | AMDAHL CORP | 411,750 |
| 16,000 | AMER. DISTRICT TEL | 434,000 |
| 50,200 | AMER. GENERAL CORP | 1,041,650 |
| 54,200 | AMER. INT'L. GROUP | 3,170,700 |
| 67,900 | AMER. MEDICAL INT'L | 1,561,700 |
| 64,000 | AMERADA HESS CORP | 1,800,000 |
| 49,500 | AMERICAN BRANDS INC | 2,741,063 |
| 22,800 | AMERICAN BROADCASTING | 1,430,700 |
| 21,800 | AMERICAN CAN CORP | 1,016,425 |
| 37,000 | AMERICAN CYANAMID | 1,780,625 |
| 137,400 | AMERICAN ELEC PWR INC | 2,335,800 |
| 171,419 | AMERICAN EXPRESS | 4,928,296 |
| 35,000 | AMERICAN FAMILY CORP | 612,500 |
| 24,900 | AMERICAN GREETINGS | 712,763 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 53,700 | AMERICAN HOSPITAL SUPPLY | \$ 1,671,413 |
| 38,000 | AMERICAN MTR INNS INC | 560,500 |
| 30,000 | AMERICAN NATL INS CO | 742,500 |
| 28,650 | AMERICAN NATURAL RES | 816,525 |
| 12,000 | AMERICAN PETROFINA | 723,000 |
| 37,950 | AMERICAN STANDARD INC | 944,006 |
| 47,000 | AMERICAN STERILIZER | 752,000 |
| 23,800 | AMERICAN STORES CO | 770,525 |
| 783,607 | AMERICAN TEL & TEL | 13,517,221 |
| 15,000 | AMERIFIN CORP | 504,375 |
| 74,360 | AMERITECH CORP | 4,833,400 |
| 17,000 | AMERITRUST CORP | 709,750 |
| 14,000 | AMES DEPARTMENT STORES | 710,500 |
| 18,000 | AMETEK INC | 477,000 |
| 44,500 | AMF INC | 728,688 |
| 30,200 | AMFAC INC | 664,400 |
| 79,800 | AMP INC | 2,553,600 |
| 34,600 | AMR CORP | 1,055,300 |
| 12,300 | AMSTED INDS INC | 356,700 |
| 31,000 | ANALOG DEVICES INC | 759,500 |
| 29,000 | ANALOGIC CORP | 369,750 |
| 23,000 | ANCHOR HOCKING CORP | 675,625 |
| 26,000 | ANDERSON CLAYTON & CO | 721,500 |
| 12,000 | ANDREW CORP | 399,000 |
| 21,000 | ANIXTER BROS | 349,125 |
| 58,000 | APACHE CORP | 638,000 |
| 44,000 | APPLE COMPUTER | 1,166,000 |
| 30,000 | APPLIED MATLS INC | 930,000 |
| 18,200 | ARA SERVICES | 834,925 |
| 90,800 | ARCHER DANIELS MIDLAND | 1,600,350 |
| 50,100 | ARIZONA PUB SVC CO | 864,225 |
| 39,000 | ARKLA INC | 770,250 |
| 39,000 | ARMCO INC | 599,625 |
| 24,800 | ARMSTRONG IND. INC | 635,500 |
| 27,000 | ARVIN INDS INC | 600,750 |
| 15,000 | ASA LTD | 862,500 |
| 71,000 | ASAMERA INC | 754,375 |
| 28,700 | ASARCO INC | 685,213 |
| 34,000 | ASHLAND OIL INC | 786,250 |
| 15,700 | ASSOC. DRY GOODS | 843,875 |
| 36,000 | ATLANTIC BANCORP | 949,500 |
| 28,000 | ATLANTIC CITY ELEC CO | 581,000 |
| 201,200 | ATLANTIC RICHFIELD | 9,154,600 |
| 1,000 | ATWOOD OCEANICS INC | 16,500 |
| 12,000 | AUGAT INC | 360,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|---------------------------|-----------------|
| 27,300 | AUTOMATIC DATA PROCESSING | \$ 969,150 |
| 27,000 | AVANTEK INC | 604,125 |
| 21,000 | AVCO CORP | 624,750 |
| 22,000 | AVERY INTL. CORP | 561,000 |
| 27,000 | AVNET INC | 891,000 |
| 101,200 | AVON PRODS INC | 2,226,400 |
| 24,000 | AVX CORP | 486,000 |
| 23,600 | AXIA INC | 575,250 |
| 16,000 | AYDIN CORP | 430,000 |
| 20,500 | BAIRNCO CORP | 684,188 |
| 52,200 | BAKER INTL. CORP | 939,600 |
| 32,800 | BALLY MFG CO | 709,300 |
| 28,500 | BALTIMORE GAS & ELECTRIC | 908,438 |
| 31,900 | BANC ONE CORP | 697,813 |
| 30,000 | BANCOHIO CORP | 956,250 |
| 11,000 | BANDAG INC | 500,500 |
| 11,000 | BANK BOSTON CORP | 338,250 |
| 20,000 | BANK OF NY CO INC | 540,000 |
| 111,600 | BANKAMERICA CORP | 1,771,650 |
| 28,200 | BANKERS TRUST NY CORP | 1,085,700 |
| 17,000 | BARD C.R. INC | 425,000 |
| 20,000 | BARNETT BKS FLORIDA | 697,500 |
| 26,000 | BARRY WRIGHT CORP | 702,000 |
| 14,000 | BASSETT FURNITURE INC | 448,000 |
| 24,800 | BAUSCH & LOMB INC | 499,100 |
| 105,100 | BAXTER TRAVENOL LABS | 1,615,913 |
| 18,000 | BAYBANKS INC | 630,000 |
| 92,100 | BEATRICE FOODS CO | 2,440,650 |
| 12,000 | BECTON DICKINSON & CO | 399,000 |
| 28,400 | BELL & HOWELL CO | 738,400 |
| 74,360 | BELL ATLANTIC CORP | 5,047,185 |
| 177,000 | BELL CANADA ENTERPRISE | 4,115,250 |
| 243,080 | BELL SOUTH CORP | 6,745,470 |
| 18,000 | BELO A H CORP | 846,000 |
| 11,000 | BENEFICIAL CORP | 277,750 |
| 25,000 | BERGEN BRUNSWIG CORP | 556,250 |
| 26,000 | BEST PRODUCTS | 383,500 |
| 35,100 | BETHLEHEM STEEL | 671,288 |
| 13,000 | BETZ LABS INC | 383,500 |
| 19,000 | BEVERLY ENTERPRISES | 520,125 |
| 35,000 | BIG THREE INDUSTRIES | 813,750 |
| 43,500 | BLACK & DECKER MFG CO | 984,188 |
| 14,000 | BLOCK H & R INC | 549,500 |
| 13,400 | BLOUNT INC | 189,275 |
| 11,000 | BLUE BELL INC | 481,250 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|---------------------------|-----------------|
| 37,000 | BOB EVANS FARMS INC | \$ 601,250 |
| 73,350 | BOEING CO | 3,209,063 |
| 21,000 | BOISE CASCADE CORP | 716,625 |
| 25,800 | BORDEN INC | 1,489,950 |
| 64,100 | BORG-WARNER | 1,201,875 |
| 24,000 | BOSTON EDISON CO | 639,000 |
| 21,300 | BRASCAN LTD | 487,238 |
| 17,000 | BRIGGS & STRATTON CO | 459,000 |
| 103,000 | BRISTOL-MYERS CO | 4,841,000 |
| 21,000 | BROOKLYN UN GAS CO | 624,750 |
| 35,000 | BROOKS FASHION STORE | 888,125 |
| 17,000 | BROWN GROUP | 450,500 |
| 30,600 | BROWNING FERRIS INDS | 898,875 |
| 23,100 | BRUNSWICK CORP | 675,675 |
| 22,000 | BRUSH WELLMAN INC | 737,000 |
| 28,000 | BUCYRUS ERIE CO | 353,500 |
| 21,200 | BURLINGTON INDUSTRIES | 559,150 |
| 57,600 | BURLINGTON NORTHERN | 2,318,400 |
| 33,000 | BURNDY CORP | 523,875 |
| 33,800 | BURROUGHS CORP | 1,799,850 |
| 18,000 | CABOT CORP | 441,000 |
| 30,000 | CALFED INC | 386,250 |
| 30,900 | CALL CORP | 571,650 |
| 39,000 | CAMERON IRON WORKS INC | 638,625 |
| 50,000 | CAMPBELL RED LAKES | 1,243,750 |
| 33,000 | CAMPBELL SOUP CO | 2,062,500 |
| 30,000 | CANADIAN MARCONI CO | 536,250 |
| 15,000 | CANADIAN PACIFIC ENTER | 240,000 |
| 58,700 | CANADIAN PACIFIC LTD | 1,797,688 |
| 1,000 | CANAL-RANDOLPH CORP | 58,125 |
| 12,700 | CAPITAL CITIES COMM | 2,047,875 |
| 27,900 | CAPITAL HOLDING CORP | 920,700 |
| 33,000 | CARL KARCHER ENTERPRISES | 808,500 |
| 24,000 | CARLISLE CORP | 684,000 |
| 35,400 | CARNATION | 2,115,150 |
| 24,000 | CAROLINA FREIGHT CORP | 414,000 |
| 48,400 | CAROLINA PWR & LT CO | 968,000 |
| 13,800 | CARPENTER TECHNOLOGY | 584,775 |
| 29,800 | CARTER HAWLEY HALE STORES | 588,550 |
| 49,700 | CASTLE & COOKE INC | 621,250 |
| 70,300 | CATERPILLAR TRACTOR | 2,636,250 |
| 12,000 | CBI INDS INC | 373,500 |
| 23,000 | CBS INC | 1,799,750 |
| 22,000 | CBT CORP | 594,000 |
| 12,100 | CELANESE CORP | 783,475 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|------------------------|-----------------|
| 21,000 | CENTEL CORP | \$ 732,375 |
| 12,000 | CENTEX CORP | 291,000 |
| 56,000 | CENTRAL & SO WEST CO | 994,000 |
| 32,000 | CENTRAL ILL LIGHT CO | 672,000 |
| 41,000 | CENTRAL ILL PUB SVC | 630,375 |
| 34,000 | CENTRAL LA ELEC CO | 624,750 |
| 46,000 | CENTRAL SOYA INC | 730,250 |
| 26,000 | CENVILL INVS INC | 507,000 |
| 31,400 | CERTAIN TEED PRODS CO | 553,425 |
| 42,000 | CESSNA AIRCRAFT CO | 819,000 |
| 59,000 | CETUS CORP | 671,125 |
| 27,000 | CFS CONTL INC | 718,875 |
| 40,800 | CHAMPION INTERNATIONAL | 790,500 |
| 64,000 | CHAMPION SPARK PLUG | 560,000 |
| 28,000 | CHARMING SHOPPES INC | 563,500 |
| 32,000 | CHARTER MED CORP | 804,000 |
| 25,600 | CHASE MANHATTAN CORP | 1,008,000 |
| 25,500 | CHEM-LAWN CORP | 694,875 |
| 12,000 | CHEMED CORP | 352,500 |
| 55,500 | CHEMICAL NEW YORK CO | 1,332,000 |
| 16,000 | CHESAPEAKE CORP VA | 516,000 |
| 25,500 | CHESEBROUGH-PONDS INC | 943,500 |
| 29,000 | CHI-CHIS INC | 522,000 |
| 21,000 | CHIEFTAIN DEV LTD | 262,500 |
| 57,000 | CHROMALLOY AMERN CORP | 655,500 |
| 14,550 | CHUBB CORP | 669,300 |
| 28,200 | CHURCHS FRIED CHICKEN | 775,500 |
| 54,600 | CIGNA CORP | 1,713,075 |
| 3,000 | CINCINNATI BELL INC | 108,750 |
| 10,500 | CINCINNATI FINL CORP | 643,125 |
| 18,000 | CINCINNATI MILACRON | 465,750 |
| 28,000 | CIPHER DATA PRODS INC | 609,000 |
| 21,000 | CIRCLE K CORP | 525,000 |
| 94,000 | CITICORP | 2,878,750 |
| 20,000 | CITIZENS & SOUTHN CO | 485,000 |
| 28,000 | CITIZENS & SOUTHN GA | 381,500 |
| 31,500 | CITIZENS FID CORP | 685,125 |
| 22,792 | CITIZENS UTILS CO DEL | 632,478 |
| 55,000 | CITY FED SVGS&LN ASSOC | 467,500 |
| 27,600 | CITY INVESTING | 1,176,450 |
| 24,400 | CLARK EQUIP CO | 686,250 |
| 27,000 | CLEVELAND CLIFFS | 526,500 |
| 42,000 | CLEVELAND ELEC. ILLUM | 661,500 |
| 14,000 | CLOROX CO | 374,500 |
| 22,000 | CLUETT PEABODY | 572,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 50,000 | CNA FINL CORP | \$ 1,162,500 |
| 25,000 | COACHMEN INDS INC | 346,875 |
| 20,000 | COASTAL CORP | 582,500 |
| 35,000 | COCA COLA BOTTLING CO | 682,500 |
| 116,600 | COCA COLA CO | 6,719,075 |
| 600 | COLE NATIONAL CORP | 22,350 |
| 62,000 | COLGATE PALMOLIVE | 1,426,000 |
| 17,600 | COLLINS & AIKMAN CORP | 616,000 |
| 32,000 | COLLINS FOODS INTL. | 596,000 |
| 16,000 | COLONIAL PENN GROUP | 454,000 |
| 21,800 | COLT INDS INC DEL | 994,625 |
| 29,400 | COLUMBIA GAS SYSTEM | 977,550 |
| 17,000 | COMBINED INTL CORP | 512,125 |
| 25,100 | COMBUSTION ENGINEERING | 781,238 |
| 36,000 | COMDATA NETWORK INC | 544,500 |
| 25,000 | COMDISCO INC | 318,750 |
| 23,000 | COMERICA INC | 612,375 |
| 48,000 | COMINCO LTD | 552,000 |
| 6,000 | COMMERCE CLEARING HOUSE | 330,000 |
| 26,000 | COMMERCIAL METALS CO | 455,000 |
| 22,800 | COMMODORE INTL LTD | 618,450 |
| 126,936 | COMMONWEALTH EDISON | 2,887,794 |
| 25,000 | COMMUNICATIONS INDS | 512,500 |
| 27,000 | COMMUNICATIONS SATELLITE | 631,125 |
| 28,000 | COMPREHENSIVE CARE CO | 570,500 |
| 27,000 | COMPUGRAPHIC CORP | 850,500 |
| 25,000 | COMPUTER ASSOC INTL | 462,500 |
| 34,500 | COMPUTER SCIENCES CO | 448,500 |
| 21,100 | COMPUTER VISION CORP | 817,625 |
| 30,000 | CONAGRA INC | 1,140,000 |
| 97,800 | CONSOL. EDISON OF N.Y. | 2,469,450 |
| 52,000 | CONSOL. FOODS CORP | 1,495,000 |
| 11,800 | CONSOL. FREIGHTWAYS | 544,275 |
| 32,000 | CONSOL. NAT. GAS | 1,112,000 |
| 13,000 | CONSOLIDATED PAPERS | 754,000 |
| 45,000 | CONSUMERS PWR CO | 270,000 |
| 26,000 | CONTINENTAL BANCORP | 702,000 |
| 28,000 | CONTINENTAL CORP | 766,500 |
| 31,650 | CONTINENTAL GROUP INC | 1,637,888 |
| 38,000 | CONTINENTAL ILL. CORP | 209,000 |
| 52,800 | CONTINENTAL TELECOM | 1,009,800 |
| 29,600 | CONTROL DATA CORP | 913,900 |
| 29,000 | CONVERGENT TECHNOLOGY | 391,500 |
| 32,600 | COOPER INDS. INC | 916,875 |
| 37,000 | COOPER LABS INC | 888,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|-------------------------|-----------------|
| 21,000 | CORESTATES FINL CORP | \$ 708,750 |
| 16,000 | CORNING GLASS WORKS | 1,020,000 |
| 11,000 | CORROON & BLACK CORP | 283,250 |
| 23,800 | COX COMMUNICATIONS INC | 1,258,425 |
| 47,000 | CPC INTERNATIONAL INC | 1,733,125 |
| 18,000 | CPT CORP | 198,000 |
| 23,164 | CRANE CO | 816,531 |
| 12,100 | CRAY RESEARCH INC | 544,500 |
| 17,000 | CROCKER NATIONAL CORP | 278,375 |
| 24,000 | CROSS & TRECKER | 468,000 |
| 22,500 | CROSS A T CO | 556,875 |
| 17,500 | CROWN CORK & SEAL | 693,438 |
| 20,400 | CROWN ZELLERBACH CORP | 627,300 |
| 108,100 | CSX CORP | 2,243,075 |
| 23,000 | CULLEN FROST BANKERS | 713,000 |
| 18,000 | CULLINET SOFTWARE INC | 695,250 |
| 13,500 | CUMMINS ENGINE CO | 970,313 |
| 33,000 | DANA CORP | 763,125 |
| 50,600 | DART & KRAFT INC | 3,991,075 |
| 31,500 | DATA GENERAL CORP | 1,480,500 |
| 20,000 | DATA SWITCH CORP | 300,000 |
| 19,000 | DATAPPOINT CORP | 361,000 |
| 23,000 | DATAPRODUCTS CORP | 388,125 |
| 57,700 | DAYTON PWR & LT CO | 685,188 |
| 72,300 | DAYTON-HUDSON CORP | 2,268,413 |
| 21,400 | DE LUXE CHECK PRINTERS | 888,100 |
| 33,000 | DEAN FOODS CO | 849,750 |
| 51,300 | DEERE & CO | 1,404,338 |
| 26,000 | DEKALB AGRESEARCH INC | 591,500 |
| 40,500 | DELMARVA PWR & LT CO | 749,250 |
| 69,000 | DELMED INC | 483,000 |
| 29,800 | DELTA AIR LINES INC | 916,350 |
| 19,000 | DENISON MINES LTD A | 242,250 |
| 19,000 | DENISON MINES LTD B | 213,750 |
| 13,000 | DENNYS INC | 513,500 |
| 91,000 | DETROIT EDISON CO | 1,148,875 |
| 29,000 | DEXTER CORP | 576,375 |
| 98,400 | DIAMOND SHAMROCK | 1,820,400 |
| 96,000 | DIASONICS INC | 252,000 |
| 41,900 | DIGITAL EQUIPMENT CO | 3,519,600 |
| 47,380 | DIGITAL SWITCH | 1,083,818 |
| 29,700 | DISNEY WALT PRODUCTIONS | 1,407,038 |
| 42,000 | DOME MINES LTD | 483,000 |
| 66,300 | DOMINION RESOURCES | 1,541,475 |
| 39,000 | DONALDSON LUFKIN & JEN | 760,500 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|-------------------------|-----------------|
| 29,600 | DONNELLEY RR & SONS | \$ 1,169,200 |
| 37,000 | DOVER CORP | 1,267,250 |
| 147,700 | DOW CHEMICAL CO | 4,135,600 |
| 45,000 | DOW JONES & CO | 1,985,625 |
| 61,600 | DRESSER INDUSTRIES | 1,232,000 |
| 31,000 | DREYERS GRAND ICE CREAM | 457,250 |
| 15,000 | DREYFUS CORP | 403,125 |
| 197,780 | DU PONT EI DENEMOURS | 9,023,713 |
| 73,400 | DUKE POWER CO NC | 1,798,300 |
| 43,800 | DUN & BRADSTREET COS | 2,595,150 |
| 55,900 | DUQUESNE LIGHT CO | 670,800 |
| 500 | DURR FILLAUER MED INC | 5,688 |
| 58,500 | DYSAN CORP | 511,875 |
| 28,000 | E-SYSTEMS | 777,000 |
| 36,100 | E.F. HUTTON GROUP INC | 1,078,488 |
| 27,000 | EAGLE PICHER INDS INC | 621,000 |
| 27,000 | EASTERN GAS & FUEL | 594,000 |
| 135,200 | EASTMAN KODAK CO | 9,362,600 |
| 23,900 | EATON CORP | 979,900 |
| 29,000 | ECHLIN INC | 641,625 |
| 29,100 | ECKERD JACK CORP | 676,575 |
| 26,800 | ECONOMICS LAB INC | 606,350 |
| 15,000 | EDISON BROS STORES INC | 510,000 |
| 28,900 | EG & G INC | 801,975 |
| 57,000 | EL PASO ELEC CO | 591,375 |
| 43,800 | ELECTRONIC DATA SYSTEMS | 1,834,125 |
| 4,000 | ELECTROSPACE SYSTEMS | 97,000 |
| 52,100 | EMERSON ELECTRIC | 3,314,863 |
| 22,000 | EMERY AIR FREIGHT CO | 310,750 |
| 23,000 | EMHART CORP VA | 669,875 |
| 30,200 | EMULEX CORP | 551,150 |
| 27,400 | ENGLEHARD CORP | 691,850 |
| 45,000 | ENSERCH CORP | 866,250 |
| 36,000 | ENTEX | 715,500 |
| 29,000 | ENZO BIOCHEM INC | 435,000 |
| 21,000 | EQUITABLE GAS CO | 698,250 |
| 23,000 | ESTERLINE CORP | 644,000 |
| 20,000 | ETHYL CORP | 437,500 |
| 45,000 | EVANS & SUTHERLAND CO | 787,500 |
| 19,000 | EX CELL O CORP | 581,875 |
| 690,400 | EXXON CORP | 28,133,800 |
| 27,000 | FABERGE INC | 806,625 |
| 37,000 | FAIRCHILD INDS INC | 633,625 |
| 10,000 | FALCONBRIDGE LTD | 440,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 34,000 | FAMILY DOLLAR STORES INC | \$ 731,000 |
| 35,700 | FARM FRESH INC | 566,738 |
| 29,000 | FARMERS GROUP INC | 1,116,500 |
| 21,000 | FEDERAL CO | 685,125 |
| 33,000 | FEDERAL EXPRESS CORP | 1,150,875 |
| 49,500 | FEDERAL NATL. MTG | 624,938 |
| 16,000 | FEDERAL PAPER BRD INC | 604,000 |
| 21,000 | FEDERAL-MOGUL CORP | 714,000 |
| 36,400 | FEDERATED DEPT. STORES | 1,747,200 |
| 10,000 | FERRO CORP | 252,500 |
| 18,000 | FIDELCOR | 690,750 |
| 26,000 | FIRESTONE TIRE & RUBBER | 445,250 |
| 36,000 | FIRST ALA BANCSHARES | 648,000 |
| 38,500 | FIRST ATLANTA CORP | 750,750 |
| 25,600 | FIRST BANK SYSTEM | 592,000 |
| 14,700 | FIRST BOSTON INC | 595,350 |
| 35,300 | FIRST CHICAGO CORP | 732,475 |
| 35,000 | FIRST CITY BANKCORP | 560,000 |
| 47,600 | FIRST EXECUTIVE CORP | 511,700 |
| 38,500 | FIRST INTERSTATE BANCORP | 1,207,938 |
| 17,900 | FIRST KY NATL CORP | 501,200 |
| 15,700 | FIRST NATL ST BANCORP | 561,275 |
| 29,000 | FIRST SEC CORP DEL | 540,125 |
| 5,000 | FIRST TENN NATL CORP | 120,625 |
| 27,000 | FIRST UNION CORP | 702,000 |
| 8,000 | FLEET FINANCIAL GROUP | 326,000 |
| 27,900 | FLEETWOOD ENTER. INC | 477,788 |
| 26,200 | FLEMING COS | 694,300 |
| 23,000 | FLIGHTSAFETY INTL INC | 557,750 |
| 54,000 | FLOATING POINT SYS INC | 891,000 |
| 19,000 | FLORIDA NATL BKS FLA | 793,250 |
| 41,800 | FLORIDA POWER & LIGHT | 1,515,250 |
| 35,000 | FLORIDA PROGRESS CORP | 673,750 |
| 35,000 | FLOWERS INDUSTRIES | 682,500 |
| 55,000 | FLUOR CORP | 941,875 |
| 25,000 | FMC CORP | 1,215,625 |
| 152,150 | FORD MOTOR CO | 5,496,419 |
| 27,000 | FOREST OIL CORP | 681,750 |
| 23,000 | FORT HOWARD PAPER CO | 1,256,375 |
| 47,000 | FOSTER WHEELER CORP | 540,500 |
| 19,000 | FOXBORO CO | 572,375 |
| 69,000 | FREEMONT-MCMORAN INC | 1,173,000 |
| 42,000 | FREMONT GEN CORP | 656,250 |
| 15,000 | FRUEHAUF CORP | 457,500 |
| 24,000 | FUQUA INDS INC | 609,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 40,000 | GAF CORP | \$ 710,000 |
| 62,100 | GANNETT INC | 2,592,675 |
| 30,000 | GATX | 855,000 |
| 33,800 | GCA CORP | 895,700 |
| 40,000 | GEARHART INDS INC | 805,000 |
| 15,000 | GEICO CORP | 840,000 |
| 29,000 | GELCO CORP | 438,625 |
| 20,400 | GENCORP | 762,450 |
| 17,000 | GENENTECH INC | 586,500 |
| 11,000 | GENERAL CINEMA CORP | 528,000 |
| 44,000 | GENERAL DATACOMM IND | 687,500 |
| 42,100 | GENERAL DYNAMICS | 2,210,250 |
| 356,300 | GENERAL ELECTRIC CO | 18,705,750 |
| 49,300 | GENERAL FOODS CORP | 2,693,013 |
| 45,750 | GENERAL HOST CORP | 686,250 |
| 23,800 | GENERAL INSTRUMENT | 505,750 |
| 52,000 | GENERAL MILLS INC | 2,743,000 |
| 257,400 | GENERAL MOTORS CORP | 16,827,525 |
| 57,000 | GENERAL NUTRITION INC | 349,125 |
| 45,000 | GENERAL PUBLIC UTILITIES | 405,000 |
| 34,100 | GENERAL RE CORP | 1,956,488 |
| 26,000 | GENERAL SIGNAL CORP | 1,137,500 |
| 77,000 | GENETIC SYS CORP | 442,750 |
| 17,800 | GENRAD INC | 409,400 |
| 16,000 | GENSTAR LTD | 268,000 |
| 41,100 | GENUINE PARTS CO | 1,130,250 |
| 14,200 | GEORGE A HORMEL & CO | 379,850 |
| 78,800 | GEORGIA PACIFIC CORP | 1,497,200 |
| 14,700 | GERBER PRODUCTS CO | 580,650 |
| 23,700 | GILLETTE CO | 1,107,975 |
| 21,000 | GOLDEN WEST FINANCIAL | 244,125 |
| 25,100 | GOODRICH (B.F.) | 677,700 |
| 79,600 | GOODYEAR TIRE & RUBBER | 2,049,700 |
| 34,400 | GOULD INC | 903,000 |
| 35,000 | GOULDS PUMPS INC | 621,250 |
| 39,800 | GR. WESTERN FINANCIAL | 706,450 |
| 36,700 | GRACE W R & CO | 1,587,275 |
| 10,000 | GRAINGER W W INC | 516,250 |
| 40,000 | GREAT ATLANTIC & PACIFIC | 640,000 |
| 26,400 | GREAT LAKES CHEMICAL | 864,600 |
| 19,000 | GREAT NORTHN NEKOOSA | 646,000 |
| 36,200 | GREYHOUND CORP | 809,975 |
| 35,335 | GROW CHEMICAL CORP | 525,608 |
| 33,600 | GRUMMAN CORP | 873,600 |
| 144,100 | GTE CORP | 5,385,738 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|---------------------------|-----------------|
| 32,000 | GUARDIAN INDS CORP | \$ 508,000 |
| 59,100 | GULF & WESTERN INDUSTRIES | 1,728,675 |
| 111,400 | GULF BROADCASTING | 891,200 |
| 63,000 | GULF CDA LTD | 803,250 |
| 20,000 | GULF STREAM AEROSPACE | 325,000 |
| 47,000 | GULF STS UTILS CO | 511,125 |
| 29,500 | HALL FRANK B & CO INC | 656,375 |
| 89,600 | HALLIBURTON INC | 3,012,800 |
| 44,000 | HAMILTON OIL CORP | 715,000 |
| 14,000 | HAMMERMILL PAPER CO | 616,000 |
| 38,000 | HANDY & HARMAN | 684,000 |
| 19,000 | HANOVER INS. CO | 451,250 |
| 30,000 | HARCOURT BRACE JOVAN | 885,000 |
| 17,000 | HARLAND JOHN H CO | 680,000 |
| 10,000 | HARRIS BANCORP INC | 778,750 |
| 30,900 | HARRIS CORP | 776,363 |
| 28,000 | HARSCO CORP | 546,000 |
| 27,000 | HARTE HANKS COMM | 810,000 |
| 12,500 | HARTFORD NATL CORP | 275,000 |
| 21,000 | HARTMARX CORP | 588,000 |
| 30,000 | HBO & CO | 630,000 |
| 91,000 | HEALTHDYNE | 580,125 |
| 68,700 | HEINZ H.J. & CO | 2,576,250 |
| 40,000 | HEIZER CORP | 690,000 |
| 30,000 | HELMERICH & PAYNE INC | 603,750 |
| 42,400 | HERCULES INC | 1,266,700 |
| 34,400 | HERSHEY FOODS CORP | 1,079,300 |
| 206,900 | HEWLETT PACKARD CO | 7,551,850 |
| 32,000 | HILLENBRAND INDS INC | 624,000 |
| 16,000 | HILTON HOTELS CORP | 800,000 |
| 41,800 | HM FED SVG&LN ASSN | 512,050 |
| 30,000 | HOGAN SYSTEMS | 457,500 |
| 29,000 | HOLIDAY INNS | 1,247,000 |
| 50,000 | HOLLY CORP | 575,000 |
| 16,000 | HOME DEPOT INC | 362,000 |
| 7,000 | HOME HEALTH CARE AMER | 49,875 |
| 72,250 | HOMESTAKE MNG CO | 1,896,563 |
| 36,400 | HONEYWELL INC | 1,924,650 |
| 24,400 | HOOVER CO | 597,800 |
| 26,000 | HOOVER UNIVERSAL | 591,500 |
| 63,900 | HOSPITAL CORP OF AMER | 2,548,013 |
| 37,000 | HOUSEHOLD INTL | 929,625 |
| 70,400 | HOUSTON INDUSTRIES INC | 1,302,400 |
| 30,900 | HOUSTON NAT. GAS CORP | 1,487,063 |
| 28,000 | HUBBARD REAL ESTATE | 609,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 21,000 | HUBBELL HARVEY B. | \$ 632,625 |
| 42,900 | HUGHES TOOL | 681,038 |
| 98,340 | HUMANA INC | 2,618,303 |
| 38,500 | HYBRITECH INC | 539,000 |
| 9,000 | I C INDUSTRIES | 410,625 |
| 23,000 | I M S INTL INC | 707,250 |
| 21,000 | IDAHO PWR CO | 690,375 |
| 30,000 | IDEAL BASIC INDS INC | 562,500 |
| 37,400 | ILLINOIS POWER CORP | 691,900 |
| 24,000 | ILLINOIS TOOL WORKS | 576,000 |
| 19,000 | IMPERIAL OIL CO LTD | 496,375 |
| 72,700 | INCO INC | 708,825 |
| 69,000 | INEXCO OIL CO | 707,250 |
| 20,200 | INGERSOLL RAND | 808,000 |
| 30,500 | INLAND STEEL CORP | 667,188 |
| 40,000 | INSILCO CORP | 635,000 |
| 30,000 | INTEGRATED RESOURCES | 637,500 |
| 85,600 | INTEL CORP | 2,589,400 |
| 35,000 | INTELLIGENT SYS CORP | 481,250 |
| 6,600 | INTERCO | 399,300 |
| 52,500 | INTERFIRST CORP | 518,438 |
| 19,300 | INTERGRAPH CORP | 839,550 |
| 42,000 | INTERMEDICS INC | 556,500 |
| 26,000 | INTERNATIONAL MULTIFOODS | 611,000 |
| 33,600 | INTERNORTH INC | 1,222,200 |
| 28,000 | INTERPUBLIC GROUP | 917,000 |
| 485,772 | INTL. BUSINESS MACHINES | 51,370,389 |
| 37,200 | INTL. FLAVORS & FRAG | 962,550 |
| 26,700 | INTL. MINERALS & CHEM | 961,200 |
| 37,100 | INTL. PAPER CO | 1,803,988 |
| 26,000 | IOWA ILL GAS & ELEC | 591,500 |
| 24,000 | IOWA RESOURCES INC | 618,000 |
| 15,000 | IPALCO ENTERPRISES | 408,750 |
| 14,000 | IRVING BK CORP | 700,000 |
| 44,000 | ISC SYS CORP | 671,000 |
| 107,800 | ITT CORP | 3,382,225 |
| 26,000 | IU INTL CORP | 461,500 |
| 21,000 | JAMES RIVER CORP VA | 572,250 |
| 27,000 | JEFFERSON PILOT CORP | 816,750 |
| 40,000 | JERRICO INC | 570,000 |
| 11,000 | JEWEL COMPANIES | 792,000 |
| 163,500 | JOHNSON & JOHNSON | 4,905,000 |
| 14,000 | JOHNSON CONTROLS | 614,250 |
| 21,000 | JONATHAN LOGAN | 538,125 |
| 24,000 | JOSTENS INC | 603,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|------------------------|-----------------|
| 17,000 | JOY MFG CO | \$ 388,875 |
| 92,500 | K MART CORP | 2,867,500 |
| 22,000 | K N ENERGY INC | 662,750 |
| 32,800 | KAISER ALUM & CHEM CO | 475,600 |
| 54,000 | KANEB SERVICES | 756,000 |
| 35,000 | KANSAS CITY PWR & LT | 520,625 |
| 6,100 | KANSAS CITY SO. IND | 280,600 |
| 38,000 | KANSAS GAS & ELEC CO | 489,250 |
| 23,000 | KANSAS PWR & LT CO | 695,750 |
| 21,000 | KATY INDS INC | 446,250 |
| 42,000 | KAUFMAN & BROAD INC | 456,750 |
| 20,500 | KAYDON CORP | 133,250 |
| 73,000 | KELLOGG CO | 2,290,375 |
| 16,022 | KEMPER CORP | 556,765 |
| 19,000 | KENNAMETAL INC | 451,250 |
| 29,000 | KENTUCKY UTILS CO | 609,000 |
| 39,000 | KERR MCGEE CORP | 1,218,750 |
| 31,000 | KEY PHARMACEUTICAL | 383,625 |
| 30,000 | KIDDE INC | 858,750 |
| 35,000 | KIMBERLY CLARK CORP | 1,408,750 |
| 44,200 | KLA INSTRS CORP | 994,500 |
| 10,600 | KLM ROYAL DUTCH AIR | 532,650 |
| 45,000 | KNIGHT RIDDER INC | 1,220,625 |
| 33,000 | KOPPERS INC | 618,750 |
| 27,000 | KROGER CO | 894,375 |
| 24,000 | KROY INC | 246,000 |
| 25,000 | LA QUINTA MTR INNS INC | 375,000 |
| 25,000 | LANCE INC | 668,750 |
| 12,500 | LANDMARK BKG CORP | 184,375 |
| 48,000 | LAWTER INTL INC | 624,000 |
| 15,000 | LEAR SIEGLER INC | 648,750 |
| 44,000 | LEE DATA CORP | 456,500 |
| 30,300 | LEVI STRAUSS & CO | 867,338 |
| 17,000 | LEVITZ FURNITURE | 510,000 |
| 16,000 | LIBBEY OWENS FORD CO | 720,000 |
| 30,000 | LIEBERT CORP | 592,500 |
| 54,900 | LILLY ELI & CO | 3,328,313 |
| 52,700 | LIMITED INC | 1,027,650 |
| 48,000 | LIN BROADCASTING CORP | 1,038,000 |
| 32,000 | LINCOLN NATL CORP INC | 976,000 |
| 30,700 | LITTON INDS INC | 2,256,450 |
| 21,000 | LIZ CLAIBORNE INC | 840,000 |
| 47,670 | LOCKHEED AIRCRAFT CO | 1,871,048 |
| 20,000 | LOCTITE CORP | 710,000 |
| 20,750 | LOEWS CORP | 1,670,375 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|-------------------------|-----------------|
| 26,000 | LOMAS & NETTLETON FINL. | \$ 611,000 |
| 25,000 | LONE STAR INDUSTRIES | 493,750 |
| 13,000 | LONG DRUG STORES INC | 485,875 |
| 20,000 | LORAL CORP | 492,500 |
| 16,000 | LOUISIANA LD & EXPL | 470,000 |
| 20,600 | LOUISIANA PAC. CORP | 375,950 |
| 28,000 | LOUISVILLE GAS & ELEC | 640,500 |
| 35,200 | LOWES CO | 748,000 |
| 94,000 | LTV CORP | 1,116,250 |
| 10,620 | LTV CORP CV PFD | 169,920 |
| 37,000 | LUBRIZOL CORP | 804,750 |
| 37,600 | LUCKY STORES | 606,300 |
| 42,000 | M/A COM | 766,500 |
| 32,400 | MACK TRUCKS INC | 498,150 |
| 39,000 | MACY R.H. & CO | 1,901,250 |
| 16,000 | MAGIC CHEF INC | 402,000 |
| 21,000 | MALONE & HYDE INC | 729,750 |
| 35,500 | MANUFACTURERS HANOVER | 878,625 |
| 27,000 | MAPCO INC | 712,125 |
| 33,000 | MARINE MIDLAND BKS INC | 651,750 |
| 27,900 | MARION LABS INC | 1,074,150 |
| 20,800 | MARRIOTT CORP | 1,417,000 |
| 27,000 | MARSH & MCCLENNAN | 1,174,500 |
| 22,000 | MARSHALL INDUSTRIES | 508,750 |
| 27,400 | MARTIN MARIETTA | 893,925 |
| 32,000 | MARY KAY COSMETICS | 328,000 |
| 42,500 | MASCO CORP | 1,110,313 |
| 25,000 | MATRIX CORP N J | 600,000 |
| 21,900 | MAY DEPT. STORES CO | 1,240,088 |
| 8,000 | MAYTAG CO | 305,000 |
| 36,400 | MCA INC | 1,583,400 |
| 22,000 | MCCORMICK & CO INC | 723,250 |
| 20,000 | MCDERMOTT INTL INC | 512,500 |
| 44,950 | MCDONALDS CORP | 3,084,694 |
| 30,400 | MCDONNELL DOUGLAS CO | 1,702,400 |
| 1,500 | MCFARLAND ENERGY INC | 23,438 |
| 18,000 | MCGRAW EDISON CO | 607,500 |
| 33,000 | MCGRAW HILL INC | 1,402,500 |
| 173,300 | MCI COMMUNICATION | 1,299,750 |
| 8,000 | MCINTYRE MINES LTD | 181,000 |
| 9,000 | MCKESSON CORP | 313,875 |
| 22,300 | MEAD CORP | 713,600 |
| 11,000 | MEDIA GENERAL INC | 594,000 |
| 30,900 | MEDTRONIC INC | 784,088 |
| 19,000 | MEI CORP | 719,625 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|-----------------------|-----------------|
| 22,000 | MELLON NATIONAL CORP | \$ 825,000 |
| 48,700 | MELVILLE CORP | 1,747,113 |
| 15,000 | MERCANTILE BANCORP | 354,375 |
| 11,000 | MERCANTILE STORES INC | 567,875 |
| 29,600 | MERCANTILE TEXAS CORP | 599,400 |
| 60,300 | MERCK & CO INC | 5,577,750 |
| 15,000 | MEREDITH CORP | 648,750 |
| 22,000 | MERIDIAN BANCORP INC | 665,500 |
| 62,900 | MERRILL LYNCH & CO | 1,690,438 |
| 33,700 | MGMT. SCIENCE AMER | 665,575 |
| 15,000 | MICOM SYS INC | 581,250 |
| 24,000 | MIDCON CORP | 828,000 |
| 120,900 | MIDDLE SOUTH UTILS | 1,284,563 |
| 35,000 | MIDLAND ROSS CORP | 695,625 |
| 16,000 | MIDLANTIC BKS INC | 356,000 |
| 25,400 | MILLER HERMAN INC | 628,650 |
| 22,000 | MILLIPORE CORP | 594,000 |
| 91,400 | MINNESOTA MNG & MFG | 7,049,225 |
| 25,000 | MINNESOTA PWR & LT CO | 640,625 |
| 45,100 | MISSION INS GROUP INC | 648,313 |
| 26,000 | MITCHELL ENERGY | 500,500 |
| 47,000 | MITEL CORP | 317,250 |
| 334,300 | MOBIL CORP | 8,858,950 |
| 18,800 | MOLEX INC | 737,900 |
| 17,000 | MONARCH CAPITAL CORP | 575,875 |
| 52,900 | MONOLITHIC MEMORIES | 972,038 |
| 60,400 | MONSANTO CO | 2,612,300 |
| 25,000 | MONTANA PWR CO | 634,375 |
| 29,100 | MOORE CORP LTD | 1,109,438 |
| 10,000 | MOORE MCCORMACK RES | 207,500 |
| 30,700 | MORGAN J P & CO | 1,907,238 |
| 23,000 | MORRISON KNUDSEN INC | 646,875 |
| 10,000 | MORTON THIOKOL | 760,000 |
| 90,700 | MOTOROLA INC | 3,027,113 |
| 26,000 | MOUNTAIN FUEL SUPPLY | 715,000 |
| 18,000 | MULTIMEDIA INC | 697,500 |
| 25,000 | MURPHY OIL | 818,750 |
| 41,500 | MYLAN LABS INC | 1,120,500 |
| 63,200 | NABISCO BRANDS | 2,907,200 |
| 30,000 | NALCO CHEMICAL CO | 712,500 |
| 21,000 | NATIONAL CITY CORP | 598,500 |
| 35,000 | NATIONAL CONVENIENCE | 555,625 |
| 33,000 | NATIONAL DATA CORP | 474,375 |
| 28,000 | NATIONAL DISTILLERS | 773,500 |
| 19,500 | NATIONAL GYPSUM CO | 582,563 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|------------------------|-----------------|
| 20,300 | NATIONAL INTERGROUP | \$ 530,338 |
| 47,000 | NATIONAL MED CARE INC | 640,375 |
| 27,900 | NATIONAL SVC INDS INC | 662,625 |
| 38,800 | NATL PATENT DEVEL CO | 620,800 |
| 49,375 | NATL. MED. ENTER. INC | 1,030,703 |
| 64,300 | NATL. SEMICONDUCTOR | 787,675 |
| 16,000 | NBD BANCORP INC | 648,000 |
| 18,000 | NBI INC | 382,500 |
| 26,000 | NCNB CORP | 624,000 |
| 82,400 | NCR CORP | 2,018,800 |
| 22,000 | NETWORK SYSTEMS CORP | 511,500 |
| 26,000 | NEVADA PWR CO | 643,500 |
| 20,500 | NEW ENGLAND BUSINESS | 563,750 |
| 16,069 | NEW ENGLAND ELEC SYS | 520,234 |
| 37,000 | NEW YORK ST ELEC & GAS | 656,750 |
| 40,800 | NEW YORK TIMES CO | 1,280,100 |
| 21,000 | NEWHALL LD & FARMING | 708,750 |
| 25,700 | NEWMONT MINING | 950,900 |
| 76,400 | NIAGARA MOHAWK PWR CO | 1,069,600 |
| 23,100 | NICOR INC | 603,488 |
| 20,000 | NIELSEN A C CO | 1,002,500 |
| 46,000 | NIKE INC | 460,000 |
| 29,300 | NL INDUSTRIES | 391,888 |
| 23,400 | NO. AMERICAN PHILIPS | 751,725 |
| 23,294 | NO. STS. POWER CO MINN | 864,790 |
| 51,000 | NOBLE AFFILIATES INC | 803,250 |
| 18,000 | NORDSTROM INC | 589,500 |
| 47,600 | NORFOLK SOUTHERN CORP | 2,427,600 |
| 18,900 | NORSTAR BANCORP | 576,450 |
| 13,000 | NORTH AMERN COAL CORP | 620,750 |
| 53,000 | NORTHEAST UTILITIES | 602,875 |
| 50,200 | NORTHERN IND PUB SVC | 690,250 |
| 39,000 | NORTHERN TELECOM LTD | 1,311,375 |
| 11,500 | NORTHROP CORP | 1,069,500 |
| 16,400 | NORTHWEST AIRLINES | 604,750 |
| 20,300 | NORTHWEST INDS INC | 984,550 |
| 11,000 | NORTON CO | 357,500 |
| 30,700 | NORWEST CORP | 771,338 |
| 18,000 | NOXELL CORP | 630,000 |
| 23,000 | NUCOR CORP | 684,250 |
| 70,000 | NUTRI SYSTEMS INC | 420,000 |
| 74,360 | NYNEX | 4,498,780 |
| 72,800 | OCCIDENTAL PET CORP | 2,083,900 |
| 39,000 | OCEAN DRILLING & EXPL | 1,043,250 |
| 24,000 | OGDEN CORP | 672,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 14,000 | OHIO CAS CORP | \$ 558,250 |
| 106,200 | OHIO EDISON CO | 1,062,000 |
| 19,000 | OHIO MATTRESS CO | 287,375 |
| 33,000 | OKLAHOMA GAS & ELEC | 664,125 |
| 21,000 | OLD REP INTL CORP | 685,125 |
| 27,400 | OLIN CORP | 746,650 |
| 25,000 | OMNICARE INC | 393,750 |
| 24,000 | ONEOK INC | 681,000 |
| 24,900 | OPTICAL RADIATION CO | 958,650 |
| 26,600 | OUTBOARD MARINE CORP | 548,625 |
| 16,000 | OVERNITE TRANSPORTATION | 316,000 |
| 34,000 | OVERSEAS SHIPHOLDING | 522,750 |
| 16,300 | OWENS CORNING FIBER | 427,875 |
| 21,500 | OWENS ILLINOIS INC | 795,500 |
| 34,000 | OXFORD INDS INC | 467,500 |
| 14,000 | PACCAR INC | 570,500 |
| 222,600 | PACIFIC GAS & ELEC | 3,060,750 |
| 26,000 | PACIFIC LUMBER CO | 565,500 |
| 24,800 | PACIFIC LTG CORP | 824,600 |
| 74,360 | PACIFIC TELESIS GROUP | 4,043,325 |
| 43,100 | PACIFICORP | 958,975 |
| 18,100 | PAINE WEBBER | 552,050 |
| 24,300 | PALL CORP | 817,088 |
| 28,500 | PANDICK INC | 463,125 |
| 31,900 | PANHANDLE EASTERN CORP | 1,100,550 |
| 68,400 | PARADYNE CORP | 880,650 |
| 90,000 | PARKER DRILLING CO | 821,250 |
| 21,000 | PARKER HANNIFIN CORP | 632,625 |
| 36,000 | PARKER PEN CO | 526,500 |
| 15,000 | PARSONS CORP | 363,750 |
| 25,000 | PAY N SAVE CORP | 431,250 |
| 30,000 | PAYLESS CASHWAYS | 491,250 |
| 23,600 | PENN CENT CORP | 1,091,500 |
| 56,200 | PENNEY J.C. INC | 2,852,150 |
| 51,600 | PENNSYLVANIA PWR & LIGHT | 1,102,950 |
| 16,000 | PENNWALT CORP | 546,000 |
| 37,000 | PENNZOIL CO | 1,197,875 |
| 26,000 | PENTAIR INC | 650,000 |
| 44,000 | PEOPLES ENERGY CORP | 423,500 |
| 30,000 | PEOPLES EXPRESS AIRLINES | 333,750 |
| 25,000 | PEP BOYS MANNY MOE | 675,000 |
| 87,600 | PEPSICO INC | 3,657,300 |
| 33,500 | PERKIN ELMER | 695,125 |
| 25,000 | PETRIE STORES CORP | 806,250 |
| 58,000 | PETROLANE INC | 1,123,750 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|---------------------------|-----------------|
| 24,000 | PETROLITE CORP | \$ 642,000 |
| 119,800 | PFIZER INC | 3,923,450 |
| 27,700 | PHELPS DODGE | 477,825 |
| 21,000 | PHH GROUP INC | 409,500 |
| 108,700 | PHIBRO-SALOMON | 2,907,725 |
| 105,200 | PHILADELPHIA ELEC. CO | 1,315,000 |
| 116,100 | PHILLIPS PETROLEUM CO | 4,121,550 |
| 35,000 | PIC N SAVE CORP | 691,250 |
| 12,000 | PIEDMONT AVIATION | 351,000 |
| 32,100 | PILLSBURY CO | 1,195,725 |
| 20,000 | PIONEER CORP | 542,500 |
| 30,000 | PIONEER HI-BRED INTL | 780,000 |
| 27,600 | PITNEY BOWES INC | 952,200 |
| 47,000 | PITTSTON CO | 552,250 |
| 30,600 | PNC FINANCIAL | 1,147,500 |
| 29,000 | PNEUMO CORP | 797,500 |
| 30,000 | POGO PRODUCING CO | 592,500 |
| 13,900 | POLAROID CORP | 378,775 |
| 23,000 | POLICY MGMT. SYS. CO | 678,500 |
| 27,000 | PONDEROSA SYSTEM INC | 526,500 |
| 24,300 | POPE & TALBOT | 388,800 |
| 46,000 | PORTLAND GEN ELEC CO | 655,500 |
| 20,000 | POTLATCH CORP | 555,000 |
| 33,000 | POTOMAC ELEC. & POWER | 676,500 |
| 53,500 | PPG INDUSTRIES INC | 1,491,313 |
| 20,000 | PREMIER INDL CORP | 617,500 |
| 14,000 | PRENTICE HALL INC | 605,500 |
| 12,000 | PRICE CO | 468,000 |
| 37,400 | PRIME COMPUTER INC | 500,225 |
| 30,000 | PRIME MTR INNS INC | 615,000 |
| 126,200 | PROCTOR & GAMBLE | 6,609,725 |
| 11,000 | PROVIDENT LIFE & ACC | 753,500 |
| 28,000 | PSA INC | 546,000 |
| 35,000 | PUBLIC SVC CO COLORADO | 612,500 |
| 35,000 | PUBLIC SVC CO N MEXICO | 765,625 |
| 75,300 | PUBLIC SVC ELEC & GEORGIA | 1,618,950 |
| 59,000 | PUGET SOUND PWR & LIGHT | 612,125 |
| 33,700 | PULTE HOME CORP | 417,038 |
| 11,000 | PUROLATOR | 354,750 |
| 15,500 | QUAKER OATS CO | 988,125 |
| 47,400 | QUAKER ST OIL REFINING | 770,250 |
| 34,200 | QUOTRON SYSTEMS INC | 367,650 |
| 20,000 | R.P.M. INC OHIO | 270,000 |
| 5,000 | R10 GRANDE INDS INC | 209,375 |
| 20,000 | RAINIER BANCORP | 732,500 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 91,200 | RALSTON PURINA CO | \$ 2,770,200 |
| 77,000 | RANGER OIL LTD | 519,750 |
| 34,000 | RANSBURG CORP | 518,500 |
| 6,000 | RAYCHEM CORP | 324,000 |
| 65,700 | RAYTHEON CO | 2,496,600 |
| 58,900 | RCA CORP | 1,862,713 |
| 65,000 | READING & BATES CORP | 723,125 |
| 40,000 | REDMAN INDS INC | 375,000 |
| 58,000 | REEVES COMMUNICATION | 406,000 |
| 25,000 | REPUBLIC BANK CORP | 662,500 |
| 23,300 | REPUBLIC N Y CORP | 751,425 |
| 11,000 | RESORTS INTL | 389,125 |
| 24,350 | REVCO D.S. | 681,800 |
| 27,700 | REVLON INC | 1,076,838 |
| 45,000 | REXNORD INC | 686,250 |
| 20,000 | REYNOLDS & REYNOLDS | 575,000 |
| 21,000 | REYNOLDS METALS CO | 590,625 |
| 24,000 | RICHARDSON VICKS | 639,000 |
| 51,000 | RITE AID CORP | 1,051,875 |
| 39,800 | ROADWAY SVCS INC | 1,024,850 |
| 18,500 | ROBERTSON H H CO | 783,938 |
| 44,100 | ROBINS A.H. INC | 628,425 |
| 39,000 | ROCHESTER GAS & ELECTRIC | 541,125 |
| 22,000 | ROCHESTER TEL CORP | 624,250 |
| 116,900 | ROCKWELL INTL CORP | 3,170,913 |
| 19,800 | ROHM & HAAS CO | 1,059,300 |
| 19,800 | ROHR INDS INC | 678,150 |
| 21,000 | ROLLINS COMMUNICATION | 317,625 |
| 35,000 | ROLLINS INC | 669,375 |
| 19,600 | ROLM CORP | 779,100 |
| 27,000 | RORER GROUP INC | 850,500 |
| 22,000 | ROUSE CO | 715,000 |
| 76,000 | ROWAN COMPANIES INC | 826,500 |
| 21,000 | RPC ENERGY SVCS INC | 81,375 |
| 19,000 | RUBBERMAID INC | 717,250 |
| 29,000 | RYAN HOMES INC | 551,000 |
| 19,570 | RYDER SYSTEMS INC | 856,188 |
| 37,000 | RYKOFF S E & CO | 518,000 |
| 33,000 | SABINE CORP | 647,625 |
| 38,400 | SAFECO CORP | 1,200,000 |
| 19,000 | SAFETY KLEEN CORP | 641,250 |
| 57,400 | SAFEWAY STORES INC | 1,320,200 |
| 18,000 | SAGA CORP | 531,000 |
| 37,000 | SAN DIEGO GAS & ELECTRIC | 666,000 |
| 21,700 | SANDERS ASSOCIATES | 927,675 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|-------------------------|-----------------|
| 146,245 | SANTA FE SO. PACIFIC | \$ 3,308,793 |
| 10,900 | SAVANNAH FOODS & IND | 487,775 |
| 46,000 | SCA SVCS INC | 954,500 |
| 38,500 | SCHERING PLOUGH CORP | 1,491,875 |
| 224,400 | SCHLUMBERGER LTD | 10,154,100 |
| 48,900 | SCI SYS INC | 678,488 |
| 33,000 | SCIENTIFIC ATLANTA INC | 288,750 |
| 27,000 | SCITEX LTD | 519,750 |
| 19,000 | SCM CORP | 752,875 |
| 27,000 | SCOA INDS INC | 705,375 |
| 15,300 | SCOTT & FETZER CO | 799,425 |
| 44,900 | SCOTT PAPER CO | 1,234,750 |
| 16,000 | SCOVILL | 384,000 |
| 41,400 | SEAGATE TECHNOLOGY | 424,350 |
| 24,000 | SEALED POWER CORP | 585,000 |
| 37,300 | SEARLE GD & CO | 1,706,475 |
| 283,100 | SEARS ROEBUCK & CO | 8,917,650 |
| 28,635 | SECURITY PACIFIC CORP | 1,209,829 |
| 19,400 | SEDCO INC | 657,175 |
| 29,400 | SENSORMATIC ELECTRS | 224,175 |
| 24,500 | SERVICE CORP INTL | 967,750 |
| 44,000 | SERVICE MERCHANDISE | 610,500 |
| 21,000 | SERVICEMASTER INDS INC | 588,000 |
| 17,000 | SFN COS INC | 433,500 |
| 29,000 | SHAKLEE CORP | 456,750 |
| 20,700 | SHARED MED. SYSTEMS | 597,713 |
| 10,000 | SHAWMUT CORP | 425,000 |
| 30,000 | SHELLER GLOBE CORP | 536,250 |
| 25,000 | SHERWIN WILLIAMS CO | 706,250 |
| 28,000 | SHONEYS INC | 731,500 |
| 84,500 | SIGNAL COS INC | 2,228,688 |
| 25,000 | SINGER CO | 725,000 |
| 36,000 | SKYLINE CORP | 445,500 |
| 43,000 | SMITH INTL INC | 688,000 |
| 61,800 | SMITHKLINE-BECKMAN CORP | 3,499,425 |
| 11,000 | SMUCKER J M CO | 423,500 |
| 21,200 | SNAP ON TOOLS CORP | 654,550 |
| 39,900 | SONAT INC | 1,291,763 |
| 1,000 | SONOCO PRODS CO | 42,000 |
| 36,000 | SOUTH CAROLINA ELECTRIC | 648,000 |
| 10,600 | SOUTHDOWN INC | 470,375 |
| 28,000 | SOUTHEAST BKG CORP | 619,500 |
| 88,600 | SOUTHERN CALIF. EDISON | 3,267,125 |
| 170,900 | SOUTHERN CO | 2,542,138 |
| 21,000 | SOUTHERN NEW ENGLAND | 637,875 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 31,000 | SOUTHERN UN CO | \$ 782,750 |
| 27,874 | SOUTHLAND CORP | 752,598 |
| 39,000 | SOUTHLAND RTY CO | 536,250 |
| 21,250 | SOUTHWEST AIRLINES | 451,563 |
| 25,000 | SOUTHWEST BANCSHARES | 484,375 |
| 74,360 | SOUTHWESTERN BELL CO | 4,154,865 |
| 32,000 | SOUTHWESTERN ENERGY | 664,000 |
| 39,000 | SOUTHWESTERN PUB SERVICE | 726,375 |
| 21,050 | SOVRAN FINANCIAL CORP | 626,238 |
| 45,600 | SPERRY CORP | 1,692,900 |
| 21,000 | SPRINGS INDS INC | 753,375 |
| 22,100 | SQUARE D CO | 734,825 |
| 40,100 | SQUIBB CORP | 1,849,613 |
| 38,000 | SRI CORP | 532,000 |
| 26,900 | ST. REGIS CORP | 1,018,838 |
| 15,600 | ST. PAUL COS. INC | 815,100 |
| 41,000 | STALEY A E MFG CO | 855,875 |
| 34,000 | STANDARD MTR PRODS INC | 595,000 |
| 89,200 | STANDARD OIL CO OHIO | 3,891,350 |
| 279,900 | STANDARD OIL OF CALIF | 9,796,500 |
| 240,800 | STANDARD OIL OF IND | 13,755,700 |
| 6,000 | STANDARD PRODS CO | 99,000 |
| 30,700 | STANLEY WKS | 663,888 |
| 20,000 | STATE STREET BOSTON | 680,000 |
| 36,000 | STAUFFER CHEMICAL CO | 634,500 |
| 47,300 | STERLING DRUG INC | 1,265,275 |
| 27,000 | STEVENS J.P. | 556,875 |
| 18,000 | STONE CONTAINER CORP | 567,000 |
| 15,000 | STOP & SHOP INC | 661,875 |
| 52,000 | STORAGE TECHNOLOGY | 507,000 |
| 19,000 | STORER COMMUNICATION | 762,375 |
| 25,000 | STRYKER CORP | 531,250 |
| 8,000 | SUBARU OF AMERICA INC | 736,000 |
| 17,000 | SUN BKS INC | 408,000 |
| 88,400 | SUN INC | 4,442,100 |
| 14,800 | SUNDSTRAND CORP | 599,400 |
| 54,000 | SUNSHINE MNG CO | 607,500 |
| 28,600 | SUPER VALU STORES INC | 815,100 |
| 59,483 | SUPERIOR OIL CO | 2,520,592 |
| 19,000 | SUPERMARKETS GEN CORP | 460,750 |
| 22,000 | SWIFT INDPT CORP | 574,750 |
| 31,000 | SYBRON CORP | 558,000 |
| 25,600 | SYNTEX CORP | 1,100,800 |
| 26,000 | SYSO CORP | 789,750 |
| 24,000 | SYSTEMS & COMPUTER TECH | 600,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|------------------------|-----------------|
| 12,000 | TAFT BROADCASTING | \$ 780,000 |
| 12,000 | TAMBRANDS INC | 621,000 |
| 32,600 | TANDEM COMPUTERS INC | 766,100 |
| 38,000 | TANDON CORP | 270,750 |
| 81,300 | TANDY CORP | 2,113,800 |
| 24,000 | TECO ENERGY INC | 600,000 |
| 7,000 | TECUMSEH PRODS CO | 556,500 |
| 7,000 | TEJON RANCH CO | 609,000 |
| 14,800 | TEKTRONIX INC | 839,900 |
| 32,600 | TELE COMMUNICATIONS | 627,550 |
| 87,000 | TELECOM PLUS INTL CO | 870,000 |
| 15,100 | TELEDYNE INC | 3,633,438 |
| 19,000 | TELEX CORP | 508,250 |
| 32,000 | TELLABS INC | 760,000 |
| 19,436 | TEMPLE INLAND | 512,625 |
| 115,300 | TENNECO INC | 4,309,338 |
| 18,000 | TERADYNE INC | 492,750 |
| 44,000 | TESORO PETE CORP | 731,500 |
| 195,200 | TEXACO INC | 6,588,000 |
| 17,000 | TEXAS AMERN BANCSHARES | 614,125 |
| 31,500 | TEXAS COMMERCE BANKS | 1,287,563 |
| 53,000 | TEXAS EASTERN CORP | 1,490,625 |
| 12,060 | TEXAS INDUSTRIES | 351,248 |
| 18,200 | TEXAS INSTRUMENTS | 2,343,250 |
| 158,800 | TEXAS OIL & GAS CORP | 3,533,300 |
| 88,200 | TEXAS UTILITIES CO | 1,885,275 |
| 29,700 | TEXTRON INC | 846,450 |
| 9,900 | THOMAS & BETTS CORP | 670,725 |
| 8,000 | THOMPSON MED CO INC | 202,000 |
| 40,000 | THRIFTY CORP | 620,000 |
| 36,000 | TIDEWATER INC | 832,500 |
| 36,400 | TIE COMMUNICATIONS | 546,000 |
| 40,100 | TIME INC | 1,604,000 |
| 53,400 | TIMES MIRROR CO | 1,989,150 |
| 10,200 | TIMKEN CO | 540,600 |
| 10,000 | TODD SHIPYARDS CORP | 318,750 |
| 44,000 | TOLEDO EDISON CO | 665,500 |
| 34,000 | TORCHMARK CORP | 760,750 |
| 51,000 | TOYS R US | 2,256,750 |
| 16,000 | TRACOR INC | 380,000 |
| 7,541 | TRANS WORLD AIRL PFD | 754 |
| 19,722 | TRANS WORLD AIRLINES | 175,033 |
| 21,200 | TRANS WORLD CORP | 575,050 |
| 48,500 | TRANSAMERICA CORP | 1,091,250 |
| 18,100 | TRANSCO ENERGY CO | 782,825 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 58,700 | TRAVELERS CORP | \$ 1,672,950 |
| 20,000 | TRINITY INDS INC | 360,000 |
| 21,000 | TRUST CO GA ATLANTA | 582,750 |
| 27,300 | TRW INC | 1,754,025 |
| 23,500 | TYCO LABS | 769,625 |
| 22,000 | TYLER CORP | 533,500 |
| 44,000 | TYSON FOODS INC | 803,000 |
| 31,000 | U S BANCORP | 561,875 |
| 17,700 | U.S. GYPSUM CO | 858,450 |
| 74,360 | U.S. WEST CORP | 4,294,290 |
| 26,600 | UAL INC | 937,650 |
| 25,000 | ULTIMATE CORP | 490,625 |
| 500 | ULTRASYSTEMS INC | 9,875 |
| 44,400 | UNION CAMP CORP | 1,526,250 |
| 53,318 | UNION CARBIDE CORP | 2,719,218 |
| 95,500 | UNION ELEC CO | 1,217,625 |
| 89,000 | UNION PACIFIC CORP | 3,448,750 |
| 20,000 | UNIROYAL INC | 242,500 |
| 37,000 | UNITED ARTISTS THEATRE | 823,250 |
| 45,500 | UNITED BRANDS CO | 705,250 |
| 28,000 | UNITED ENERGY RES INC | 665,000 |
| 28,000 | UNITED ILLUM CO | 353,500 |
| 17,000 | UNITED STATES LEASING | 527,000 |
| 16,700 | UNITED STATES SHOE CO | 452,988 |
| 80,700 | UNITED STATES STEEL CO | 1,967,063 |
| 45,000 | UNITED STATES SURGICAL | 540,000 |
| 500 | UNITED STATIONERS INC | 10,500 |
| 3,000 | UNITED STOCKYARDS CO | 25,500 |
| 86,000 | UNITED TECHNOLOGIES | 2,795,000 |
| 65,200 | UNITED TELECOM. INC | 1,198,050 |
| 22,000 | UNITED VA BANKSHARES | 572,000 |
| 23,000 | UNITRODE CORP | 612,375 |
| 19,300 | UNIVERSAL FOODS CORP | 424,600 |
| 50,000 | UNIVERSAL HEALTH SERVICE | 587,500 |
| 131,700 | UNOCAL CORP | 4,411,950 |
| 24,300 | UPJOHN CO | 1,609,875 |
| 20,000 | US AIR GROUP | 545,000 |
| 36,000 | US FIDELITY & GUARANTY | 715,500 |
| 23,000 | USLIFE CORP | 580,750 |
| 31,000 | UTAH POWER & LIGHT CO | 639,375 |
| 32,400 | V F CORP | 785,700 |
| 37,000 | VALERO ENERGY CORP | 356,125 |
| 27,000 | VALLEY NATIONAL CORP | 634,500 |
| 20,000 | VALUE LINE INC | 665,000 |
| 19,900 | VARIAN ASSOC. INC | 776,100 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------|--------------------------|-----------------|
| 30,000 | VEECO INSTRS INC | \$ 630,000 |
| 28,000 | VERBATIM CORP | 283,500 |
| 22,000 | VIACOM INTERNATIONAL | 640,750 |
| 30,000 | VICORP RESTAURANTS INC | 525,000 |
| 10,000 | VULCAN MATLS CO | 615,000 |
| 18,000 | WACHOVIA CORP | 825,750 |
| 105,400 | WAL-MART STORES INC | 4,347,750 |
| 25,000 | WALGREEN CO | 865,625 |
| 22,000 | WALLACE COMPUTER SERVICE | 569,250 |
| 12,500 | WALTER JIM CORP | 307,813 |
| 104,100 | WANG LABS CL B | 2,940,825 |
| 22,000 | WARNACO INC | 533,500 |
| 52,200 | WARNER COMMUNICATION | 1,220,175 |
| 62,100 | WARNER LAMBERT | 1,948,388 |
| 26,000 | WASHINGTON NATL CORP | 464,750 |
| 10,000 | WASHINGTON POST B | 777,500 |
| 34,000 | WASHINGTON WTR PWR CO | 561,000 |
| 36,100 | WASTE MANAGEMENT | 1,177,763 |
| 24,000 | WATKINS JOHNSON CO | 594,000 |
| 32,000 | WD 40 CO | 736,000 |
| 14,000 | WELLS FARGO & CO | 449,750 |
| 24,000 | WELLS FARGO MTG & EQTY | 576,000 |
| 64,800 | WENDYS INTL INC | 1,109,700 |
| 25,000 | WEST INC | 581,250 |
| 15,000 | WEST POINT PEPPERELL | 596,250 |
| 7,000 | WESTERN CAS. & SURTY | 313,250 |
| 6,500 | WESTERN PAC INDS INC | 633,750 |
| 1,630 | WESTERN TEL COM | 22,005 |
| 17,900 | WESTERN UNION CORP | 411,700 |
| 132,600 | WESTINGHOUSE ELEC. CO | 2,917,200 |
| 27,000 | WESTMORELAND COAL CO | 648,000 |
| 14,700 | WESTVACO CORP | 499,800 |
| 33,000 | WETTERAU INC | 651,750 |
| 99,700 | WEYERHEUSER CO | 2,666,975 |
| 27,600 | WHIRLPOOL CORP | 1,079,850 |
| 15,000 | WHITE CONS INDS INC | 414,375 |
| 36,600 | WHITTAKER CORP | 677,100 |
| 21,000 | WILLAMETTE INDS INC | 498,750 |
| 16,000 | WILLIAMS COS | 420,000 |
| 32,200 | WINN DIXIE STORES INC | 921,725 |
| 85,000 | WINNEBAGO IND INC | 871,250 |
| 26,400 | WISCONSIN ELEC. POWER | 735,900 |
| 24,000 | WISCONSIN PUB SVC CO | 666,000 |
| 26,000 | WISCONSIN PWR & LT CO | 711,750 |
| 28,000 | WISER OIL CO DEL | 595,000 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL PASSIVE EQUITY FUND HOLDINGS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|------------------------|-----------------------|-------------------------|
| 17,000 | WITCO CHEMICAL CORP | \$ 537,625 |
| 27,000 | WOODS PETE CORP | 621,000 |
| 23,800 | WOOLWORTH F W CO | 835,975 |
| 33,000 | WORTHINGTON INDS INC | 680,625 |
| 12,000 | WRIGLEY WM JR CO | 645,000 |
| 21,200 | WYMAN-GORDON CO | 556,500 |
| 72,100 | XEROX CORP | 2,766,838 |
| 32,200 | XIDEX CORP | 499,100 |
| 24,000 | XTRA CORP | 549,000 |
| 14,900 | YELLOW FREIGHT SYSTEM | 352,013 |
| 18,700 | ZAYRE CORP | 701,250 |
| 18,900 | ZENITH ELECTRONICS CO | 448,875 |
| 23,000 | ZURN INDS INC | 517,500 |
| TOTAL PORTFOLIO | | \$ 1,243,869,655 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALPHABETICAL ACTIVE EQUITY MANAGER BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|---|--------------------------|------------|---------|---------------------|
| HELLMAN JORDAN MANAGEMENT | | | | |
| 7,870,000 | U.S.A. TREASURY NOTE | 08/15/1993 | 11.875% | \$ 7,058,367 |
| 9,175,000 | U.S.A. TREASURY BOND | 08/15/2013 | 12.000% | 8,022,345 |
| 610,000 | AMERICAN GENERAL CV. | 11/04/2008 | 11.000% | 756,400 |
| 525,000 | CROWN ZELLERBACH SER B | 05/01/2009 | 9.250% | 498,750 |
| TOTAL BOND PORTFOLIO | | | | \$16,335,862 |
| HERBERT R. SMITH INC. | | | | |
| 500,000 | FEDERAL NATIONAL MTG | 05/10/1985 | 11.300% | \$ 496,095 |
| 1,000,000 | FEDERAL NATIONAL MTG | 04/10/1987 | 12.250% | 968,440 |
| 310,000 | SPARKMAN ENERGY CORP CV. | 04/01/2003 | 10.750% | 313,100 |
| TOTAL BOND PORTFOLIO | | | | \$ 1,777,635 |
| MINNESOTA INDEX FUND - WILSHIRE ASSOCIATES | | | | |
| 987,925 | MOBIL CORP | 06/15/2004 | 14.400% | \$ 957,052 |
| TOTAL BOND PORTFOLIO | | | | \$ 957,052 |

MINNESOTA STATE BOARD OF INVESTMENT
 POOLED BOND FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|--------------------------|------------|---------|-----------------|
| 250,000 | ALLSTATE FINANCIAL CORP | 04/15/1987 | 8.125% | \$ 216,968 |
| 7,000,000 | AMERICAN EXPRESS | 07/01/1990 | 10.100% | 5,853,260 |
| 450,000 | AMERICAN INVESTMENT | 11/01/1986 | 6.750% | 378,576 |
| 668,000 | AMERICAN INVESTMENT | 01/01/1991 | 5.250% | 387,814 |
| 3,500,000 | AMERICAN TELEPHONE & TEL | 12/01/2003 | 7.125% | 1,912,400 |
| 17,241,000 | AMERICAN TELEPHONE & TEL | 08/01/2000 | 6.000% | 8,474,296 |
| 8,000 | ANOKA CTY SD 48 | 02/01/1985 | 3.200% | 8,785 |
| 66,000 | ANOKA/CIRCLE PINES | 01/01/1987 | 4.500% | 58,267 |
| 40,000 | APPALACHIAN ELEC POWER | 03/01/1987 | 4.625% | 32,520 |
| 7,500,000 | ATLANTIC RICHFIELD | 09/15/2012 | 12.500% | 6,530,025 |
| 10,093,883 | ATLANTIC RICHFIELD | 07/15/1996 | 9.250% | 7,227,018 |
| 6,000,000 | BEATRICE FOODS CO | 08/15/2008 | 8.500% | 3,771,120 |
| 14,000,000 | BELL TEL CO OF PENN | 05/01/2008 | 6.750% | 6,908,440 |
| 3,000,000 | BELL TEL CO OF PENN | 05/01/2001 | 4.750% | 1,225,770 |
| 8,809,250 | BRITISH COLUMBIA HYDRO | 07/15/1996 | 9.625% | 6,857,384 |
| 6,134,925 | BURLINGTON NORTHERN | 09/01/1993 | 8.750% | 4,461,747 |
| 1,900,000 | C.I.T. FINANCIAL CORP | 10/01/1986 | 6.375% | 1,673,881 |
| 90,000 | CANADIAN PACIFIC LTD | 01/15/1992 | 8.625% | 75,074 |
| 105,000 | CASS CITY/PINE RIVER | 09/01/1989 | 4.700% | 81,356 |
| 250,000 | CASTLE & COOKE INC | 05/15/1985 | 8.125% | 235,863 |
| 150,000 | CHASE MANHATTAN CORP | 05/15/1986 | 8.750% | 136,700 |
| 259,137 | CHESAPEAKE & OHIO RY | 03/15/1989 | 8.750% | 221,163 |
| 48,000 | CHISAGO 140 TAYLOR FLS | 02/01/1988 | 3.700% | 38,760 |
| 9,750,000 | CITIES SERVICE GAS | 09/15/2005 | 13.000% | 8,243,723 |
| 4,750,000 | CITIES SERVICE GAS | 06/01/1991 | 8.250% | 3,397,865 |
| 5,500,000 | CONSOLIATED NATURAL GAS | 10/01/2000 | 12.875% | 4,962,595 |
| 3,052,264 | CONSOLIDATED EDISON | 01/01/1996 | 9.250% | 2,290,847 |
| 10,000 | DAKOTA CTY SD 2 | 02/01/1985 | 3.900% | 9,712 |
| 16,000,000 | DAYTON HUDSON CO | 10/15/2012 | 11.875% | 13,322,710 |
| 12,213 | DETROIT EDISON CO | 06/30/1985 | 12.875% | 12,092 |
| 12,542 | DETROIT EDISON CO | 12/30/1985 | 12.875% | 12,363 |
| 20,000 | DOUGLAS ISD 213 OSASIS | 03/01/1989 | 3.900% | 15,495 |
| 5,000 | DOUGLAS ISD 214 CARLOS | 02/01/1986 | 3.900% | 4,571 |
| 8,000,000 | DOW CHEMICAL CO | 07/15/2007 | 7.875% | 4,620,960 |
| 2,114,000 | DRESSER INDUSTRIES | 05/15/1985 | 8.650% | 2,046,606 |
| 7,000,000 | DUKE POWER CO | 05/01/2009 | 10.125% | 4,936,120 |
| 15,000 | FARIBAULT/FREEBORN | 02/01/1985 | 2.750% | 14,380 |
| 13,000,000 | FEDERAL FARM CREDIT BANK | 10/20/1997 | 11.900% | 11,415,560 |
| 19,000,000 | FEDERAL FARM CREDIT BANK | 10/22/1990 | 10.600% | 16,328,030 |
| 10,000,000 | FEDERAL FARM CREDIT BANK | 10/21/1991 | 10.600% | 8,453,100 |
| 5,000,000 | FEDERAL FARM CREDIT BANK | 10/20/1986 | 10.750% | 4,745,300 |
| 12,500,000 | FEDERAL FARM CREDIT BANK | 04/22/1985 | 13.250% | 12,597,625 |
| 3,290,000 | FEDERAL HOME LOAN BANK | 08/27/1984 | 7.850% | 3,275,590 |
| 22,000,000 | FEDERAL HOME LOAN BANK | 07/26/1993 | 11.700% | 19,291,140 |
| 6,707,831 | FEDERAL HOME LOAN MTG | 10/01/2009 | 12.500% | 5,986,739 |

MINNESOTA STATE BOARD OF INVESTMENT
 POOLED BOND FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|--------------------------|------------|---------|-----------------|
| 6,793,590 | FEDERAL HOME LOAN MTG | 01/01/2010 | 12.500% | \$ 6,063,279 |
| 3,407,872 | FEDERAL HOME LOAN MTG | 07/01/2010 | 10.750% | 2,739,077 |
| 12,000,000 | FEDERAL NATIONAL MTG | 08/10/1984 | 11.100% | 12,000,000 |
| 17,000,000 | FEDERAL NATIONAL MTG | 11/12/1990 | 10.900% | 14,790,000 |
| 15,000,000 | FEDERAL NATIONAL MTG | 05/10/1990 | 10.300% | 12,796,800 |
| 5,500,000 | FEDERAL NATIONAL MTG | 06/10/1988 | 10.500% | 4,946,535 |
| 11,400,000 | FIRESTONE TIRE & RUBBER | 12/01/2004 | 9.250% | 7,282,320 |
| 3,600,000 | FIRST INTERSTATE BANCORP | 04/15/1988 | 10.500% | 3,238,596 |
| 3,000,000 | FLORIDA POWER & LIGHT | 05/01/2010 | 11.300% | 2,316,060 |
| 7,000,000 | FLORIDA POWER & LIGHT | 11/01/2009 | 12.125% | 5,768,770 |
| 11,200,000 | FMC CORP | 01/15/2000 | 9.500% | 7,885,024 |
| 250,000 | FORD MOTOR CREDIT CORP | 11/01/1984 | 8.100% | 246,655 |
| 565,985 | GNMA POOL # 02731 | 02/15/2004 | 8.000% | 377,795 |
| 1,103,067 | GNMA POOL # 03518 | 01/15/2004 | 8.000% | 736,297 |
| 1,100,264 | GNMA POOL # 03802 | 07/15/2004 | 8.250% | 742,678 |
| 684,143 | GNMA POOL # 04039 | 07/15/2004 | 8.250% | 461,797 |
| 454,393 | GNMA POOL # 04064 | 08/15/2004 | 8.250% | 306,715 |
| 136,985 | GNMA POOL # 04218 | 05/15/2004 | 8.000% | 91,438 |
| 40,409 | GNMA POOL # 04236 | 06/15/2004 | 8.000% | 26,973 |
| 823,503 | GNMA POOL # 04281 | 09/15/2004 | 8.250% | 555,864 |
| 65,953 | GNMA POOL # 05767 | 07/15/2005 | 8.000% | 44,024 |
| 480,358 | GNMA POOL # 06336 | 06/15/2005 | 8.000% | 320,639 |
| 444,777 | GNMA POOL # 07214 | 09/15/2005 | 8.000% | 296,889 |
| 22,561 | GNMA POOL # 08550 | 03/15/2006 | 8.250% | 15,229 |
| 217,243 | GNMA POOL # 09125 | 06/15/2006 | 8.250% | 146,639 |
| 512,713 | GNMA POOL # 09162 | 04/15/2006 | 8.250% | 346,081 |
| 76,099 | GNMA POOL # 09350 | 03/15/2006 | 8.250% | 51,367 |
| 506,585 | GNMA POOL # 09790 | 04/15/2006 | 8.250% | 341,945 |
| 461,294 | GNMA POOL # 10249 | 11/15/2006 | 8.000% | 307,914 |
| 547,578 | GNMA POOL # 10411 | 06/15/2006 | 8.000% | 365,508 |
| 583,419 | GNMA POOL # 10706 | 06/15/2006 | 8.000% | 389,432 |
| 153,679 | GNMA POOL # 10743 | 05/15/2006 | 8.250% | 103,733 |
| 727,595 | GNMA POOL # 10943 | 07/15/2006 | 8.000% | 485,670 |
| 630,849 | GNMA POOL # 11281 | 08/15/2006 | 8.000% | 421,092 |
| 482,103 | GNMA POOL # 11364 | 08/15/2006 | 8.000% | 321,804 |
| 239,742 | GNMA POOL # 11486 | 09/15/2006 | 8.250% | 161,826 |
| 757,352 | GNMA POOL # 11810 | 10/15/2006 | 8.000% | 505,532 |
| 1,077,396 | GNMA POOL # 11828 | 09/15/2006 | 8.000% | 719,162 |
| 788,532 | GNMA POOL # 12025 | 10/15/2006 | 8.000% | 526,345 |
| 763,217 | GNMA POOL # 12077 | 11/15/2006 | 8.000% | 509,448 |
| 495,322 | GNMA POOL # 12243 | 10/15/2006 | 8.000% | 330,627 |
| 586,160 | GNMA POOL # 12283 | 10/15/2006 | 8.000% | 391,262 |
| 2,412,961 | GNMA POOL # 12289 | 10/15/2006 | 8.000% | 1,610,652 |
| 481,083 | GNMA POOL # 12548 | 11/15/2006 | 8.000% | 321,123 |
| 610,177 | GNMA POOL # 12599 | 09/15/2006 | 8.000% | 407,293 |

MINNESOTA STATE BOARD OF INVESTMENT
 POOLED BOND FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|-------------------|------------|--------|-----------------|
| 647,113 | GNMA POOL # 12757 | 09/15/2006 | 8.000% | \$ 431,948 |
| 788,962 | GNMA POOL # 12777 | 11/15/2006 | 8.000% | 526,632 |
| 1,227,843 | GNMA POOL # 13099 | 10/15/2006 | 8.000% | 819,585 |
| 633,947 | GNMA POOL # 13255 | 11/15/2006 | 8.000% | 423,160 |
| 536,033 | GNMA POOL # 13262 | 11/15/2006 | 8.000% | 357,802 |
| 644,801 | GNMA POOL # 13297 | 11/15/2006 | 8.000% | 430,404 |
| 816,900 | GNMA POOL # 13327 | 11/15/2006 | 8.000% | 545,281 |
| 624,818 | GNMA POOL # 13334 | 10/15/2006 | 8.000% | 417,066 |
| 1,333,387 | GNMA POOL # 13380 | 12/15/2006 | 8.000% | 890,036 |
| 804,276 | GNMA POOL # 13935 | 01/15/2007 | 8.000% | 536,854 |
| 1,201,114 | GNMA POOL # 14053 | 12/15/2006 | 8.000% | 801,743 |
| 815,674 | GNMA POOL # 14174 | 12/15/2006 | 8.000% | 544,462 |
| 775,513 | GNMA POOL # 14188 | 10/15/2006 | 8.000% | 517,655 |
| 684,132 | GNMA POOL # 14919 | 02/15/2007 | 8.000% | 456,658 |
| 1,543,288 | GNMA POOL # 15012 | 12/15/2006 | 8.000% | 1,030,144 |
| 717,613 | GNMA POOL # 15616 | 01/15/2007 | 8.000% | 479,007 |
| 1,199,573 | GNMA POOL # 15783 | 01/15/2007 | 8.000% | 800,715 |
| 879,843 | GNMA POOL # 16051 | 01/15/2008 | 8.000% | 587,295 |
| 373,414 | GNMA POOL # 17086 | 11/15/2007 | 8.000% | 249,254 |
| 958,374 | GNMA POOL # 17566 | 03/15/2008 | 8.000% | 639,715 |
| 1,605,443 | GNMA POOL # 17619 | 08/15/2007 | 8.000% | 1,071,633 |
| 732,443 | GNMA POOL # 18099 | 08/15/2007 | 8.000% | 488,906 |
| 810,374 | GNMA POOL # 18224 | 09/15/2007 | 8.000% | 540,925 |
| 871,406 | GNMA POOL # 18279 | 01/15/2008 | 8.000% | 581,663 |
| 81,950 | GNMA POOL # 18542 | 09/15/2007 | 8.000% | 54,702 |
| 1,736,399 | GNMA POOL # 18553 | 09/15/2007 | 8.000% | 1,159,046 |
| 1,734,204 | GNMA POOL # 19083 | 12/15/2007 | 8.000% | 1,157,581 |
| 719,514 | GNMA POOL # 19157 | 10/15/2007 | 8.000% | 480,276 |
| 758,905 | GNMA POOL # 19311 | 10/15/2007 | 8.000% | 506,569 |
| 717,022 | GNMA POOL # 19458 | 08/15/2007 | 8.000% | 478,612 |
| 858,922 | GNMA POOL # 19574 | 12/15/2007 | 8.000% | 573,331 |
| 1,730,935 | GNMA POOL # 20008 | 11/15/2007 | 8.000% | 1,155,399 |
| 781,388 | GNMA POOL # 20109 | 12/15/2007 | 8.000% | 521,576 |
| 1,602,223 | GNMA POOL # 20197 | 09/15/2007 | 8.000% | 1,069,484 |
| 1,718,789 | GNMA POOL # 20289 | 11/15/2007 | 8.000% | 1,147,292 |
| 847,317 | GNMA POOL # 20290 | 12/15/2007 | 8.000% | 565,584 |
| 813,600 | GNMA POOL # 20305 | 11/15/2007 | 8.000% | 543,078 |
| 853,544 | GNMA POOL # 20455 | 12/15/2007 | 8.000% | 569,741 |
| 817,487 | GNMA POOL # 20489 | 10/15/2007 | 8.000% | 545,673 |
| 1,583,727 | GNMA POOL # 20691 | 12/15/2007 | 8.000% | 1,057,137 |
| 853,426 | GNMA POOL # 20761 | 10/15/2007 | 8.000% | 569,662 |
| 690,004 | GNMA POOL # 20819 | 10/15/2007 | 8.000% | 460,578 |
| 840,456 | GNMA POOL # 20916 | 11/15/2007 | 8.000% | 561,004 |
| 817,870 | GNMA POOL # 20963 | 11/15/2007 | 8.000% | 545,928 |
| 1,681,060 | GNMA POOL # 21013 | 11/15/2007 | 8.000% | 1,122,107 |

MINNESOTA STATE BOARD OF INVESTMENT
 POOLED BOND FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|--------------------------|------------|---------|-----------------|
| 856,555 | GNMA POOL # 21113 | 10/15/2007 | 8.000% | \$ 571,751 |
| 835,056 | GNMA POOL # 21131 | 12/15/2007 | 8.000% | 557,400 |
| 822,356 | GNMA POOL # 21329 | 12/15/2007 | 8.000% | 548,923 |
| 828,401 | GNMA POOL # 21487 | 11/15/2007 | 8.000% | 552,958 |
| 1,567,703 | GNMA POOL # 21694 | 02/15/2008 | 8.000% | 1,046,442 |
| 1,667,720 | GNMA POOL # 21772 | 12/15/2007 | 8.000% | 1,113,203 |
| 1,646,393 | GNMA POOL # 21790 | 12/15/2007 | 8.000% | 1,098,967 |
| 816,221 | GNMA POOL # 22022 | 01/15/2008 | 8.000% | 544,827 |
| 1,611,594 | GNMA POOL # 22832 | 09/15/2007 | 8.000% | 1,075,739 |
| 20,148 | GNMA POOL # 23012 | 03/15/2008 | 8.000% | 13,449 |
| 4,216,260 | GNMA POOL # 26157 | 10/15/2008 | 9.000% | 2,983,004 |
| 4,404,806 | GNMA POOL # 27963 | 11/15/2008 | 9.000% | 3,116,400 |
| 967,678 | GNMA POOL # 31488 | 07/15/2009 | 9.000% | 684,632 |
| 2,918,526 | GNMA POOL # 34131 | 08/15/2009 | 9.500% | 2,141,469 |
| 4,571,421 | GNMA POOL # 35013 | 01/15/2010 | 11.000% | 3,714,280 |
| 3,781,556 | GNMA POOL # 35047 | 10/15/2009 | 9.500% | 2,774,717 |
| 2,861,312 | GNMA POOL # 35549 | 08/15/2009 | 9.500% | 2,099,487 |
| 2,866,766 | GNMA POOL # 36021 | 09/15/2009 | 9.500% | 2,103,490 |
| 2,840,000 | GULF OIL CORP | 06/15/1993 | 6.625% | 1,903,482 |
| 7,000,000 | HALLIBURTON CO | 06/01/2005 | 10.200% | 5,241,320 |
| 9,000,000 | HAWAIIAN TELEPHONE | 10/01/2010 | 13.375% | 8,126,820 |
| 10,000 | HENN CTY ISD 17 EDINA | 02/01/1987 | 4.000% | 8,829 |
| 7,000,000 | HERTZ CORP | 02/15/1999 | 9.500% | 4,897,690 |
| 1,800,000 | HOUSEHOLD FINANCE | 01/01/1990 | 7.250% | 1,387,116 |
| 4,000,000 | HOUSTON LIGHTING & POWER | 06/01/2010 | 12.000% | 3,166,440 |
| 10,000,000 | HOUSTON NATURAL GAS CO | 11/15/1992 | 11.000% | 8,460,500 |
| 4,000,000 | ILLINOIS BELL TEL & TEL | 07/01/2003 | 4.375% | 1,490,560 |
| 50,000 | INDIANA & MICH ELEC | 02/01/1988 | 3.875% | 36,146 |
| 5,000,000 | INT'L BUS. MACHINES | 10/01/1986 | 9.500% | 4,608,450 |
| 5,000 | ISANTI/PINE/KANABEC | 02/01/1986 | 4.000% | 4,578 |
| 3,160,000 | LACHMAR HULL 54 US | 09/25/1988 | 14.000% | 3,196,719 |
| 25,000 | LAKE CTY/BEAVER BAY | 01/01/1987 | 5.000% | 22,406 |
| 1,200,000 | LINCOLN NATIONAL CORP | 09/15/1992 | 13.875% | 1,167,432 |
| 8,000 | LINCOLN/LYON 409 TYLER | 02/01/1986 | 4.300% | 7,392 |
| 5,966,628 | LNM ACCEPTANCE CORP | 12/01/1986 | 9.100% | 5,450,455 |
| 1,313,709 | LOUISVILLE & NASHVILLE | 10/20/1991 | 9.000% | 994,543 |
| 5,161,666 | LOUISVILLE & NASHVILLE | 04/20/1992 | 8.375% | 4,089,123 |
| 1,500,000 | LOUISVILLE & NASHVILLE | 12/01/1987 | 4.875% | 1,207,500 |
| 9,375,000 | MANITOBA HYDRO ELEC | 10/15/1997 | 7.650% | 5,710,313 |
| 2,000,000 | MANITOBA, PROVINCE OF | 11/01/1993 | 6.875% | 1,243,760 |
| 6,200,000 | MARATHON OIL CO | 02/01/2000 | 8.500% | 3,721,178 |
| 6,000,000 | MARTIN-MARIETTA CORP | 03/15/2011 | 7.000% | 2,915,820 |
| 30,000 | MCLEOD CTY SD 38 | 02/01/1987 | 3.900% | 26,109 |
| 30,000 | METRO WTR DIST SO CAL | 08/01/1985 | 4.000% | 28,591 |
| 150,000 | METRO WTR DIST SO CAL | 04/01/1986 | 4.000% | 142,953 |

MINNESOTA STATE BOARD OF INVESTMENT
 POOLED BOND FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|--------------|--------------------------|------------|---------|-----------------|
| 25,000 | MILLE LACS SD 4/1 BOCK | 03/01/1989 | 3.900% | \$ 19,039 |
| 800,000 | MINNESOTA POWER & LIGHT | 09/01/2006 | 8.700% | 490,928 |
| 5,122,817 | MISSOURI PACIFIC RR | 06/01/1995 | 12.750% | 4,703,464 |
| 5,586,070 | MISSOURI PACIFIC RR | 06/01/1994 | 9.750% | 4,284,292 |
| 628,000 | MOORE-MCCORMACK LINES | 04/01/1987 | 5.750% | 542,919 |
| 30,000 | MORRISON/TODD ISD 486 | 02/01/1988 | 3.800% | 24,316 |
| 7,000 | MOWER/FREEMAN JISD 27 | 01/01/1986 | 3.000% | 6,400 |
| 5,000 | NOBLES CTY ICSD 119 | 09/01/1984 | 3.300% | 4,937 |
| 1,200,000 | NORTHERN STATES POWER | 01/01/2004 | 8.375% | 739,020 |
| 5,420,000 | NORTHWESTERN BELL TEL | 06/01/1998 | 4.875% | 2,480,463 |
| 10,500,000 | NORTHWESTERN BELL TEL | 08/15/2016 | 9.500% | 6,992,580 |
| 11,400,000 | NORWEST CORP | 09/15/1986 | 7.875% | 10,129,812 |
| 12,785,000 | NORWEST FINANCIAL | 07/01/1990 | 12.750% | 12,052,292 |
| 4,650,000 | NOVA SCOTIA POWER | 07/15/1998 | 8.125% | 2,920,898 |
| 3,000,000 | NOVA SCOTIA POWER | 03/15/1997 | 7.750% | 1,809,510 |
| 3,000,000 | NOVA SCOTIA POWER | 06/01/2008 | 9.625% | 2,005,950 |
| 2,900,000 | NOVA SCOTIA, PROVINCE OF | 08/01/1993 | 7.250% | 1,875,546 |
| 10,218,000 | ONTARIO HYDRO | 03/15/1996 | 9.500% | 7,625,183 |
| 1,000,000 | ONTARIO, PROVINCE OF | 06/15/2005 | 9.125% | 658,120 |
| 1,350,000 | ONTARIO, PROVINCE OF | 12/01/1997 | 6.875% | 766,692 |
| 3,800,000 | ONTARIO, PROVINCE OF | 05/15/2001 | 7.850% | 2,252,602 |
| 7,500,000 | ONTARIO, PROVINCE OF | 12/15/2002 | 7.300% | 4,115,400 |
| 3,500,000 | ONTARIO, PROVINCE OF | 06/01/2008 | 9.375% | 2,330,650 |
| 13,100,000 | ONTARIO, PROVINCE OF | 11/30/2008 | 9.375% | 8,712,286 |
| 1,100,000 | ONTARIO, PROVINCE OF | 04/15/1997 | 5.625% | 560,472 |
| 9,000,000 | OWENS ILLINOIS INC | 06/01/1990 | 10.375% | 7,667,370 |
| 100,000 | PACIFIC GAS & ELECTRIC | 06/01/1985 | 9.500% | 97,254 |
| 6,000,000 | PACIFIC NORTHWEST BELL | 10/01/2010 | 8.625% | 3,643,380 |
| 8,500,000 | PACIFIC TEL & TEL | 11/01/2020 | 15.000% | 8,471,865 |
| 2,000,000 | PFIZER INC | 08/15/2000 | 9.250% | 1,411,400 |
| 12,000,000 | PUBLIC SERVICE CO OF IND | 09/01/1990 | 12.125% | 10,155,960 |
| 25,000 | RICE ISD 656 FARIBAULT | 01/01/1987 | 3.400% | 21,570 |
| 14,700,000 | SASKATCH., PROVINCE OF | 04/15/2008 | 9.250% | 9,634,968 |
| 944,797 | SEABOARD COAST LINE RR | 04/01/1992 | 9.000% | 707,436 |
| 386,087 | SEABOARD COAST LINE RR | 10/01/1992 | 8.250% | 287,234 |
| 5,500,000 | SEAFIRST CORP | 06/01/1990 | 10.500% | 4,757,500 |
| 26,000 | SHERBURNE/VIL BIG LAKE | 07/01/1986 | 4.500% | 23,759 |
| 5,000,000 | SOUTH CENTRAL BELL TEL | 10/01/2020 | 12.875% | 4,347,450 |
| 6,300,000 | SOUTHERN BELL TEL & TEL | 10/05/2020 | 12.875% | 5,477,787 |
| 6,000,000 | SOUTHERN PACIFIC TRANS | 10/01/1992 | 8.250% | 5,988,720 |
| 4,750,000 | SOUTHWESTERN BELL TEL | 08/01/1995 | 4.625% | 2,327,453 |
| 250,000 | SPERRY RAND FINANCIAL | 02/01/1985 | 7.875% | 243,558 |
| 550,000 | SPRAGUE ELECTRIC CO | 09/01/1988 | 4.375% | 382,800 |
| 3,931,573 | STANDARD OIL (INDIANA) | 10/01/2000 | 9.000% | 2,683,062 |
| 1,163,819 | STANDARD OIL OF CALIF | 03/30/1997 | 7.700% | 728,504 |

MINNESOTA STATE BOARD OF INVESTMENT
 POOLED BOND FUND
 ALPHABETICAL BOND HOLDINGS
 JUNE 30, 1984

| PAR VALUE | SECURITY | MATURITY | COUPON | MARKET VALUE |
|----------------------|------------------------|------------|---------|-----------------|
| 1,244,082 | STANDARD OIL OF CALIF | 03/02/1997 | 7.700% | \$ 772,140 |
| 1,203,951 | STANDARD OIL OF CALIF | 02/10/1997 | 7.700% | 755,467 |
| 2,215,209 | STANDARD OIL OF CALIF | 09/07/1997 | 7.700% | 1,376,420 |
| 1,435,783 | STANDARD OIL OF CALIF | 09/08/1997 | 7.700% | 892,081 |
| 1,435,783 | STANDARD OIL OF CALIF | 11/06/1997 | 7.700% | 889,741 |
| 5,019,962 | STANDARD OIL OF CALIF | 07/02/1999 | 8.500% | 3,284,210 |
| 35,000 | STEARNS CTY ISD 93 | 07/01/1987 | 4.750% | 30,713 |
| 20,000 | STEELE/FREEBORN 30 | 01/01/1985 | 2.700% | 19,266 |
| 3,000 | STEELE/RICE JICSD 5 | 01/01/1985 | 3.000% | 2,825 |
| 14,500,000 | STUDEBAKER-WORTHINGTON | 11/15/2003 | 9.350% | 9,860,290 |
| 6,000,000 | TEXAS POWER & LIGHT | 01/01/2006 | 8.600% | 3,704,820 |
| 6,500,000 | TEXAS POWER & LIGHT | 02/01/2009 | 9.375% | 4,261,270 |
| 200,000 | TRAILMOBILE FINANCE | 11/15/1987 | 8.200% | 169,602 |
| 13,000,000 | U.S.A. TREASURY BOND | 11/15/2002 | 11.625% | 11,074,310 |
| 20,000,000 | U.S.A. TREASURY BOND | 11/15/2012 | 10.375% | 15,162,400 |
| 15,000,000 | U.S.A. TREASURY BOND | 11/15/2010 | 12.750% | 13,931,250 |
| 26,600,000 | U.S.A. TREASURY BOND | 11/15/1995 | 11.500% | 23,108,750 |
| 10,000,000 | U.S.A. TREASURY BOND | 02/15/2001 | 11.750% | 8,643,700 |
| 32,000,000 | U.S.A. TREASURY NOTE | 11/15/1992 | 10.500% | 26,779,840 |
| 47,000,000 | U.S.A. TREASURY NOTE | 04/30/1985 | 9.500% | 46,074,570 |
| 17,000,000 | U.S.A. TREASURY NOTE | 05/15/1993 | 10.125% | 13,823,040 |
| 8,500,000 | U.S.A. TREASURY NOTE | 05/31/1985 | 9.875% | 8,330,000 |
| 7,500,000 | U.S.A. TREASURY NOTE | 02/15/1987 | 9.000% | 6,808,575 |
| 20,000,000 | U.S.A. TREASURY NOTE | 11/15/1984 | 14.375% | 20,218,800 |
| 6,000,000 | U.S.A. TREASURY NOTE | 11/15/1989 | 10.750% | 5,340,000 |
| 10,000,000 | UNION CAMP | 10/01/2012 | 12.750% | 8,870,600 |
| 6,000,000 | UNION TANK CAR | 12/15/1995 | 9.500% | 4,507,800 |
| 7,000,000 | USLIFE CORP | 10/15/1989 | 12.000% | 6,440,070 |
| 11,000,000 | USLIFE CORP | 10/15/1990 | 12.500% | 10,259,810 |
| 250,000 | UT CREDIT CORP | 06/01/1986 | 8.625% | 228,210 |
| 15,000 | WAB/GOOD/OLMSTD 50 141 | 02/01/1986 | 3.800% | 13,737 |
| 2,000 | WABASHA CTY CSD 2374 | 02/01/1985 | 3.750% | 1,926 |
| 15,000 | WABASHA/OLMSTEAD 806 | 06/01/1987 | 4.100% | 12,940 |
| 6,989,750 | WELLS FARGO & CO | 11/01/1998 | 8.625% | 4,281,152 |
| 10,000 | WINONA CTY/GOODVIEW | 01/01/1985 | 4.500% | 9,778 |
| TOTAL BOND PORTFOLIO | | | | \$807,677,389 |

MINNESOTA STATE BOARD OF INVESTMENT
 BASIC RETIREMENT FUNDS
 ALTERNATIVE EQUITY INVESTMENT FUNDS
 JUNE 30, 1984

| NO. OF SHARES | SECURITY | MARKET VALUE |
|-----------------------------------|-----------------------------------|-----------------|
| REAL ESTATE POOLED FUND | | |
| 300,000 | ROSENBERG REAL ESTATE EQUITY FUND | 300,000 |
| 14,184 | EQUITABLE LIFE ASSURANCE FUND | 48,468,702 |
| 20,860 | AETNA REAL ESTATE FUND | 44,172,705 |
| 10,478 | PRUDENTIAL REAL ESTATE FUND | 47,551,906 |
| TOTAL REAL ESTATE POOLED FUND | | \$140,493,313 |
| RESOURCE POOLED FUND | | |
| 20,000 | AMERICAN GAS & OIL I | 17,538,241 |
| 1,753,991 | AMERICAN GAS & OIL II | 5,250,000 |
| 262,878 | APACHE CORP | 262,878 |
| TOTAL RESOURCE POOLED FUND | | \$ 23,051,119 |
| VENTURE CAPITAL POOLED FUND | | |
| 375,000 | KOHLBERG KRAVIS, ROBERTS & CO. | 375,000 |
| 4,000 | NORTHWEST VENTURE PARTNERS | 4,000,000 |
| TOTAL VENTURE CAPITAL POOLED FUND | | 4,375,000 |