PUBLIC EMPLOYEES’
RETIREMENT FUND OF INDIANA
ACTUARIAL VALUATION
JULY 1, 2002

PUBLIC EMPLOYEES' RETIREMENT FUND OF INDIANA

ACTUARIAL VALUATION

VALUATION DATE
July 1, 2002

VALUATION YEAR
July 1, 2002 - June 30, 2003

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## PUBLIC EMPLOYEES' RETIREMENT FUND OF INDIANA

Summary of Actuarial Valuation as of July 1, 2002

## Introduction

As of the valuation date there were 143,234 active members, 51,092 pensioners and 11,572 terminated members entitled to future benefits. See the exhibit labeled Summary of Employee Data for a breakdown of the members between state employees and employees of political subdivisions.

We have established the following contributions as of July 1, 2002:

|  | With Fresh Start and 4-Year Phase-In |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | State |  | Political Subdivisions | Total |
| Total Annual Cost | \$ | 79,641,040 | \$ 137,435,808 | \$ 217,076,848 |
| Cost as Percentage of Anticipated Payroll (Interest adjusted to mid-year) |  | 5.6\% | 6.2\% | 5.9\% |

This Valuation is the first to reflect census data as reported by a new database system. The previous database system reported salaries on a calendar year basis and reported service through the March 31 preceding the valuation date. The new database system reports both salary and service on a fiscal year basis. Also, the new database system may have created an increase of about $\$ 70$ million in liabilities associated with prior service earned by active members. Due to the fiscal impact of the more current data, this valuation has been prepared in such a manner as to phase-in the changes brought about by the new database system over a four-year period on a pro rata basis. This phase-in will ease the transition to the census data reporting by the new database system.

This Valuation also reflects a fresh start of the amortization of unfunded actuarial accrued liabilities. Previous valuations reflected amortizations that began with an Initial Unfunded Liability established in 1975. Additional amortization bases were added in the years following, primarily reflecting actuarial experience gains and losses but also reflecting changes in actuarial methods and assumptions and changes in plan provisions. By fresh starting the amortization of unfunded actuarial accrued liabilities over a 30-year closed period, the Fund will be able to utilize currently the cost savings of future favorable amortization amounts.

## Introduction, Continued

This report reflects the plan provisions in effect as of July 1, 2002. Refer to the exhibit titled Summary of Major Plan Provisions for a brief description of benefits provided by this plan.

The Total Annual Cost is composed of employer normal cost of $\$ 211,585,962$ and an amortization payment of $\$ 5,490,886$. As of July 1, 2002, the Unfunded Actuarial Accrued Liability is $\$ 71,278,179$. A breakdown and a comparison with the results of the prior valuation is provided in the exhibit titled Contribution Breakdown and Comparison.

The Total Annual Cost for 2002, as a percent of anticipated payroll increased to $5.9 \%$ as compared to $5.1 \%$ for 2001. The Fund had experience losses primarily from investments yielding less than the assumed $7.25 \%$ (estimated return for the 2001 plan year was 3.3\% on an actuarial value basis). In terms of actual dollars, the Total Annual Cost increased by $\$ 41,257,305$ from $\$ 175,819,543$ for the 2001 plan year to $\$ 217,076,848$ for the 2002 plan year.

## Actuarial Methods and Assumptions

The Entry Age Normal Cost Method was continued for determining the cost of retirement benefits, death benefits, disability benefits, and termination benefits. Valuation assets continue to be developed on an actuarial basis.

The actuarial assumptions used in this Valuation have been reviewed and continued from the prior Valuation.
A brief explanation of the methods and a complete summary of the assumptions used may be found in the exhibits titled $\underline{\text { Actuarial }}$ Methods and Actuarial Assumptions.

## Valuation Data and Disclaimer

The valuation census data was provided by the Public Employees' Retirement Fund and transposed into a computer file for processing. Similar information has been furnished to us in the past, and the accuracy of this report depends on the accuracy of all data that has been furnished to us from time to time. Trust information was also furnished by the Public Employees' Retirement Fund. It is noted that we make no representation concerning the accuracy of any employee data or valuation information that has been furnished to us.

## Valuation Data and Disclaimer, Continued

The Valuation has been prepared for the sole purpose of determining the contribution requirements for the respective plan year and for providing accounting data to meet the requirements of GASB \#25 and \#27. The figures in this Valuation should not be used as the basis for any other purpose for which it was not designed.

## Summary of Trust Experience

Using market value, the assets consist of $47.2 \%$ in common stock, $13.3 \%$ in corporate bonds and notes, $12.0 \%$ in U.S. Treasury and Agency Obligations, $11.7 \%$ in mortgage securities, $10.7 \%$ in international stock and foreign bonds, $6.9 \%$ in cash and cash equivalents, $0.1 \%$ in real estate investments and negative $1.9 \%$ in net receivables and liabilities. Based on the actuarial value, the entire asset portfolio had net investment income for the 2001 plan year that resulted in an estimated yield of $3.3 \%$. See the exhibit labeled Ten Year Historical Investment Experience for more detail.

We will be pleased to furnish any additional information or answer any questions which may arise after your review of this report.

## ACTUARIAL CERTIFICATION

The information and valuation results shown in this report are, to the best of my knowledge, complete and accurate and are based upon:

1. Employee census data as of July 1, 2002 submitted by the Director of the Public Employees' Retirement Fund. Although we did not audit this data, it appears to be sufficient and reliable for purposes of the report.
2. Financial data as of July 1, 2002 submitted by the Director of the Public Employees' Retirement Fund. Although we did not audit this data, it appears to be sufficient and reliable for purposes of the report.
3. Actuarial assumptions which, in the aggregate, are reasonably related to the experience of the plan and to reasonable expectations, and which represent our best estimate of anticipated experience under the plan.
4. Actuarial methods as stated in the report and our interpretation of plan provisions as summarized in the report.

Sincerely,

Douglas Todd<br>A.S.A., M.A.A.A., E.A.<br>Senior Actuary

## TOTAL ANNUAL COST

COST AS PERCENTAGE OF ANTICIPATED PAYROLL*

TOTAL ANNUAL COST

COST AS PERCENTAGE OF ANTICIPATED PAYROLL*

| July 1, 2002 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| State |  | Political Subdivisions |  | Total |  |
| With Fresh Start and 4-Year Phase-in |  |  |  |  |  |
| \$ | 79,641,040 |  | 137,435,808 | \$ | 217,076,848 |
|  | 5.6\% |  | 6.2\% |  | 5.9\% |

July 1, 2002
$\qquad$ Political Subdivisions Total
Prior to Fresh Start and 4-Year Phase-in
\$ 94,181,644
\$ 148,776,633
\$ 242,958,277
6.5\%
6.6\%
6.5\%
*Interest adjusted for mid-year contribution

## CONTRIBUTION BREAKDOWN AND COMPARISON

## With Fresh Start and 4-Year Phase-in

## TOTAL ANNUAL COST

Employer Normal Cost
Amortization of Unfunded Actuarial Liability Total

ANTICIPATED PAYROLL

| July 1, 2002 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| State |  | Political Subdivisions |  | Total |  |
| \$ | 83,616,958 | \$ | 127,969,004 | \$ | 211,585,962 |
|  | $(3,975,918)$ |  | 9,466,804 |  | 5,490,886 |
| \$ | 79,641,040 | \$ | 137,435,808 | \$ | 217,076,848 |
|  | 475,076,791 |  | 2,310,165,016 |  | 3,785,241,80 |

TOTAL ANNUAL COST AS \% OF ANTICIPATED PAYROLL (Interest Adjusted for Mid-Year Contribution)
5.6\%
6.2\%
5.9\%

## DEVELOPMENT OF UNFUNDED ACTUARIAL LIABILITY

## With Fresh Start and 4-Year Phase-in

July 1, 2002
Actuarial Accrued Liability

- Active Members
- Terminated Members

Total
Less: Non-Retired Member Assets
Equals: Actual Unfunded Actuarial Accrued Liability (UAAL)

| State | Political Subdivisions | Total |
| :---: | :---: | :---: |
| \$ 1,899,604,451 | \$ 2,483,743,495 | \$ 4,383,347,946 |
| 110,573,395 | 103,937,268 | 214,510,663 |
| \$ 2,010,177,846 | \$ 2,587,680,763 | \$ 4,597,858,609 |
| 2,061,789,940 | 2,464,790,490 | 4,526,580,430 |
| \$ (51,612,094) | \$ 122,890,273 | \$ 71,278,17 |

## CONTRIBUTION BREAKDOWN AND COMPARISON, Continued

Prior to Fresh Start and 4-Year Phase-in

|  | July 1, 2002 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | State |  | Political Subdivisions |  | Total |  |
| TOTAL ANNUAL COST |  |  |  |  |  |  |
| Employer Normal Cost | \$ | 84,580,744 | \$ | 129,387,950 | \$ | 213,968,694 |
| Amortization of Unfunded Actuarial Liability |  | 9,600,900 |  | 19,388,683 |  | 28,989,583 |
| Total | \$ | 94,181,644 | \$ | 148,776,633 | \$ | 242,958,277 |
| ANTICIPATED PAYROLL | \$ | 1,501,201,217 | \$ | 2,350,559,741 | \$ | 3,851,760,958 |
| TOTAL ANNUAL COST AS \% OF ANTICIPATED PAYROLL (Interest Adjusted for Mid-Year Contribution) |  | 6.5\% |  | 6.6\% |  | 6.5\% |

## DEVELOPMENT OF UNFUNDED ACTUARIAL LIABILITY

Prior to Fresh Start and 4-Year Phase-in

|  | July 1, 2002 |  |  |
| :---: | :---: | :---: | :---: |
|  | State | Political Subdivisions | Total |
| Actuarial Accrued Liability |  |  |  |
| - Active Members | \$ 2,011,340,391 | \$ 2,566,901,294 | \$ 4,578,241,685 |
| - Terminated Members | 112,438,640 | 105,579,980 | 218,018,620 |
| Total | \$ 2,123,779,031 | \$ 2,672,481,274 | \$ 4,796,260,305 |
| Less: Non-Retired Member Assets | 2,061,789,940 | 2,464,790,490 | 4,526,580,430 |
| Equals: Actual Unfunded Actuarial Accrued Liability (UAAL) | \$ 61,989,091 | \$ 207,690,784 | \$ 269,679,875 |
| Unfunded Actuarial Accrued Liability, Prior Year | \$ (167,121,220) | \$ (250,510,886) | \$ (417,632,106) |
| Less: Amortization of Unfunded Actuarial Liability, Prior Year | (7,234,726) | $(14,320,368)$ | $(21,555,094)$ |
| Plus: Interest for Full Year at 7.25\% | $(11,591,771)$ | $(17,123,813)$ | $(28,715,583)$ |
| Plus: Increase (Decrease) Due to Change in Actuarial Assumptions | 0 | 0 | 0 |
| Equals: Expected Unfunded Actuarial Accrued Liability (UAAL) | \$ (171,478,265) | \$ (253,314,331) | \$ (424,792,595) |
| Experience (Gain)/Loss [Actual UAAL-Expected UAAL] | \$ 233,467,356 | \$ 461,005,115 | \$ 694,472,471 |

## CONTRIBUTION BREAKDOWN AND COMPARISON, Continued

|  | July 1, 2001 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | State |  | Political Subdivisions |  | Total |  |
| TOTAL ANNUAL COST |  |  |  |  |  |  |
| Employer Normal Cost | \$ | 79,567,647 | \$ | 117,806,990 | \$ | 197,374,637 |
| Amortization of Unfunded Actuarial Liability |  | (7,234,726) |  | (14,320,368) |  | $(21,555,094)$ |
| Total | \$ | 72,332,921 | \$ | 103,486,622 | \$ | 175,819,543 |
| ANTICIPATED PAYROLL | \$ | 1,429,768,169 | \$ | 2,157,311,469 | \$ | 3,587,079,638 |
| TOTAL ANNUAL COST AS \% OF ANTICIPATED PAYROLL (Interest Adjusted for Mid-Year Contribution) |  | 5.2\% |  | 5.0\% |  | 5.1\% |

DEVELOPMENT OF UNFUNDED ACTUARIAL LIABILITY

Actuarial Accrued Liability

- Active Members
- Terminated Members

Total
Less: Non-Retired Member Assets
Equals: Actual Unfunded Actuarial Accrued Liability (UAAL)
Unfunded Actuarial Accrued Liability, Prior Year
Less: Amortization of Unfunded Actuarial Liability, Prior Year
Plus: Interest for Full Year at 7.25\%
Plus: Increase (Decrease) Due to Change in Actuarial Assumptions
Equals: Expected Unfunded Actuarial Accrued Liability (UAAL)
Experience (Gain)/Loss [Actual UAAL-Expected UAAL]

| July 1, 2001 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| State | Political Subdivisions |  | Total |  |
| $\begin{array}{r} \$ 1,801,648,634 \\ 94,857,110 \\ \hline \end{array}$ | \$ | $\begin{array}{r} 2,204,246,049 \\ 49,886,261 \\ \hline \end{array}$ | \$ | $\begin{array}{r} 4,005,894,683 \\ 144,743,371 \\ \hline \end{array}$ |
| \$ 1,896,505,744 | \$ | 2,254,132,310 | \$ | 4,150,638,054 |
| 2,063,626,964 |  | 2,504,643,196 |  | 4,568,270,160 |
| \$ (167,121,220) | \$ | $(250,510,886)$ | \$ | $(417,632,106)$ |
| \$ (258,926,582) | \$ | $(308,844,739)$ | \$ | $(567,771,321)$ |
| $(13,658,514)$ |  | $(18,167,887)$ |  | $(31,826,401)$ |
| $(17,781,935)$ |  | $(21,074,072)$ |  | $(38,856,007)$ |
| 45,505,220 |  | 46,562,622 |  | 92,067,842 |
| \$ (217,544,783) | \$ | $(265,188,302)$ | \$ | $(482,733,085)$ |
| \$ 50,423,563 | \$ | 14,677,416 | \$ | 65,100,979 |

## ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS FOR NON-RETIRED MEMBERS

## Vested Benefits

- Active Members
- Terminated Members

Total
Nonvested Benefits
Total Non-Retired Actuarial Present Value of Accumulated Plan Benefits
Non-Retired Member Assets

- Market Value
- Actuarial Value

Ratio of Assets to the Present Value of Vested Accumulated Plan Benefits

- Market Value
- Actuarial Value

Ratio of Assets to the Present Value of Total Accumulated Plan Benefits

- Market Value
- Actuarial Value

July 1, 2002

## Political

| State | Political Subdivisions | Total |
| :---: | :---: | :---: |
| \$ 943,561,099 | \$ 1,166,288,531 | \$ 2,109,849,630 |
| 112,438,640 | 105,579,980 | 218,018,620 |
| \$ 1,055,999,739 | \$ 1,271,868,511 | \$ 2,327,868,250 |
| 126,925,147 | 192,076,845 | 319,001,992 |
| \$ 1,182,924,886 | \$ 1,463,945,356 | \$ 2,646,870,242 |
| \$ 1,587,254,806 | \$ 1,897,502,009 | \$ 3,484,756,815 |
| 2,061,789,940 | 2,464,790,490 | 4,526,580,430 |
| 1.503 | 1.492 | 1.497 |
| 1.952 | 1.938 | 1.945 |
| 1.342 | 1.296 | 1.317 |
| 1.743 | 1.684 | 1.710 |

## ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS FOR NON-RETIRED MEMBERS

- Continued -


## Vested Benefits

- Active Members
- Terminated Members

Total
Nonvested Benefits
Total Non-Retired Actuarial Present Value of Accumulated Plan Benefits
Non-Retired Member Assets

- Market Value
- Actuarial Value

Ratio of Assets to the Present Value of Vested Accumulated Plan Benefits

- Market Value
- Actuarial Value

Ratio of Assets to the Present Value of Total Accumulated Plan Benefits

- Market Value
- Actuarial Value

July 1, 2001

| July 1, 2001 |  |  |
| :---: | :---: | :---: |
| State | Political Subdivisions | Total |
| $\begin{array}{r} \$ 818,744,256 \\ \\ \hline 94,857,110 \\ \hline \end{array}$ | $\begin{array}{r} \$ 986,937,112 \\ \\ \hline 49,886,261 \\ \hline \end{array}$ | $\begin{array}{r} \$ 1,805,681,368 \\ 144,743,371 \\ \hline \end{array}$ |
| $\begin{array}{rr} \hline \$ & 913,601,366 \\ & 119,973,176 \\ \hline \end{array}$ | $\begin{array}{r} \hline \text { 1,036,823,373 } \\ \hline \end{array}$ | $\begin{array}{r} \hline \text { \$ 1,950,424,739 } \\ \hline \quad 298,867,828 \\ \hline \end{array}$ |
| \$ 1,033,574,542 | \$ 1,215,718,025 | \$ 2,249,292,567 |
| $\begin{array}{r} \$ 1,897,501,223 \\ 2,063,626,964 \end{array}$ | $\begin{array}{r} \$ 2,303,014,844 \\ 2,504,643,196 \end{array}$ | $\begin{array}{r} \$ 4,200,516,067 \\ 4,568,270,160 \end{array}$ |
| 2.077 | 2.221 | 2.154 |
| 2.259 | 2.416 | 2.342 |
| 1.836 | 1.894 | 1.867 |
| 1.997 | 2.060 | 2.031 |

Actuarial Present Value of Accumulated Plan Benefits, July 1, 2001

Plus: Increase Due to Additional Benefits Accumulated

Less: Transfers to Retired and Disabled Status

Plus: Increase Due to Decrease in the Discount Period (@7.25\%)

Plus: Increase Due to Change in Plan Provisions

Plus: Increase (Decrease) Due to Change in Actuarial Assumptions

Plus: Actuarial Experience (Gain)/Loss and other Miscellaneous Items

Equals: Actuarial Present Value of Accumulated Plan Benefits, July 1, 2002
\$ 2,249,292,567

218,006,448

318,426,238
$178,879,179$

## STATEMENT OF INCOME

July 1, 2001 - June 30, 2002
(1) Net Value of Assets Available for Benefits, July 1, 2001
(2) Receipts

Employer Contributions:

## State <br> Political Subdivisions

Employee Contributions:
State
Political Subdivisions
Investment Income and Dividends Net of Fees
Security Lending Income Net of Fees
Miscellaneous Income
Total Receipts
(3) Disbursements

Pension and Annuity Benefits
Disability Benefits
Refund of Contributions and Interest
Administrative Expenses
Miscellaneous Disbursements
Total Disbursements
(4) Net Value of Assets Available for Benefits, June 30, 2002 (1) + (2) - (3)

Market Value
\$ 8,355,440,079
\$ 77,420,027
130,600,124
\$ 45,877,730
73,499,035
119,376,765
$(391,876,935)$
2,590,333
1,696,863
\$ $(60,192,823)$
\$ 282,293,825
14,999,148
29,103,761
14,566,912
1,253,717
\$ 342,217,363
\$ 7,953,029,893

|  | July 1, 2001 |  | July 1, 2002 |  |
| :---: | :---: | :---: | :---: | :---: |
| Actuarial Value, Prior June 30 | \$ | 8,267,656,599 | \$ | 8,723,303,892 |
| Receipts |  |  |  |  |
| Employer Contributions Made During the Year |  | 187,758,669 |  | 208,020,151 |
| Employee Contributions Made During the Year |  | 124,954,395 |  | 119,376,765 |
| Expected Investment Income (@ 7.25\%) - Beginning Value |  | 599,405,103 |  | 632,439,532 |
| Expected Investment Income (@ 7.25\%) - Contributions |  | 11,335,849 |  | 11,868,138 |
| Miscellaneous Income |  | 4,771,013 |  | 1,696,863 |
| Total | \$ | 928,225,029 | \$ | 973,401,449 |
| Disbursements |  |  |  |  |
| Benefits Paid During the Year | \$ | 312,344,564 | \$ | 326,396,734 |
| Net Operational Expenses |  | 20,791,803 |  | 14,566,912 |
| Expected Investment Expenses (@ 7.25\%) - Disbursements |  | 12,076,193 |  | 12,359,932 |
| Miscellaneous Expenses |  | 4,780,478 |  | 1,253,717 |
| Total | \$ | 349,993,038 | \$ | 354,577,295 |
| Expected Actuarial Value, Current June 30 | \$ | 8,845,888,590 | \$ | 9,342,128,046 |
| Actual Market Value, Current June 30 | \$ | 8,355,549,799 | \$ | 7,953,029,893 |
| Actuarial Value, Current June 30 | \$ | 8,723,303,892 | \$ | 8,994,853,508 |

## ALLOCATION OF ASSETS

Total Assets Available for Benefits

- Market Value
- Actuarial Value

Less: Annuity Savings Account
Less: Retired and Disabled
Equals: Total Non-Retired Assets

- Market Value
- Actuarial Value

Total Ledger Assets

- State Share of Total
- State Percent of Total
- Political Subdivisions Share of Total

| July 1, 2001 | July 1, 2002 |
| :---: | :---: |
| \$ 8,355,549,799 | 7,953,029,893 |
| 8,723,303,892 | 8,994,853,508 |
| 1,728,971,769 | 1,886,124,000 |
| 2,426,061,963 | 2,582,149,078 |
| 4,200,516,067 | 3,484,756,815 |
| 4,568,270,160 | 4,526,580,430 |
| 5,217,458,565 | 5,323,362,832 |
| 2,356,885,151 | 2,424,712,461 |
| 45.173050\% | 45.548510\% |
| 2,860,573,414 | 2,898,650,371 |
| 54.826950\% | 54.451490\% |

State Portion (Based on Ledger Share)

- Market Value 1,897,501,223 1,587,254,806
- Actuarial Value
2,063,626,964 $\quad 2,061,789,940$

Political Subdivisions Portion (Based on Ledger Share)

- Market Value

2,303,014,844
1,897,502,009

- Actuarial Value

2,504,643,196
2,464,790,490

Each year the assets of the plan are allocated first to the Annuity Savings Account and second to retired and disabled lives. Residual assets are then allocated to non-retired members to determine necessary contribution levels for non-retired members.

## REQUIRED PENSION DISCLOSURE UNDER GASB \#25 AND \#27

(State Employees Only)
Schedule of Funding Progress

*Revised economic and/or noneconomic assumptions due to experience review.
**New database system providing more up-to-date census data.
August 22, 2003 (I418)

## REQUIRED PENSION DISCLOSURE UNDER GASB \#25 AND \#27

(State Employees Only)

Development of Net Pension Obligation (NPO)
(Dollar Amounts in Thousands)

| Year Beginning | (1) <br> Annual <br> Required Contrib | (2) Interest on NPO @ 7.25\% | (3) <br> ARC <br> Adjust <br> (8) / (4) | (4) <br> Amort. <br> Factor | (5) <br> Net Pens Cost $(1)+(2)-(3)$ | (6) <br> Actual <br> Employer <br> Contrib | (7) <br> Change <br> in NPO (5) - (6) | (8) $\begin{gathered} \text { NPO } \\ \text { @ BOY } \end{gathered}$ | (9) <br> NPO <br> @ EOY $(7)+(8)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7/1/96 | \$ 79,101 | - | - | 12.5944 | \$ 79,101 | \$ 81,585 | \$ $(2,484)$ | - | \$ $(2,484)$ |
| 7/1/97 | 81,546 | \$ (180) | \$ (192) | 12.9541 | 81,558 | 80,146 | 1,412 | \$ $(2,484)$ | $(1,072)$ |
| 7/1/98 | 67,481 | (78) | (83) | 12.8933 | 67,486 | 77,821 | $(10,335)$ | $(1,072)$ | $(11,407)$ |
| 7/1/99 | 61,762 | (827) | (889) | 12.8280 | 61,824 | 84,354 | $(22,530)$ | $(11,407)$ | $(33,937)$ |
| 7/1/00 | 66,559 | $(2,460)$ | $(2,660)$ | 12.7581 | 66,759 | 76,219 | $(9,460)$ | $(33,937)$ | $(43,397)$ |
| 7/1/01 | 72,333 | $(3,146)$ | $(3,422)$ | 12.6830 | 72,609 | 76,304 | $(3,695)$ | $(43,397)$ | $(47,092)$ |

Active Members
State
Political Subdivisions
Total

Retired Members and Beneficiaries Receiving Benefits
Annual Benefits Payable from Trust
Average Annual Benefit
Disabled Members Receiving Benefits
Annual Benefits Payable from Trust
Average Annual Benefit
Terminated Members Entitled to Future Benefits

| STATE |
| :--- |
| Deferred Annual Benefits* <br> Average Annual Benefits* |
| POLITICAL SUBDIVISIONS |
| Deferred Annual Benefits* <br> Average Annual Benefits* |

## Political Subdivisions

Total

|  | 6,408 |  | 5,618 |
| :--- | ---: | ---: | ---: |
| $\$$ | $26,565,153$ | $\$$ | $30,291,386$ |
| $\$$ | 4,146 | $\$$ | 5,392 |
|  | 3,915 |  | 5,954 |
| $\$$ | $14,543,07$ | $\$$ | $22,146,218$ |
| $\$$ | 3,715 | $\$$ | 3,720 |

*Weighted with early retirement rates

## SCHEDULED AMORTIZATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY

| Date Base Established | Reason | STATE PORTION |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Years Remaining at 7-1-2002 | Amortization Amount | Balance at 7/1/2002 |
| 6/30/1975 | Initial UAL | 13 | \$ 9,018,801 | 79,707,537 |
| 6/30/1976 | Experience Loss | 14 | 1,685,928 | 15,578,801 |
| 6/30/1977 | Experience Loss | 15 | 1,178,949 | 11,336,585 |
| 6/30/1978 | Experience Loss | 16 | 1,316,896 | 13,123,960 |
| 6/30/1979 | Experience Loss | 17 | 1,452,602 | 14,950,387 |
| 6/30/1980 | Experience Loss | 18 | 1,911,309 | 20,252,999 |
| 6/30/1981 | Assump./Experience Gain | 19 | $(1,581,922)$ | $(17,211,472)$ |
| 6/30/1982 | Assumption Change | 20 | 3,985,291 | 44,414,524 |
| 6/30/1982 | Experience Loss | 20 | 1,957,011 | 21,810,138 |
| 6/30/1983 | Experience Gain | 21 | $(698,574)$ | $(7,957,621)$ |
| 6/30/1984 | Experience Loss | 22 | 2,112,891 | 24,554,357 |
| 6/30/1985 | Experience Gain | 23 | $(994,812)$ | $(11,774,217)$ |
| 6/30/1986 | Experience Gain | 24 | $(2,439,258)$ | $(29,357,802)$ |
| 6/30/1987 | Asset Method Change | 25 | 2,438,462 | 29,802,774 |
| 6/30/1987 | Assumption Change | 25 | 3,116,220 | 38,086,308 |
| 6/30/1987 | Experience Gain | 25 | (6,285,785) | $(76,824,593)$ |
| 6/30/1988 | Assump./Experience Loss | 26 | 1,059,632 | ,3,134,951 |
| 6/30/1989 | Experience Loss | 27 | 3,335,525 | 41,886,926 |

## SCHEDULED AMORTIZATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY

-Continued-

STATE PORTION, Continued

| Date Base Established | Reason | Years Remaining at 7-1-2002 | Amortization Amount | Balance at 7/1/2002 |
| :---: | :---: | :---: | :---: | :---: |
| 6/30/1990 | Experience Gain | 28 | \$ (2,734,888) | \$ $(34,757,496)$ |
| 6/30/1991 | Experience Gain | 29 | $(6,507,574)$ | $(83,621,104)$ |
| 6/30/1992 | Experience Gain | 30 | $(3,390,981)$ | $(44,018,924)$ |
| 7/1/1993 | Experience Gain | 31 | $(5,680,630)$ | $(74,437,051)$ |
| 7/1/1994 | Experience Gain | 32 | $(7,526,461)$ | $(99,483,767)$ |
| 7/1/1995 | Experience Gain | 33 | $(5,441,381)$ | $(72,502,882)$ |
| 7/1/1995 | Subsidized Early Ret. | 33 | 2,450,554 | 32,652,038 |
| 7/1/1995 | Assumption Change | 33 | 8,041,218 | 107,144,015 |
| 7/1/1996 | Experience Gain | 34 | $(2,721,579)$ | $(36,533,490)$ |
| 7/1/1996 | Assumption Change | 35 | 5,124,290 | 68,786,605 |
| 7/1/1997 | Experience Gain | 35 | $(5,687)$ | $(76,866)$ |
| 7/1/1998 | Experience Gain | 35 | $(10,574,011)$ | $(142,920,582)$ |
| 7/1/1999 | Experience Gain | 35 | $(7,660,765)$ | $(103,544,521)$ |
| 7/1/2000 | Experience Gain | 35 | $(665,781)$ | $(8,998,836)$ |
| 7/1/2001 | Experience Loss | 35 | 3,706,926 | 50,103,593 |
| 7/1/2001 | Assumption Change | 35 | 3,345,350 | 45,216,416 |
| 7/1/2002 | Experience Loss | 35 | 17,273,134 | 233,467,356 |
| Total |  |  | \$ 9,600,900 | \$ 61,989,091 |

## SCHEDULED AMORTIZATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY

-Continued-

| Date Base Established | Reason | POLITICAL SUBDIVISION PORTION |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Years Remaining at 7-1-2002 | Amortization Amount | Balance at 7/1/2002 |
| 6/30/1981 | Initial UAL-Combined | 14 | \$ 13,222,723 | \$ 122,184,504 |
| 6/30/1982 | Assumption Change | 20 | 2,808,877 | 31,303,853 |
| 6/30/1982 | Experience Loss | 20 | 1,248,079 | 12,909,353 |
| 6/30/1983 | Experience Gain | 21 | $(195,876)$ | $(2,231,276)$ |
| 6/30/1984 | Experience Loss | 22 | 395,006 | 4,590,451 |
| 6/30/1985 | Experience Gain | 23 | $(3,038,665)$ | $(35,964,504)$ |
| 6/30/1986 | Experience Gain | 24 | $(4,196,179)$ | $(50,503,327)$ |
| 6/30/1987 | Asset Method Change | 25 | 2,941,853 | 35,955,200 |
| 6/30/1987 | Assumption Change | 25 | 3,921,520 | 47,928,650 |
| 6/30/1987 | Experience Gain | 25 | $(1,999,627)$ | $(24,439,348)$ |
| 6/30/1988 | Assump./Experience Gain | 26 | $(1,795,917)$ | $(22,261,772)$ |
| 6/30/1989 | Experience Loss | 27 | 4,547,601 | 57,107,958 |

Continued....

## SCHEDULED AMORTIZATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY

-Continued-

| Date Base Established | Reason | POLITICAL SUBDIVISION PORTION, Continued |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Years Remaining at 7-1-2002 | Amortization Amount | Balance at 7/1/2002 |
| 6/30/1990 | Experience Gain | 28 | \$ (1,402,505) | \$ (17,824,337) |
| 6/30/1991 | Experience Gain | 29 | $(5,988,013)$ | $(76,944,857)$ |
| 6/30/1992 | Experience Gain | 30 | $(2,618,090)$ | $(33,985,895)$ |
| 7/1/1993 | Experience Gain | 31 | $(5,630,704)$ | $(73,782,840)$ |
| 7/1/1994 | Experience Gain | 32 | $(4,860,205)$ | $(64,241,550)$ |
| 7/1/1995 | Experience Gain | 33 | $(8,587,968)$ | $(114,429,118)$ |
| 7/1/1995 | Subsidized Early Ret. | 33 | 2,101,061 | 27,995,277 |
| 7/1/1995 | Assumption Change | 33 | 9,657,141 | 128,675,135 |
| 7/1/1996 | Experience Gain | 34 | $(3,437,988)$ | $(46,150,299)$ |
| 7/1/1996 | Assumption Change | 34 | 6,108,712 | 82,001,143 |
| 7/1/1997 | Experience Gain | 35 | $(3,790,418)$ | $(51,232,093)$ |
| 7/1/1998 | Experience Gain | 35 | $(7,688,907)$ | $(103,924,901)$ |
| 7/1/1999 | Experience Gain | 35 | $(8,682,630)$ | $(117,356,274)$ |
| 7/1/2000 | Experience Gain | 35 | $(2,259,871)$ | $(30,544,895)$ |
| 7/1/2001 | Experience Loss | 35 | 1,079,021 | 14,584,279 |
| 7/1/2001 | Assumption Change | 35 | 3,423,086 | 46,267,152 |
| 7/1/2002 | Experience Loss | 35 | 34,107,566 | 461,005,115 |
| Total |  |  | \$ 19,388,683 | \$ 207,690,784 |


| Valuation Date | State | Political Subdivisions | Total |
| :--- | :--- | :---: | :---: |
| July 1, 1993 | $6.2 \%$ | $6.0 \%$ | $6.1 \%$ |
| July 1, 1994 | $5.6 \%$ | $5.7 \%$ | $5.6 \%$ |
| July 1, 1995* | $6.3 \%$ | $6.0 \%$ | $6.1 \%$ |
| July 1, 1996* | $6.6 \%$ | $6.2 \%$ | $6.4 \%$ |
| July 1, 1997 | $6.6 \%$ | $5.9 \%$ | $6.2 \%$ |
| July 1, 1998 | $5.7 \%$ | $5.5 \%$ | $5.6 \%$ |
| July 1, 1999 | $5.0 \%$ | $5.1 \%$ | $5.1 \%$ |
| July 1, 2000 | $5.0 \%$ | $5.0 \%$ | $5.0 \%$ |
| July 1, 2001* | $5.2 \%$ | $5.0 \%$ | $5.1 \%$ |
| July 1, 2002 | $5.6 \%$ | $6.2 \%$ | $5.9 \%$ |

* Plan changes and/or changes in actuarial assumptions

| Year Ending June 30 | Estimated Annual Rate of Investment Return |  |  |
| :---: | :---: | :---: | :---: |
|  | Actuarial Basis | Market Basis | Actuarial Assumed Interest Rate |
| 1993 | 9.69\% | 1.27\% | 7.50\% |
| 1994 | 9.32\% | 0.91\% | 7.50\% |
| 1995 | 8.61\% | 10.52\% | 7.00\% |
| 1996 | 7.96\% | 5.04\% | 7.25\% |
| 1997 | 8.57\% | 8.25\% | 7.25\% |
| 1998 | 9.34\% | 13.27\% | 7.25\% |
| 1999 | 9.52\% | 10.04\% | 7.25\% |
| 2000 | 8.53\% | 5.80\% | 7.25\% |
| 2001 | 5.77\% | (2.14\%) | 7.25\% |
| 2002 | 3.08\% | (4.85\%) | 7.25\% |

## TEN YEAR HISTORICAL MEMBER INFORMATION

| Active Member Statistics |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Year Ending June 30 | Number | Total Anticipated Annual Payroll | Average Annual Pay | Percentage Increase In Average Pay |
| 1993 | 138,056 | \$2,664,942,832 | \$19,303 | 1.70\% |
| 1994 | 138,788 | 2,736,533,511 | 19,717 | 2.14\% |
| 1995 | 139,931 | 2,833,328,063 | 20,248 | 2.69\% |
| 1996 | 142,336 | 2,921,540,553 | 20,526 | 1.37\% |
| 1997 | 142,011 | 3,056,390,214 | 21,522 | 4.86\% |
| 1998 | 141,383 | 3,110,162,069 | 21,998 | 2.21\% |
| 1999 | 141,441 | 3,250,197,264 | 22,979 | 4.46\% |
| 2000 | 146,613 | 3,482,453,418 | 23,753 | 3.37\% |
| 2001 | 145,019 | 3,587,079,638 | 24,735 | 4.14\% |
| 2002 | 143,234 | 3,851,760,958 | 26,891 | 8.72\% |
| Non-Retired Inactive Vested Member Statistics |  |  |  |  |
| Year Ending June 30 |  | Number | Average Annual Benefit* |  |
| 1993 |  | 5,014 | \$2,893 |  |
| 1994 |  | 5,300 | 3,056 |  |
| 1995 |  | 5,871 | 3,011 |  |
| 1996 |  | 6,083 | 3,113 |  |
| 1997 |  | 5,741 | 3,349 |  |
| 1998 |  | 6,862 | 3,661 |  |
| 1999 |  | 7,979 | 3,611 |  |
| 2000 |  | 8,368 | 3,788 |  |
| 2001 |  | 10,323 | 3,982 |  |
| 2002 |  | 11,572 | 4,531 |  |

Retired Member and Beneficiary Statistics

| Year Ending June 30 | Number | Annual Benefit* | Average Annual Benefit* |
| :---: | :---: | :---: | :---: |
| 1993 | 36,818 | $\$ 130,180,230$ | $\$ 3,536$ |
| 1994 | 38,024 | $140,249,468$ | 3,688 |
| 1995 | 39,610 | $152,231,035$ | 3,843 |
| 1996 | 40,819 | $163,455,987$ | 4,004 |
| 1997 | 42,050 | $176,509,450$ | 4,198 |
| 1998 | 43,517 | $193,350,012$ | 4,443 |
| 1999 | 44,594 | $203,097,160$ | 4,554 |
| 2000 | 45,768 | $216,615,494$ | 4,733 |
| 2001 | 47,203 | $230,791,087$ | 4,889 |
| 2002 | 47,507 | $248,797,563$ | 5,237 |

Disabled Member Statistics

| 1993 | 2,518 | $\$ \quad 7,189,100$ | 2,855 |
| :--- | ---: | ---: | ---: |
| 1994 | 2,666 | $7,843,643$ | 2,942 |
| 1995 | 2,803 | $8,666,154$ | 3,092 |
| 1996 | 2,966 | $9,516,383$ | 3,208 |
| 1997 | 3,101 | $10,363,939$ | 3,342 |
| 1998 | 3,257 | $11,433,222$ | 3,510 |
| 1999 | 3,360 | $11,986,411$ | 3,567 |
| 2000 | 3,537 | $13,230,143$ | 3,740 |
| 2001 | 3,566 | $13,529,137$ | 3,794 |
| 2002 | 3,585 | $14,212,424$ | 3,964 |

*Includes employee annuities

## Portion Of Actuarial Liability Provided for by Assets

| Year Ending June 30 | (In Thousands of Dollars) |  |  | Net Assets <br> Available for Benefits, Actuarial Value |
| :---: | :---: | :---: | :---: | :---: |
|  | Accumulated <br> Employee Contributions | Retired and Disabled | Non-Retired Member Actuarial Liability |  |
| 1993 | \$ 878,179 | \$ 1,249,912 | \$ 2,280,584 | \$ 4,352,349 |
|  | 100\% | 100\% | 97.5\% |  |
| 1994 | 966,872 | 1,342,286 | 2,402,380 | 4,835,817 |
|  | 100\% | 100\% | 100\% |  |
| 1995 | 1,046,516 | 1,561,103 | 2,685,974 | 5,312,016 |
|  | 100\% | 100\% | 100\% |  |
| 1996 | 1,140,426 | 1,751,629 | 2,926,879 | 5,776,621 |
|  | 100\% | 100\% | 98.6\% |  |
| 1997 | 1,264,456 | 1,893,179 | 3,126,230 | 6,304,948 |
|  | 100\% | 100\% | 100\% |  |
| 1998 | 1,288,353 | 2,074,561 | 3,267,237 | 6,914,957 |
|  | 100\% | 100\% | 100\% |  |
| 1999 | 1,428,913 | 2,158,640 | 3,488,428 | 7,595,266 |
|  | 100\% | 100\% | 100\% |  |
| 2000 | 1,647,902 | 2,303,679 | 3,748,305 | 8,267,657 |
|  | 100\% | 100\% | 100\% |  |
| 2001 | 1,728,972 | 2,426,062 | 4,150,638 | 8,723,304 |
|  | 100\% | 100\% | 100\% |  |
| 2002 | 1,886,124 | 2,582,149 | 4,597,859 | 8,994,854 |
|  | 100\% | 100\% | 98.4\% |  |

## TEN YEAR HISTORICAL FUNDING INFORMATION

-Continued-
Portion of Present Value of Accumulated Vested and Total Accumulated Benefits Provided for by Assets
(In Thousands of Dollars)

| Year Ending June 30 | Accumulated <br> Employee <br> Contributions | Retired and Disabled | Non-Retired Accumulated Vested Benefits | Non-Retired Total Accumulated Benefits | Net Assets <br> Available for Benefits, $\qquad$ Actuarial Value |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1993 | \$ 878,179 | \$ 1,249,912 | \$ 782,738 | \$1,018,084 | \$4,352,349 |
|  | 100\% | 100\% | 100\% | 100\% |  |
| 1994 | 966,872 | 1,342,286 | 841,089 | 1,094,104 | 4,835,817 |
|  | 100\% | 100\% | 100\% | 100\% |  |
| 1995 | 1,046,516 | 1,658,027 | 1,289,703 | 1,604,165 | 5,312,016 |
|  | 100\% | 100\% | 100\% | 100\% |  |
| 1996 | 1,140,426 | 1,751,629 | 1,307,888 | 1,639,205 | 5,776,621 |
|  | 100\% | 100\% | 100\% | 100\% |  |
| 1997 | 1,264,456 | 1,893,179 | 1,405,101 | 1,747,693 | 6,304,948 |
|  | 100\% | 100\% | 100\% | 100\% |  |
| 1998 | 1,288,353 | 2,074,561 | 1,511,289 | 1,859,857 | 6,914,957 |
|  | 100\% | 100\% | 100\% | 100\% |  |
| 1999 | 1,428,913 | 2,158,640 | 1,639,166 | 2,005,646 | 7,595,266 |
|  | 100\% | 100\% | 100\% | 100\% |  |
| 2000 | 1,647,901 | 2,303,679 | 1,785,795 | 2,168,889 | 8,267,657 |
|  | 100\% | 100\% | 100\% | 100\% |  |
| 2001 | 1,728,972 | 2,426,062 | 1,950,425 | 2,249,293 | 8,723,304 |
|  | 100\% | 100\% | 100\% | 100\% |  |
| 2002 | 1,886,124 | 2,582,149 | 2,327,868 | 2,646,870 | 8,994,854 |
|  | 100\% | 100\% | 100\% | 100\% |  |

# ACTUARIAL METHODS 

## ACTUARIAL COST METHOD

ASSET VALUATION METHOD

Entry Age Normal Cost

75\% of Expected
Actuarial Value Plus
25\% of Market Value

## Entry Age Normal Cost

The normal cost is calculated separately for each active member and is equal to the level percentage of payroll needed as an annual contribution from entry age to retirement age to fund projected benefits. The unfunded actuarial accrued liability on any valuation date is the accumulated value of such normal costs from entry age to the valuation date less the actuarial value of assets.

The effect of this valuation method is to amortize all actuarial gains and losses, resulting from experience different from that anticipated in our assumptions, over a 40-year period (30-year period is being phased in commencing July 1, 1998). The purpose of the method is to give a smooth progression of the costs from year to year and, at the same time, provide for an orderly funding of the unfunded liabilities.

Interest
Future Salary Increases
Cost of Living Increases

Mortality
Disability
Termination

Retirement
Spouse's Benefit

Administrative Expense
$7.25 \%$ net of administrative expenses
Based on PERF experience 1995-2000.
An increase of $2.0 \%$ (compounded) is assumed to be applied to the pension benefit each year following retirement. No increase is assumed to be applied to the PERF annuity benefit.

UP-1994. Pre-retirement mortality based on PERF experience 1995-2000.
Based on PERF experience 1995-2000.
Select and ultimate tables based on PERF experience 1995-2000. Separate tables are used for state employees and political subdivision employees.

Based on PERF experience 1995-2000.
$90 \%$ of members are assumed either to be married or to have a dependent beneficiary. Males are assumed to be 3 years older than their spouses.

Netted against investment earnings

## PARTICIPATION

## ELIGIBILITY FOR ANNUITY BENEFITS:

Normal Retirement

Early Retirement
Late Retirement
Disability Retirement

Termination

Pre-Retirement Death

All full time employees of the State of Indiana and all full time employees of political subdivisions which have adopted the plan must become members of PERF upon date of hire.

Earliest of:
(1) Age 65 with 10 years of creditable service;
(2) Age 60 with 15 years of creditable service;
(3) Sum of age and creditable service equal to 85 (but not earlier than age 55).

Age 50 with 15 years of creditable service
Subject to continued employment after normal retirement
5 years of creditable service and qualified for Social Security disability benefits or federal Civil Service disability benefits.

10 years of creditable service and election not to take lump sum payment of employee account balance with interest.

If death occurs in service, 15 years of creditable service. If death occurs after separating from service, age 50 with 15 years of creditable service.

## AMOUNT OF BENEFITS:

| Normal Retirement | The normal retirement benefit is an annuity payable for life with 60 months guaranteed and is <br> equal to $1.1 \%$ of average monthly earnings* times years and months of creditable service <br> earned. |
| :--- | :--- |
| Early Retirement | The early retirement benefit is the accrued retirement benefit determined as of the early <br> retirement date and payable commencing at the normal retirement date. A member may elect <br> to have the benefit commence prior to normal retirement provided the benefit is reduced by <br> $1 / 10 \%$ for each of the first 60 months and by $5 / 12 \%$ for each of the next 120 months that the <br> benefit commencement date precedes the normal retirement date. |
| Late Retirement | The late retirement benefit is calculated in the same manner as the normal retirement benefit. <br> Creditable service and earnings earned after normal retirement is included in the <br> computation. |
| Disability Retirement | The disability retirement benefit is the accrued retirement benefit determined as of the <br> disability date and payable commencing the month following disability date without <br> reduction for early commencement. |
| Termination | The termination benefit is the accrued retirement benefit determined as of the termination <br> date and payable commencing at 65 . If the member has 15 or more years of creditable |
| service, then the member may elect to receive a reduced early retirement benefit. |  |

*Average monthly earnings is the monthly average of earnings during the 20 quarters (in groups of 4 consecutive quarters) preceding retirement that produce the highest such average. Earnings include basic salary, the member's $3 \%$ mandatory contribution paid by the employer, the member's salary reduction agreement under Section 125, 403(b) or 457 of the Internal Revenue Code, and up to $\$ 2,000$ of additional compensation received from the employer in anticipation of the member's termination or retirement.

## AMOUNT OF BENEFITS:

Pre-Retirement Death

Employee Contributions

The spouse or dependent beneficiary is entitled to receive the monthly life annuity under the assumption that the member retired on the later of age 50 or the day before the date of death and elected the joint and full survivor option.

Each member is required to contribute to an employee annuity at the rate of $3 \%$ of pay (unless the employer has opted to make all or a portion of the contribution for the employee). These contributions are kept on deposit and credited with interest until such time as they are refunded or used to provide the annuity benefit at retirement.

The benefits provided by employee contributions are in addition to the benefits provided by employer contributions. The monthly annuity provided at a normal retirement age of 65 is equal to $\$ 1.00$ for each $\$ 108.79$ of accumulated employee contributions plus interest.

