

INVESTMENT PERFORMANCE REVIEW

for

The Ohio Retirement Study Council

For the period ending June 30, 2001

October 10, 2001

The following analysis was prepared by Milliman USA, Inc. utilizing secondary data from statements provided by the plan trustee and/or custodian, Milliman USA computer software and selected information in the Milliman USA database. Reasonable care has been taken to assure the accuracy of the data contained herein, and all written comments are objectively stated and are based on facts gathered in good faith. Milliman USA disclaims responsibility, financial or otherwise, for the accuracy or completeness of this report.

Comparative Performance Study

TABLE OF CONTENTS

| Executive Summar | y and Explanation of Results | a – h |
|------------------|---------------------------------------|--------|
| Performance Sumn | nary | 1 – 2 |
| SECTION I | Total Fund | 3 - 9 |
| SECTION II | Domestic Equity | 10 -14 |
| SECTION III | Fixed Income | 15 -19 |
| SECTION IV | International | 20 -22 |
| SECTION V | Real Estate | 23 -24 |
| SECTION VI | Individual Funds vs. Target Policies | 25 -52 |
| APPENDIX | Actual vs. Benchmark Asset Allocation | |

Comparative Performance Study Period ending 6/30/2001 Executive Summary and Explanation of Exhibits

Milliman USA is pleased to present to the Council the most recent results of our ongoing, semi-annual comparative study of the performance of the five Ohio Statewide pension funds pursuant to Section 171.04 of the Revised Code. This is the fifth report prepared by Milliman USA pursuant to this authority. The purpose of this comparative report is to provide the framework for dialogue with the retirement systems to assist the Council in meeting its oversight responsibilities. The legislature guarantees the defined benefit pension benefits that are paid to participants and determines maximum contribution rates. Underscoring the importance of investment results is the fact that the majority of the benefits paid are typically funded by investment income. This report reflects investment performance for all five retirement systems over the seven and one half-year period beginning January 1, 1994 and ending June 30, 2001

Our findings may be summarized as follows:

- The most recent twelve months (7/1/00 6/30/01) was a difficult period for all
 of the funds. All experienced negative results, ranging from -4.59% (HPRS
 and PERS) to -6.98% (SERS) and compared to a broad universe of public
 retirement systems, all of the Statewide funds were in the third and fourth
 quartiles
- Longer term, with the exception of HPRS, the funds have exceeded their actuarial interest-rate assumptions over the measurement period.
- Also longer term, OP&F is the only fund that had results that were ahead of it's own benchmark for the seven and one half-year measurement period (1/1/94 – 6/30/01), outperforming it by 0.27%. HPRS had the worst results relative to benchmark, underperforming by 4.08%.
- SERS has had the best results over the full measurement period, achieving an average return of 10.9%.
- HPRS' 7.49% average long-term results are troublesome, particularly if they persist into the future. The fund has, however, shown modest signs of improvement in the past year (the -4.59% return referenced above compares favorably to the -5.70% benchmark return for the period 7/1/00 to 6/30/01).

An important value of this type of report is its ability to provide an "apples to apples" comparison of the systems' investment results. Such a comparison is possible, since all of the Systems are subject to the same investment standards and restrictions and have been so from their inception. In light of the fact that rate

of return calculations are extremely sensitive to time period differences, it is critical that any comparative study be done with a consistent time frame, as was done in this report.

As is common practice when examining pension fund results we make reference throughout the first three sections of the report, to such things as quartile rankings and universe comparisons. The universes used for comparative purposes are those of the Wilshire Cooperative Universe Service. The comparisons are formulated by pooling data from a wide range of investment consulting firms and they provide a statistically valid measure of results relative to a large sample.

Before presenting this comparative data, we wish to caution against jumping to conclusions, particularly in volatile markets, regarding the investment performance of any of the systems based on a single performance report. Any investment program, no matter how sound, can expect to encounter unfavorable investment environments. It is important that the systems' long term results be reviewed for reasonableness and not judged on short-term performance, whether favorable or unfavorable. Because of the long-term nature of the systems' obligations, it is also important that the funds not be managed with near-term results in mind. Such market timing is a recipe for disaster.

Over the long term, it is reasonable for the Council to expect to see emerging investment performance reflecting the systems' investment policies and to make judgments regarding whether those policies are being effectively implemented. While reasonable people could disagree over the definition of long term, it is generally accepted that five years (twenty quarters) is a sufficient time period to provide meaningful analysis of such things as the value added (or subtracted) by deviations from policy targets and active vs. passive investment strategies. Our plan is to include such analysis when the systems have had five years to operate under the "prudent person" standard, which would be following the second quarter of 2002.

Several academic studies have concluded that more than 90% of the variability in returns on investment performance is attributable to the asset allocation between fixed income investments, equity investments, cash equivalents, and other investments. Ten percent or less of a portfolio's performance can be attributed to relative performance within a given asset class due to superior security selection and/or market timing. Consequently, we will focus a significant amount of attention on performance relative to the asset allocation of each of the funds.

The report begins with a table that summarizes the data that are analyzed further in the body of the document. Each system's results are displayed for periods ending 6/30/01, and broken out for the most recent quarter (4/1/01-6/30/01), two quarters (1/1/01-6/30/01), three quarters (10/1/00-6/30/01), one year (7/1/00-6/30/01), three years (7/1/98-6/30/01) and five years (7/1/98-6/30/01)

6/30/01). Here, as in the rest of the report, results for periods of one year or less are for that period (not annualized) and returns for periods of more than one year are annual compound returns for that period.

The Summary Table (pages 1&2) shows that for the seven and one half-year, since-inception measurement period ("Incept Ret" at the far right of the table), SERS had the highest total return (10.90% per year) and HPRS had the lowest total return (7.49% per year). Total Return, here and throughout the report, is defined as the return for the entire fund, including all asset classes.

For the five years ending 6/30/2001, SERS again had the highest total return (10.52% per year) and HPRS had the lowest total return (5.86% per year). For the twelve months ending 6/30/2001, all of the funds experienced negative returns. The smallest loss was experienced by HPRS and PERS (-4.59%) and the greatest loss was produced by SERS (-6.98%).

For the first half of this year (2 Qtrs. on the table and the period since our last report), all of the funds again suffered losses. HPRS produced the smallest loss of all the funds with a return of –2.61%. SERS had the greatest six-month loss – a total return of –3.07%.

Page 2 also includes a summary of the returns of the various benchmarks utilized by the funds. These may be used as reference points to compare the asset class results of the various funds. For example, for the seven and one half-year measurement period, the broad equity market, as defined by the Russell 3000 Index, returned 15.09% per year. None of the funds experienced equity performance that outperformed this index for the period.

In order to put performance in the proper context, it is important to understand the historical evolution of the investment restrictions imposed on the funds by statute. Prior to 1993 and the passage of S.B. 43, the investment authority of the funds was severely limited. Only 35% of each fund's assets could be invested in common stock and individual stock purchases were limited to domestic securities specified by a legal list. S.B. 43 expanded the legal list to include American Depository Receipts (ADRs), commingled stock investment funds, derivative instruments and real estate investment trusts (REITs). More importantly, the act permitted the funds to invest up to 50% of their total assets in U.S. stock and 10% in foreign stocks, bonds, and other obligations.

In March 1997, S.B. 82 abolished the legal list and adopted the "prudent person rule." The funds' investment authority under this act is expanded to allow any individual investment, so long as the overall portfolio is diversified. This allows for responses to changes in the economy and investment markets and reliance on professional investment managers and economic advisors to guide the decision making process. Along with this expansion of investment authority, however, comes the requirement of prudence and diligence in the development

of guidelines, benchmarks, and objectives, and importantly, mandates ongoing monitoring by those with fiduciary responsibility.

The majority of pension assets, in both the public and private sector, are managed with "prudent person" guidelines, which is to say largely without minimums or maximums placed on individual asset classes or securities. This approach, currently in place in the Ohio systems, is the optimal way to manage fund assets. It gives each fund the ability to develop an asset allocation strategy that is likely to maximize expected return while minimizing risk, all relative to the need to fund future obligations. Such an approach is fully consistent with the primary mandate of any pension fund – management that is in the best interest of plan participants.

The remainder of the report is divided into sections. **Section I** (pp. 3-9) provides additional analysis of the Total Fund results for each system. Pages 3 and 4 compare the Total Fund results to a broad universe of Total Funds – 944 other funds including those of public, corporate and multiemployer pension plans – over a seven-year measurement period. Here and elsewhere in the report, the "floating bars" define the universe against which the performance is being compared. The top of the bar is the 5th percentile, the higher dotted line is the 25th percentile (bottom of the first quartile), the solid line is the median, the lower dotted line is the 75th percentile (bottom of the third quartile) and the bottom of the bar is the 95th percentile. The table below the graph defines the quartile marks and the table at the bottom of the page displays each fund's return for that period and the relevant ranking in the universe. At the very bottom of the page is the return and rank of a hypothetical portfolio of 50% stocks (Wilshire 5000) and 50% bonds (Lehman Aggregate Bond Index).

Pages 5 through 8 are similar to pages 3 and 4. This time, however, the Total Fund results are compared to a universe comprised solely of the 130 Public Retirement Systems in the universe (pp. 5-6) and again (pp. 7-8) to funds with assets in excess of \$1 Billion (25 funds). The percentile rankings vary a bit, depending on the universe chosen, but the relative results are similar: SERS has the best long-term relative rankings, followed by OP&F and STRS.

In sections I-V, each of which compares all five funds' results for either the Total Fund or a particular asset class, there are both cumulative and consecutive period comparisons. The cumulative period graphs (pp. 3, and 5, for example) show quarter (4/1/01-6/30/01), one year (7/1/00-6/30/01), two year (7/1/99-6/30/01), three year (7/1/98-6/30/01), four year (7/1/97-6/30/01), five year (7/1/96-6/30/01), six year (7/1/95-6/30/01) and seven year (7/1/94-6/30/01) periods ending 6/30/01. The consecutive period graphs (pp. 4, 6 and 8, for example), on the other hand, look at the twelve months ending 6/30/95, the twelve months ending 6/30/96, etc. This second group of graphs can be useful for examining trends in performance. For example, both PERS and HPRS have

had relatively poor Total Fund results over the measurement period. An examination of the consecutive performance comparison on page 6, however, shows that PERS, after two particularly bad years in 1996 (94th percentile vs. other Public Funds) and 1997 (97th percentile), showed improvement in relative performance in 1998, 1999 and 2000. HPRS, on the other hand, exhibits a very different picture. After a good relative year in 1996 (37th percentile), results were in the fourth quartile of the Public Fund universe for the 12-month periods ending in June of 97, 98, 99 and 2000.

The most recent twelve months was a difficult year in relative terms for all of the Funds. Compared, again, to a broad universe of public retirement systems, all of the Statewide funds were in the third and fourth quartiles.

Page 9 provides the first analysis of risk. The seven and one half-year results of each Total Fund are displayed in risk-return space. The vertical axis shows the fund's return and the horizontal axis shows the fund's risk (defined as annualized quarterly standard deviation of returns) for the period. The diagonal line is the Capital Market Line, drawn by connecting the risk/return point of US T-bills (the theoretical risk-free rate) and the risk/return point of that hypothetical 50% stock, 50% bond portfolio defined above. This line is included because, theoretically, an investor could, using a combination of index funds and T-bills, have risk/return performance that is on the line. This analysis allows us to compare the two funds with the lowest return for the period (PERS and HPRS) and note that PERS' low return was achieved with the lowest risk (volatility) while HPRS return was achieved with the higher risk (volatility) of the two for the period.

Whenever risk and return are compared, a Sharpe Ratio is calculated for each fund or asset class being examined. This ratio, developed by the Nobel Prize-winning economist William Sharpe, is a measure of risk-adjusted return. It is designed to measure the expected return per unit of risk and is calculated by dividing the portfolio's return in excess of the risk-free T-bill rate by the variability of the portfolio's returns. While the absolute Sharpe Ratio number is not particularly meaningful, when comparing two funds or a fund and a benchmark, the Higher Sharpe Ratio is the better risk-adjusted return. HPRS stands out from the rest of the funds with respect to this comparison. All of the other funds have Sharpe Ratios within 8/100 of 0.50. The Sharpe Ratio for HPRS is 0.23. One could conclude from this comparison that on a risk-adjusted basis HPRS has done roughly half as well as the rest of the systems.

Section II focuses on US Equity results. The analysis is similar to the Total Fund analysis described above, with comparisons to a broad equity universe (pages 10 and 11) and to the equity returns of Public Funds (pages 12 and 13).

When compared to equity portfolios in the universe of Public Retirement Funds (pages 12-13), the Ohio systems, with the exception of HPRS, tend to be in or near the third quartile over the past five years (prior to 1997and the adoption of

the "prudent person" standard, equity universe comparisons are not particularly relevant). The SERS equity results are just below the median fund (57th percentile) and none of the large funds are below the third quartile (75th percentile). HPRS equity results for the past five years are in the 97th percentile.

Page 14 is a risk-return analysis of domestic equity portfolios for all of the funds. The Capital Market Line is drawn, this time, between T-bills and the Wilshire 5000, the proxy for the total US stock market. As noted above, here, and in every case where risk-return analysis is performed, a Sharpe Ratio is calculated, providing a means of comparing returns adjusted for risk. SERS, OP&F and STRS have enjoyed the best risk-adjusted equity results over the seven-year period. SERS, in particular, had "above the line" risk-adjusted equity results and a Sharpe Ratio greater than the broad-market Wilshire 5000 index.

Section III is an analysis of Fixed Income results. Each fund is compared, using an analytical framework similar to previous sections, to a broad universe of fixed income portfolios (pages 15 and 16) and to a Public Fund fixed income universe (pages 17 and 18). Compared to the broad fixed income universe, all of the funds' fixed income returns are near or above the median for the past seven years(7/1/94 - 6/30/01). STRS had particularly strong (21^{st} percentile vs. public funds) fixed income results over the full measurement period (1/1/94 - 6/30/01) and OP&F has had superior results (14^{th} percentile) for the most recent three years (7/1/98 - 6/30/01).

The risk/return analysis on page 19 shows that three of the funds' fixed income portfolios (STRS, PERS and OP&F) have enjoyed risk-adjusted returns (as measured by Sharpe Ratio) greater than the bond market as defined by the Lehman Aggregate Index. SERS has had the lowest Sharpe Ratio for the seven-year period (7/1/94 – 6/30/01). HPRS, with the lowest absolute fixed income results, also had the lowest risk in this asset class.

Section IV analyzes International Equity results. In this case, six and seven-year comparisons are not meaningful, since two of the funds have not had allocations to this asset class for that length of time. All funds have at least five years of history, however, so comparisons over that time period are valid.

On page 20 we see that over the five years ending 6/30/01(7/1/96 – 6/30/01) all of the funds have had International Equity returns that are below the median International Equity portfolio in our universe. On an absolute basis, these range from 6.78% (SERS) to 2.78% (STRS). HPRS had the best International Equity return for the most recent 12 months (-17.07%, in a down market for international investing).

On a risk/return basis (page 22), for the five-year common measurement period, the results are quite disparate. Only two funds, SERS and HPRS, had returns for

that period that were in excess of T-bills. On the other hand, only STRS underperformed the generic EAFE international benchmark for the period.

Section V looks at Real Estate. For the seven-year period (7/1/94 - 6/30/01), four of the funds' returns have been at or near the broad benchmark NCREIF (11.33%) annualized return. The exception is HPRS, whose return of 8.33% per year is well below the other funds. Returns for the most recent twelve months (7/1/00 - 6/30/01) show PERS and HPRS ahead of the other funds in this asset class.

We have not included a risk/return analysis for real estate. While institutional investors in real property compute and report quarterly returns, these returns are based on appraisals and are not appropriately compared with other investments which actually trade on a daily basis. An annualized quarterly standard deviation of returns for real estate is, in our judgement, a meaningless number.

Recognizing the importance of asset allocation in the determination of long-term investment results, **Section VI** is a departure from the rest of the document. Instead of comparing the funds to one another, this section provides a comparison of each fund's total return to its own asset allocation policy benchmark. Five exhibits are included for each fund. First we lay out the asset allocation of the fund in a pie chart. Second, we trace the asset allocation of the fund over the past 10 quarters (3/31/99 – 6/30/01). Third, we describe the custom benchmark that has been used to measure relative results. Fourth, we display the total fund's return compared to its custom benchmark (Policy Index). For reference, each asset class is then compared to a broad market index. (In order to be consistent, we use the same broad indexes for all funds. Many of the funds have individual asset class policy benchmarks which differ from these indexes.) Finally, we display the five-year total fund results in risk-return space compared to the custom benchmark.

The inclusion of this fund-by-fund analysis is an acknowledgement of the importance of comparing each fund to its own set of objectives. While it is valid to look at each of the state pension funds in relation to each other and in comparison to a universe of other funds, conclusions must not be drawn without reference to the unique nature of each fund. It is not sufficient to look at page 1 of the report and rank the funds in order of their long-term returns. For example, part of the difference between the 10.90% compound return for SERS over the measurement period (1/1/94 - 6/30/01) and the 8.36% compound return for PERS over the same period can be explained by the fact that the policy benchmark for SERS had a return of 11.37% (p. 48) for the period compared to the PERS policy benchmark return of 8.95% (p. 35). In the preparation of this section of the report, each fund office was contacted to confirm that the custom policy benchmark was appropriate.

When each fund is compared to its own asset allocation policies and actuarial interest rate assumptions (as of the most recent valuation) for the seven and one half-year measurement period, the following picture emerges: (funds are listed below in ascending order by their average annual return for the entire period)

| Fund | Annual Return Ben | chmark Annual Return | Actuarial Interest Rate | Valuation Date |
|-------------|-------------------|----------------------|-------------------------|----------------|
| HPRS | 7.49% | 11.66% | 8.00% | 12/31/00 |
| PERS | 8.36% | 8.95% | 7.75% | 12/31/00 |
| STRS | 9.81% | 10.66% | 7.75% | 7/1/00 |
| OP&F | 9.95% | 9.68% | 8.25% | 1/1/00 |
| SERS | 10.90% | 11.37% | 8.25% | 6/30/00 |

Most of the funds, when viewed in this manner, are within range of their target policies' returns for the measurement period. The exception, with respect to performance vs. benchmark, is HPRS, whose annual results are more than 400 basis points below the target policy benchmark return for the measurement period.

Again with the exception of HPRS, the funds have exceeded their actuarial interest-rate assumptions over the measurement period. With long U.S.Treasury bonds yielding less than 6% and stock market returns unlikely to be as predictable as they were in the 90s, however, this might be a good time to reexamine benchmarks and assumptions.

Another observation could be made from these long-term results. If you accept the premise that a fund's return can be divided into three basic components: 1)benchmark (market) return, 2)deviations from the benchmark and 3)security selection, only OP&F, whose results are slightly ahead of its benchmark for the period, has enjoyed any added value from active fund management over the past seven and one half years.

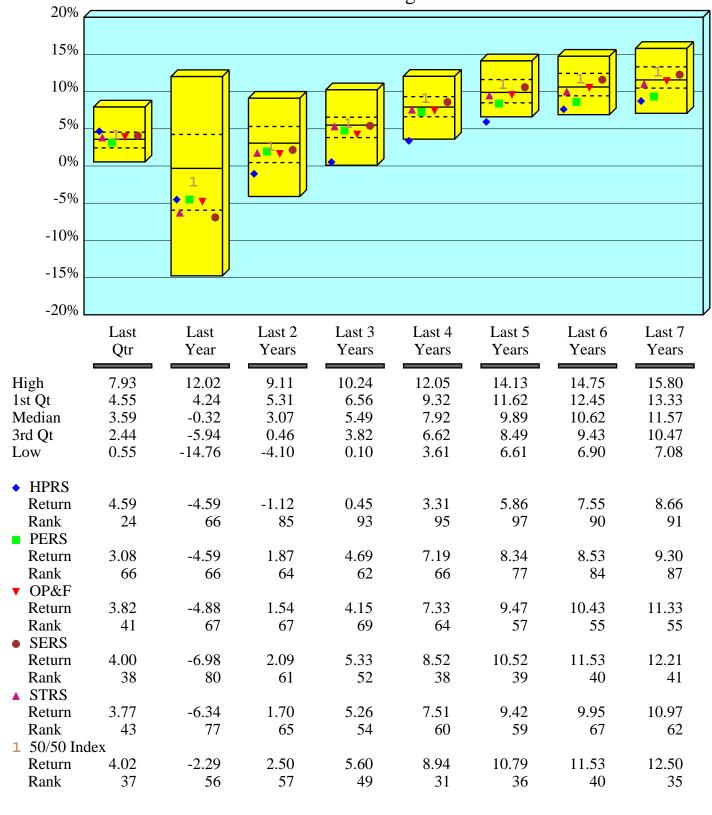
Performance Summary Table Quarter Ending 6/30/01

| | | | | | | | Since | Incept | Incept |
|----------------------|-------|--------|--------|--------|-------|-------|---------|----------|--------|
| Manager | 1 Qtr | 2 Otrs | 3 Otrs | 1 Year | 3 Yrs | 5 Yrs | 6/30/95 | Date | Ret |
| HPRS | | | | | | | | | |
| Total Return | 4.59 | -2.61 | -6.65 | -4.59 | 0.45 | 5.86 | 7.55 | 12/31/93 | 7.49 |
| Equity | 8.02 | -5.73 | | -12.95 | | 3.76 | 7.46 | 12/31/93 | 9.51 |
| Fixed Income | 0.76 | 3.66 | | 11.19 | | 7.31 | 6.94 | 12/31/93 | 6.52 |
| Cash & Equiv | 1.50 | 2.95 | 4.34 | 5.97 | 5.35 | 5.43 | 5.45 | 3/31/94 | 5.35 |
| Real Estate | 3.33 | 3.95 | | 14.51 | 9.44 | 9.10 | 8.87 | 12/31/93 | 8.03 |
| International Equity | 1.19 | -10.95 | -11.32 | -17.07 | 2.46 | 5.81 | 6.95 | 3/31/95 | 6.77 |
| PERS | | | | | | | | | |
| Total Return | 3.08 | -2.67 | -4.43 | -4.59 | 4.69 | 8.34 | 8.53 | 12/31/93 | 8.36 |
| Equity | 6.66 | -5.67 | -12.50 | -12.27 | 3.03 | 11.61 | 13.07 | 12/31/93 | 11.89 |
| Fixed Income | 0.78 | 4.45 | 8.61 | 11.81 | 6.40 | 7.57 | 7.15 | 12/31/93 | 7.19 |
| Cash & Equiv | 1.12 | 2.45 | 4.20 | 5.94 | 5.67 | 5.68 | 5.71 | 12/31/93 | 5.52 |
| Real Estate | 4.72 | 6.70 | 11.94 | 16.46 | 10.82 | 11.67 | 10.85 | 12/31/93 | 11.17 |
| International Equity | -0.61 | -13.75 | -17.57 | -24.25 | 1.45 | 4.35 | | 12/31/95 | 2.99 |
| OP&F | | | | | | | | | |
| Total Return | 3.82 | -2.63 | -4.84 | -4.88 | 4.15 | 9.47 | 10.43 | 12/31/93 | 9.95 |
| Equity | 7.65 | -3.86 | -8.84 | -6.73 | 4.28 | 12.93 | 14.76 | 12/31/93 | 13.87 |
| Fixed Income | 0.98 | 4.72 | 9.70 | 13.11 | 6.92 | 7.96 | 7.53 | 12/31/93 | 7.03 |
| Cash & Equiv | 1.13 | 2.66 | 4.33 | 5.91 | 5.58 | | | 9/30/96 | 5.14 |
| Real Estate | 1.80 | 7.50 | 10.20 | 11.90 | 11.81 | 12.03 | 12.53 | 12/31/93 | 11.17 |
| International Equity | 0.08 | -13.92 | -20.26 | -27.38 | 0.01 | 4.51 | 6.57 | 9/30/94 | 6.02 |
| SERS | | | | | | | | | |
| Total Return | 4.00 | -3.07 | -7.53 | -6.98 | 5.33 | 10.52 | 11.53 | 12/31/93 | 10.90 |
| Equity | 7.40 | -6.78 | -16.38 | -15.63 | 3.80 | 13.16 | 15.05 | 12/31/93 | 14.65 |
| Fixed Income | 0.80 | 4.23 | 9.02 | 12.29 | 6.49 | 7.74 | 7.31 | 12/31/93 | 6.68 |
| Cash & Equiv | 1.50 | 4.14 | 6.43 | 9.09 | 6.55 | 6.13 | 6.06 | 12/31/93 | 5.81 |
| Real Estate | 3.30 | 4.33 | 8.19 | 11.55 | 11.23 | 11.64 | 11.48 | 12/31/93 | 11.07 |
| International Equity | 0.90 | -8.89 | -13.17 | -17.95 | 2.02 | 6.78 | 9.19 | 9/30/94 | 8.32 |
| | | | | | | | | | |

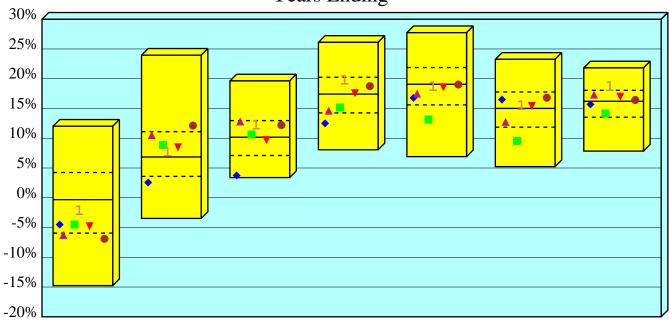
Performance Summary Table Quarter Ending 6/30/01

| | | | | | | | Since | Incept | Incept |
|----------------------|-------|--------|--------|--------|-------|-------|---------|----------|--------|
| Manager | 1 Qtr | 2 Qtrs | 3 Qtrs | 1 Year | 3 Yrs | 5 Yrs | 6/30/95 | Date | Ret |
| STRS | | | | | | | | | |
| Total Return | 3.77 | -2.93 | -5.86 | -6.34 | 5.26 | 9.42 | 9.95 | 12/31/93 | 9.81 |
| Equity | 6.68 | -5.76 | -12.67 | -12.67 | 3.33 | 12.10 | 13.36 | 12/31/93 | 13.12 |
| Fixed Income | 0.67 | 3.86 | 8.36 | 11.82 | 6.48 | 8.38 | 7.68 | 12/31/93 | 7.56 |
| Cash & Equiv | 1.08 | 2.53 | 4.26 | 6.06 | 5.77 | 5.72 | 5.74 | 12/31/93 | 5.32 |
| Real Estate | 2.17 | 3.72 | 8.31 | 12.51 | 12.16 | 13.02 | 12.09 | 12/31/93 | 11.16 |
| International Equity | 2.42 | -7.48 | -11.76 | -18.33 | 3.41 | 2.78 | 4.72 | 12/31/93 | 4.58 |
| Indices | | | | | | | | Since | |
| Russell 1000 | 6.31 | -7.05 | -15.57 | -14 96 | 4.24 | 14.28 | 16.19 | 12/31/93 | 15.57 |
| Russell 2000 | 14.28 | 6.86 | | 0.57 | 5.28 | 9.60 | 11.86 | 12/31/93 | 11.09 |
| Russell 3000 | 6.88 | -6.12 | | | 4.24 | 13.75 | 15.72 | 12/31/93 | 15.09 |
| Standard & Poors 500 | 5.86 | | -14.01 | | 3.91 | 14.47 | 16.33 | 12/31/93 | |
| S&P 500 Equal Wtd | 8.62 | 3.80 | 8.01 | 14.69 | 8.11 | 15.03 | 16.28 | 12/31/93 | 15.78 |
| S&P 600 Small Cap | 13.70 | 6.24 | 7.58 | 11.13 | 7.49 | 12.54 | 14.68 | 12/31/93 | 12.90 |
| S&P MidCap 400 | 13.16 | 0.99 | | 8.95 | 14.34 | 18.53 | 19.03 | 12/31/93 | |
| Wilshire 5000 | 7.48 | -5.78 | | | 3.52 | 13.07 | 15.17 | 12/31/93 | 14.60 |
| LB Aggregate | 0.56 | 3.60 | 7.97 | 11.23 | 6.25 | 7.48 | 7.06 | 12/31/93 | 6.72 |
| SB Broad Inv Grade | 0.51 | 3.61 | 7.97 | 11.26 | 6.23 | 7.47 | 7.05 | 12/31/93 | 6.74 |
| MSCI EAFE (Net) | -1.05 | | -16.91 | | -1.25 | 2.89 | 4.55 | 12/31/93 | 5.02 |
| MSCI Em Mkts Free (G | 4.01 | | -14.74 | | 1.49 | -6.40 | -4.07 | 12/31/93 | -4.67 |
| MSCI World Ex-US (Ne | -0.78 | | -17.56 | | -0.97 | 3.22 | 4.84 | 12/31/93 | 5.24 |
| LB Mortgage | 1.01 | 3.77 | 7.79 | | 6.73 | 7.63 | 7.34 | 12/31/93 | 7.04 |
| NCREIF | 2.23 | 4.56 | 7.78 | 11.00 | | 12.71 | 11.92 | 12/31/93 | 10.95 |
| Wilshire RE Funds | 2.21 | 3.99 | 6.59 | | 10.26 | 11.86 | 10.31 | 12/31/93 | 9.04 |
| THE TURBS | 2.21 | 3.55 | 0.27 | 7.70 | 10.20 | 11.00 | 10.51 | 12/01/90 | 7.01 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Cumulative Performance Comparison Total Returns of Total Fund Portfolios Periods Ending 6/01

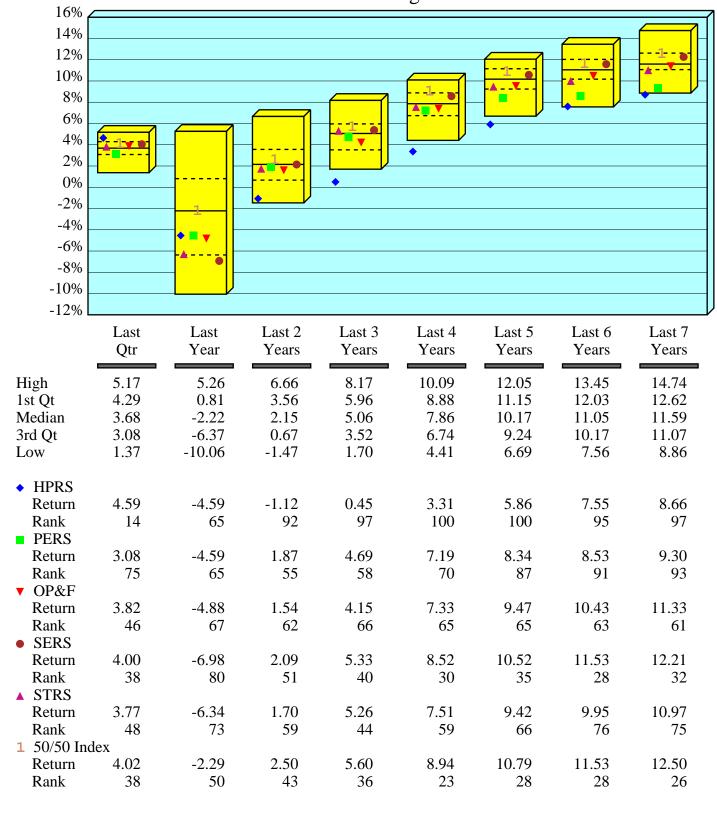


Consecutive Performance Comparison Total Returns of Total Fund Portfolios Years Ending

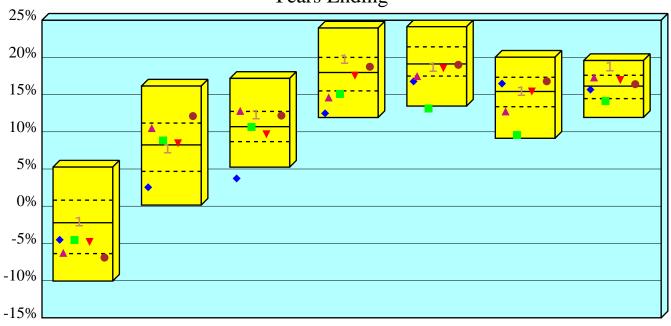


| | 6/01 | 6/00 | 6/99 | 6/98 | 6/97 | 6/96 | 6/95 |
|----------------------------|--------|-------|-------|-------|-------|-------|-------|
| High | 12.02 | 23.95 | 19.63 | 26.11 | 27.74 | 23.26 | 21.82 |
| 1st Qt | 4.24 | 11.10 | 12.96 | 20.24 | 21.88 | 17.77 | 18.05 |
| Median | -0.32 | 6.85 | 10.17 | 17.42 | 19.07 | 15.01 | 16.21 |
| 3rd Qt | -5.94 | 3.59 | 7.10 | 14.26 | 15.61 | 11.86 | 13.53 |
| Low | -14.76 | -3.47 | 3.39 | 8.06 | 6.91 | 5.23 | 7.84 |
| HPRS | | | | | | | |
| Return | -4.59 | 2.47 | 3.66 | 12.41 | 16.70 | 16.41 | 15.60 |
| Rank | 66 | 81 | 93 | 84 | 68 | 37 | 57 |
| PERS | | | | | | | |
| Return | -4.59 | 8.78 | 10.56 | 15.04 | 13.09 | 9.48 | 14.04 |
| Rank | 66 | 36 | 46 | 69 | 83 | 84 | 71 |
| OP&F | | | | | | | |
| Return | -4.88 | 8.38 | 9.59 | 17.47 | 18.47 | 15.34 | 16.88 |
| Rank | 67 | 39 | 56 | 49 | 55 | 47 | 38 |
| SERS | | | | | | | |
| Return | -6.98 | 12.04 | 12.11 | 18.67 | 18.93 | 16.72 | 16.33 |
| Rank | 80 | 21 | 31 | 37 | 51 | 33 | 47 |
| ▲ STRS | | | | | | | |
| Return | -6.34 | 10.43 | 12.74 | 14.55 | 17.42 | 12.67 | 17.24 |
| Rank | 77 | 28 | 26 | 72 | 63 | 70 | 34 |
| 1 50/50 Inc | lex | | | | | | |
| Return | -2.29 | 7.53 | 12.09 | 19.59 | 18.50 | 15.29 | 18.55 |
| Rank | 56 | 44 | 31 | 29 | 54 | 47 | 21 |

Cumulative Performance Comparison Total Returns of Total Fund Public Funds Periods Ending 6/01

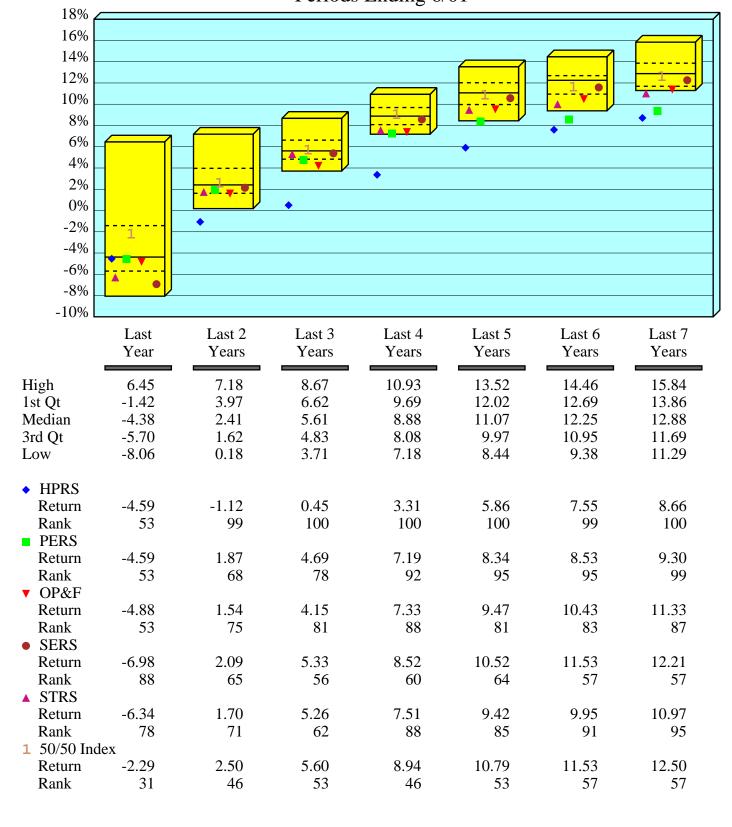


Consecutive Performance Comparison Total Returns of Total Fund Public Funds Years Ending



| | 6/01 | 6/00 | 6/99 | 6/98 | 6/97 | 6/96 | 6/95 |
|------------------------|--------|-------|-------|-------|-------|-------|-------|
| High | 5.26 | 16.15 | 17.18 | 23.95 | 24.13 | 20.03 | 19.58 |
| 1st Qt | 0.81 | 11.17 | 12.74 | 20.00 | 21.42 | 17.33 | 17.60 |
| Median | -2.22 | 8.24 | 10.69 | 17.97 | 19.12 | 15.42 | 16.14 |
| 3rd Qt | -6.37 | 4.68 | 8.68 | 15.50 | 17.49 | 13.37 | 14.46 |
| Low | -10.06 | 0.15 | 5.25 | 11.92 | 13.46 | 9.13 | 11.93 |
| HPRS | | | | | | | |
| Return | -4.59 | 2.47 | 3.66 | 12.41 | 16.70 | 16.41 | 15.60 |
| Rank | 65 | 88 | 100 | 94 | 85 | 37 | 61 |
| PERS | | | | | | | |
| Return | -4.59 | 8.78 | 10.56 | 15.04 | 13.09 | 9.48 | 14.04 |
| Rank | 65 | 42 | 54 | 78 | 97 | 94 | 81 |
| ▼ OP&F | | | | | | | |
| Return | -4.88 | 8.38 | 9.59 | 17.47 | 18.47 | 15.34 | 16.88 |
| Rank | 67 | 49 | 68 | 57 | 62 | 54 | 35 |
| SERS | | | | | | | |
| Return | -6.98 | 12.04 | 12.11 | 18.67 | 18.93 | 16.72 | 16.33 |
| Rank | 80 | 19 | 34 | 40 | 53 | 33 | 44 |
| ▲ STRS | | | | | | | |
| Return | -6.34 | 10.43 | 12.74 | 14.55 | 17.42 | 12.67 | 17.24 |
| Rank | 73 | 29 | 25 | 81 | 77 | 80 | 29 |
| 1 50/50 Ind | | | | | | | |
| Return | -2.29 | 7.53 | 12.09 | 19.59 | 18.50 | 15.29 | 18.55 |
| Rank | 50 | 55 | 34 | 27 | 59 | 56 | 17 |

Total Returns of Total Fund Portfolios Total Market Value Over 1 Billion Periods Ending 6/01



Total Returns of Total Fund Portfolios Total Market Value Over 1 Billion

Years Ending

| 30% ∠ | | | | 18 Enumg | | | |
|---|-------|-------|-------------------------|----------|-------|-------|----------|
| 25% _ 20% _ 15% _ 10% _ 5% _ 0% _ -5% _ | | • | - <u>↑</u> - <u>†</u> • | | | | |
| -10% | | | | | | | <i>\</i> |
| | 6/01 | 6/00 | 6/99 | 6/98 | 6/97 | 6/96 | 6/95 |
| High | 6.45 | 16.37 | 16.68 | 23.68 | 25.76 | 21.23 | 25.64 |
| 1st Qt | -1.42 | 12.50 | 12.54 | 20.71 | 22.73 | 19.00 | 19.27 |
| Median | -4.38 | 8.61 | 10.82 | 19.56 | 20.61 | 16.52 | 17.24 |
| 3rd Qt | -5.70 | 6.77 | 9.62 | 17.43 | 17.87 | 15.34 | 16.02 |
| Low | -8.06 | 5.46 | 5.25 | 9.36 | 13.00 | 11.28 | 13.18 |
| HPRS | | | | | | | |
| Return | -4.59 | 2.47 | 3.66 | 12.41 | 16.70 | 16.41 | 15.60 |
| Rank | 53 | 100 | 95 | 88 | 81 | 53 | 75 |
| PERS | | | | | | | |
| Return | -4.59 | 8.78 | 10.56 | 15.04 | 13.09 | 9.48 | 14.04 |
| Rank | 53 | 43 | 59 | 78 | 92 | 95 | 83 |
| ▼ OP&F | | | | | | | |
| Return | -4.88 | 8.38 | 9.59 | 17.47 | 18.47 | 15.34 | 16.88 |
| Rank | 53 | 56 | 75 | 68 | 67 | 75 | 53 |
| SERS | | | | | | | |
| Return | -6.98 | 12.04 | 12.11 | 18.67 | 18.93 | 16.72 | 16.33 |
| Rank | 88 | 25 | 37 | 56 | 53 | 42 | 64 |

▲ STRS Return

Rank

Return

Rank

1 50/50 Index

-6.34

-2.29

78

31

10.43

40

7.53

62

12.74

12.09

19

37

14.55

19.59

78

46

17.42

18.50

78

67

12.67

15.29

91

75

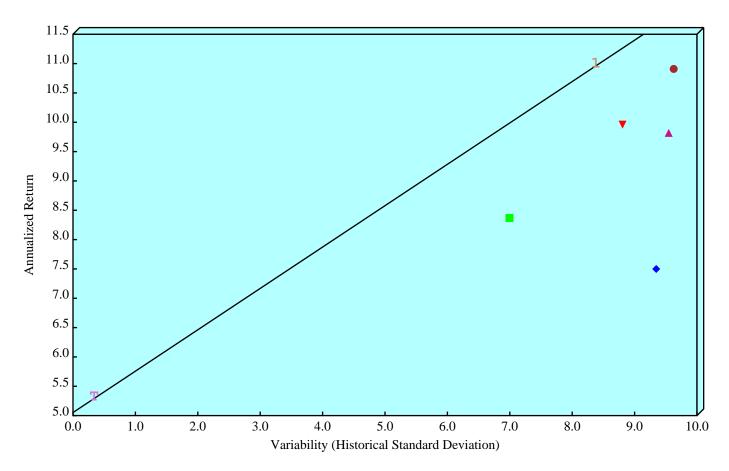
17.24

18.55

50

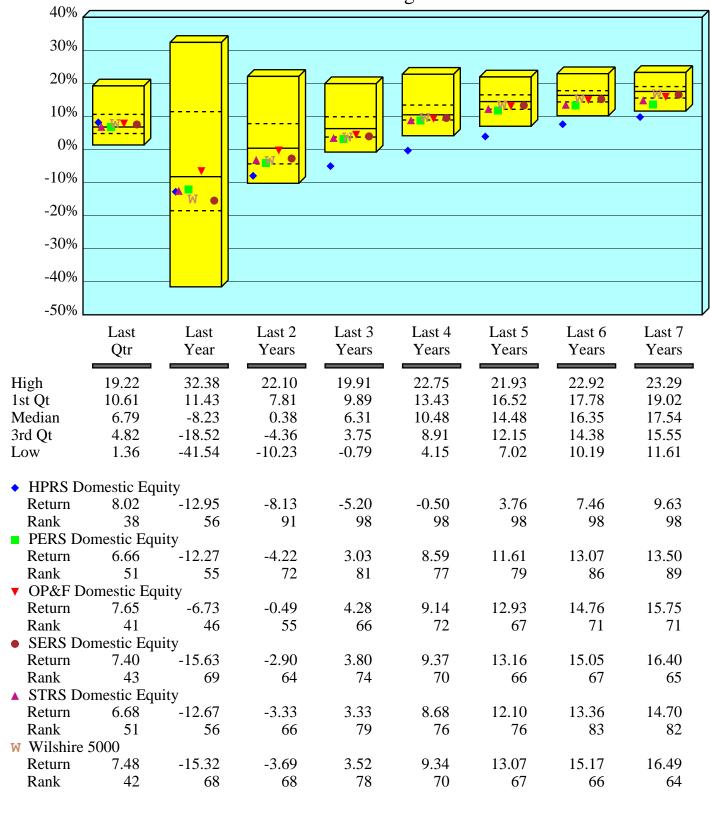
35

OHIO RETIREMENT STUDY COUNCIL Quarterly Total Return Market Line Analysis Periods from 12/93 to 6/01



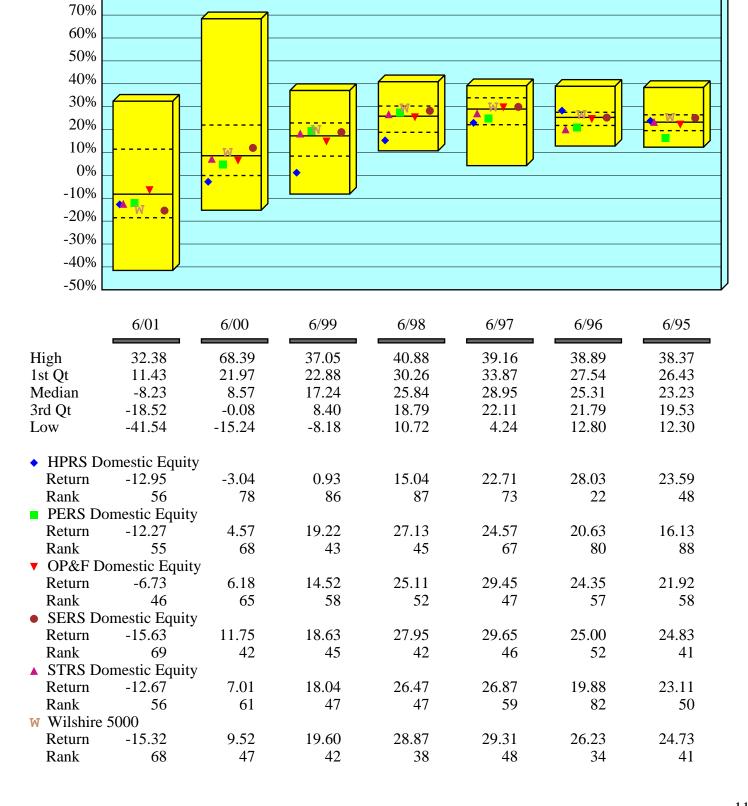
| | Annualized | | | Sharpe |
|------------------------|------------|-------------|--------|--------|
| | Return | Variability | Reward | Ratio |
| ◆ HPRS | 7.49 | 9.40 | 2.17 | 0.23 |
| PERS | 8.36 | 7.05 | 3.04 | 0.43 |
| ▼ OP&F | 9.95 | 8.86 | 4.63 | 0.52 |
| • SERS | 10.90 | 9.68 | 5.58 | 0.58 |
| ▲ STRS | 9.81 | 9.60 | 4.49 | 0.47 |
| 1 50/50 Index | 10.99 | 8.42 | 5.67 | 0.67 |
| ▼ 91-Day Treasury Bill | 5.32 | 0.38 | 0.00 | 0.00 |

Cumulative Performance Comparison Total Returns of Equity Portfolios Periods Ending 6/01

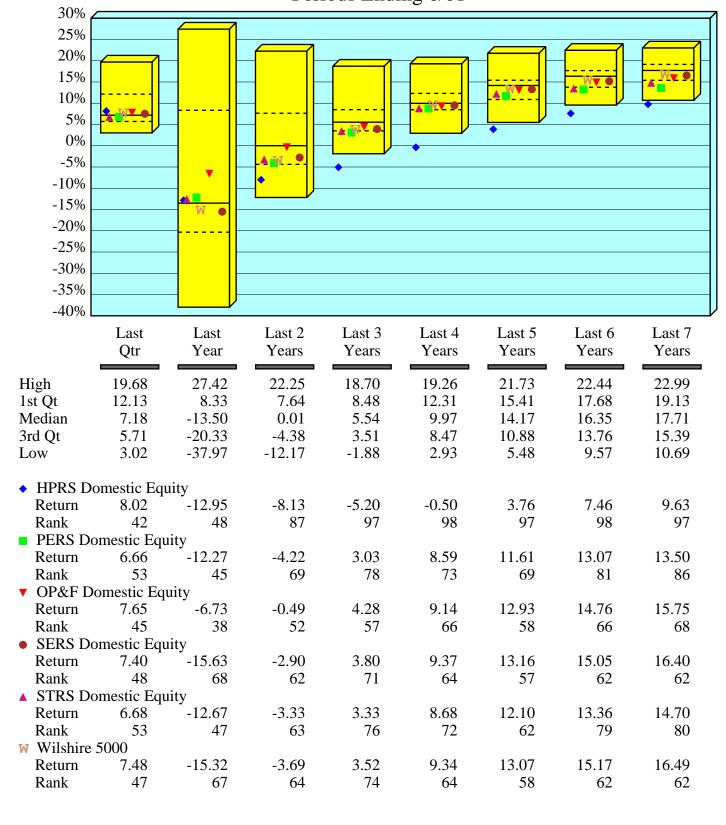


Consecutive Performance Comparison Total Returns of Equity Portfolios Years Ending

80%

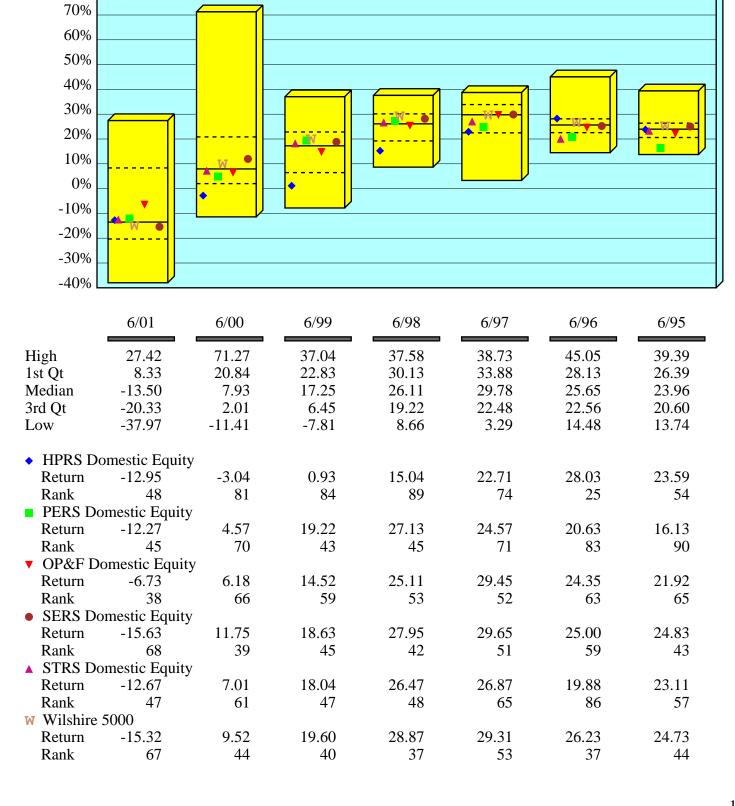


Cumulative Performance Comparison Total Returns of Equity Public Funds Periods Ending 6/01

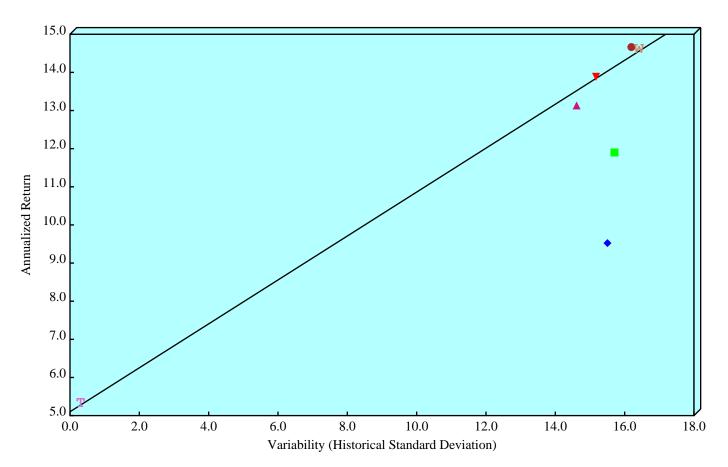


Consecutive Performance Comparison Total Returns of Equity Public Funds Years Ending

80%

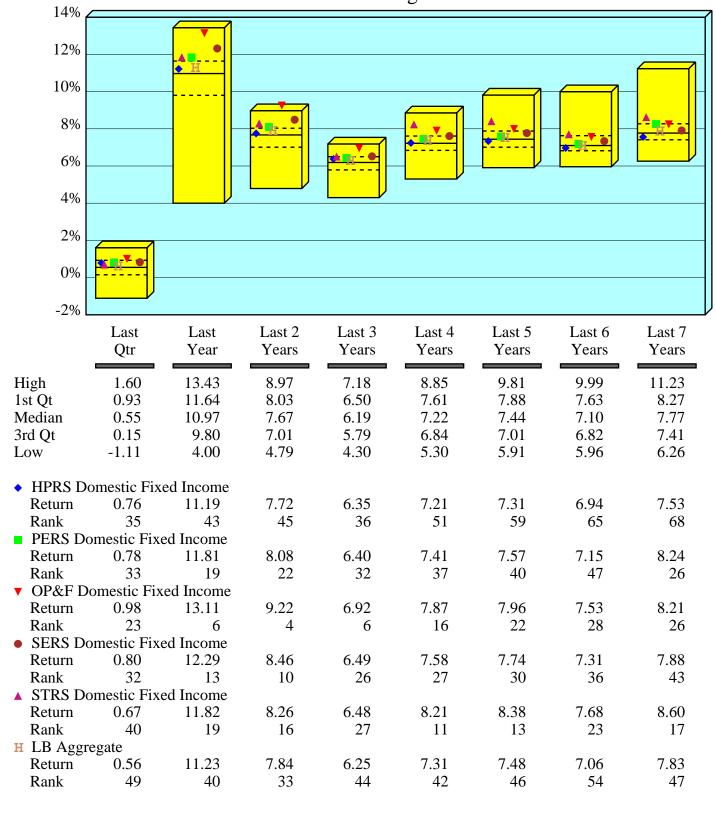


OHIO RETIREMENT STUDY COUNCIL Quarterly Equity Return Market Line Analysis Periods from 12/93 to 6/01



| | Annualized | | | Sharpe |
|-------------------------------|------------|-------------|--------|--------|
| | Return | Variability | Reward | Ratio |
| • HPRS | 9.51 | 15.60 | 4.20 | 0.27 |
| PERS | 11.89 | 15.81 | 6.57 | 0.42 |
| ▼ OP&F | 13.87 | 15.27 | 8.55 | 0.56 |
| • SERS | 14.65 | 16.29 | 9.33 | 0.57 |
| ▲ STRS | 13.12 | 14.71 | 7.80 | 0.53 |
| W Wilshire 5000 | 14.60 | 16.49 | 9.28 | 0.56 |
| T 91-Day Treasury Bill | 5.32 | 0.38 | 0.00 | 0.00 |

Cumulative Performance Comparison Total Returns of Fixed Income Portfolios Periods Ending 6/01

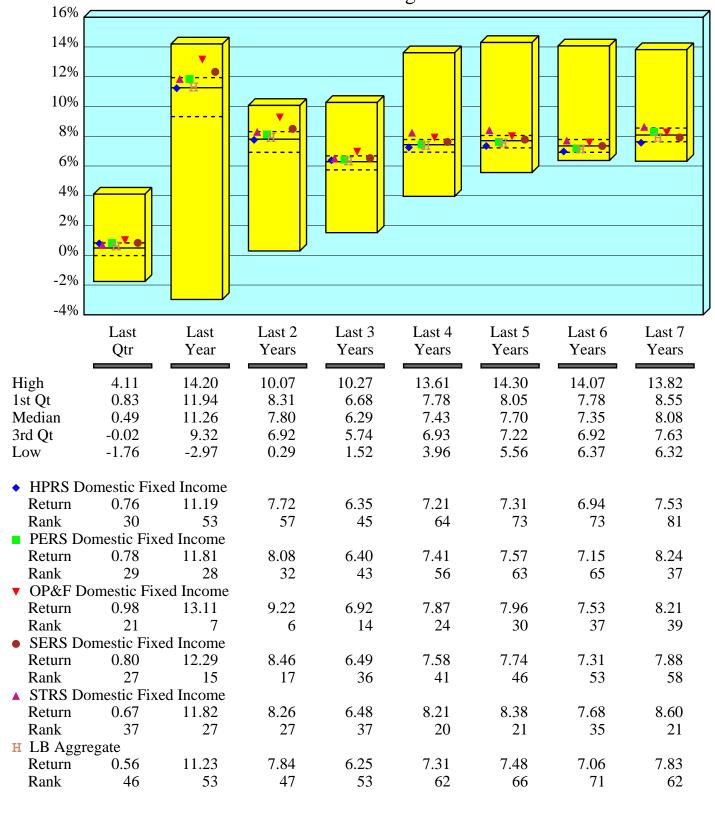


Consecutive Performance Comparison Total Returns of Fixed Income Portfolios Years Ending

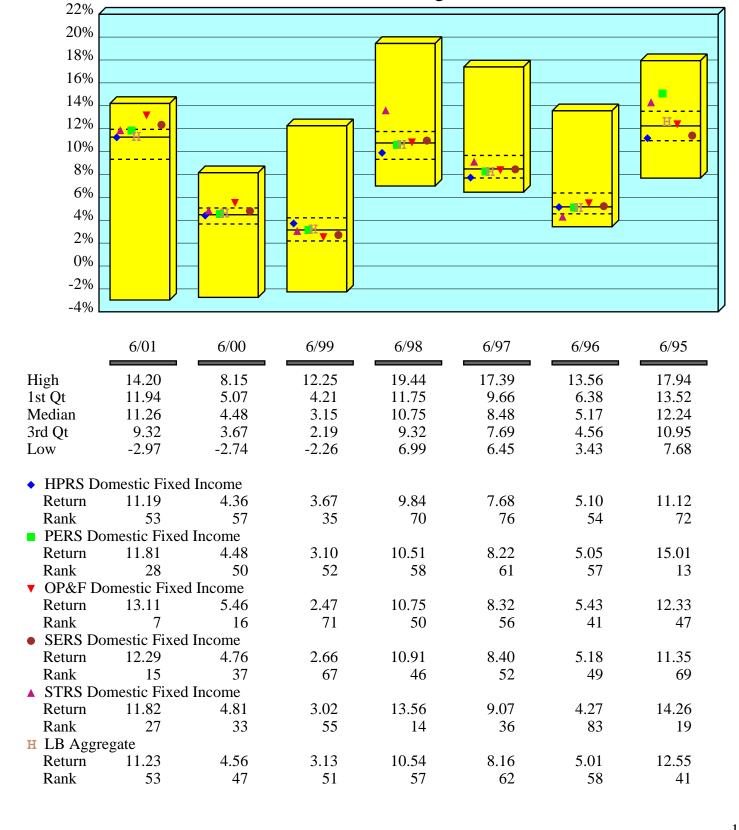
18%

| 16% | | | | | | | | L |
|------------|---------------|------------|-------|----------|----------|--------------|-------|---|
| 14% | | | | | | | | |
| | | | | A | | | | |
| 12% | <u> </u> | | | | | | H▼ | |
| 10% | <u>♦ H</u> | | | ∎H ▼ ● | | | • | |
| | | | | • | | | | |
| 8% | - | | | _ | → EE ▼ ● | | | _ |
| 6% | | | | | | | | J |
| | | - <u></u> | | | | ▼ ■ ■ | | |
| 4% | | | | | | | | |
| 2% | | | | | | | | |
| | | | | | | | | |
| 0% | | | | | | | | |
| -2% | | | | | | | | |
| _ / | | | | | | | | |
| | 6/01 | 6/00 | 6/99 | 6/98 | 6/97 | 6/96 | 6/95 | |
| | | | | | | | | ı |
| High | 13.43 | 8.15 | 7.95 | 17.09 | 16.02 | 14.16 | 17.28 | |
| 1st Qt | 11.64 | 5.05 | 4.27 | 11.40 | 9.43 | 6.46 | 12.82 | |
| Median | 10.97 | 4.52 | 3.27 | 10.46 | 8.20 | 5.26 | 11.67 | |
| 3rd Qt | 9.80 | 3.83 | 2.45 | 8.78 | 7.32 | 4.64 | 9.84 | |
| Low | 4.00 | 0.12 | -0.38 | 6.14 | 5.96 | 3.53 | 6.61 | |
| ▲ UDDC D | omestic Fixed | d Incomo | | | | | | |
| Return | 11.19 | 4.36 | 3.67 | 9.84 | 7.68 | 5.10 | 11.12 | |
| Rank | 43 | 4.30 57 | 40 | 60 | 65 | 5.10 | 62 | |
| | mestic Fixed | | 40 | 00 | 0.5 | 37 | 02 | |
| Return | 11.81 | 4.48 | 3.10 | 10.51 | 8.22 | 5.05 | 15.01 | |
| Rank | 11.01 | 51 | 56 | 49 | 49 | 5.05 | 10.01 | |
| | omestic Fixed | | 30 | 47 | 47 | 39 | 10 | |
| Return | 13.11 | 5.46 | 2.47 | 10.75 | 8.32 | 5.43 | 12.33 | |
| Rank | 6 | 15 | 74 | 42 | 46 | 45 | 36 | |
| | mestic Fixed | | 7- | 72 | 40 | 73 | 30 | |
| Return | 12.29 | 4.76 | 2.66 | 10.91 | 8.40 | 5.18 | 11.35 | |
| Rank | 13 | 38 | 70 | 37 | 44 | 53 | 59 | |
| | mestic Fixed | | , 0 | 2, | | 22 | | |
| Return | 11.82 | 4.81 | 3.02 | 13.56 | 9.07 | 4.27 | 14.26 | |
| Rank | 19 | 35 | 59 | 9 | 30 | 87 | 12 | |
| H LB Aggre | | 22 | | | 20 | 0, | | |
| Return | 11.23 | 4.56 | 3.13 | 10.54 | 8.16 | 5.01 | 12.55 | |
| Rank | 40 | 47 | 55 | 48 | 51 | 61 | 31 | |
| - 4 | | | | | | ~- | | |

Cumulative Performance Comparison Total Returns of Fixed Income Public Funds Periods Ending 6/01

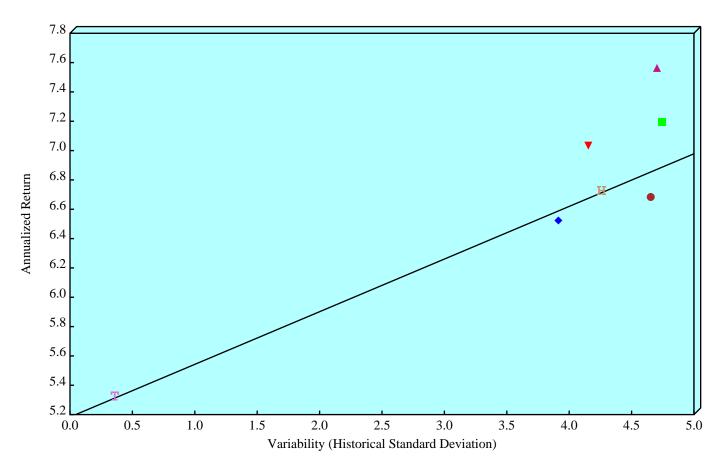


Consecutive Performance Comparison Total Returns of Fixed Income Public Funds Years Ending



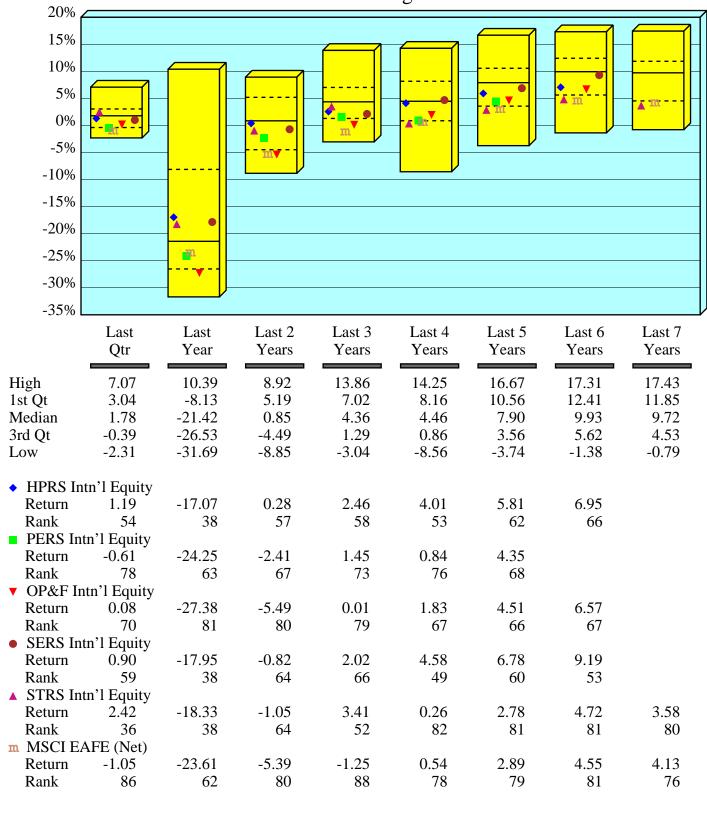
OHIO RETIREMENT STUDY COUNCIL Quarterly Fixed Income Return Market Line Analysis

Periods from 12/93 to 6/01

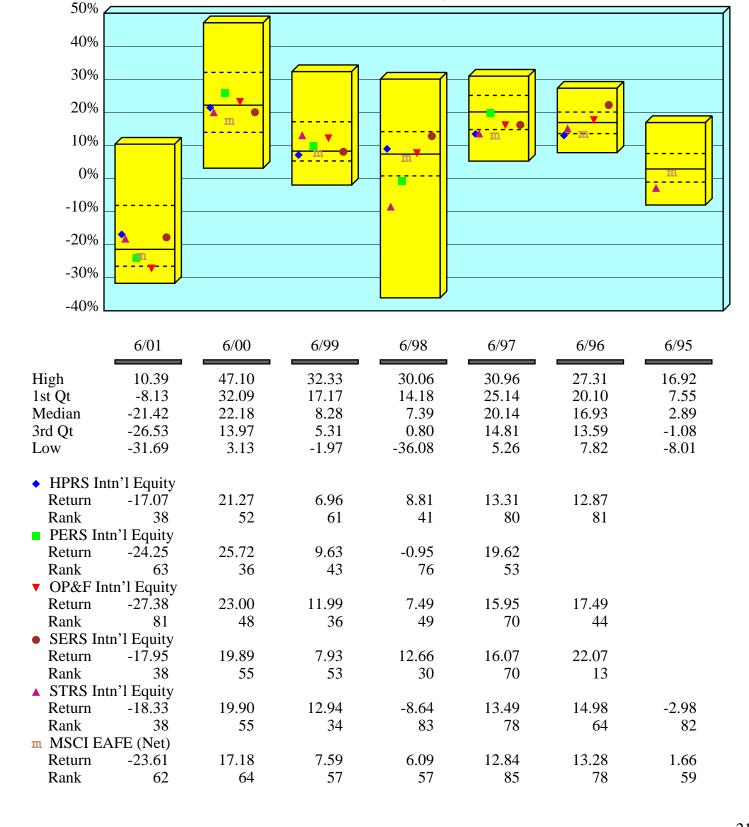


| | Annualized | | | Sharpe |
|------------------------|------------|-------------|--------|--------|
| | Return | Variability | Reward | Ratio |
| • HPRS | 6.52 | 3.94 | 1.20 | 0.30 |
| PERS | 7.19 | 4.77 | 1.87 | 0.39 |
| ▼ OP&F | 7.03 | 4.18 | 1.71 | 0.41 |
| • SERS | 6.68 | 4.68 | 1.36 | 0.29 |
| ▲ STRS | 7.56 | 4.73 | 2.24 | 0.47 |
| H LB Aggregate | 6.72 | 4.28 | 1.41 | 0.33 |
| T 91-Day Treasury Bill | 5.32 | 0.38 | 0.00 | 0.00 |

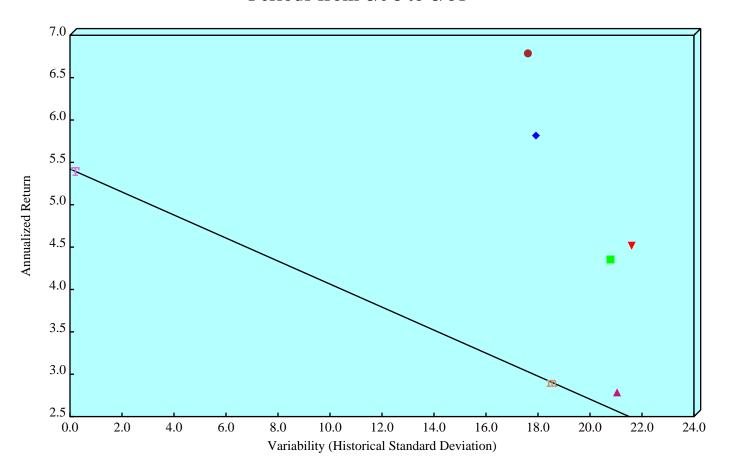
Cumulative Performance Comparison Total Returns of International Equity Portfolios Periods Ending 6/01



Consecutive Performance Comparison Total Returns of International Equity Portfolios Years Ending

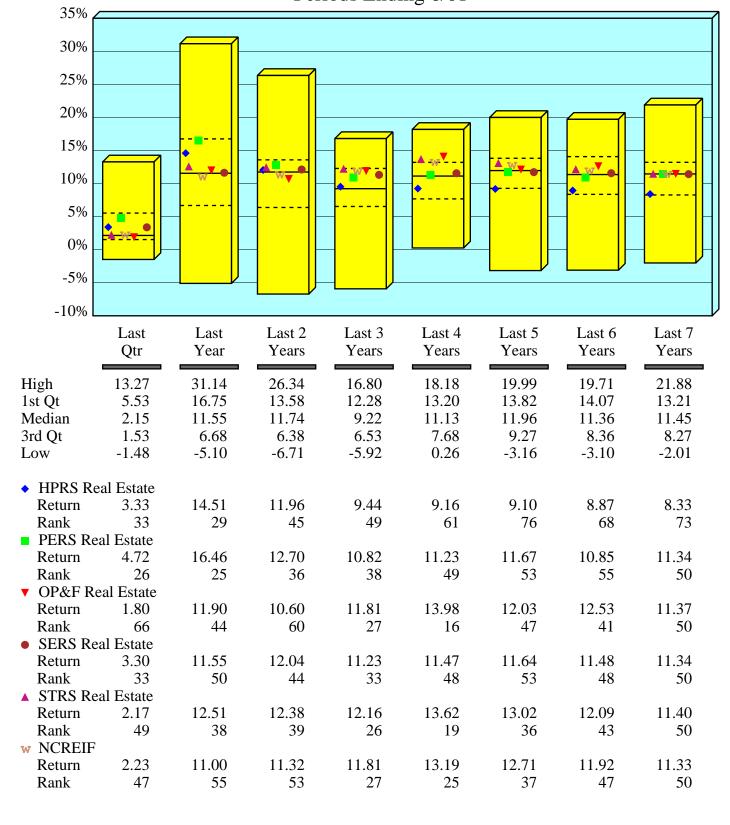


Quarterly International Equity Return Market Line Analysis Periods from 6/96 to 6/01

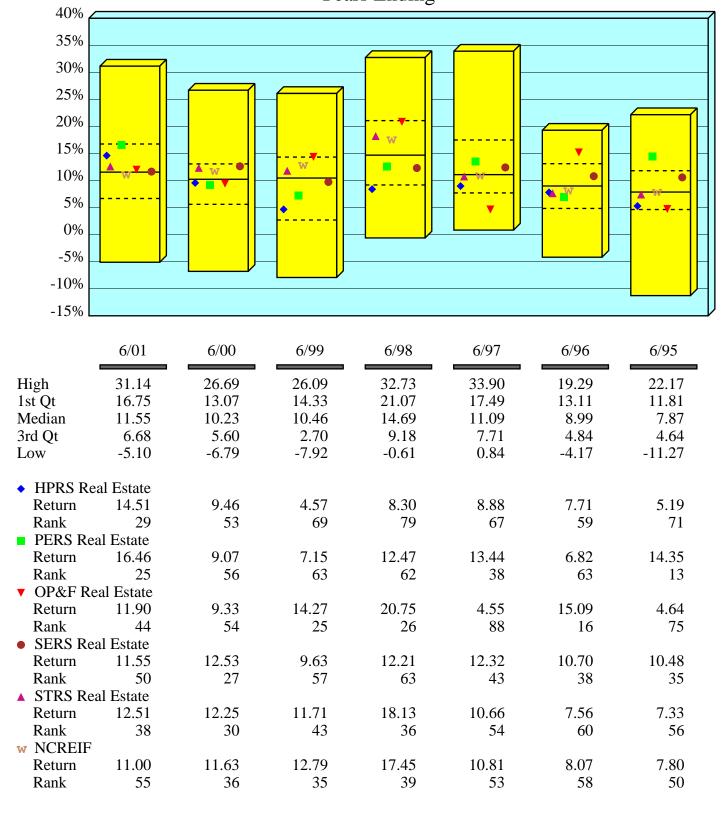


| | Annualized | | | Sharpe |
|------------------------|------------|-------------|--------|--------|
| | Return | Variability | Reward | Ratio |
| • HPRS | 5.81 | 18.05 | 0.43 | 0.02 |
| PERS | 4.35 | 20.92 | -1.03 | -0.05 |
| ▼ OP&F | 4.51 | 21.73 | -0.87 | -0.04 |
| • SERS | 6.78 | 17.74 | 1.40 | 0.08 |
| ▲ STRS | 2.78 | 21.17 | -2.61 | -0.12 |
| m MSCI EAFE (Net) | 2.89 | 18.64 | -2.49 | -0.13 |
| ▼ 91-Day Treasury Bill | 5.38 | 0.31 | 0.00 | 0.00 |

Cumulative Performance Comparison Total Returns of Real Estate Portfolios Periods Ending 6/01



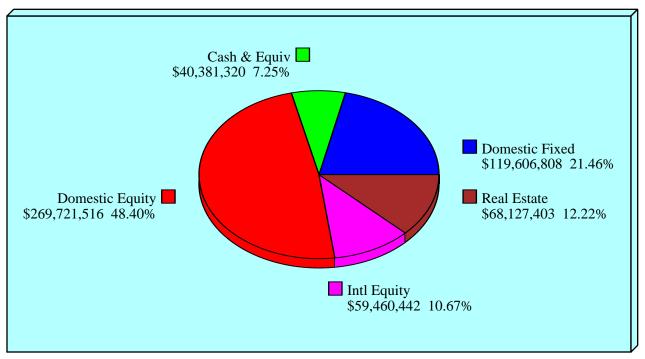
Consecutive Performance Comparison Total Returns of Real Estate Portfolios Years Ending



Asset Allocation HPRS

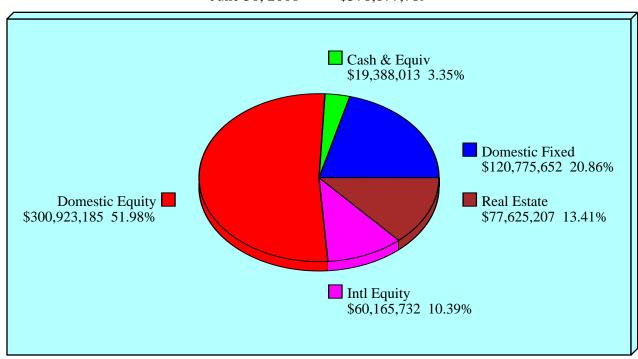
March 31, 2001

\$557,297,489

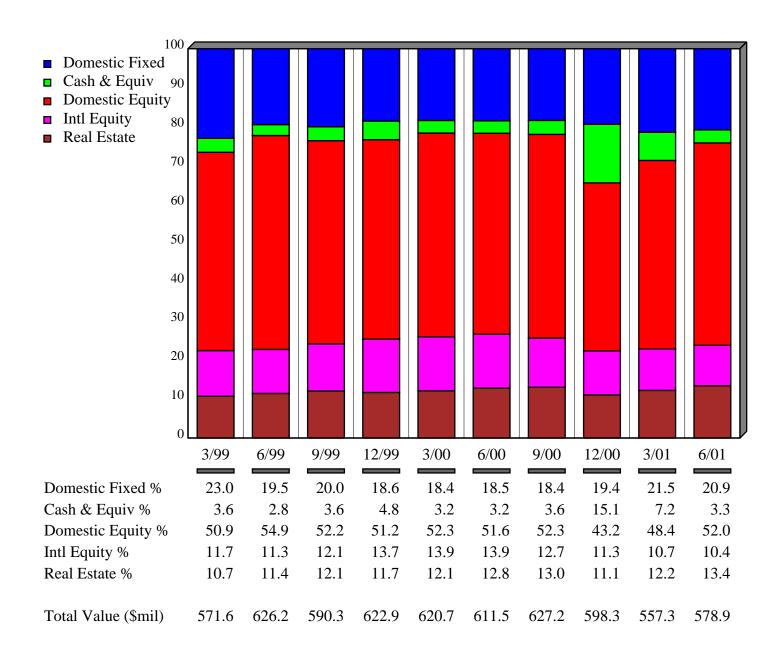


June 30, 2001

\$578,877,789



OHIO RETIREMENT STUDY COUNCIL Asset Allocation HPRS



Custom Benchmark Specification HPRS

| | Quarter | Quarter | | |
|--------------|---------|---------|---------|----------------------|
| Label | Start | End | Percent | Description |
| Policy Index | 3/94 | 12/95 | 50.00 | LB Aggregate |
| | | | 50.00 | Standard & Poors 500 |
| | 3/96 | 12/97 | 5.00 | NCREIF |
| | | | 5.00 | MSCI EAFE (Net) |
| | | | 40.00 | LB Aggregate |
| | | | 50.00 | Standard & Poors 500 |
| | 3/98 | 9/99 | 15.00 | Russell 2000 |
| | | | 40.00 | Standard & Poors 500 |
| | | | 25.00 | LB Aggregate |
| | | | 10.00 | MSCI EAFE (Net) |
| | | | 10.00 | NCREIF |
| | 12/99 | 12/00 | 20.00 | Russell 2000 |
| | | | 40.00 | Standard & Poors 500 |
| | | | 20.00 | LB Aggregate |
| | | | 10.00 | MSCI EAFE (Net) |
| | | | 10.00 | NCREIF |
| | 3/01 | 6/01 | 40.00 | Standard & Poors 500 |
| | | | 20.00 | Russell 2500 |
| | | | 20.00 | LB Aggregate |
| | | | 10.00 | MSCI EAFE (Net) |
| | | | 10.00 | NCREIF |
| | | | | |

OHIO RETIREMENT STUDY COUNCIL Performance Overview HPRS

Returns for Periods Ending June 30, 2001

| | Last Quarter | Last 2 Quarters | Last 3 Quarters | Last Year | Last 3 Years | Last 5 Years | Since 1st Qtr 94 |
|------------------------------------|-----------------|--------------------|-----------------|--------------|-----------------|-----------------|---------------------|
| Total Return | 4.59 | -2.61 | -6.65 | -4.59 | 0.45 | 5.86 | 7.49 |
| | | | | | | | |
| Policy Index Return | 5.31 | -2.07 | -5.63 | -5.70 | 5.49 | 11.31 | 11.57 |
| Domestic Equity Return | 8.02 | -5.73 | -15.97 | -12.95 | -5.20 | 3.76 | 9.51 |
| Equity Segment Median Return | 6.89 | -4.40 | -9.97 | -8.69 | 5.98 | 14.44 | |
| Wilshire 5000 | 7.48 | -5.78 | -15.52 | -15.32 | 3.52 | 13.07 | 14.60 |
| Int'l Equity Return | 1.19 | -10.95 | -11.32 | -17.07 | 2.46 | 5.81 | |
| Int'l Equity Segment Median Return | 1.50 | -8.00 | -14.09 | -20.78 | 2.90 | 7.82 | |
| MSCI EAFE (Net) | -1.05 | -14.61 | -16.91 | -23.61 | -1.25 | 2.89 | 5.02 |
| 111501 2111 2 (1160) | 1.00 | 101 | 10.71 | 20.01 | 1.20 | 2.00 | 2.02 |
| Domestic Fixed Return | 0.76 | 3.66 | 8.13 | 11.19 | 6.35 | 7.31 | 6.52 |
| Fixed Income Segment Median Return | 0.49 | 3.57 | 7.84 | 10.91 | 6.21 | 7.45 | |
| LB Aggregate | 0.56 | 3.60 | 7.97 | 11.23 | 6.25 | 7.48 | 6.72 |
| | | | | | | | |
| Cash Return | 1.50 | 2.95 | 4.34 | 5.97 | 5.35 | 5.43 | |
| Real Estate Return | 3.33 | 3.95 | 9.78 | 14.51 | 9.44 | 9.10 | 8.03 |
| NCREIF | 2.23 | 4.56 | 7.78 | 11.00 | 11.81 | 12.71 | 10.95 |

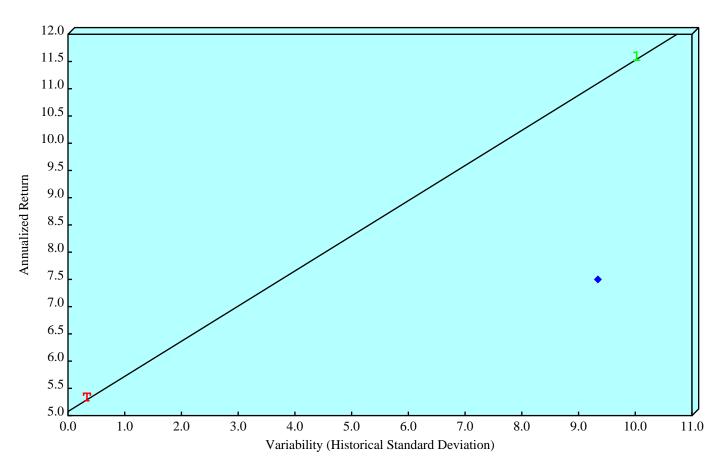
Performance Overview HPRS

Returns for Periods Ending June 30, 2001

Policy Index

| · | Segment | Percent |
|----------------------|------------------------------|---------|
| Standard & Poors 500 | Domestic Equity | 40.00 |
| Russell 2500 | Domestic Equity | 20.00 |
| LB Aggregate | Domestic Fixed Income | 20.00 |
| MSCI EAFE (Net) | International Equity | 10.00 |
| NCREIF | Real Estate | 10.00 |

OHIO RETIREMENT STUDY COUNCIL Quarterly Total Return Market Line Analysis Periods from 12/93 to 6/01

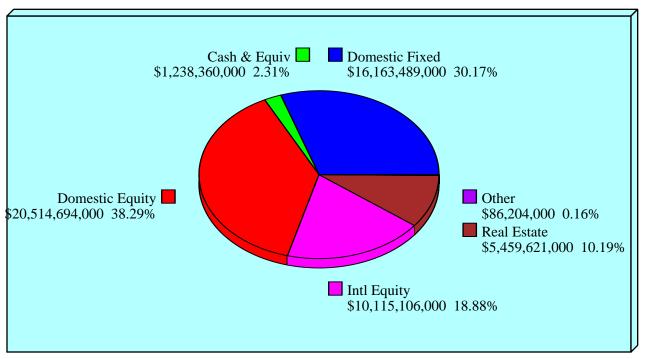


| | Annualized | Annualized | | | | |
|-------------------------------|------------|-------------|--------|-------|--|--|
| | Return | Variability | Reward | Ratio | | |
| ◆ HPRS | 7.49 | 9.40 | 2.17 | 0.23 | | |
| 1 Policy Index | 11.57 | 10.07 | 6.25 | 0.62 | | |
| ▼ 91-Day Treasury Bill | 5.32 | 0.38 | 0.00 | 0.00 | | |

Asset Allocation PERS

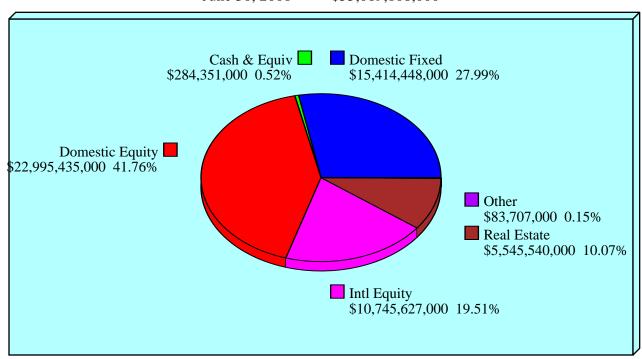
March 31, 2001

\$53,577,474,000

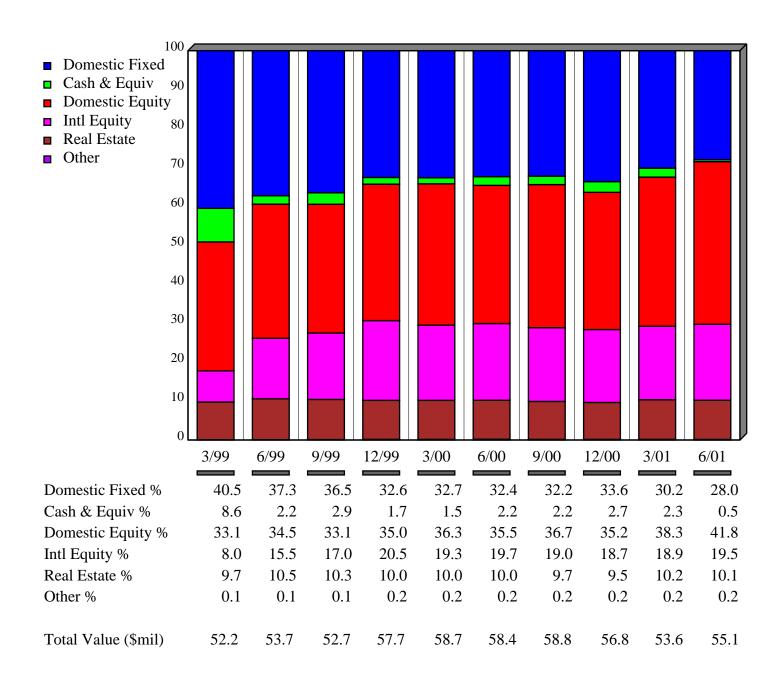


June 30, 2001

\$55,069,108,000



OHIO RETIREMENT STUDY COUNCIL Asset Allocation PERS



Custom Benchmark Specification PERS

| | Quarter | Quarter | | |
|--------------|---------|---------|---------|-------------------------|
| Label | Start | End | Percent | Description |
| Policy Index | 3/94 | 6/95 | 17.00 | Standard & Poors 500 |
| | | | 68.00 | SB Broad Inv Grade |
| | | | 7.00 | NCREIF |
| | | | 8.00 | 91-Day Treasury Bill |
| | 9/95 | 12/95 | 26.00 | Standard & Poors 500 |
| | | | 59.00 | SB Broad Inv Grade |
| | | | 1.00 | MSCI EAFE (Net) |
| | | | 8.00 | NCREIF |
| | | | 6.00 | 91-Day Treasury Bill |
| | 3/96 | 12/96 | 23.00 | Standard & Poors 500 |
| | | | 62.50 | SB Broad Inv Grade |
| | | | 2.00 | MSCI EAFE (Net) |
| | | | 8.00 | NCREIF |
| | | | 4.50 | 91-Day Treasury Bill |
| | 3/97 | 12/97 | 27.00 | Standard & Poors 500 |
| | | | 56.50 | SB Broad Inv Grade |
| | | | 4.00 | MSCI EAFE (Net) |
| | | | 8.00 | NCREIF |
| | | | 4.50 | 91-Day Treasury Bill |
| | 3/98 | 9/98 | 4.50 | 91-Day Treasury Bill |
| | | | 8.00 | NCREIF |
| | | | 6.00 | MSCI EAFE (Net) |
| | | | 51.00 | SB Broad Inv Grade |
| | | | 30.50 | Standard & Poors 500 |
| | 12/98 | 12/98 | 4.50 | 91-Day Treasury Bill |
| | | | 4.80 | NCREIF |
| | | | 1.60 | NAREIT |
| | | | 1.60 | Giliberto-Levy Mortgage |
| | | | 6.00 | MSCI World Ex-US (Net) |
| | | | 51.00 | SB Broad Inv Grade |
| | | | 30.50 | Russell 3000 |
| | 3/99 | 6/99 | 1.00 | 91-Day Treasury Bill |
| | | | 6.60 | NCREIF |
| | | | 2.20 | NAREIT |
| | | | 2.20 | Giliberto-Levy Mortgage |

Custom Benchmark Specification PERS

| | Quarter | Quarter | | |
|----------------------|---------|---------|---------|-------------------------|
| Label | Start | End | Percent | Description |
| Policy Index (cont.) | | | 7.60 | MSCI World Ex-US (Net) |
| | | | 45.40 | SB Broad Inv Grade |
| | | | 35.00 | Standard & Poors 500 |
| | 6/99 | 6/99 | 1.00 | 91-Day Treasury Bill |
| | | | 6.60 | NCREIF |
| | | | 2.20 | NAREIT |
| | | | 2.20 | Giliberto-Levy Mortgage |
| | | | 12.90 | MSCI World Ex-US (Net) |
| | | | 40.10 | SB Broad Inv Grade |
| | | | 35.00 | Standard & Poors 500 |
| | 9/99 | 12/00 | 1.00 | 91-Day Treasury Bill |
| | | | 6.60 | NCREIF |
| | | | 2.20 | NAREIT |
| | | | 2.20 | Giliberto-Levy Mortgage |
| | | | 35.00 | Standard & Poors 500 |
| | | | 36.10 | SB Broad Inv Grade |
| | | | 16.90 | MSCI World Ex-US (Net) |
| | 3/01 | 3/01 | 34.30 | S&P Super 1500 Index |
| | | | 3.00 | Russell 3000 |
| | | | 31.80 | LB Aggregate |
| | | | 5.70 | NCREIF |
| | | | 1.90 | NAREIT |
| | | | 1.90 | Giliberto-Levy Mortgage |
| | | | 18.90 | MSCI ACWI Ex US Index |
| | | | 2.30 | 91-Day Treasury Bill |
| | | | 0.20 | Standard & Poors 500 |
| | 6/01 | | 34.70 | S&P Super 1500 Index |
| | | | 5.80 | Russell 3000 |
| | | | 29.20 | LB Aggregate |
| | | | 5.58 | NCREIF |
| | | | 1.86 | NAREIT |
| | | | 1.86 | Giliberto-Levy Mortgage |
| | | | 19.30 | MSCI ACWI Ex US Index |
| | | | 1.50 | 91-Day Treasury Bill |
| | | | 0.20 | Standard & Poors 500 |

OHIO RETIREMENT STUDY COUNCIL Performance Overview PERS

Returns for Periods Ending June 30, 2001

| | Last Quarter | Last 2 Quarters | Last 3 Quarters | Last Year | Last 3 Years | Last 5 Years | Since 1st Qtr 94 |
|------------------------------------|-----------------|--------------------|--------------------|--------------|-----------------|-----------------|---------------------|
| Total Return | 3.08 | -2.67 | -4.43 | -4.59 | 4.69 | 8.34 | 8.36 |
| | | | | | | | |
| Policy Index Return | 3.14 | -2.71 | -4.06 | -4.14 | 5.11 | 9.28 | 8.95 |
| Domestic Equity Return | 6.66 | -5.67 | -12.50 | -12.27 | 3.03 | 11.61 | 11.89 |
| Equity Segment Median Return | 6.89 | -4.40 | -9.97 | -8.69 | 5.98 | 14.44 | |
| Wilshire 5000 | 7.48 | -5.78 | -15.52 | -15.32 | 3.52 | 13.07 | 14.60 |
| Int'l Equity Return | -0.61 | -13.75 | -17.57 | -24.25 | 1.45 | 4.35 | |
| Int'l Equity Segment Median Return | 1.50 | -8.00 | -14.09 | -20.78 | 2.90 | 7.82 | |
| MSCI EAFE (Net) | -1.05 | -14.61 | -16.91 | -23.61 | -1.25 | 2.89 | 5.02 |
| Domestic Fixed Return | 0.78 | 4.45 | 8.61 | 11.81 | 6.40 | 7.57 | 7.19 |
| Fixed Income Segment Median Return | 0.49 | 3.57 | 7.84 | 10.91 | 6.21 | 7.45 | |
| LB Aggregate | 0.56 | 3.60 | 7.97 | 11.23 | 6.25 | 7.48 | 6.72 |
| Cash Return | 1.12 | 2.45 | 4.20 | 5.94 | 5.67 | 5.68 | 5.52 |
| Real Estate Return | 4.72 | 6.70 | 11.94 | 16.46 | 10.82 | 11.67 | 11.17 |
| NCREIF | 2.23 | 4.56 | 7.78 | 11.00 | 11.81 | 12.71 | 10.95 |

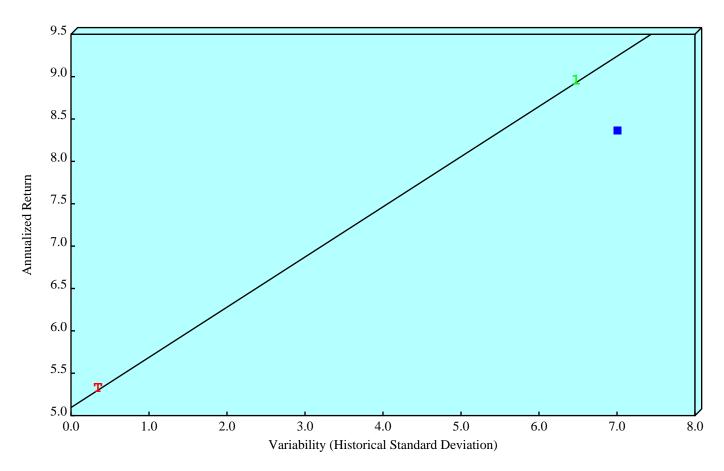
Performance Overview PERS

Returns for Periods Ending June 30, 2001

Policy Index

| | Segment | Percent | _ |
|----------------------|-----------------------|---------|---|
| S&P Super 1500 Index | Domestic Equity | 34.70 | _ |
| Russell 3000 | Domestic Equity | 5.80 | |
| LB Aggregate | Domestic Fixed Income | 29.20 | |
| NCREIF | Real Estate | 5.58 | |
| NAREIT | Real Estate | 1.86 | |
| Giliberto-Levy Mortg | Mortgage | 1.86 | |
| MSCI ACWI Ex US Inde | International Equity | 19.30 | |
| 91-Day Treasury Bill | Cash & Equiv | 1.50 | |
| Standard & Poors 500 | Domestic Equity | 0.20 | |
| | | | |

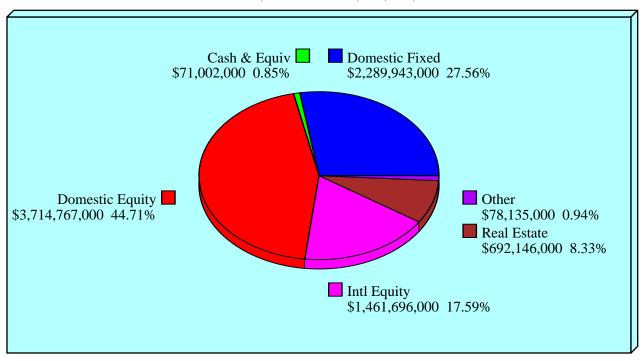
OHIO RETIREMENT STUDY COUNCIL Quarterly Total Return Market Line Analysis Periods from 12/93 to 6/01



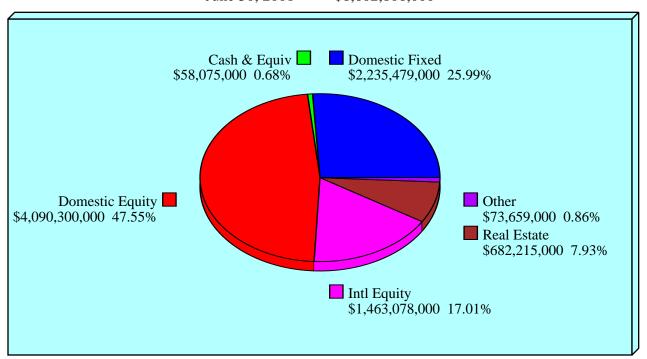
| | Annualized | Sharpe | | |
|-------------------------------|------------|-------------|--------|-------|
| | Return | Variability | Reward | Ratio |
| ■ PERS | 8.36 | 7.05 | 3.04 | 0.43 |
| 1 Policy Index | 8.95 | 6.51 | 3.63 | 0.56 |
| ▼ 91-Day Treasury Bill | 5.32 | 0.38 | 0.00 | 0.00 |

Asset Allocation OP&F

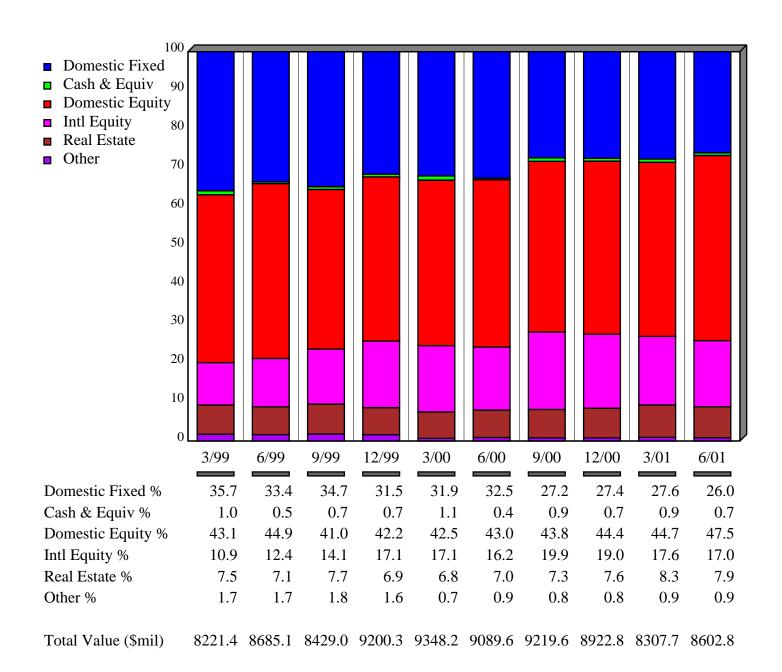
March 31, 2001 \$8,307,689,000







OHIO RETIREMENT STUDY COUNCIL Asset Allocation OP&F



Custom Benchmark Specification OP&F

| | Quarter | Quarter | | |
|--------------|---------|---------|---------|---------------------------|
| Label | Start | End | Percent | Description |
| Policy Index | 3/94 | 9/97 | 9.00 | Wilshire RE Funds |
| | | | 10.00 | MSCI EAFE (Net) |
| | | | 39.50 | LB Aggregate |
| | | | 41.50 | Wilshire 5000 |
| | 12/97 | 12/00 | 35.00 | LB Aggregate |
| | | | 10.00 | MSCI EAFE (Net) |
| | | | 5.00 | MSCI Em Mkts Free (Gross) |
| | | | 8.00 | Wilshire RE Funds |
| | | | 42.00 | Wilshire 5000 |
| | 3/01 | 6/01 | 48.00 | Wilshire 5000 |
| | | | 18.00 | LB Aggregate |
| | | | 17.00 | MSCI EAFE (Net) |
| | | | 8.00 | Wilshire RE Funds |
| | | | 5.00 | First Boston Hi Yld |
| | | | 3.00 | MSCI Em Mkts Free (Gross) |
| | | | 1.00 | S&P + 5% |
| | | | | |

Performance Overview OP&F

Returns for Periods Ending June 30, 2001

| | Last Quarter | Last 2 Quarters | Last 3 Quarters | Last Year | Last 3 Years | Last 5 Years | Since 1st Qtr 94 |
|------------------------------------|-----------------|--------------------|-----------------|--------------|-----------------|-----------------|---------------------|
| Total Return | 3.82 | -2.63 | -4.84 | -4.88 | 4.15 | 9.47 | 9.95 |
| | | | | | | | |
| Policy Index Return | 3.67 | -4.16 | -7.61 | -7.81 | 4.49 | 9.20 | 9.68 |
| Domestic Equity Return | 7.65 | -3.86 | -8.84 | -6.73 | 4.28 | 12.93 | 13.87 |
| Equity Segment Median Return | 6.89 | -4.40 | -9.97 | -8.69 | 5.98 | 14.44 | |
| Wilshire 5000 | 7.48 | -5.78 | -15.52 | -15.32 | 3.52 | 13.07 | 14.60 |
| Int'l Equity Return | 0.08 | -13.92 | -20.26 | -27.38 | 0.01 | 4.51 | |
| Int'l Equity Segment Median Return | 1.50 | -8.00 | -14.09 | -20.78 | 2.90 | 7.82 | |
| MSCI EAFE (Net) | -1.05 | -14.61 | -16.91 | -23.61 | -1.25 | 2.89 | 5.02 |
| Domestic Fixed Return | 0.98 | 4.72 | 9.70 | 13.11 | 6.92 | 7.96 | 7.03 |
| Fixed Income Segment Median Return | 0.49 | 3.57 | 7.84 | 10.91 | 6.21 | 7.45 | |
| LB Aggregate | 0.56 | 3.60 | 7.97 | 11.23 | 6.25 | 7.48 | 6.72 |
| Cash Return | 1.13 | 2.66 | 4.33 | 5.91 | 5.58 | | |
| Real Estate Return | 1.80 | 7.50 | 10.20 | 11.90 | 11.81 | 12.03 | 11.17 |
| NCREIF | 2.23 | 4.56 | 7.78 | 11.00 | 11.81 | 12.71 | 10.95 |

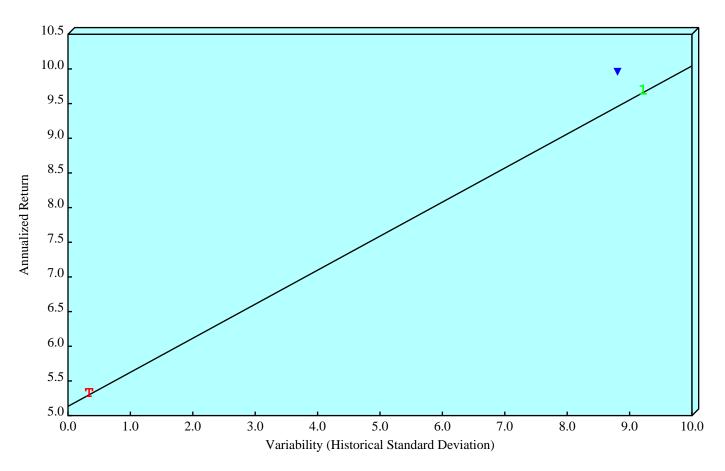
Performance Overview OP&F

Returns for Periods Ending June 30, 2001

Policy Index

| | Segment | |
|----------------------|-----------------------|-------|
| Wilshire 5000 | Domestic Equity | 48.00 |
| LB Aggregate | Domestic Fixed Income | 18.00 |
| MSCI EAFE (Net) | International Equity | 17.00 |
| Wilshire RE Funds | Real Estate | 8.00 |
| First Boston Hi Yld | Domestic Fixed Income | 5.00 |
| MSCI Em Mkts Free (G | International Equity | 3.00 |
| S&P + 5% | Other Assets | 1.00 |

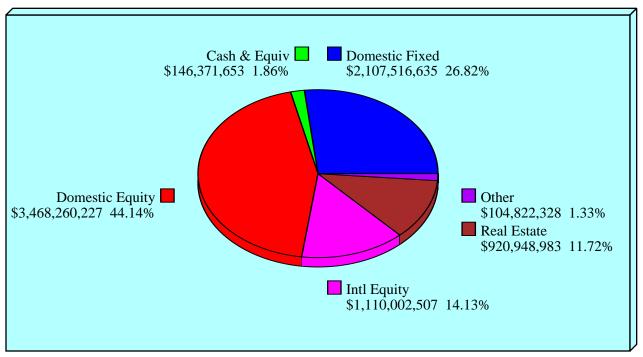
OHIO RETIREMENT STUDY COUNCIL Quarterly Total Return Market Line Analysis Periods from 12/93 to 6/01



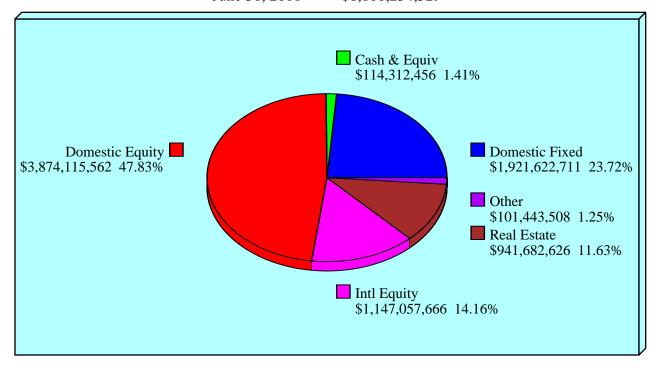
| | Annualized | | | Sharpe |
|-------------------------------|------------|-------------|--------|--------|
| | Return | Variability | Reward | Ratio |
| ▼ OP&F | 9.95 | 8.86 | 4.63 | 0.52 |
| 1 Policy Index | 9.68 | 9.26 | 4.36 | 0.47 |
| ▼ 91-Day Treasury Bill | 5.32 | 0.38 | 0.00 | 0.00 |

Asset Allocation SERS

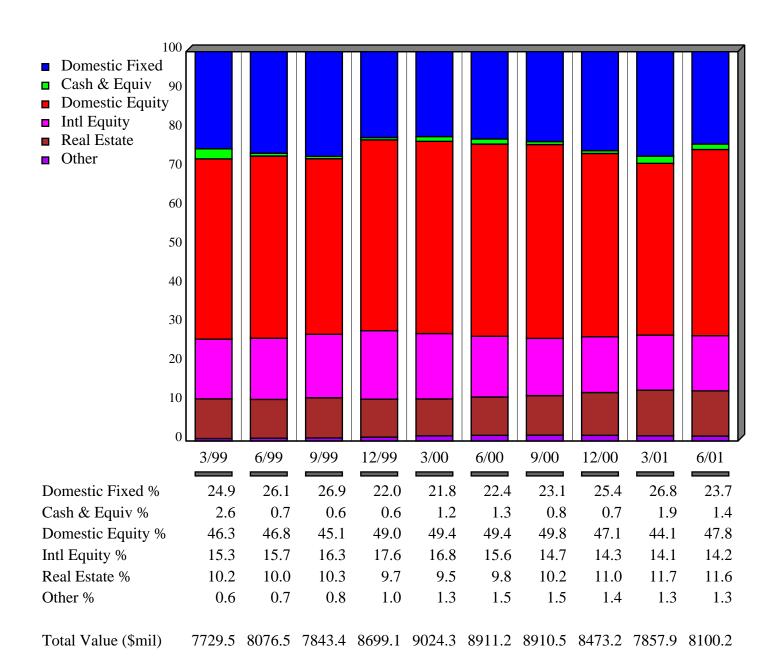
March 31, 2001 \$7,857,922,333



June 30, 2001 \$8,100,234,529



OHIO RETIREMENT STUDY COUNCIL Asset Allocation SERS



Custom Benchmark Specification SERS

| | Quarter | Quarter | | |
|--------------|---------|---------|---------|---------------------------|
| Label | Start | End | Percent | Description |
| Policy Index | 3/94 | 9/94 | 10.00 | NCREIF |
| | | | 10.00 | MSCI EAFE (Net) |
| | | | 28.00 | LB Aggregate |
| | | | 47.00 | Standard & Poors 500 |
| | | | 5.00 | Salomon 30-day CD |
| | 12/94 | 12/94 | 10.00 | NCREIF |
| | | | 5.00 | MSCI EAFE Hedged |
| | | | 5.00 | MSCI EAFE (Net) |
| | | | 28.00 | LB Aggregate |
| | | | 47.00 | Standard & Poors 500 |
| | | | 5.00 | Salomon 30-day CD |
| | 3/95 | 3/97 | 10.00 | NCREIF |
| | | | 5.00 | MSCI EAFE Hedged |
| | | | 5.00 | MSCI EAFE (Net) |
| | | | 28.00 | LB Aggregate |
| | | | 47.00 | Russell 3000 |
| | | | 5.00 | Salomon 30-day CD |
| | 6/97 | 6/97 | 46.00 | Russell 3000 |
| | | | 28.00 | LB Aggregate |
| | | | 7.50 | MSCI EAFE (Net) |
| | | | 7.50 | MSCI EAFE Hedged |
| | | | 10.00 | NCREIF |
| | | | 1.00 | Salomon 30-day CD |
| | 9/97 | 12/00 | 46.00 | Russell 3000 |
| | | | 28.00 | LB Aggregate |
| | | | 7.25 | MSCI EAFE (Net) |
| | | | 7.25 | MSCI EAFE Hedged |
| | | | 0.50 | MSCI Em Mkts Free (Gross) |
| | | | 10.00 | NCREIF |
| | | | 1.00 | Salomon 30-day CD |
| | 3/01 | | 48.00 | Russell 3000 |
| | | | 23.00 | LB Aggregate |
| | | | 16.00 | MSCI ACWI Free ex US |
| | | | 10.00 | NCREIF |
| | | | 2.00 | Salomon 30-day CD |

Custom Benchmark Specification SERS

| Label | Quarter Start | Quarter End | Percent | Description |
|----------------------|------------------|----------------|---------|----------------|
| Policy Index (cont.) | Start | Lilu | | S & P 500 + 3% |
| | | | | |

OHIO RETIREMENT STUDY COUNCIL Performance Overview

Performance Overview SERS

Returns for Periods Ending June 30, 2001

| | Last Quarter | Last 2 Quarters | Last 3 Quarters | Last Year | Last 3 Years | Last 5 Years | Since 1st Qtr 94 |
|------------------------------------|-----------------|--------------------|-----------------|--------------|-----------------|-----------------|---------------------|
| Total Return | 4.00 | -3.07 | -7.53 | -6.98 | 5.33 | 10.52 | 10.90 |
| | | | | | | | |
| Policy Index Return | 3.88 | -3.02 | -6.14 | -5.52 | 5.63 | 10.99 | 11.37 |
| Domestic Equity Return | 7.40 | -6.78 | -16.38 | -15.63 | 3.80 | 13.16 | 14.65 |
| Equity Segment Median Return | 6.89 | -4.40 | -9.97 | -8.69 | 5.98 | 14.44 | |
| Wilshire 5000 | 7.48 | -5.78 | -15.52 | -15.32 | 3.52 | 13.07 | 14.60 |
| Int'l Equity Return | 0.90 | -8.89 | -13.17 | -17.95 | 2.02 | 6.78 | |
| Int'l Equity Segment Median Return | 1.50 | -8.00 | -14.09 | -20.78 | 2.90 | 7.82 | |
| MSCI EAFE (Net) | -1.05 | -14.61 | -16.91 | -23.61 | -1.25 | 2.89 | 5.02 |
| Domestic Fixed Return | 0.80 | 4.23 | 9.02 | 12.29 | 6.49 | 7.74 | 6.68 |
| Fixed Income Segment Median Return | 0.49 | 3.57 | 7.84 | 10.91 | 6.21 | 7.45 | |
| LB Aggregate | 0.56 | 3.60 | 7.97 | 11.23 | 6.25 | 7.48 | 6.72 |
| Cash Return | 1.50 | 4.14 | 6.43 | 9.09 | 6.55 | 6.13 | 5.81 |
| Real Estate Return | 3.30 | 4.33 | 8.19 | 11.55 | 11.23 | 11.64 | 11.07 |
| NCREIF | 2.23 | 4.56 | 7.78 | 11.00 | 11.81 | 12.71 | 10.95 |

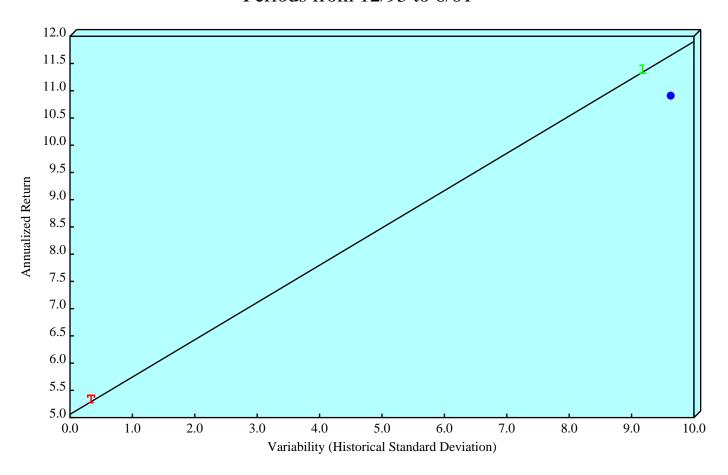
Performance Overview SERS

Returns for Periods Ending June 30, 2001

Policy Index

| | Segment | Percent |
|----------------------|-----------------------------|---------|
| Russell 3000 | Domestic Equity | 48.00 |
| LB Aggregate | Domestic Fixed Income | 23.00 |
| MSCI ACWI Free ex US | International Equity | 16.00 |
| NCREIF | Real Estate | 10.00 |
| Salomon 30-day CD | Cash & Equiv | 2.00 |
| S & P 500 + 3% | Other Assets | 1.00 |

OHIO RETIREMENT STUDY COUNCIL Quarterly Total Return Market Line Analysis Periods from 12/93 to 6/01

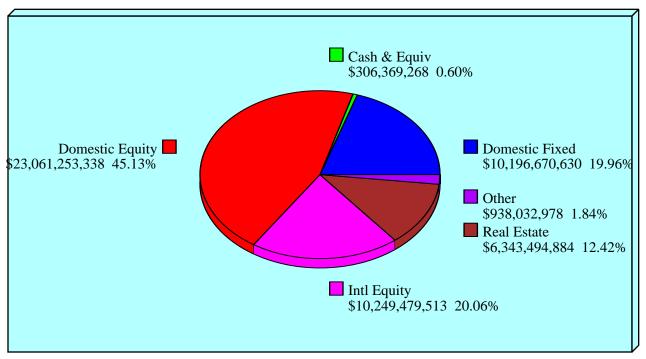


| | Annualized | | | Sharpe |
|-------------------------------|------------|-------------|--------|--------|
| | Return | Variability | Reward | Ratio |
| • SERS | 10.90 | 9.68 | 5.58 | 0.58 |
| 1 Policy Index | 11.37 | 9.22 | 6.06 | 0.66 |
| ▼ 91-Day Treasury Bill | 5.32 | 0.38 | 0.00 | 0.00 |

Asset Allocation STRS

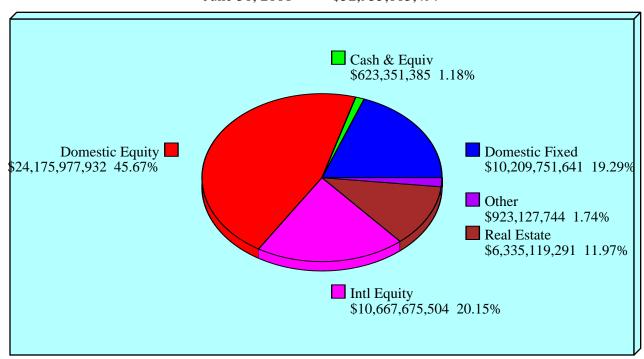
March 31, 2001

\$51,095,300,611

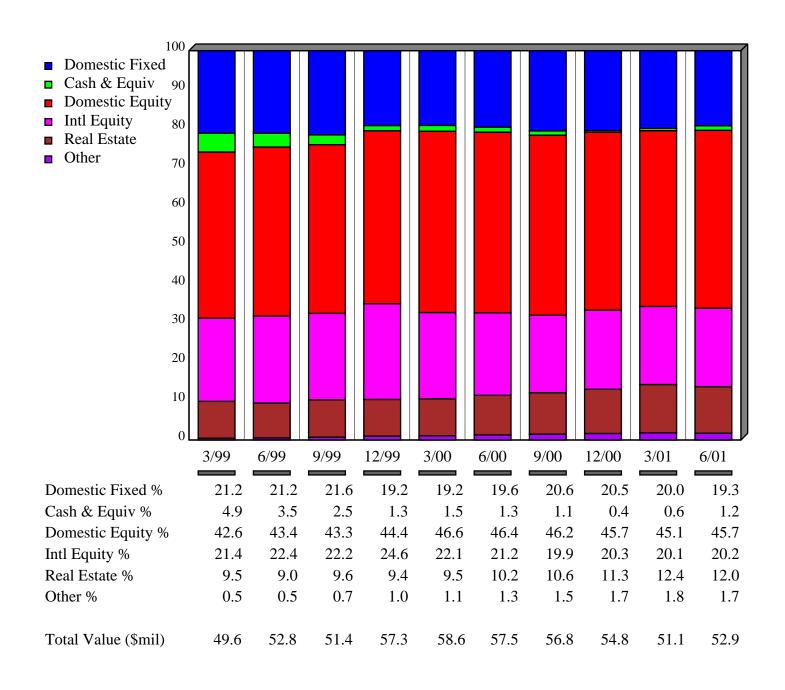


June 30, 2001

\$52,935,003,497



OHIO RETIREMENT STUDY COUNCIL Asset Allocation STRS



Custom Benchmark Specification STRS

| | Quarter | Quarter | | |
|--------------|---------|---------|---------|---------------------------|
| Label | Start | End | Percent | Description |
| Policy Index | 3/94 | 9/94 | 3.00 | 91-Day Treasury Bill |
| | | | 9.00 | STRS NCREIF hybrid |
| | | | 3.00 | MSCI EAFE (Net) |
| | | | 45.00 | LB Aggregate |
| | | | 40.00 | Standard & Poors 500 |
| | 12/94 | 12/94 | 3.00 | 91-Day Treasury Bill |
| | | | 9.00 | STRS NCREIF hybrid |
| | | | 0.75 | MSCI Em Mkts Free (Gross) |
| | | | 2.25 | MSCI EAFE (Net) |
| | | | 45.00 | LB Aggregate |
| | | | 40.00 | Standard & Poors 500 |
| | 3/95 | 3/96 | 2.00 | 91-Day Treasury Bill |
| | | | 9.00 | STRS NCREIF hybrid |
| | | | 2.00 | MSCI Em Mkts Free (Gross) |
| | | | 6.00 | MSCI EAFE (Net) |
| | | | 35.00 | LB Aggregate |
| | | | 46.00 | Standard & Poors 500 |
| | 6/96 | 12/96 | 2.00 | 91-Day Treasury Bill |
| | | | 9.00 | STRS NCREIF hybrid |
| | | | 2.25 | MSCI Em Mkts Free (Gross) |
| | | | 6.75 | MSCI EAFE (Net) |
| | | | 35.00 | LB Aggregate |
| | | | 45.00 | Standard & Poors 500 |
| | 3/97 | 6/97 | 2.00 | 91-Day Treasury Bill |
| | | | 9.00 | STRS NCREIF hybrid |
| | | | 4.00 | MSCI Em Mkts Free (Gross) |
| | | | 6.00 | MSCI EAFE (Net) |
| | | | 34.00 | LB Aggregate |
| | | | 45.00 | Standard & Poors 500 |
| | 9/97 | 3/98 | 45.00 | Standard & Poors 500 |
| | | | 24.00 | LB Aggregate |
| | | | 12.00 | MSCI EAFE (Net) |
| | | | 8.00 | MSCI Em Mkts Free (Gross) |
| | | | 9.00 | STRS NCREIF hybrid |
| | | | 2.00 | 91-Day Treasury Bill |

Custom Benchmark Specification STRS

| | Quarter | Quarter | | |
|----------------------|---------|---------|---------|---------------------------|
| Label | Start | End | Percent | Description |
| Policy Index (cont.) | 3/98 | 9/98 | 24.00 | LB Aggregate |
| | | | 8.00 | MSCI Em Mkts Free (Gross) |
| | | | 9.00 | STRS NCREIF hybrid |
| | | | 2.00 | 91-Day Treasury Bill |
| | | | 12.00 | MSCI EAFE 50% Hedged |
| | | | 45.00 | Standard & Poors 500 |
| | 12/98 | 9/00 | 24.00 | LB Aggregate |
| | | | 6.00 | MSCI Em Mkts Free (Gross) |
| | | | 9.00 | STRS NCREIF hybrid |
| | | | 2.00 | 91-Day Treasury Bill |
| | | | 45.00 | S&P Super 1500 Index |
| | | | 14.00 | MSCI EAFE 50% Hedged |
| | 12/00 | 6/01 | 1.00 | 91-Day Treasury Bill |
| | | | 45.00 | S&P Super 1500 Index |
| | | | 9.00 | STRS NCREIF hybrid |
| | | | 25.00 | Lehman Universal |
| | | | 5.00 | MSCI Em Mkts Free (Gross) |
| | | | 15.00 | MSCI EAFE 50% Hedged |
| | | | | |

OHIO RETIREMENT STUDY COUNCIL Performance Overview STRS

Returns for Periods Ending June 30, 2001

| | Last Quarter | Last 2 Quarters | Last 3 Quarters | Last Year | Last 3 Years | Last 5 Years | Since 1st Qtr 94 |
|------------------------------------|-----------------|--------------------|--------------------|--------------|-----------------|-----------------|---------------------|
| Total Return | 3.77 | -2.93 | -5.86 | -6.34 | 5.26 | 9.42 | 9.81 |
| | | | | | | | |
| Policy Index Return | 3.59 | -2.73 | -5.90 | -6.35 | 5.74 | 10.26 | 10.66 |
| Domestic Equity Return | 6.68 | -5.76 | -12.67 | -12.67 | 3.33 | 12.10 | 13.12 |
| Equity Segment Median Return | 6.89 | -4.40 | -9.97 | -8.69 | 5.98 | 14.44 | |
| Wilshire 5000 | 7.48 | -5.78 | -15.52 | -15.32 | 3.52 | 13.07 | 14.60 |
| Int'l Equity Return | 2.42 | -7.48 | -11.76 | -18.33 | 3.41 | 2.78 | 4.58 |
| Int'l Equity Segment Median Return | 1.50 | -8.00 | -14.09 | -20.78 | 2.90 | 7.82 | |
| MSCI EAFE (Net) | -1.05 | -14.61 | -16.91 | -23.61 | -1.25 | 2.89 | 5.02 |
| Domestic Fixed Return | 0.67 | 3.86 | 8.36 | 11.82 | 6.48 | 8.38 | 7.56 |
| Fixed Income Segment Median Return | 0.49 | 3.57 | 7.84 | 10.91 | 6.21 | 7.45 | |
| LB Aggregate | 0.56 | 3.60 | 7.97 | 11.23 | 6.25 | 7.48 | 6.72 |
| Cash Return | 1.08 | 2.53 | 4.26 | 6.06 | 5.77 | 5.72 | 5.32 |
| Real Estate Return | 2.17 | 3.72 | 8.31 | 12.51 | 12.16 | 13.02 | 11.16 |
| NCREIF | 2.23 | 4.56 | 7.78 | 11.00 | 11.81 | 12.71 | 10.95 |

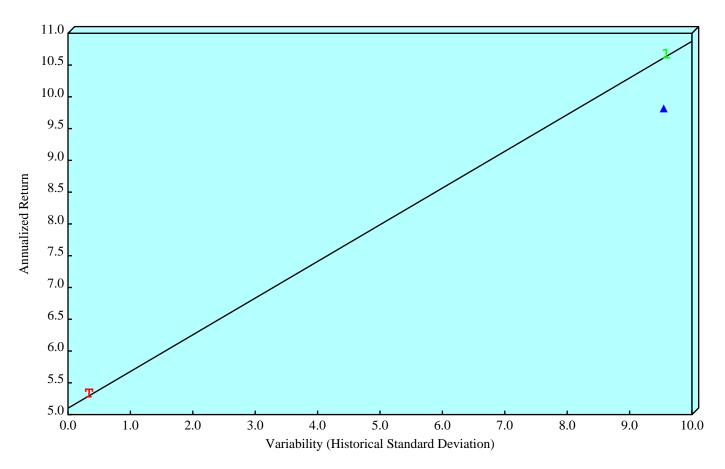
Performance Overview STRS

Returns for Periods Ending June 30, 2001

Policy Index

| | Segment | Percent |
|----------------------|-----------------------|---------|
| 91-Day Treasury Bill | Cash & Equiv | 1.00 |
| S&P Super 1500 Index | Domestic Equity | 45.00 |
| STRS NCREIF hybrid | Real Estate | 9.00 |
| Lehman Universal | Domestic Fixed Income | 25.00 |
| MSCI Em Mkts Free (G | International Equity | 5.00 |
| MSCI EAFE 50% Hedged | International Equity | 15.00 |

OHIO RETIREMENT STUDY COUNCIL Quarterly Total Return Market Line Analysis Periods from 12/93 to 6/01



| | Annualized | | | Sharpe |
|-------------------------------|------------|-------------|--------|--------|
| | Return | Variability | Reward | Ratio |
| ▲ STRS | 9.81 | 9.60 | 4.49 | 0.47 |
| 1 Policy Index | 10.66 | 9.63 | 5.34 | 0.55 |
| ▼ 91-Day Treasury Bill | 5.32 | 0.38 | 0.00 | 0.00 |

Highway Patrol Pension Plan

| Asset Class | Asset Allocation | Benchmark | Benchmark Weighting | Difference |
|-------------------|------------------|-----------------|---------------------|------------|
| Large Cap Equity | 35.89% | S & P 500 | 40% | -4.11% |
| Small/Mid Cap Equ | 16.09% | Russell 2000 | 20% | -3.91% |
| Fixed Income | 20.86% | LB Aggregate | 20% | 0.86% |
| Intl. Equity | 10.39% | MSCI EAFE (Net) | 10% | 0.39% |
| Real Estate | 13.41% | NCREIF | 10% | 3.41% |
| Short Term | 3.35% | | 0% | 3.35% |

Ohio Police & Fire Pension Plan

| Asset Class | Asset Allocation | Benchmark | Benchmark Weighting | Difference |
|--------------------|------------------|-------------------|---------------------|------------|
| Equity | 48.01% | Wilshire 5000 | 48% | 0.01% |
| Fixed Income | 20.95% | Lehman Aggregate | 18% | 2.95% |
| High Yield Bonds | 5.00% | CSFB High Yield | 5% | 0.00% |
| Intl. Equity Comp. | 13.37% | MSCI EAFE (Net) | 17% | -3.63% |
| Em. Mkts Comp. | 3.74% | MSCI Em Mkts Free | 3% | 0.74% |
| Real Estate | 7.37% | Wilshire RE Fund | 8% | -0.63% |
| Venture Capital | 0.89% | S&P 500 + 5% | 1% | -0.11% |
| Short Term | 0.68% | 3 Month T-Bill | 0% | 0.68% |

Public Employees Retirement System

| Asset Class | Asset Allocation | Benchmark | Benchmark Weighting | Difference |
|-----------------|------------------|--------------------|---------------------|------------|
| Equity | 41.75% | S&P 1500 | 40.5% | 1.25% |
| Fixed Income | 28.00% | SB Broad Inv Grade | 29.2% | -1.20% |
| Intl. Equity | 19.51% | MSCI ACWI | 19.3% | 0.21% |
| Real Estate | 10.07% | PERS Custom Index | 9.3% | 0.77% |
| Venture Capital | 0.15% | S&P 500 | 0.2% | -0.05% |
| Short Term | 0.52% | 3 Month T-Bill | 1.5% | -0.98% |

School Employees Retirement System

Asset Allocation Actual vs. Benchmark June 30, 2001

| Asset Class | Asset Allocation | Benchmark | Benchmark Weighting | Difference |
|-----------------|------------------|-------------------|---------------------|------------|
| Domestic Equity | 47.83% | Russell 3000 | 48% | -0.17% |
| Fixed Income | 23.72% | LB Aggregate | 23% | 0.72% |
| Intl. Equity | 14.16% | MSCI ACWI ex US | 16% | -1.84% |
| Real Estate | 11.63% | NCREIF | 10% | 1.63% |
| Venture Capital | 1.25% | S&P 500 + 3% | 1% | 0.25% |
| Short Term | 1.41% | Salomon 30 Day CD | 2% | -0.59% |

.

State Teachers Retirement System

| Asset Class | Asset Allocation | Benchmark | Benchmark Weighting | Difference |
|-----------------|------------------|------------------------|---------------------|------------|
| Equity | 45.67% | S&P 1500 | 45% | 0.67% |
| Fixed Income | 19.29% | Lehman Universal | 25% | -5.71% |
| Intl. Equity | 20.15% | Intl. Hybrid Benchmark | 20% | 0.15% |
| Real Estate | 11.97% | NCREIF Adjusted | 9% | 2.97% |
| Venture Capital | 1.74% | | 0% | 1.74% |
| Short Term | 1.18% | 3 Month T-Bill | 1% | 0.18% |