## HOUSTON MUNICIPAL EMPLOYEES PENSION SYSTEM

Comprehensiye Amual Financial Report for the Year Ended June 30, 2005 आजा

A Component Unit of the City of Houston, Texas



HOUSTON MUNICIPAL EMPLOYEES PENSION SYSTEM
COMPREHENSIVE ANNUAL FINANCIAL REPORT
FOR THE FISCAL YEAR ENDED JUNE 30, 2005
A COMPONENT UNIT OF THE CITY OF HOUSTON, TEXAS
PREPARED BY THE PENSION ADMINISTRATION STAFF DAVID L. LONG, EXECUTIVE DIRECTOR

HOUSTON MUNICIPAL EMPLOYEES PENSION SYSTEM
1111 BAGBY, SUITE 2450, HOUSTON, TEXAS 77002-2555
(713) 595-0100
www.hmeps.org


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Board of Trustees

Elected and Appointed Trustees
Fred Holmes, Chairman
Ray Kennedy, Vice Chairman
Roderick J. Newman, Secretary
Shiou-Huey "Sophia" Chang, CPA, Trustee
Sherry Mose, Trustee
Lee Pipes, Trustee
Barbara Chelette, Appointed Trustee

## Trustees by D esignation

Philip B. Scheps, Treasurer
Lonnie G. Vara, Mayor's Representative

David L. Long, Executive Director

## Administrative O rganization

Budget and Oversight Committee
Disability Committee
External Affairs Committee
Investment Committee
Personnel and Procedures Committee

## Executive D irector <br> Chief Investment Officer

Investment Managers' Services
Performance Measurement
Market Research
Benefit Administration
Benefit Administration Services
Member Services

## Information Systems

## G eneral C ounsel

## Communications

## Accounting

* Information pertaining to investment-related professionals is located on page 7 .


Ray Kennedy
Vice Chairman


Roderick J. Newman Secretary


Sophia Chang
Elected Trustee


Sherry Mose
Elected Trustee


Lee Pipes
Elected Trustee


Barbara Chelette
Appointed Trustee


Philip B. Scheps
City Treasurer


Lonnie G.Vara
Mayor's Representative


David L. Long
Executive Director



Board of Trustees

Elected and Appointed Trustees

Fred Holmes, Chairman
Ray Kennedy, Vice Chairman
Roderick J. Newman, Secretary
Shiou-Huey "Sophia" Chang, CPA
Sherry Mose
Lee Pipes
Barbara Chelette, Appointed

City Appointed Trustees
Richard Badger
Gilbert Garcia
Alfred Jackson

David L. Long,
Executive Director

IIII BAGBY
SUITE 2450
HOUSTON, TEXAS 77002-2555
(7 | 3) 595-0100
FAX (713) 650-I96|

N ovember 17, 2005

## Judy Gray Johnson

City of H ouston, Texas
P.O. Box 1562

H ouston, Texas 77251

## D ear M S. Johnson:

We are pleased to present the Comprehensive Annual Financial Report (CAFR) of the Houston Municipal Employees Pension System (the System), a Component Unit of the City of Houston, Texas (the City) for the fiscal year ended June 30, 2005 (2005). The accuracy, fairness of presentation and completeness of this report are the responsibility of the Board of Trustees (the Board) of the System. To the best of our knowledge and belief, the enclosed data is accurate in all material respects and is reported in a manner designed to present fairly the financial position and results of operations of the System. The System's basic financial statements will be included in the annual financial report of the City.

## Report C ontents

The CAFR consists of five sections: (i) the introductory section, which contains this transmittal letter and other general information about the structure and activities of the System; (ii) the financial section, which contains the independent auditors' report and the basic financial statements, including notes to the basic financial statements and supplemental schedules, and management's discussion and analysis (MD \& A); (iii) the investment section, which includes reports on the investment objectives and activities of the System during 2005; (iv) the actuarial section, which contains information about the actuarial valuation of the System as of July 1, 2004, the funding objectives of the System and the progress being made toward achieving those objectives; and (v) the statistical section, which contains statistical and other significant data intended to provide a user of this CAFR additional information regarding the System and its participants.

## Accounting System and Internal C ontrols

The financial statements have been prepared in accordance with generally accepted accounting principles and presented in accordance with the Governmental Accounting Standards Board (GASB).

The System's independent auditors have audited the financial statements and issued an unqualified opinion as of June 30, 2005 and 2004. The purpose of the audit is to give reasonable assurance to users of those financial statements, the Board, and participants of the System, that the financial statements present fairly, in all material respects, information regarding the System's net assets held in trust for pension benefits and in conformity with accounting principles generally accepted in the United States of America.

A significant responsibility of the Board is to ensure that the System has in place an adequate system of internal controls. A system of internal controls is an entity's plan of organization and all of its
coordinated methods and measures adopted to safeguard its assets, ensure the accuracy and reliability of the accounting system and promote adherence to management policies. These controls include strategic design of the entity's business systems, the appropriate segregation of duties and responsibilities, sound practices in the performance of those duties, capable personnel, and the organizational structure itself. We believe the System's internal controls are adequate and are working as designed.

## Financial Information

The MD \& A that immediately follows the independent auditors' report provides condensed financial information and activities of the current and prior fiscal years of the System. It provides a narrative introduction, overview, and analysis of the basic financial statements. The MD \& A complements this letter of transmittal and should be read in conjunction with it.

## Plan History and Profile

The System was created in 1943 under Chapter 358, Acts of the 48th Texas Legislature, Regular Session, Article 6243g, Vernon's Annotated Revised Texas Civil Statutes, and reenacted and continued under HB1573, 77th Texas Legislature, as Article 6243h, Vernon's Annotated Revised Texas Civil Statutes (the Statute). The System is a multiple-employer defined benefit pension plan and includes a contributory group (Group A) and a noncontributory group (Group B). The System provides service retirement, disability retirement and death benefits for eligible participants which covers all municipal employees, except police officers and fire fighters (other than certain police officers in the System as authorized by the Statute), employed full-time by the City, elected City officials, and the full-time employees of the System (collectively referred to as "participants"). System plan net assets are used to pay benefits for eligible participants of Group A and Group B. The System is administered by an eleven-member Board of Trustees. The Trustees include four elected trustees who are members of the System, two elected trustees who are retirees of the System, a trustee appointed by the elected trustees, the mayor's appointee, the controller's appointee, and two city council appointees.

## Budget

The costs of administering the System consisting of operating administrative expenses and capitalized items are paid by the System from current earnings pursuant to an annual fiscal budget adopted by the Board.

## General Economic Conditions

## U.S. Economy

Over the first six months of 2005 , the U.S. economy continued to grow at a consistent pace, made evident by the fact that the International Monetary Fund expects U.S. growth to reach 3.5 percent in 2005. This marks the 14 th consecutive quarter that the U.S. real gross domestic product (GDP) growth has been positive. Employment rates in the U.S. have been stable, with 411,000 non-farm payroll jobs being created in July and August.

One consequence of this growth was that the Federal Reserve Board (the FED) increased key interest rates to $4.0 \%$ during the fourth quarter of 2005. The FED raised interest rates 12 times since mid-2004. The strength of the economy also caused inflation to rise, a factor the FED is saying will be a big threat to the U.S. economy in the months ahead.

Hurricanes Katrina and Rita have had (and continue to have) adverse effects on the economy. While estimates vary, the costs of recovery efforts following these hurricanes could amount to almost $\$ 200$ billion, and might subtract 0.5 to 1 percentage point off U.S. economic growth in the second half of 2005. The rising cost of oil is another factor having an adverse effect on the economy. The FED will likely continue to raise interest rates as high oil prices are putting pressure on inflation.

Household spending this year has been supported by rising employment and household wealth as well as by the low level of interest rates. However, higher costs for consumer energy products have eroded households' purchasing power.

Notwithstanding expectations for moderation in growth, the economy continues to roll along at a healthy pace fueled by the massive infusion of monetary supply and tax cuts that occurred a few years ago. Low interest rates have supported strong housing appreciation and home refinancing which in turn have spurred brisk and consistent increases in consumer spending and a strong economy. Consistent consumer spending in the face of rising energy costs coupled with steady job creation have resulted in rising personal income that has been deployed in personal consumption to support economic growth rather than rising rates of personal savings.

In the past sixteen months, the U.S. yield curve has gone from the steepest ever to relatively flat as the FED has aggressively embarked on a program to slow economic growth and contain inflation. At the current time, the relative flatness of the yield curve appears to be overestimating a potential slowdown in the economy.

Into 2006, rising interest rates and resilient oil prices may lead to a more subdued business climate with the potential slowing of consumer spending and housing markets resulting in some moderation in GDP growth rates. To date in 2005, the economy continues to defy expectations with 3rd quarter GDP growth of $3.8 \%$ in spite of two major hurricanes. It is anticipated that the lagging effect of the prior eleven FED Interest rate increases, moderation in housing price appreciation, an overleveraged consumer and steep energy cost increases will ultimately slow consumer spending, and moderate the rate of economic growth. Finally, according to the FED, high energy prices and hurricane-related damage have "temporarily depressed output and employment," but planned rebuilding will almost certainly aid the economy's solid underlying growth.

## Global Economy

In contrast to the U.S., economic activities in European sector remained very moderate. Continued weak development of domestic demand, the strong rise of crude oil prices, and the strength of the Euro against the U.S. dollar in the prior year, which dampens the activities of the European exporting industries, are the main reasons for this poor economic development. According to the Office of Economic Development (OECD), the GDP of the European sector is expected to grow by only $1.9 \%$ in 2005. Japan, the world's second-largest economy, is expected to expand just 0.8 percent this year and 1.9 percent in 2006.

The pace of expansion in the industrial economies has generally increased. With the important exception of China, this increase has been offset by moderating growth in many developing economies. Inflation has remained well contained in most countries.

After having edged up during the first three months of this year, long-term interest rates in the major foreign industrial economies have fallen and now stand below their levels at the start of the year. As in the U.S., the decline in foreign long-term interest rates continues a trend that began in mid-2004. However, long-term rates in the major foreign industrial economies have fallen more than rates in the U.S. this year. The decline in European long-term rates occurred amid weak economic news and a shift away from market expectations of a policy rate increase.

## Certificate of Achievement for Excellence in Financial Reporting

The Government Finance Officers Association (GFOA) of the United States and Canada awarded its "Certificate of Achievement for Excellence in Financial Reporting" to the System for its Comprehensive Annual Financial Report for the fiscal year ended June 30, 2004. The Certificate of Achievement is the highest form of recognition in the area of governmental
accounting and financial reporting, and its attainment represents a significant accomplishment by a governmental entity and its management. The award and a detailed description thereof are displayed on page 6 in the Introductory Section of this CAFR.

## Acknowledgement

This CAFR was prepared through the combined efforts of the System staff and subject to the scrutiny of the Board. It is intended to provide information to its user that may be a basis for a general understanding of the System.

This CAFR is being forwarded to the City of Houston, the Texas State Pension Review Board, the GFOA, and other interested parties who may from time to time request it.

Sincerely,


Fred Holmes
Chairman


David L. Long
Executive Director

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a "Certificate of Achievement for Excellence in Financial Reporting" to Houston Municipal Employees Pension System for its comprehensive annual financial report for the fiscal year ended June 30, 2004. The Certificate of Achievement is a prestigious national award recognizing conformance with the highest standards for preparation of state and local government financial reports.

In order to be awarded a Certificate of Achievement, a government unit must publish an easily readable and efficiently organized comprehensive annual financial report, the contents of which conform to program standards. Such CAFR must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. Houston Municipal Employees Pension System has received a Certificate of Achievement for the last 11 consecutive years (fiscal years ended June 30, 1994 through 2004). We believe our current report continues to conform to the Certificate of Achievement program requirements, and we are submitting it to the GFOA for consideration.

# Certificate of Achievement for Excellence in Financial Reporting 

Presented to
Houston Municipal Employees Pension System, Texas
For its Comprehensive Annual
Financial Report for the Fiscal Year Ended

June 30, 2004
A Certificatc of Achievement for Excellence in Financial Reporting is presented by the Government Finance Officers Association of the United States and Canada to government units and public employec retirement systems whose comprehensive annual financial reports (CAFRs) achieve the highest standards in government accounting and financial reporting.


Consultants (Fiscal Year 2005)

Auditor
Mir, Fox \& Rodriguez, P.C., Certified Public Accountants

## Board Medical Advisor

Charles Schuhmacher, M.D.

Investment C onsultants
Wilshire Associates, Inc.
Pension Consulting Alliance, Inc.

## M aster C ustodian/Trustee

State Street Bank and Trust Co.

## Actuary

Gabriel, Roeder, Smith \& Company

Investment Performance Analysis
Wilshire Associates, Inc.

## Legal Counsel

Baker Botts, L.L.P.
Cohen, Milstein, Hausfeld \& Toll, P.L.L.C.
E. Troy Blakeney Jr., P.C.

Hinton, Sussman, Bailey \& Davidson, L.L.P.
Locke, Liddell \& Sapp, L.L.P.
Schlanger, Mills, Mayer \& Silver

## G overnmental Representation

HillCo Partners, Inc.

## D atabase Services

Pension Benefits Information

## C onsulting Services

Vollmer Public Relations

Investment Managers (Fiscal Year 2005)

## D omestic Equities

Barclays Global Investors, N.A.
Benchmark Plus Partners, L.L.C.
Brown Capital Management
DePrince, Race \& Zollo, Inc.
Frank Russell Securities
Legg Mason Capital Management
Neumeier Investment Counsel
Pacific Investment Management Co.

## International Equities

Axiom International
Barclays Global Investors, N.A.
Brandes Investment Partners
Oechsle International Advisors
TT International Investment Management

## Fixed Income

Barclays Global Investors, N.A.
GoldenTree Asset Management
Loomis, Sayles \& Co.
MDL Capital Management
Smith Graham \& Co.
Western Asset Management

## Real Assets

Alliance Capital Management L.P.
CB Richard Ellis Investors
Crow Holdings
Fortress Investment Group, L.L.C.
Global Forest Partners, L.P.

Goldman, Sachs \& Co.
Grove International Partners
L\&B Realty Advisors, Inc.
Lone Star U.S. Acquisitions, L.L.C.
Morgan Stanley Asset Management, Inc.
Olympus Real Estate Corp.
Prudential Investments
RREEF
State Street Research \& Management Co.

## Alternative Investments

Adams Street Partners
Barclays Global Investors, N.A.
Brera Capital Partners, L.L.C.
Brockway Moran \& Partners, Inc.
Goldman, Sachs \& Co.
HarbourVest Partners, L.L.C.
J.W. Childs Associates, L.P.

Kopp Investment Advisors
Matlin Patterson Global Advisors
Oaktree Capital Management
Pacven Walden Management Co., LTD.
Pegasus Investors, L.P.
Pharos Capital Partners, L.L.C.
Platinum Equity Capital Partners
Sun Capital Partners, Inc.
The Carlyle Group
The Jordan Company
TSG Capital Group, L.L.C.
Whippoorwill Associates, Inc.


INTRODUCTIONTO FINANCIAL STATEMENTS INDEPENDENT AUDITORS' REPORT

MANAGEMENT'S DISCUSSION AND ANALYSIS STATEMENTS OF PLAN NET ASSETS JUNE 30, 2005 AND 2004 STATEMENTS OF CHANGES IN PLAN NET ASSETS YEARS ENDED JUNE 30, 2005 AND 2004 NOTES TO BASIC FINANCIAL STATEMENTS JUNE 30, 2005 AND 2004

The Audited Financial Statements and the accompanying Independent Auditors' Report included in this CAFR were approved by the System's Board of Trustees (the Board) in its meeting of September 29, 2005.

The audit of the System's financial statements was conducted in accordance with generally accepted auditing standards (GAAS). The Independent Auditors' Report is based on that audit, and it is intended to give reasonable assurance to users of the System's financial statements that those financial statements are free of material misstatement when taken as a whole and that they present fairly the financial position and results of operations of the System at the times and for the periods reported. The audit gives reasonable assurance to the Board and members of the System that the System's assets are adequately safeguarded and that its financial transactions are properly authorized and recorded.

The financial statements provide a comprehensive overview of the financial position of the System as of June 30, 2005 and June 30,2004 and the results of its operation for the years then ended. The financial statements are presented in conformity with accounting and reporting standards of the Governmental Accounting Standards Board (GASB).

The System is responsible for the accuracy of its financial statements and the completeness and fairness of their presentation. The auditors are responsible for issuing an opinion on those financial statements when taken as a whole.

The financial statements consist of Statements of Plan Net Assets, Statements of Changes in Plan Net Assets, Notes to the Basic Financial Statements, and Supplemental Schedules.

The Statements of Plan Net Assets present the financial position of the System as of the end of the fiscal years reported. They are statements of the System's assets, liabilities, and net assets held in trust for pension benefits.

The Statements of Changes in Plan Net Assets include additions to the System's assets and deductions from them and the increase or decrease in plan net assets. Additions consist of contributions, investment income, and other income. Deductions are benefit payments, fees for professional services and costs of administering the programs of the System. The net of additions and deductions represents the change, for the years presented, in net assets held in trust for pension benefits.

Notes to the basic financial statements contain disclosures required by generally accepted accounting principles and GASB reporting standards. Required disclosures include a summary description of the pension plan, significant accounting policies, information about the System's funding status and progress toward achieving its funding objectives, information about the System's investments and investing activities, and information about the System's commitments.

Supplemental Schedules provide information required by GASB and additional detailed analyses of certain amounts summarized in the basic financial statements.

# Mir o Fox <br> Rodriguez, P.C. 

Certified Public Accountants
Member of the American Institute of Certified Public Accountants

## INDEPENDENT AUDITORS' - REPORT

Board of Trustees<br>Houston Municipal Employees Pension System:

We have audited the accompanying statements of plan net assets of the Houston Municipal Employees Pension System (the System) as of June 30, 2005 and 2004, and the related statements of changes in plan net assets for the years then ended. These basic financial statements and the schedules referred to below are the responsibility of the System's management. Our responsibility is to express an opinion on these basic financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the basic financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the basic financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall basic financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the basic financial statements referred to above present fairly, in all material respects, the financial status of the System as of June 30, 2005 and 2004, and the changes in its financial status for the years then ended, in conformity with accounting principles generally accepted in the United States of America.

Management's discussion and analysis (MD\&A) and the required supplemental information (schedules 1 and 2) are not a required part of the basic financial statements but is supplementary information required by the Governmental Accounting Standards Board. We have applied certain limited procedures, which consisted principally of inquiries of management regarding the methods of measurement and presentation of the MD\&A and required supplemental information. However, we did not audit the information and express no opinion on it.

Our audit was conducted for the purpose of forming an opinion on the basic financial statements taken as a whole. The other supplemental information (schedules 3, 4, and 5) are presented for purposes of additional analysis and are not a required part of the System's basic financial statements. This information has been subjected to the auditing procedures applied in our audits of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

September 21, 2005


One Riverway, Suite 1900
Houston, TX 77056
Off. (713) 622-1120
Fax (713) 961-0625

## M anagement's D iscussion and Analysis

The Board of Trustees (the Board) of the Houston Municipal Employees Pension System (the System) is pleased to provide this overview and analysis of the financial performance and activities of the System for the fiscal years ended June 30, 2005 and 2004. We encourage the readers to consider the information presented here in conjunction with the basic financial statements.

## OVERVIEW OF THE FINANCIAL STATEMENTS

The discussion and analysis is intended to serve as an introduction to the System's financial statements. The financial section consists of (1) System's Basic Financial Statements, (2) Notes to Basic Financial Statements, and (3) Supplemental Information.

## System's Basic Financial Statements

There are two basic financial statements presented herewith. The Statements of Plan Net Assets as of June 30, 2005 and 2004 indicate the net assets available to pay future payments and give a snapshot at a particular point in time. The Statements of Changes in Plan Net Assets for the fiscal years ended June 30, 2005 and 2004 provide a view of the fiscal year's additions to and deductions from the System.

## Notes to Basic Financial Statements

The notes are an integral part of the basic financial statements and provide additional background information that is essential for a complete understanding of the data provided in the System's financial statements. The notes to the basic financial statements can be found on pages 19 to 31 of this report.

## Supplemental Information

The required supplemental information consists of:
Schedule 1 - Schedule of Funding Progress - this provides historical trend information that contributes to the understanding of the changes in the funded status of the System over time. These are calculations made by the System's actuary and they provide actuarial information that contributes to the understanding of the changes in the actuarial funding of and the funded status of the System over a number of years. It should be noted though that actuarial information is based upon assumptions about future events, and therefore, the figures presented are estimates.

Schedule 2 - Schedule of Employer Contributions - this provides historical trend information of required annual employer contributions and the contributions actually made in relation to this requirement over time.

The other supplemental information consists of:
Schedule 3 - Investment Summary - this lists the System's investments by type presented both at cost and fair market value.
Schedule 4 - Investment Services, Professional Services, and Administration Expenses - this provides more information for purposes of more detailed analysis.
Schedule 5 - Summary of Costs of Investment and Professional Services - this provides more information for purposes of more detailed analysis.

## FIN AN CIAL HIGH LIGHTS (In Thousands of Dollars, Unless Otherwise Noted)

- The System received $\$ 23,488$ and $\$ 26,189$ during fiscal year 2005 and 2004, respectively, in employee contributions from about 12,000 active participants, of which over 8,000 belong to Group A. These contributions represent $5 \%$ of the employee's qualifying base salary beginning January 2005 and $4 \%$ for fiscal year 2004 and fiscal year 2005 through December 31, 2004. Total employee contributions decreased by $\$ 2,701$ or $10 \%$ in fiscal year 2005 compared to fiscal year 2004. This decline is attributable to a forty-five percent decline in employees' contributions coming from service purchase and transfers from Section 457 deferred compensation plan totaling \$5,741 and \$10,488 for fiscal years 2005 and 2004, respectively.
The City's contribution during fiscal year 2005 represents the budgeted contributions and the net proceeds to be received through the issuance of pension obligation bonds as set forth in the Meet and Confer Agreement between the System and


## COMPARATIVE FINANCIAL STATEMENTS

Below is a condensed and comparative summary of major classes of Plan Net Assets at fair value. (In Thousands of dollars)

| Assets | Balance June 30, 2005 | Balance June 30, 2004 | Balance June 30, 2003 |
| :---: | :---: | :---: | :---: |
| Cash and equivalents | \$ 875 | 2,691 | 7,153 |
| Proceeds due on asset sales | 54,781 | 7,496 | 6,290 |
| Receivables | 31,161 | 18,310 | 21,457 |
| Note receivable - City of Houston | 300,000 |  |  |
| Investments | 1,486,295 | 1,438,005 | I,286,58I |
| Collateral on securities lending | 95,636 | 109,440 | 84,300 |
| Furniture, fixtures and equipment, net | 828 | 796 | 737 |
| Total assets | 1,969,576 | 1,576,738 | 1,406,518 |
| Liabilities |  |  |  |
| Amounts due on asset purchases | 34,247 | 45,570 | 53,716 |
| Accrued liabilities | 14,842 | 3,003 | 2,312 |
| Collateral on securities lending | 95,636 | 109,440 | 84,300 |
| Total liabilities | 144,725 | 158,013 | 140,328 |
| Plan net assets | \$ I,824,85 I | 1,418,725 | 1,266, 190 |

Below is a comparative summary of Statements of Changes in Plan Net Assets available for pension benefits. (In Thousands of Dollars)

| Additions | Fiscal Year 2005 | Fiscal Year 2004 | Fiscal Year 2003 |
| :---: | :---: | :---: | :---: |
| Contributions | \$ 386,735 | 83,497 | 64,384 |
| Investment and interest income, net | 200,782 | 227,360 | 33,931 |
| Other income | 888 | 726 | 113 |
| Total additions | 588,405 | 311,583 | 98,428 |
| Deductions |  |  |  |
| Benefits paid | 175,480 | 153,202 | 98,789 |
| Contribution refunds | 992 | 635 | 475 |
| Administration expenses and professional fees | 5,807 | 5,211 | 4,665 |
| Total deductions | 182,279 | 159,048 | 103,929 |
| Net increase (decrease) in plan net assets | 406, I26 | 152,535 | $(5,501)$ |
| Plan net assets, prior year | 1,418,725 | 1,266,190 | 1,271,691 |
| Plan net assets, current year | \$ 1,824,85 | 1,418,725 | 1,266,190 |

the City of Houston dated September 15, 2004. During fiscal year 2005, the System received cash contributions from the City of Houston of $\$ 63,247$ and recognized a $\$ 300$ million contribution in the form of a note receivable issued by the City on November 10, 2004 (see note 4). The City's contribution during fiscal year 2004 represents a contribution rate of $14.7 \%$.

- The net investment and interest income of the System was $\$ 200,782$ during fiscal year 2005 compared to $\$ 227,360$ during fiscal year 2004, which is a decrease of $\$ 26,578$ or a $12 \%$ drop mainly as a result of change in unrealized gain on investments. The investment and interest income of the System consists of:

|  | Fiscal <br> Year <br> 2005 | Fiscal <br> Year <br> 2004 | Change |
| :---: | :---: | :---: | :---: |
| Interest | \$ 27,464 * | 9,514 | 17,950 |
| Dividends | 9,891 | 15,134 | $(5,243)$ |
| Earnings from limited partnerships and real estate trusts | 45,069 | 19,464 | 25,605 |
| Realized gain on investments | 91,474 | 98,430 | $(6,956)$ |
| Change in unrealized gain on investments | 32,528 | 91,034 | $(58,506)$ |
| Net proceeds from lending securities | 352 | 352 |  |
| Less cost of investment services | $(5,996)$ | $(6,568)$ | 572 |
| Net investment and interest income | \$ 200,782 | 227,360 | $(26,578)$ |

* The interest income in fiscal year 2005 includes $\$ 16.4$ million of accrued interest on the $\$ 300$ million note from the City (see note 4).
- Earnings from limited partnerships and real estate trusts increased almost one and a half times from $\$ 19,464$ to $\$ 45,069$ resulting from the maturity of the alternative investment portfolio as more investment distributions were realized.
- Benefit payments grew by $15 \%$ to $\$ 175,480$ during fiscal year 2005 compared to $\$ 153,202$ during fiscal year 2004. Normal retirement pension benefits amounted to $\$ 103,293$ ( $30 \%$ increase from fiscal year 2004) which accounted for $59 \%$ of the total benefit payments for fiscal year 2005. There are 8,048 participants receiving benefits for the fiscal year ended 2005 compared to 7,436 participants in 2004 . These numbers represent an increase of $8 \%$ and $20 \%$ for the fiscal years 2005 and 2004, respectively.
- Distributions to DROP (Deferred Retirement Option Plan) participants amounted to \$56,492 or 32\% of the total benefit payments during fiscal year 2005 compared to $39 \%$ of the total during fiscal year 2004. The amount of DROP distributions decreased slightly by $7 \%$ in fiscal year 2005. The number of DROP participants dropped to 414 in 2005 compared to 476 in 2004 or a $13 \%$ drop.
- Benefit payments exceeded total employee plus employer cash contributions by $\$ 88,745$ during fiscal year 2005 and by \$69,705 during fiscal year 2004.
- Costs of administering the benefit programs of the System, including professional fees, were $\$ 5,807$ and $\$ 5,211$ for fiscal years 2005 and 2004, respectively, for over 22,000 participants.
- Net assets increased by $\$ 406,126$ during fiscal year 2005 compared to an increase of $\$ 152,535$ in 2004 primarily due to the $\$ 300$ million note from the City that was recognized as contributions during fiscal year 2005 and the net investment and interest income of \$200,782 earned during fiscal year 2005.

The System capitalizes expenditures for furniture, fixtures and equipment in accordance with Governmental Accounting Standards Board Statement No. 34, Basic Financial Statements - and Management's Discussion and Analysis - for State and Local Governments, as amended. Furniture, fixtures and equipment, net of accumulated depreciation, as of fiscal year end 2005 and 2004 is $\$ 828$ and $\$ 796$, respectively.

Total investments were $\$ 1.49$ billion (excluding the Note receivable) at the close of fiscal year 2005 and $\$ 1.44$ billion in 2004 providing an investment return of $13.9 \%$ during the current fiscal year. The performance of our investment classes are as follows based on investment amounts as of June 30, 2005.

## PERFORMANCE OF INVESTMENT CLASSES



## SYSTEM ASSET ALLOCATION



The year ending June 30, 2005 provided a range of opportunities to earn meaningful investment returns in many world equity markets. While the S\&P 500 returned $6.3 \%$ and the Lehman Aggregate bond index returned $6.8 \%$, international markets as reflected by MSCI EAFE returned $13.7 \%$ for the year. U.S. value stocks continued to outperform growth stocks by a significant margin and small cap stocks returned $10.7 \%$ as measured by the Wilshire Small Cap 1750. Real estate, energy and private equity had strong returns, well into the double digits.

Throughout fiscal year 2005, the System maintained its existing target asset allocation mix of $30 \%$ domestic equities, $20 \%$ international equities, $20 \%$ fixed-income, $15 \%$ real estate and $15 \%$ alternative investments. However, due to movements in the markets and rebalancing activities directed by Staff, the System continued to maintain a slight underweight to fixed income and alternative investments, with a slight overweight to U.S. equities, international equities and real estate.

The System's investment performance was $13.9 \%, 11.8 \%$ and $4.5 \%$ for the past one, three and five-year periods. These results are consistently above the System's policy benchmark, and also well above the median fund in a universe of the System's public fund peers. The System ranks in the top 4th, 7th and 29th percentiles, respectively, for the one, three and five-year periods ended June 30, 2005. The best performing asset classes for the past year were real assets ( $+30.0 \%$ ) and alternative investments $(+20.0 \%)$ in contrast to international equities and domestic equities which were the top two performing asset classes for 2004. The benefits of a well diversified asset allocation are evidenced by the System's ability to perform very competitively in both years where different asset classes drove overall returns. For the past three and five years, real assets was the best performing asset class, providing $16.9 \%$ and $16.2 \%$ per annum. The System's $15 \%$ allocation to real assets, which includes real estate and natural resources, helped position the fund to perform well in an environment whereby a $60 / 40 \mathrm{mix}$ of S\&P 500 to Lehman Aggregate Fixed Income returned 6.5\%.

The System's securities lending program obtains additional income by lending securities to broker-dealers and banks. During the years ended June 30, 2005 and 2004, the System's custodian lent, at the direction of the Board, the System's securities and received cash, securities issued or guaranteed by the United States government, and irrevocable bank letters of credit as collateral. The Board and the borrowers maintained the right to terminate all securities lending transactions on demand. The cash collateral received on each loan was invested together with the cash collateral of other qualified tax-exempt plan lenders, in a collective investment pool. On June 30, 2005, the System had no credit risk exposure to borrowers.

The System's investments in limited partnerships and real estate trusts are included in the tables appearing in note 6 . In connection with those investments, the System has remaining commitments as of June 30, 2005 and 2004 of approximately $\$ 295$ million and $\$ 214$ million, respectively, pursuant to terms of the respective limited partnerships and real estate trusts.

## CONTACTING THE SYSTEM'S FINANCIAL MANAGEMENT

This financial report is designed to provide our participants, business partners, and taxpayers with a general overview of the System's financial activities. If you have questions about this report or need additional financial information, contact the Accounting Manager of the Houston Municipal Employees Pension System at 1111 Bagby, Suite 2450, Houston, Texas 77002.

## Assets:

Investments, at fair value:
United States government securities
(cost: $\$ 62,134,178$ in 2005 and $\$ 87,887,717$ in 2004)
Corporate bonds
(cost: $\$ 68,409,05$ lin 2005 and $\$ 97,984,474$ in 2004)
Capital stocks
(cost: $\$ 415,043,746$ in 2005 and $\$ 492,382,196$ in 2004) $458,70 \mathrm{I}, 5 \mathrm{I} 35,420,134$
Commingled funds
(cost: $\$ 348,600,875$ in 2005 and $\$ 228,930,79$ I in 2004) 420,920,132 693,891
Limited partnerships, real estate trusts, and loans and
mortgages (cost $\$ 320,660,441$ in 2005 and $\$ 335,672,800$ in 2004) 372,737,677
Short-term investment funds (valued at cost) $\quad 97,408,425$

Total investments I,486,295,479

| Cash and cash equivalents | 874,937 | $2,690,902$ |
| :--- | ---: | ---: |
| Proceeds due on asset sales | $54,780,732$ | $7,495,944$ |
| Receivables on foreign exchanges | $11,172,093$ | $12,510,828$ |
| Contribution receivable - City of Houston | $1,005,078$ | $2,430,079$ |
| Note receivable - City of Houston | $300,000,000$ |  |
| Accrued interest on note receivable - City of Houston | $16,362,500$ |  |
| Other receivables | $2,621,140$ | $3,369,386$ |
| Collateral on securities lending arrangements, at fair value | $95,635,714$ | $109,439,773$ |
| Furniture, fixtures and equipment, net | 828,304 | 796,754 |
| Total assets | $\underline{1,969,575,977}$ | $1,576,738,574$ |

## Liabilities:

| Amounts due on asset purchases | 34,247,079 | 33,039,912 |
| :---: | :---: | :---: |
| Payables on foreign exchanges | II,185,158 | 12,512,162 |
| Accrued liabilities | 3,636, 160 | 3,002,363 |
| Options written | 20,365 | 18,797 |
| Collateral on securities lending arrangements, at fair value | 95,635,714 | 109,439,773 |
| Total liabilities | 144,724,476 | 158,013,007 |
| Plan net assets held in trust for pension benefits | \$ 1,824,85I,501 | 1,418,725,567 |

(A schedule of funding progress for the plan is presented on page 32.)

See accompanying notes to basic financial statements.

|  | 2005 | 2004 |
| :---: | :---: | :---: |
| Additions To Plan Net Assets: |  |  |
| Contributions: |  |  |
| City of Houston | \$ 363,246,727 | 57,307,852 |
| Participants | 23,487,896 | 26,189,275 |
| Total contributions | 386,734,623 | 83,497,127 |
| Investment income: |  |  |
| Interest on bonds and deposits | 11,101,154 | 9,513,651 |
| Dividends | 9,891,196 | 15,133,937 |
| Earnings from limited partnerships and real estate trusts | 45,069,632 | 19,463,685 |
| Net appreciation on investments | 124,001,689 | 189,464,813 |
| Total investment income | 190,063,671 | 233,576,086 |
| Proceeds from lending securities | 2,694,595 | 1,121,875 |
| Less costs of securities lending | (2,342,722) | $(769,437)$ |
| Net proceeds from lending securities | 351,873 | 352,438 |
| Less costs of investment services | $(5,996,174)$ | $(6,567,882)$ |
| Total investment income, net | 184,419,370 | 227,360,642 |
| Interest income - City of Houston note receivable | 16,362,500 |  |
| Other income | 887,582 | 726,494 |
| Total additions to plan net assets | 588,404,075 | 311,584,263 |
| Deductions From Plan Net Assets: |  |  |
| Benefits paid to participants | 175,479,966 | 153,202,419 |
| Contribution refunds to participants | 992,14I | 634,977 |
| Professional services | I,088,4 I I | 711,647 |
| Administration expenses | 4,717,623 | 4,499,952 |
| Total deductions from plan net assets | I82,278,14 I | 159,048,995 |
| Net increase in plan net assets | 406, 125,934 | 152,535,268 |
| Plan net assets held in trust for pension benefits: |  |  |
| Beginning of year | 1,418,725,567 | 1,266,190,299 |
| End of year | \$ 1,824,851,501 | 1,4I8,725,567 |

See accompanying notes to basic financial statements.

## 1. DESCRIPTION OF PLAN

The Houston Municipal Employees Pension System (the System) was created under Chapter 358, Acts of the 48th Texas Legislature, Regular Session, 1943 (Article 6243g, Vernon's Texas Civil Statutes) and reenacted and continued under HB1573, 77th Texas Legislature, Article 6243h, Vernon's Texas Civil Statutes (the Pension Statute). The System is a multiple-employer defined benefit pension plan covering all municipal employees, except police officers and firefighters (other than certain police officers in the System as authorized by the Pension Statute), employed full time by the City of Houston, Texas (the City), elected City Officials, and the full time employees of the System (collectively referred to as participants). The System includes a contributory group (Group A) and a noncontributory group (Group B) and provides for service, disability and death benefits for eligible participants. System plan net assets are used to pay benefits for eligible participants of Group A and Group B. The System is a local governmental plan and therefore is not subject to the Employee Retirement Income Security Act of 1974. The System is governed by a Board of Trustees (the Board) and can only be terminated or amended by an act of the Legislature of the State of Texas or by an agreement between the City and the Board pursuant to the Pension Statute.

## Participation

Participants hired before September 1, 1981 participate in Group A, unless they elected before December 1, 1981 or after May 1, 1996 to transfer to Group B. Participants hired or rehired after September 1, 1981 but before September 1, 1999, may make a one-time irrevocable election to participate in Group A; otherwise, they participate in Group B. Participants hired or rehired on or after September 1, 1999 participate in Group A; except that Executive Officials of the City and the Executive Director of the System (Executive Officials) participated in Group C. Effective January 1, 2005, the Executive Officials of the City and the Executive Director of the System automatically became Group A members pursuant to the First Amendment to Meet and Confer Agreement, dated December 21, 2004.

At July 1, 2004, the System's participants consisted of the following:

| Retirees and beneficiaries currently receiving benefits | 6,878 |
| :--- | :---: |
| Former employees - vested but not yet receiving benefits | 2,434 |
| Former employees - non-vested | 1,043 |
| Vested active participants | 8,208 |
| Non-vested active participants | $\underline{3,648}$ |
| $\quad$ Total participants | $\underline{\underline{22,21 I}}$ |

As of September 15, 2004 and until December 31, 2005, a participant who is eligible to convert previous Group B service to Group A may make a one-time irrevocable election to convert the Group B service to Group A by paying to the System the actuarially determined cost of the converted service, as determined by the System's actuary and approved by the Board, plus interest. After December 31, 2005, a participant may not elect to convert previous Group B service to Group A.

## Contributions

Covered active Group A and Group C participants were required to contribute $4 \%$ of their qualifying gross salary to the System during fiscal year 2004. This rate was increased to $5 \%$ of salary beginning with the first pay period for such members on or after January 1, 2005.

The System's statutes provide that the employer contribution to the System be based on a percentage contribution rate multiplied by the combined eligible salaries paid to participants of Group A, Group B and Group C. The percentage contribution rate is based on the results of actuarial valuations made at least every three years, calculated on the basis of an acceptable reserve funding method approved by the Board. Notwithstanding any other provision, the City's minimum percentage contribution rate may not be less than the greater of two times the contribution rate of Group A participants, or $10 \%$. However, under the terms of the Meet and Confer Agreement between the Board and the City, dated September 15, 2004, the City agreed to provide funding to the System as follows for the fiscal years 2005, 2006 and 2007, comprised of budgeted contributions and net proceeds of pension obligation bonds as follows (on a cash basis):

|  | Budgeted <br> Contributions |  | Pension <br> Obligation Bonds |
| :--- | :--- | :--- | :--- |
|  | $\$ 33$ million |  | $\$ 33$ million |
| Fiscal year 2005 | $\$ 36$ million |  | $\$ 33$ million |
| Fiscal year 2006 | $\$ 39$ million | $\$ 33$ million |  |

## Retirement Eligibility

A participant whose employment with the City or the System terminated on or after August 1, 2000 and prior to January 1, 2005, is eligible to receive a normal monthly pension benefit after at least one of the following combinations of minimum age and service requirements has been met:
(i) attainment of age 65 with any credited service in Group C,
(ii) attainment of age 62 with at least 5 years of total credited service, or
(iii) completed at least 5 years of total credited service and attained any combination of age and credited service that when added together equal 70 or more.

Effective January 1, 2005 a participant who terminates employment with the City or the System is eligible for a normal retirement pension beginning on the member's effective retirement date after the date the member completes at least five years of credited service and attains either:
(i) 62 years of age; or
(ii) a combination of years of age and years of credited service, including parts of years, the sum of which equals the number 75 , provided the participant is at least 50 years of age; or
(iii) completed at least 5 years of total credited service and attained any combination of age and credited service that when added together equal 70 or more, provided that the member, prior to January 1, 2005, completed at least 5 years of credited service and attained a combination of age and credited service that when added together equal 68 or more.

## Pension Benefits

Pension benefits are based on a participant's average monthly salary, as defined in the Pension Statute, and years of credited service. The maximum pension benefit is $90 \%$ of the participant's average monthly salary.
Pension benefits are increased annually by a Cost of Living Adjustment (COLA) equal to $3 \%$ of the original benefit amount, not compounded for all persons receiving a pension or survivor benefit as of January 1 of the year in which the increase is made, provided the person receiving the pension was an employee on or before December 31, 2004, and the person receiving the survivor benefit is an eligible survivor of a person who was an employee on or before December 31, 2004.

Effective January 1, 2005, pension and survivor benefits for all retirees and eligible survivors shall be increased annually by $2 \%$, not compounded, for all persons receiving a pension or survivor benefit as of January 1 of the year in which the increase is made, provided the person receiving the pension was hired or rehired on or after January 1, 2005. Retirees who received a 3\% COLA and who are rehired on or after January 1, 2005 will also receive a $3 \%$ COLA on the subsequent benefit.
A participant who is eligible to receive a deferred benefit may elect to receive his or her pension benefit in an early lump sum distribution if the actuarial present value of the participant's benefit is less than $\$ 10,000$ as of the later of September 1,1995 or the date of termination. Early lump-sum distributions are subject to approval by the Board.

## D isability Benefits

Service-connected disability benefits for covered participants are based on the participant's normal accrued benefit, but are not less than $20 \%$ of the participant's final monthly salary. There is no minimum credited service requirement to qualify for serviceconnected disability benefits.

Participants with at least five years of credited service who become disabled may qualify for a non-service connected disability allowance equal to the participant's normal accrued pension benefit.

## Survivor Benefits

Survivor benefits are provided for a participant's surviving spouse and/or dependent children. A deceased participant must have had at least five years of credited service at the time of his or her death to qualify for survivor benefits unless death was caused by a service-connected incident as defined by the Pension Statute.

In order to qualify for survivor benefits, a surviving spouse must have been married to the deceased participant at the time the participant's employment with the City or System was terminated and at the time of the participant's death. To qualify for benefits, a child must be the natural, or legally adopted, dependent child of the deceased participant at the time of the participant's death and (a) must be under age 21 and never have been married, or (b) have been totally and permanently disabled before age 18 and at the time of the participant's death and never have been married. Dependent benefits are payable to the legal guardian of the dependent(s) unless the dependent is at least 18 years of age.

## D eferred Retirement Option Plan

A participant who is eligible to retire, except that he or she has not retired and remains a full-time employee of the City, or the System, or has been separated from service for not more than thirty calendar days, may elect to participate in the Deferred Retirement Option Plan (DROP). The DROP provides that a monthly amount (monthly DROP credit) will be credited to a notional account (DROP Account). Interest at a rate equal to half the return on the System's investment for the prior fiscal year, with a minimum rate of $2.5 \%$ and a maximum rate of $7.5 \%$ will accrue, compounded daily, on the DROP account balance. The first day of DROP participation is the DROP Entry Date. The day a participant's fully executed DROP election is accepted by the System is the DROP Election Date. Normal pension benefits cease to accrue on DROP Entry Date.

Effective September 1, 1999, the DROP Entry Date may precede DROP Election Date. However, effective January 1, 2005, a participant's election to participate in DROP cannot establish a DROP entry date that occurs prior to the date of the System's receipt of the member's request to participate in DROP. The monthly DROP credit is based on the participant's years of credited service and average monthly salary as of DROP Entry Date, and benefit accrual rates in effect on DROP Election Date.

DROP participation terminates when a DROP participant's employment with the City, or the System, terminates. The balance of the participant's notional DROP account (DROP Benefit) at the time of such termination is an amount equal to the sum of a participant's monthly DROP credits and interest accrued on such amount up to the time the participant's employment terminates. A DROP Benefit is subject to approval by the Board. A DROP participant eligible to receive a DROP Benefit distribution may elect to receive the distribution in a lump-sum, partial distribution, in substantially equal periodic payments over a period of time approved by the Board, or in a combination of a lump-sum followed by substantially equal periodic payments over a period of time approved by the Board until the balance of the DROP Benefit is depleted. The DROP Benefit is not available to a DROP participant until such participant's employment with the City or the System has terminated and the participant has made a DROP distribution election.

## Refunds of Participant C ontributions

Group A participants who terminate employment prior to retirement for reasons other than death or disability, may request a refund of their accumulated employee contributions, without interest, in lieu of a pension or in the event the participant has fewer than five years of credited service.

## 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

## Basis of Presentation

The accompanying basic financial statements are presented in accordance with generally accepted accounting principles established by the Governmental Accounting Standards Board (GASB), which designates the accounting principles and financial reporting standards applicable to state and local governmental units. The accompanying basic financial statements include solely
the accounts of the System, which include all programs, activities and functions relating to the accumulation and investment of the assets and related income necessary to provide the pension benefits required by the governing statutes and amendments thereto.

## Adoption of New Accounting Standard

During fiscal year 2005, the System adopted GASB Statement No. 40, Deposits and Investment Risk Disclosures. This statement establishes and modifies disclosure requirements related to deposits and investments, focusing on interest rate risk, credit risk, custodial credit risk, foreign currency risk and concentration of credit risk.

## Basis of Accounting

The basis of accounting is the method by which revenues and expenses are recognized in the accounts and reported in the basic financial statements. The accompanying basic financial statements are presented on the accrual basis of accounting. Under the accrual basis of accounting, revenues, which include investment and other income, are recognized when they are earned and collection is reasonably assured, and expenses are recognized when the liability is incurred. Accrued income, when deemed not collectible, is charged to operations. Participant and employer contributions are recognized as revenues in the period in which they are due pursuant to formal commitments. Benefits and refunds are recognized when due and payable in accordance with the terms of the Pension Statute.

## Reporting Entity

The System is a component unit of the City and its basic financial statements and required supplemental information are included in the City's Comprehensive Annual Financial Report.

## Investment Valuation and Income Recognition

Investments are reported at fair value. Securities traded on a national or international exchange are valued at the last reported sales price at current exchange rates. Mortgages are valued on the basis of future principal and interest payments, and are discounted at prevailing interest rates for similar instruments. The fair value of limited partnerships and real estate trusts is based on independent appraisals or recent financial results. Short-term investments are carried at cost, which approximates fair value. Investments that do not have an established market are reported at estimated fair value.

Purchases and sales of investments and forward foreign exchange contracts are recorded on the trade date. Gains or losses on the forward foreign exchange contracts are recognized when the contract is complete.

Dividend income is recorded on the ex-dividend date. Interest and income from other investments are recorded when earned.
Net appreciation on investments represents realized gains and losses on sales of investments during the year and the change in the fair value of investments between years.

## Furniture, Fixtures and Equipment

Furniture, fixtures and equipment are recorded at cost less accumulated depreciation and amortization. Depreciation and amortization expense is computed using the straight-line method over the estimated useful lives of the related assets ranging from three to ten years. Any gain or loss on the retirement of assets is recognized currently. Maintenance and repairs are charged to expense while expenditures for improvements greater than or equal to $\$ 5,000$ are capitalized.

## Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the basic financial statements and the reported amounts of additions and deductions during the reporting period. Actual results could differ from those estimates.

## Income Tax Status

The System obtained its latest determination letter on April 23, 2002, in which the Internal Revenue Service stated that the System, as amended on May 11, 2001, is in compliance with the applicable requirements of the Internal Revenue Code. The System has been amended since receiving the determination letter. However, the System's management and Board believe that the System is currently designed and being operated in compliance with the applicable requirements of the Internal Revenue Code.

## Costs of Administering the System

The costs of administering the System are paid by the System from current earnings pursuant to an annual fiscal budget adopted by the Board.

## 3. CONTRIBUTIONS AND FUNDING STATUS

Group B participants do not contribute to the System. All other active participants are required to contribute to the System amounts as set forth in the Pension Statute. As of June 30, 2005 and 2004, the participant contribution rates were $5 \%$ and $4 \%$, respectively, of a participant's qualifying base salary.
The City's contribution rate shall not be less than the greater of $10 \%$ of all participant salaries or two times the rate contributed by Group A participants. For fiscal year 2004, the City's contribution rate was stated as a percentage of covered payroll and was $14.7 \%$. Under the terms of the Meet and Confer Agreement between the System's Board and the City, dated September 15, 2004, the City agreed to provide funding to the System as follows for fiscal years 2005, 2006 and 2007:

|  | Budgeted Contributions | Pension Obligation Bonds |
| :---: | :---: | :---: |
| Fiscal year 2005 | \$33 million | \$33 million |
| Fiscal year 2006 | \$36 million | \$33 million |
| Fiscal year 2007 | \$39 million | \$33 million |

Under the terms of the Meet and Confer Agreement, if the System's average investment performance for fiscal years 2005 and 2006 is less than $8.25 \%$, then the City and the System will use their best efforts to amend the funding provisions of the Agreement for fiscal year 2007 or enter into a new agreement on funding to increase the City's contributions to the System. The actuarially determined Annual Required Contribution (ARC) for fiscal year 2005 was determined by the July 1, 2003 actuarial valuation. The July 1, 2003 actuarial valuation, revised for benefit changes effective January 1, 2005 and as disclosed in the July 1, 2004 valuation report, produced an ARC of $24.93 \%$ of covered payroll. The July 1, 2003 actuarial valuation used the following significant assumptions:

| Investment rate of return | $8.5 \%$, net of expenses |
| :--- | :--- |
| Salary increases | Graded rates based on years of service |
| Payroll growth factor | $3.0 \%$ per year |
| General inflation rate | $3.0 \%$ per year |
| Actuarial cost method | Entry age normal cost method |
| Life expectancy | 1994 Group Annuity Mortality Table |
| DROP participation rate | $100 \%$ at first eligibility |

Although the City and participants have contributed the amounts as required under the Pension Statute, the actual contributions made by the City have been less than the ARC for fiscal years 2005 and 2004.
The funded ratio is a standard measure of a plan's funded status representing the ratio of the actuarial value of assets to the actuarial accrued liability. The funded ratio as of July 1, 2004 is $57 \%$. The City is responsible for funding the deficiency, if any, between the amount available to pay the System's benefits and the amount required to pay such benefits.

Historical trend information is provided as required supplementary information on page 32. This historical information is intended to demonstrate the progress the System has made in accumulating sufficient assets to pay benefits when due and the related actuarial assumptions used in determining the actuarially determined amounts.

## 4. NOTE RECEIVABLE - CITY OF HOUSTON

As part of the Meet and Confer Agreement and to improve the System's long-term funding outlook, on November 10, 2004, the City issued the System a $\$ 300$ million pension obligation note (the Note), secured in part by a deed of trust on the Convention Center Hotel adjacent to the George R. Brown Convention Center (the Hotel). The Note will mature on December 1, 2033. For the initial period through March 31, 2005, the Note will bear interest at $8.5 \%$. Thereafter, the interest rate will adjust annually effective as of April 1 of each year to be the greater of $8.5 \%$ or the sum of the U.S. Treasury bond yield on the prior March 31 for the maturity date closest to December 1, 2033 plus $3.2 \%$ less a reduction for adjustments beginning in 2015 to reflect market reductions, if any, in yield spreads to maturity for comparable instruments.
Interest will be payable on October 1, 2005 and each October 1 thereafter. Payment of interest may be deferred provided that the aggregate balance of the deferred interest on the Note at any time shall not exceed the sum of $\$ 150$ million plus, beginning after the 2014 true-up appraisal of the Hotel, $75 \%$ of the amount by which the most recent appraised value of the Hotel exceeds $\$ 300$ million. All deferred interest will be due no later than December 1, 2033 and will bear interest from date of deferral until time of payment at the interest rate determined for the Note, compounded annually.

## 5. DEFERRED COMPENSATION PLAN

The System offers its employees a deferred compensation plan (the DCP) created in accordance with Internal Revenue Code Section 457. The DCP, available to all employees of the System, permits employees to defer a portion of their salary until future years. Distributions from the DCP are not available to employees until termination, retirement, death or unforeseeable emergency. The DCP has a third party administrator, Great-West Retirement Services (Great-West), and the cost of administration and funding are borne by the DCP participants. Amounts deferred are held in trust by Great-West and, since the System has no fiduciary responsibility for the DCP, these amounts are not reflected in the accompanying financial statements in accordance with GASB Statement No. 32.

## 6. INVESTMENTS

Portions of the System's investments are classified as security investments. A security is a transferable financial instrument that evidences ownership or creditorship. Investments in commingled funds, limited partnerships, real estate trusts, and loans and mortgages are investments that are evidenced by contracts rather than securities.
The fair values of the System's investments at June 30 are presented by type, as follows:

|  | $\underline{2005}$ | $\underline{2004}$ |
| :---: | :---: | :---: |
| United States government securities | \$ 62,840,296 | 88,750,245 |
| Corporate bonds | 73,687,436 | 100,819,631 |
| Capital stocks | 458,701,513 | 552,420, 134 |
| Commingled funds | 420,920, 32 | 291,693,891 |
| Limited partnerships, real estate trust, and loans and mortgages | 372,737,677 | 350,343, 146 |
| Short-term investment funds (cost) | 97,408,425 | 53,977,86I |
|  | \$ 1,486,295,479 | 1,438,004,908 |

The System's Board, in accordance with the power and authority conferred under the Texas Statutes, employed State Street Bank and Trust Company (Custodian) as custodian of the assets of the System, and in said capacity, the Custodian shall be a fiduciary of the System's assets with respect to its discretionary duties including safekeeping the System's assets. The Custodian shall estab-
lish and maintain a custodial account to hold, or direct its agents to hold, for the account of the System all assets that the Board shall from time to time deposit with the Custodian. All right, title and interest in and to the System's assets shall at all times be vested in the System's Board.
In holding all system assets, the Custodian shall act with the same care, skill, prudence and diligence under the prevailing circumstances that a prudent person acting in like capacity and familiar with matters of this type would use in the conduct of an enterprise with a like character and with like aims. Further, the Custodian shall hold, manage and administer the System's assets for the exclusive purpose of providing the benefits to the members and the qualified survivors of the System.
The Board shall manage the investment program of the System in compliance with all applicable Federal and State statutes and regulations concerning the investment of pension assets. The Board has adopted a Statement of Investment Policies and Objectives (Investment Policy) to set forth the factors involved in the management of investment assets for the System and is made part of every investment management agreement.

## Custodial Credit Risk

For an investment, custodial credit is the risk that, in the event of the failure of the counterparty, the System will not be able to recover the value of its investment or collateral securities that are in the possession of an outside party. Investment securities are exposed to custodial credit risk if the securities are uninsured, are not registered in the name of the System, and are held by either the counterparty or the counterparty's trust department or agent but not in the System's name. At June 30, 2005, the System's investments that were not subject to custodial credit risk were the investments in U.S. government securities and corporate bonds as they are registered in the name of the System and held in possession of the Custodian.

## Concentration of Credit Risk

The allocation of assets among various asset classes are set by the Board. For major asset classes (e.g., U.S. equity, international equity, fixed income, real assets, and alternative investments), the System will further diversify by employing managers with demonstrated skills in complementary areas of expertise. The managers retained will utilize varied investment approaches, but, when combined will exhibit characteristics that are similar, but not identical, to the asset class proxy utilized in the strategic asset allocation plan. The Investment Policy of the System provides that no investment manager shall have more than 15\% (at market value) of the System's assets in one investment style offered by the firm, with the exception of passive management.

Significant guidelines by type of investment are as follows:

## U.S. Equity Managers

1. A manager's portfolio shall contain a minimum of twenty-five issues.
2. No more than $5 \%$ of the manager's portfolio at market shall be invested in ADR's.
3. No individual holding in a manager's portfolio may constitute more than $5 \%$ of the outstanding shares of an issuer.
4. No individual holding may constitute more than $5 \%$ of a manager's portfolio at cost or $10 \%$ at market.
5. Short sales, purchases on margin, non-negotiable or otherwise restricted securities are prohibited, other than where expressly permitted.
6. While there are no restrictions on cash, a manager must notify the System if the cash position exceeds $10 \%$.

## International Equity Managers

1. Not more than $5 \%$ at cost and $10 \%$ at market value of a manager's portfolio shall be invested in the securities of any one issuer.
2. Not more than $30 \%$ of the assets of a manager's portfolio (at market value) shall be invested in any one country with the exception of Japan.
3. While there are no restrictions on cash, a manager must notify the System if the cash position exceeds $10 \%$.
4. Currency forwards and futures will be limited as follows:
a. Limits on net forward and future sales of currencies will be addressed in each manager's respective Guidelines and Objectives.
b. Forward and future exchange contracts of any currencies, other than Yen, Sterling and Euro shall be limited to the manager's underlying equity position in the local market,
c. Foreign exchange contracts with a maturity exceeding 12 months are prohibited, and
d. Currency options may be entered into in lieu of or in conjunction with forward sales of currencies. The same effective limitations specified in (a) through (c) above will apply to currency options.

## Fixed Income Managers

1. No more than $10 \%$ of a manager's portfolio at market shall be invested in the securities of any single issuer, with the exception of the U.S. government and its agencies.
2. No individual holding in a manager's portfolio shall constitute more than $10 \%$ of the market value of an issue.

## Global Opportunistic Fixed Income/High Yield Managers

1. No more than $5 \%$ at cost and $10 \%$ at market value of a manager's portfolio shall be invested in the securities of any single issuer, with the exception of the U.S. government and its agencies.

There is no security issued by a single issuer that is being held with market value over $5 \%$ of the System's plan net assets as of June 30, 2005. At June 30, 2004, the System's investment of $\$ 108,836,958$ in BGI Alpha TILTS Fund exceeded $5 \%$ of the System's net assets.

## Interest Rate Risk

The System invests in fixed income securities including, but not limited to, investments representing instruments with an obligated fixed rate of interest including public and private debentures, mortgages, investments in life insurance general accounts and guaranteed investment contracts, with maturities greater than one year, and options/futures. Instruments may have an investment grade or non-investment grade rating. Purchases and sales, investment selection and implementation of investment strategies are delegated to the discretion of the investment manager, subject to compliance with its management agreement and the Investment Policy.
Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of the investment. Duration is a measure of a debt investment's exposure to fair value changes arising from changes in interest rates. It uses the present value of cash flows, weighted for those cash flows as a percentage of the investment's full price. The greater the duration of a bond, or a portfolio of bonds, the greater its price volatility will be in response to a change in interest rates and vice-versa. Duration is the measure of a bond price's sensitivity to a 100-basis point change in interest rates. The duration of the System's debt securities are managed by the active managers.
At June 30, 2005, the following table shows the System's investments by type, amount and the effective duration rate calculated using the software Wilshire Axiom.

|  | Effective |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Duration |  | Domestic | International | Fair Value |
| Collateralized mortgage obligations | 3.99 | \$ | I 1,604,049 | 94,240 | 1 1,698,289 |
| Convertible bonds | 3.25 |  | 4,122,076 | I,689,463 | 5,811,539 |
| Corporate bonds | 6.89 |  | 45,458,947 |  | 45,458,947 |
| Corporate bonds (International) | 2.25 |  | 123,089 | I,422,355 | I,545,444 |
| GNMA/FNMA/FHLMC | 2.28 |  | 21,906,214 |  | 21,906,214 |


|  | Effective |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Duration | Domestic | International | Fair Value |
| Government issues | 4.59 | 34,435,7II |  | 34,435,7II |
| Government issues (International) | 6.30 |  | 4,797,48 I | 4,797,48 I |
| Misc. receivable (auto/credit card) | 0.99 | I,265,178 |  | 1,265,178 |
| Options-futures |  | $(233,658)$ |  | $(233,658)$ |
| Other asset backed | 3.54 | 9,331,750 | 510,837 | 9,842,587 |
|  | 4.80 | \$ 128,013,356 | 8,514,376 | 136,527,732 |

## Credit Risk

The quality ratings of investments in fixed income securities are set forth in the Investment Policy as follows:

1. All issues purchased must be of investment grade quality Baa (Moody's) or $\mathrm{BBB}(\mathrm{S} \& \mathrm{P})$ unless expressly authorized by the Board, in which case a minimum B rating shall apply, with a maximum limit of non-investment grade credits of $20 \%$ at market.
2. For global opportunistic fixed income/high yield securities, more than $50 \%$ of a manager's portfolio at market shall be invested in non-investment grade fixed income securities, i.e. those with ratings of BA1 (Moody's), BB+ (Standard \& Poor's), or lower, or unrated bonds, including corporate bonds, convertible bonds, and preferred stocks.

The quality ratings of investments in fixed income securities as described by nationally recognized statistical rating organizations at June 30, 2005 are as follows:

| Quality Rating | Fair Value | Percentage of Holdinos |
| :---: | :---: | :---: |
| AAA | \$ 26,746,361 | 19.58 \% |
| AA+ | 182,910 | 0.13 \% |
| AA- | 557,981 | 0.41 \% |
| A | 1,170,123 | 0.86 \% |
| A- | 953,692 | 0.70 \% |
| A+ | 1,432,390 | 1.05 \% |
| BBB | 3,014,419 | 2.21 \% |
| BBB- | 4,208,705 | 3.08 \% |
| BBB+ | 2,143,098 | 1.57 \% |
| BB | 5,887,768 | 4.31 \% |
| $\mathrm{BB}+$ | 6,715,068 | 4.92 \% |
| BB- | 1,881,936 | 1.38 \% |
| B | 4,937,965 | 3.62 \% |
| B+ | 5,814,350 | 4.26 \% |
| B- | 7,943,678 | 5.82 \% |
| CCC and below | 4,549,622 | 3.33 \% |
| Not rated | 3,179,075 | 2.33 \% |
| Rating not available | 5,173,004 | 3.79 \% |
| Total credit risk debt securities | 86,492,145 | 63.35 \% |
| U.S. government fixed income securities* | 50,035,587 | 36.65 \% |
| Total fixed income securities | \$ 136,527,732 | 100.00 \% |

[^0]
## Foreign Currency Risk

International securities investment managers are expected to maintain diversified portfolios by sector and by issuer using the System's Investment Policy.

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or a deposit. Each investment manager, through the purchase of units in a commingled investment trust fund or international equity mutual fund, establishes investments in international equities. The System has an indirect exposure to foreign currency fluctuation as of June 30, 2005 as follows:

|  | Fair Value | Percentage of Holdings |
| :---: | :---: | :---: |
| EURO Currency | \$ 64,743,286 | 36 \% |
| Japanese Yen | 39,341,395 | 22 \% |
| Pound Sterling | 24,551,143 | 14 \% |
| Swiss Franc | 15,199,722 | 8 \% |
| Norwegian Krone | 5,455,402 | 3 \% |
| Canadian Dollar | 5,086,231 | 3 \% |
| Hungarian Forint | 4,973,540 | 3 \% |
| Singapore Dollar | 3,733,631 | 2 \% |
| Hong Kong Dollar | 3,487,28I | 2 \% |
| Australian Dollar | 3,221,610 | 2 \% |
| Other foreign currencies | 9,945,068 | 5 \% |
| Total securities subject to foreign currency risk | \$ 179,738,309 | $100 \%$ |

Schedule 5 on page 35 lists the System's investment and professional service providers.

## 7. CASH AND CASH EQUIVALENTS

For cash deposits and cash equivalents, custodial credit risk is the risk that in the event of a bank failure, the System's deposits may not be returned to it. The System's deposits are held by the Custodian. As of June 30, 2005 and 2004, the System had fair value bank balances of $\$ 929,909$ and $\$ 2,845,275$, respectively, that are in demand deposit accounts subject to coverage by Federal deposit insurance but not collateralized. The System does not have a deposit policy for custodial credit risk; however, the System's credit risk exposure is mitigated by the financial strength of the banking institution in which the deposits are held.

## 8. SECURITIES LENDING

State Statutes allow the System to participate in securities lending transactions and the Board has authorized its custodian to lend the System's securities to broker-dealers and banks pursuant to a form of loan agreement. During the years ended June 30, 2005 and 2004, the System's custodian lent, at the direction of the Board, the System's securities and received cash, securities issued or guaranteed by the United States government, and irrevocable bank letters of credit as collateral. The custodian does not have the ability to pledge or sell securities delivered for collateral, absent a borrowers default. Borrowers were required to deliver collateral for each loan equal to: (i) in the case of loaned securities denominated in United States dollars or whose primary trading market was located in the United States or sovereign debt issued by foreign governments, $102 \%$ of the market value of the loaned securities; and (ii) in the case of loaned securities not denominated in United States dollars or whose primary trading market was not located in the United States, $105 \%$ of the market value of the loaned securities.

The Board did not impose any restrictions on the amounts of the loans that the System's custodian made on its behalf. There were no failures by any borrowers to return loaned securities or pay distributions. Moreover, there were no losses during the year resulting from a default of the borrowers or the custodian.

During the years ended June 30, 2005 and 2004, the Board and the borrowers maintained the right to terminate all securities lending transactions on demand. The cash collateral received on each loan was invested together with the cash collateral of other qualified tax-exempt plan lenders, in a commingled investment pool. As of June 30, 2005 and 2004, such investment pool had an average duration of 40 and 52 days, respectively, and an average weighted maturity of 410 and 118 days, respectively.
Because the loans were terminable at will, their duration did not generally match the duration of the investments made with cash collateral. On June 30, 2005, the System had no credit risk exposure to borrowers. The collateral held and the fair value of securities on loan as of June 30, 2005, was $\$ 96,629,097$ and $\$ 92,807,489$, respectively, and $\$ 112,913,330$ and $\$ 109,866,599$, respectively, as of June 30, 2004.
The fair values of the underlying securities lent as of June 30, are as follows:

|  | $\underline{2005}$ | $\underline{2004}$ |
| :---: | :---: | :---: |
| U.S. government securities | \$ 27,699,150 | 43,329,150 |
| Domestic equity | 34,267,743 | 24,192,115 |
| Domestic fixed income | 10,089,776 | 8,577,755 |
| International equity | 20,750,820 | 33,767,579 |
|  | \$ 92,807,489 | 109,866,599 |

## 9. FINANCIAL INST RUMENTS WITH OFF-BALANCE SHEET RISK

## Covered Call Options

The System writes covered call options as an investment technique to enhance portfolio returns and to reduce portfolio volatilities. When a call option is sold (written), it obligates the System to deliver stock at a set price for a specific period of time. The System receives premium income for options written, and the value of the options are recorded as a liability due to the obligation to deliver stock. The liability is recorded at the current fair value of the options written. Fair value is the amount that the System would pay to terminate the contracts at the reporting date.
If a call option expires, a gain is realized to the extent of the premium received. If a call option is exercised, the premium received is realized as a gain. A gain or loss is also realized on the underlying security to satisfy the delivery obligation. The System may repurchase a call option written at its discretion when it is favorable to do so. When a contract is repurchased, the liability is reduced and the difference between the premium received and the amount paid to close the contract is realized as a gain or loss.
One of the System's investment managers, Western Asset Management, is permitted to use investment options. Western Asset Management periodically invests in options as a means to manage their portfolio's duration.

## Forward Foreign Exchange C ontracts

A currency forward is a contractual agreement between two parties to pay or receive specific amounts of foreign currency at a future date in exchange for another currency at an agreed upon exchange rate. Forward commitments are not standardized and carry credit risk due to the possible nonperformance by one of the counterparties. The maximum potential loss is the aggregate face value in U.S. dollars at the time the contract was opened; however, the likelihood of such loss is remote. No such losses occurred during fiscal years 2005 and 2004. Forwards are usually traded over-the-counter. These transactions are entered into in order to hedge risks from exposure to foreign currency rate fluctuation and to facilitate trade settlement of foreign security transactions. Forwards carry market risk resulting from adverse fluctuations in foreign exchange rates. Recognition of realized gain or loss depends on whether the currency exchange rate has moved favorable or unfavorable to the contract holder upon termination of the contract. Prior to termination of the contract, the System records the unrealized currency translation gain or loss based on the applicable forward exchange rates.

## M ortgage-backed Securities

A mortgage-backed security depends on the underlying pool of mortgage loans to provide the cash flow to make principal and interest payments on the security. A decline in interest rates can result in prepayments, which reduces the fair value of the security. If homeowners pay on mortgages longer than anticipated, the cash flows are greater and the return on investment would be higher than anticipated. A collateralized mortgage obligation (CMO) is a mortgage-backed security that is comprised of classes of bonds created by prioritizing the cash flows of the underlying mortgage pool. This redistributes prepayment risk among the various bond classes in the CMO structure.
The System invests in mortgage-backed securities to enhance fixed-income returns. Mortgage-backed securities are subject to credit risk, in that the borrower may be unable to meet its obligations. These securities are also subject to prepayment risk, which is the risk that a payment may be made in excess or in advance of the regularly scheduled principal payment.

## 10. FURNITURE, FIXTURES AND EQUIPMENT

Furniture, fixtures and equipment are comprised as follows at June 30:

|  | $\underline{2005}$ | $\underline{2004}$ |
| :--- | ---: | :---: |
| Office furniture and equipment | $\$ 420,973$ | 397,426 |
| Computer equipment | 805,509 | 491,819 |
| Leasehold improvements | $\frac{398,232}{3,624,714}$ | $\underline{398,232}$ |
| Less accumulated depreciation and amortization | $\underline{(796,410)}$ | $\underline{(490,723)}$ |
|  | $\underline{\$ 828,304}$ | $\underline{796,754}$ |

## 11. COMMITMENTS

As described in note 1, certain participants of the System are eligible to receive, upon request, a refund of their accumulated Group A and/or Group C contributions, without interest, upon termination of employment with the City, or System, prior to being eligible for pension benefits. At June 30, 2005 and 2004, aggregate contributions from these eligible participants of the System were approximately $\$ 80,713,000$ and $\$ 69,329,000$, respectively.

The System's investments in limited partnerships and real estate trusts are included in the table appearing in note 6 . In connection with those investments, the System has remaining commitments as of June 30, 2005 and 2004 of approximately $\$ 294,900,000$ and $\$ 214,500,000$, respectively, pursuant to terms of the respective limited partnerships and real estate trusts.
The System leases office facilities and parking spaces under an operating lease which was originally made on August 1, 1990 and has been amended to the sixth amendment dated August 30, 2002. The sixth amendment to the lease agreement provides rent abatement on the expansion premises through June 30, 2004 and an annual base rent of $\$ 15$ per square foot of rentable area up to June 30, 2006, increasing to $\$ 21.50$ per square foot of rentable area from July 1, 2006 until the end of the lease term on June 30, 2011. The amount of future minimum lease obligations required under this lease are as follows:
Year Ending

June 30, | 2006 | $\$ 329,700$ |
| :---: | ---: |
| 2007 | 455,400 |
| 2008 | 455,400 |
| 2009 | 455,400 |
| 2010 | 455,400 |
| 2011 | $\boxed{455,400}$ |
|  | $\underline{\$ 2,606,700}$ |

Additional amounts are assessed for use of common areas, utilities and maintenance. Total rental expense, including these assessments, amounted to approximately $\$ 504,800$ and $\$ 440,100$ during the years ended June 30, 2005 and 2004, respectively.

## 12. RISKS AND UNCERTAINTIES

The System invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the value of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the statements of plan net assets.

The System's contribution rates are made and the actuarial information included in schedules 1 and 2 are based on certain assumptions pertaining to interest rates, inflation rates and participant demographics, all of which are subject to change. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near term could be material to the basic financial statements.

## SCHEDULE I - REQUIRED SUPPLEMENTAL INFORMATION

## SCHEDULE OF FUNDING PROGRESS (UNAUDITED) (IN MILLIONS OF DOLLARS)

|  | (I) <br> Actuarial | (2) <br> Actuarial | (3) | (4) | (5) | (6) <br> UAAL as a |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actuarial <br> Value of <br> Valuation <br> Ascrueds | Liability <br> (AAL) | Unfunded <br> (UAAL) | Funded <br> Ratio <br> (I):(2) | Covered <br> Payroll | of Covered <br> Payroll |  |
| Date | (AVA) |  |  |  |  |  |


#### Abstract

Analysis of the dollar amounts of the actuarial value of assets, actuarial accrued liability, and unfunded actuarial accrued liability in isolation can be misleading. Expressing the actuarial value of assets as a percentage of the actuarial accrued liability provides one indication of the System's funding status on a going-concern basis. Analysis of this percentage over time indicates whether the plan is becoming financially stronger or weaker. Generally, the greater this percentage, the stronger the plan. Trends in unfunded actuarial accrued liability and covered payroll are both affected by inflation. Expressing the unfunded actuarial accrued liability as a percentage of covered payroll approximately adjusts for the effects of inflation and aids analysis of the System's progress made in accumulating sufficient assets to pay benefits when due. Generally, the smaller this percentage, the stronger the plan.


See accompanying independent auditors' report.
See accompanying note to required supplemental schedules.

## SCHEDULE 2 - REQUIRED SUPPLEMENTAL INFORMATION

## SCHEDULE OF EMPLOYER CONTRIBUTIONS (UNAUDITED)

| Fiscal <br> Year | Actuarial <br> Valuation Date | Annual Required <br> Contributions (in millions)* | Percentage <br> Contributed |
| :---: | :---: | :---: | :---: |
| $06 / 30 / 97$ | $07 / 01 / 95$ | $\$ 34.5$ | $100.0 \%$ |
| $06 / 30 / 98$ | $07 / 01 / 96$ | 35.3 | $100.0 \%$ |
| $06 / 30 / 99$ | $07 / 01 / 96$ | 36.0 | $100.0 \%$ |
| $06 / 30 / 00$ | $07 / 01 / 98$ | 38.3 | $100.0 \%$ |
| $06 / 30 / 01$ | $07 / 01 / 99$ | 41.3 | $100.0 \%$ |
| $06 / 30 / 02$ | $07 / 01 / 00$ | 40.8 | $100.0 \%$ |
| $06 / 30 / 03$ | $07 / 01 / 01$ | 71.9 | $56.5 \%$ |
| $06 / 30 / 04$ | $07 / 01 / 02$ | 123.9 | $46.0 \%$ |
| $06 / 30 / 05$ | $07 / 01 / 03$ | 102.9 | $61.0 \% * *$ |

[^1]
## NOTE TO REQUIRED SUPPLEMENTAL SCHEDULES I and 2 (UNAUDITED)

This information presented in the required supplemental information was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

| Valuation date | July I, 2004 |
| :--- | :--- |
| Actuarial cost method | Entry Age Normal |
| Amortization method | Level percentage, closed |
| Amortization period | Rolling 30 year period ending June 30, 2035 |
| Asset valuation method | 5-year smoothed market |
| Actuarial assumptions: |  |
| $\quad$ Investment rate of return | $8.5 \%$, net of expenses |
| Salary increases | Graded rates based on years of service |
| $\quad$ Payroll growth factor | $3.0 \%$ per year |
| General inflation rate | $3.0 \%$ per year |
| DROP participation rate | $90 \%$ at first eligibility |
| DROP interest credit | $4.25 \%$ per year |
| Mortality rates | Based on I994 Uninsured Pensioners Mortality Table (healthy |
|  | participants); I965 Railroad Retirement Board Disable Life Table |
|  | (disabled participants) |

See accompanying independent auditors' report.

## SCHEDULE 3

INVESTMENT SUMMARY JUNE 30, 2005 and 2004

|  | June 30, 2005 |  |  | June 30, 2004 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cost | Fair Value | Unrealized Appreciation (Depreciation) | Cost | Fair Value | Unrealized Appreciation (Depreciation) |
| Fixed income: |  |  |  |  |  |  |
| U.S. government securities | \$ 62, 134, 178 | 62,840,296 | 706,118 | 87,887,717 | 88,750,245 | 862,528 |
| Corporate bonds | 68,409,05 I | 73,687,436 | 5,278,385 | 97,984,474 | 100,819,631 | 2,835,157 |
| Total fixed income | 130,543,229 | 136,527,732 | 5,984,503 | 185,872,191 | 189,569,876 | 3,697,685 |
| Capital stocks | 415,043,746 | 458,701,513 | 43,657,767 | 492,382,196 | 552,420, 134 | 60,037,938 |
| Commingled funds | 348,600,875 | 420,920,132 | 72,319,257 | 228,930,791 | 291,693,891 | 62,763,100 |
| Limited partnerships, real estate |  |  |  |  |  |  |
| trusts and loans and mortgages | s 320,660,44I | 372,737,677 | 52,077,236 | 335,672,800 | 350,343,146 | 14,670,346 |
| Short-term investment funds | 97,408,425 | 97,408,425 |  | 53,977,861 | 53,977,861 |  |
| Total investments \$ | \$ 1,312,256,716 | 1,486,295,479 | 174,038,763 | $\underline{\text { 1,296,835,839 }}$ | $\underline{\text { 1,438,004,908 }}$ | 141,169,069 |

Space and cost restrictions make it impractical to print the entire investment portfolio in this report.
A portfolio listing is available for review at the System's office by appointment upon request.
See accompanying independent auditors' report.

## SCHEDULE 4

INVESTMENT SERVICES, PROFESSIONAL SERVICES, AND ADMINISTRATION EXPENSES YEARS ENDED JUNE 30, 2005 AND 2004

|  |  | $\underline{2005}$ | $\underline{2004}$ |
| :---: | :---: | :---: | :---: |
| Investment services: |  |  |  |
| Custodial services | \$ | 360,922 | 324,969 |
| Money management services |  | 5,186,252 | 5,783,913 |
| Consulting services |  | 449,000 | 459,000 |
| Total investment services | \$ | 5,996,174 | 6,567,882 |
| Professional services: |  |  |  |
| Actuarial services |  | 174,347 | 201,483 |
| Auditing and consulting services |  | 57,558 | 37,058 |
| Legal services |  | 711,271 | 473,106 |
| Other |  | 145,235 |  |
| Total professional services | \$ | $\underline{\text { 1,088,4II }}$ | 711,647 |
| Administration expenses: |  |  |  |
| Office costs |  | 510,577 | 446,489 |
| Insurance costs |  | 140,495 | 168,815 |
| Costs of staff and benefits |  | 3,057,962 | 2,932,346 |
| Costs of equipment and supplies |  | 560,874 | 609,363 |
| Depreciation and amortization |  | 305,687 | 226,880 |
| Costs of education and research |  | 142,028 | 116,059 |
| Total administration expenses | \$ | $\underline{\text { 4,717,623 }}$ | 4,499,952 |

See accompanying independent auditors' report.

## SCHEDULE 5

## SUMMARY OF COSTS OF INVESTMENT AND PROFESSIONAL SERVICES YEARS ENDED JUNE 30, 2005 AND 2004

| Service Provider | Service Provided | 2005 | 2004 |
| :---: | :---: | :---: | :---: |
| Investment Services: |  |  |  |
| Axiom Int'I Investors, L.L.C. | Money management | \$ 721,432 | 698,557 |
| DePrince, Race and Zollo, Inc. | Money management | 398,312 | 511,117 |
| Oechsle International Advisors | Money management | 389,000 | 494,319 |
| Adams Street Partners | Money management | 344,248 | 431,813 |
| Neumeier Investment Counsel, L.L.C. | Money management | 389,436 | 384,834 |
| TT International Investment Management | Money management | 205,086 | 368,360 |
| Brandes Investment Partners, LLC | Money management | 577,930 | 364,188 |
| Legg Mason Capital Management, Inc. | Money management | 372,559 | 358,519 |
| Barclays Global Investors, N.A. | Money management | 538,782 | 347,276 |
| Western Asset Management | Money management | 258,104 | 320,950 |
| Brown Capital Management | Money management | 218,656 | 252,125 |
| Kopp Investment Advisors | Money management | 114,672 | 213,418 |
| Putnam Advisory Company, Inc. | Money management | $(73,760)$ | 201,317 |
| Loomis, Sayles and Company, L.P. | Money management | 246,100 | 199,269 |
| Golden Tree Asset Management, L.P. | Money management | 245,191 | 193,264 |
| Alliance Capital Management, L.P. | Money management | 17,108 | 137,165 |
| Frank Russell Securities | Money management | 40,439 |  |
| L\&B Realty Advisors, Inc. | Money management | 37,389 | 99,686 |
| MDL Capital Management | Money management | 13,370 | 90,582 |
| Smith Graham \& Company | Money management | 86,018 | 64,709 |
| Global Forest Partners, L.P. | Money management | 46,180 | 45,000 |
| Bank of America | Money management |  | 7,445 |
| State Street Bank and Trust Company | Custodial services | 360,922 | 324,969 |
| Wilshire Associates, Incorporated | Consulting services | 274,000 | 264,000 |
| Pension Consulting Alliance | Consulting services | 175,000 | 195,000 |
| Total investment services |  | 5,996,174 | 6,567,882 |
| Professional services: |  |  |  |
| Baker and Botts, L.L.P. | Legal services | 313,851 | 279,820 |
| Locke, Liddell and Sapp, L.L.P. | Legal services | 323,297 | 136,782 |
| Schlanger, Mills, Mayer \& Silver | Legal services | 44,185 |  |
| E. Troy Blakeney, Jr., P.C. | Legal services | 26,207 | 26,452 |
| Hinton Sussman Bailey \& Davidson, L.L.P. | Legal services | 3,731 | 25,608 |
| Jenkins \& Gilchrist | Legal services |  | 3,824 |
| Lawson \& Fields, P.C. | Legal services |  | 620 |
| Mir-Fox \& Rodriguez, P.C. | Auditing services | 53,555 | 34,380 |
| HillCo Partners, LLC | Professional services | 93,971 |  |
| Vollmer | Professional services | 51,264 |  |
| Pension Benefits Information | Consulting services | 4,003 | 2,678 |
| Towers Perrin, Inc. | Actuarial services |  | 159,295 |
| Gabriel, Roeder, Smith \& Co. | Actuarial services | 174,347 | 42,188 |
| Total professional services |  | I,088,4 II | 711,647 |
| Total costs of investment and professional services |  | \$ 7,084,585 | 7,279,529 |

See accompanying independent auditors' report.


## INVESTMENT SECTION

DISCUSSION OF INVESTMENT POLICIES AND ACTIVITIES SCHEDULE OF TOP INVESTMENTS (\$000) AS OF JUNE 30, 2005 PERFORMANCE BY FISCALYEAR LAST TEN YEARS COMPARISON OF INVESTMENT RETURNS -YEARS ENDED JUNE 30 SCHEDULE OF FEES AND COMMISSIONS

The Board of Trustees (the Board) of the Houston Municipal Employees Pension System (The System) has adopted a Statement of Investment Policies and Objectives (Statement) as a framework for the investment of the System's assets. The authority to amend the Statement rests solely with the Board. The Board may delegate to the Investment Committee (The Committee) the authority to act on certain matters relating to the System's investments. The Committee is made up of the full Board of Trustees. The following provides an outline of the Statement.

## G eneral

The Board recognizes the following investment responsibilities: a) to establish investment policy, guidelines and objectives for the investment of System assets, b) to select independent investment managers to implement management strategies in conformity with stated investment policies and guidelines, and c) to monitor investment activities and progress toward attaining investment objectives.

## Investment Policies

## Strategic Asset Allocation Policy and M aintenance

The Board periodically undertakes strategic studies to address the appropriateness of asset classes to be considered for inclusion in the allocation plan, and to define the targeted percentage to each asset class to achieve the desired level of diversification. If market conditions cause one or more asset levels to move significantly outside the targeted range for that class, the Board authorizes appropriate actions to re-balance toward desired diversification levels.

## M anager Structure C onsiderations

For major asset classes (Alternative Investments, Fixed Income, International Equities, Real Assets and U.S. Equities) the Board diversifies investments by engaging the services of professional investment portfolio managers with demonstrated skills and expertise in managing portfolios with characteristics comparable to the desired asset class. The managers retained are expected to utilize varied investment approaches that, when combined, will exhibit characteristics that are similar to the asset class proxy utilized in the strategic asset allocation plan. Cash inflows and outflows are directed, within the targeted asset class, to the various managers so that actual characteristics of the portfolio will be consistent with the strategic plan. No investment manager is permitted to have more than $15 \%$ of the fair value of the System's assets in a single investment style.

## Investment M anager G uidelines and Evaluation

Investment managers are subject to guidelines and objectives incorporated in the investment management agreement entered into by the Board and the respective investment managers. Investment managers are expected to perform their fiduciary duties as prudent people skilled in such matters and, further, are expected to comply with all applicable State and Federal statutes governing the investment of retirement funds. Within the context of the guidelines, investment managers have full discretion with respect to the purchase and sale of individual securities and concentrations of similar securities. Portfolios are to be managed in a manner similar to other portfolios within an organization with similar guidelines and performance objectives.

The Board requires that all investment managers seek best execution for all trades ordered on behalf of the System. Equity managers are encouraged to direct a designated percentage of their brokerage activity to an approved list of brokers. Fixed income managers are encouraged to direct primary trading activity wherever there is an opportunity to recapture a portion of the syndication costs for the System.

## M anager Evaluation

Managers of portfolios are evaluated periodically against predetermined benchmarks such as an appropriate market index or a comparable peer group. All managers are required to make formal reports to HMEPS of their activities and performance according to standards set forth in the Statement. In addition, System personnel and professional consultants engaged by the Board monitor, pursuant to instructions by the Board, managers' performance and conformity with their guidelines and objectives.

TABLE I

| Asset Class | Allocation |  | Investment Performance |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Target | Actual | 3 Yrs. | 5 Yrs. | $10 \mathrm{Yrs}$. |
| Domestic Equity | 30.0 \% | 32.6 \% | 10.74 \% | 3.03 \% | 10.38 \% |
| Wilshire Top 2500 Index |  |  | 9.44 | - 1.59 | 10.01 |
| S\&P 500 Index |  |  | 8.27 | -2.37 | 9.94 |
| International Equity | 20.0 | 21.4 | 13.58 | - I. 04 | 7.21 |
| MSCI All Country Free Ex-US Index |  |  | 14.08 | 0.76 | 5.82 |
| MSCI EAFE Index |  |  | 12.51 | -0.18 | 5.56 |
| Fixed Income | 20.0 | 16.0 | 8.97 | 6.26 | 6.90 |
| Lehman Aggregate Index |  |  | 5.76 | 7.41 | 6.83 |
| Merrill Lynch High Yield Master II Index |  |  | 14.17 | 7.09 | 7.06 |
| Real Assets | 15.0 | 14.7 | 16.85 | 16.18 | 11.08 |
| NCREIF Index |  |  | 12.08 | 10.63 | 11.37 |
| Alternative Investments | 15.0 | 14.4 | 9.50 | -2.11 | 6.64 |
| S\&P 500 Index |  |  | 8.27 | -2.37 | 9.94 |
| Cash | 0.0 | 0.9 |  |  |  |
| Total Portfolio |  |  | 11.83 | 4.53 | 9.40 |
| Policy Benchmark |  |  | 10.71 | 3.09 | 9.29 |

## Performance Evaluation

The Board reviews System investment performance on a periodic basis to evaluate conformity to the goals and objectives established in the strategic plan. The Board recognizes that financial markets from time to time may not support attainment of those goals and objectives. During such times, progress toward conformity is evaluated by comparing performance to a percentage equal to the weighted average of the performances of indexes and peer groups comparable in class and weight to the styles in the System's investment portfolio.

Investment results were calculated using a time-weighted rate of return based on the market rate of return, which is not materially different from the AIMR Performance Presentation Standards.

## Proxy Voting

The Board authorizes each investment manager to vote all proxies relating to shares of securities under management, and requires each Investment Manager to provide a written proxy voting policy statement. Each manager is expected to promptly vote all proxies and related actions in a manner consistent with the long-term interests of the System and its participants and beneficiaries. Each investment manager is required to keep detailed records of all voting of proxies and related actions and to comply with all related regulatory obligations. The System's management staff periodically review each investment manager's policies and actions in respect to proxy voting.

## Investment Activities

During the period covered by this CAFR, investment strategies were employed that are long-term in perspective and designed to work within predefined ranges among asset classes to produce returns that, over market cycles, will exceed the investment return assumption adopted by the Board for actuarial purposes. Diversification provides safeguards against unanticipated market volatility of one or more asset classes. The Chief Investment Officer, Neal Wallach, has provided a summary in the above table (Table 1) of the portfolio's actual allocation compared to the targeted allocation.

To facilitate execution of the strategic investment plan, the System engages the services of a master custodian which utilizes a multi-currency reporting system that reports investments at fair value stated in terms of the base currency, the US dollar.

## SCHEDULE OF TOP INVESTMENTS

Professional portfolio managers that specialize in a targeted asset class are engaged to perform investment activities within specified guidelines. A nationally recognized institutional investment consulting firm is engaged to provide expert advice to the System in matters pertaining to perceived market conditions and prognosis, portfolio manager selection, and performance measurement and evaluation.

The schedules in this section of this CAFR display information that pertains to the System's investing activities.

The Investment Section was written by HMEPS' Chief Investment Officer, Neal Wallach; Investment Manager, Douglas Wynkoop; and Financial Analyst, Greg Brunt.

SCHEDULE OF TOP INVESTMENTS (\$000) AS OF JUNE 30, 2005*

| Name of Investment | Fair Value of <br> Investment | Percent of <br> Portfolio |
| :--- | :---: | :---: |
| Barclays Alpha Tilts International (Enhanced MSCI ACW xUS Index) | $\$ 113,908,690$ | $7.5 \%$ |
| Barclays Alpha Tilts (Enhanced S\&P 500 Index) | $\$ 102,925,968$ | $6.8 \%$ |
| Barclays US Bond Index (Lehman Aggregate Index) | $\$ 62,793,588$ | $4.2 \%$ |
| Blackrock Energy and Natural Resources Fund | $\$ 54, I 71,397$ | $3.6 \%$ |
| PIMCO Stocks Plus (Enhanced S\&P 500 Index) | $\$ 48,606,579$ | $3.2 \%$ |

Hotel Note
City of Houston Convention Center Hotel Note
\$ 316,362,500

* A complete list of the System's holdings is available at the System's office by appointment upon request.

PERFORMANCE BY FISCAL YEAR LAST TEN YEARS


COMPARISON OF INVESTMENT RETURNS - YEARS ENDED JUNE 30
(calculated based on a time-weighted rate of return based on the market rate of return)


SCHEDULE OF FEES AND COMMISSIONS PAID IN FISCAL YEAR 2005

|  | Commissions | Shares | cents/share |
| :---: | :---: | :---: | :---: |
| Citigroup | \$188,695 | 16,210,308 | 1.2 |
| Donaldson | 162,715 | 2,692,38I | 6.0 |
| UBS AG | 133,637 | 8,624,485 | 1.5 |
| Cantor Fitzgerald | 118,94 I | 3,753,193 | 3.2 |
| Lehman Brothers | 104,260 | 6,750,292 | 1.5 |
| Merrill Lynch | 88,026 | 5,431,109 | 1.6 |
| Deutsche Bank | 69,728 | 3,847,697 | 1.8 |
| Credit Suisse First Boston | 51,910 | 2,183,554 | 2.4 |
| Goldman Sachs | 48,505 | 1,441,046 | 3.4 |
| JP Morgan Securities | 39,782 | 4,806,215 | 0.8 |
| ABN Amro | 38,362 | 1,322,100 | 2.9 |
| Morgan Stanley | 36,375 | 1,946,156 | 1.9 |
| Lynch Jones and Ryan | 28,629 | 693,450 | 4.1 |
| Charles Schwab | 28,367 | 907,725 | 3.1 |
| Instinet | 28,050 | 636,091 | 4.4 |
| Bear Stearns | 26,697 | 480,731 | 5.6 |
| Warburg Dillon Read (Asia) | 23,683 | 3,686,335 | 0.6 |
| Dresdner Bank | 21,768 | 743,084 | 2.9 |
| Moors \& Cabot | 16,757 | 320,900 | 5.2 |
| Friedman Billings \& Ramsey | 16,680 | 381,873 | 4.4 |
| Julius Baer Brokerage | 16,179 | 181,760 | 8.9 |
| Cazenove | 16,098 | 407,881 | 3.9 |
| Nomura | 15,407 | 2,061,001 | 0.7 |
| Carnegie Fond Kommission | 14,428 | 765,47I | 1.9 |
| Prudential Equity Group | 14,297 | 279,600 | 5.1 |
| Auerbach Grayson | 13,073 | 519,711 | 2.5 |
| Pershing | 11,539 | 198,744 | 5.8 |
| CAPIS | 11,218 | 258,212 | 4.3 |
| KBC Asset Management Ltd | 11,194 | 547,017 | 2.0 |
| HSBC Bank DLC | 10,22 1 | 967,912 | 1.1 |
| Goodbody | 8,462 | 52,400 | 16.1 |
| TIR Securities | 8,095 | 2,573,235 | 0.3 |
| Lombard Odier \& Cie | 8,087 | 104,411 | 7.7 |
| The Benchmark Company | 7,906 | 457,700 | 1.7 |
| Harris Nesbitt | 7,856 | 135,693 | 5.8 |
| Boston Institutional Services | 7,365 | 182,400 | 4.0 |
| ESN North America | 7,120 | 128,900 | 5.5 |
| Salomon Smith Barney | 6,511 | 1,024,782 | 0.6 |
| Sanford C. Bernstein | 6,414 | 106,140 | 6.0 |
| MacQuarie Equity | 6,364 | 723,075 | 0.9 |
| Mizuho Corp Bank | 6,262 | 170,744 | 3.7 |
| Kleinwort Benson Securities | 6,179 | 168,991 | 3.7 |
| Credit Lyonnais Securities | 6,087 | 900,441 | 0.7 |
| Abel Noser | 6,052 | 147,950 | 4.1 |
| BNP Paribas | 5,936 | I,079,100 | 0.6 |


|  | Commissions | Shares | cents/share |
| :---: | :---: | :---: | :---: |
| Daiwa Securities America | 5,915 | 217,883 | 2.7 |
| Societe Generale London Branch | 5,908 | 164,363 | 3.6 |
| Keefe Bruyette \& Woods | 5,878 | 108,100 | 5.4 |
| E Trade | 5,614 | 1,628,800 | 0.3 |
| ABG Securities | 5,594 | 243,000 | 2.3 |
| Jefferies | 5,54I | 173,600 | 3.2 |
| Wachovia Securities | 5,269 | 190,542 | 2.8 |
| Oddo and Cie | 5,266 | 81,262 | 6.5 |
| SG Cowen | 4,892 | 94,834 | 5.2 |
| Fox Pitt Kelton | 4,667 | 148,222 | 3.1 |
| Investment Technology Group | 4,618 | 389,927 | 1.2 |
| National Financial Services | 4,547 | 132,650 | 3.4 |
| Weeden | 4,304 | 97,649 | 4.4 |
| Enskilda Securities | 4,268 | 306,947 | 1.4 |
| Broadcort Capital | 4,170 | 86,900 | 4.8 |
| Banc/America Securities | 4,028 | 223,500 | 1.8 |
| Bank of New York | 3,926 | 123,938 | 3.2 |
| Exane Geneve | 3,804 | 46,557 | 8.2 |
| Peel Hunt | 3,694 | 75,667 | 4.9 |
| Westiminster Research Association | 3,608 | 71,300 | 5.1 |
| Dongwon Securities | 3,594 | 44,320 | 8.1 |
| Rabo Securities NV | 3,589 | 61,700 | 5.8 |
| National Bank of Greece SA | 3,372 | 23,680 | 14.2 |
| Nordic Partners | 3,322 | 139,100 | 2.4 |
| Legg Mason | 3,275 | 69,900 | 4.7 |
| Collins Stewart | 3,191 | 92,419 | 3.5 |
| Landebergthalman | 3,057 | 54,100 | 5.7 |
| Institutional Direct | 2,856 | 56,400 | 5.1 |
| Pictet and Cie/Pictet Securities AG | 2,804 | 22,920 | 12.2 |
| GK Goh | 2,766 | 634,614 | 0.4 |
| Davy Stockbrokers | 2,654 | 65,330 | 4.1 |
| Pacific Growth Equities | 2,563 | 151,550 | 1.7 |
| Handelsbanken | 2,370 | 150,100 | 1.6 |
| Gerson Lehrman Group | 2,303 | 56,300 | 4.1 |
| TD Securities | 2,24I | 55,500 | 4.0 |
| CIBC World Markets | 2,209 | 51,800 | 4.3 |
| Raymond James | 2,194 | 45,500 | 4.8 |
| Guzman | 2,185 | 53,600 | 4.1 |
| Kempen | 2,162 | 21,300 | 10.1 |
| Needham | 2,116 | 43,588 | 4.9 |
| Evolution | 2,091 | 81,600 | 2.6 |
| Baird, Robert W. | 2,053 | 47,900 | 4.3 |
| Others | 67,199 | 6,243,431 | I. 1 |
| TOTAL | \$1,731,600 | 93,874,289 | 1.8 |



ACTUARY'S LETTER TO THE BOARD OF TRUSTEES ACTUARIAL CERTIFICATION EXECUTIVE SUMMARY ASSET INFORMATION

FUNDING INFORMATION CONTRIBUTION INFORMATION PARTICIPANT INFORMATION INVESTMENT RETURN INFORMATION SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS CHANGES IN ASSUMPTIONS AND METHODS SINCE THE PRIOR VALUATION SUMMARY OF PLAN PROVISIONS

## G abriel, Roeder, Smith \& C ompany

August 30, 2005

Board of Trustees
Houston Municipal Employees Pension System

Dear Members of the Board:

## Subject: Actuarial Valuation as of July 1, 2004

This report describes the current actuarial condition of the Houston Municipal Employees Pension System (HMEPS), determines the calculated employer contribution rate, and analyzes changes in this contribution rate. Valuations are prepared annually, as of July 1 , the first day of the HMEPS plan year.

Under the HMEPS statute, the employer contribution rate is determined actuarially, based on the Board's funding policy and HMEPS' governing law. The contribution rate determined by a given actuarial valuation and implemented by the Board becomes effective twelve months after the valuation date, i.e., the rates determined by this July 1, 2004 actuarial valuation would normally be used by the Board when determining the employer contribution rate for the year beginning July 1, 2005 and ending June 30, 2006.

However, under the terms of the "Meet and Confer" agreement between the Board and the City of Houston, the employer contribution rates for FY2006 and FY2007 have already been set at $16.33 \%$ and $16.65 \%$ respectively. The calculated contribution rate from this valuation will not be contributed.

Also, as part of the "Meet and Confer" agreement, a pension obligation note (collateral for the note is provided by the City's interest in a City-owned hotel) of $\$ 300$ million was contributed by the City to the pension trust as of November 2004. This contribution is not reflected in this valuation.

## Benefit Provisions

The benefit provisions reflected in this valuation are those which were in effect on July 1, 2004, as later modified by the "Meet and Confer" agreement. The agreement between the City and the Board changed the benefit provisions substantially, effective January 1, 2005. The changes are discussed in the Benefit Provisions subsection of the Discussion section of the report. The following is a summary of the changes made in the agreement:

For All Members:

- Return to Pre-2001 formula for accruals on and after January 1, 2005
- $5 \%$ Employee contributions for members in Group A
- Change to the guaranteed COLAs from $4 \%$ to $3 \%$
- Change DROP interest crediting rate to be half of the return earned by the fund for the prior fiscal year, but not less than 2.5\% or more than 7.5\%
- Freeze DROP recalculation of Final Average Salary as later of January 1, 2005 or DROP entry date
- Employee Contributions while in DROP will no longer be credited to the employee DROP balance
- Eliminate Back DROP
- Conversion of previous Group B service to Group A service will be made at an actuarially equivalent purchase price

For members with less than 68 points (age + service) as of January 1, 2005:

- Rule of 75 with minimum age 50 retirement eligibility

The benefit provisions are summarized in Appendix B.

## Assumptions and M ethods

Actuarial assumptions and methods are set by the Board of Trustees, based upon recommendations made by the plan's actuary. The assumptions used in this valuation have been modified since the previous valuation. The assumptions used in the valuation were adopted by the Board based on our recommendations following an Experience Analysis performed for the five year period ending July 1, 2004. The changes are discussed in the Actuarial Methods and Assumptions subsection of the Discussion section of the report.

Changes in the assumptions include:

- Change the salary increase rates by modifying the service-based components. The overall impact is to modestly increase assumed salary increase rates for most employees.
- Increase the rates of mortality for healthy retirees and beneficiaries to UP94 mortality table for males and females with a one year set-forward.
- Decrease the rates of mortality for disabled retirees.
- Decrease the rates of disability for active employees.
- Increase the rates of retirement for both males and females, specifically at the younger ages.
- Decrease the rates of termination for both males and females.
- Lower the percentage of current Group B members assumed to transfer to Group A to 20\%.
- Eliminate the Group B to Group A service conversion assumption.
- Increase the percent married assumption to $70 \%$.

The results of the actuarial valuation are dependent on the actuarial assumptions used. Actual results can and almost certainly will differ, as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities, calculated contribution rates and funding periods. The actuarial calculations are intended to provide information for rational decision making.

The actuarial assumptions and methods used in this report comply with the parameters for disclosure that appear in GASB 25.

All assumptions and methods are described in Appendix A.

## Financing 0 bjectives and Funding Policy

The amortization period is set by the Board in accordance with the Meet and Confer Agreement. The contribution rate and liabilities are computed using the Entry Age actuarial cost method. The employer contribution rate is the sum of two pieces: the employer normal cost rate and the amortization rate. The normal cost rate is determined as a percent of pay. The employer normal cost is the difference between this and the weighted member contribution rate. The amortization rate is determined as a level percent of pay. It is the amount required to amortize the unfunded actuarial accrued liability over an open period ( 30 years as of July 1, 2004). The amortization rate is adjusted for the one-year deferral in contribution rates.

## Progress Toward Realization of Financing 0 bjectives

The changes in the assumptions and benefit provisions dramatically changed the current funded status and funding requirements of HMEPS. Because of the changes, the valuation results of the July 1, 2003 and the July 1, 2004 valuations are considerably different.

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) is a standard measure of a plan's funded status. In the absence of benefit improvements, it should increase over time, until it reaches $100 \%$. The funded ratio as of July 1, 2004 is $57.0 \%$. This is higher than the $46.1 \%$ from the 2003 valuation. The major cause for this increase was the bene-
fit provision changes. The new assumptions and further recognition of prior years' investment performances over the last several years also impacted the funded status.

The calculated employer contribution rate for FY 2006 is $29.43 \%$. This rate is significantly lower than the $52.89 \%$ from the 2003 valuation. It should be noted that this number is expected to decrease further for the July 1, 2005 valuation after the contribution of the $\$ 300$ million pension obligation note is recognized.

## The information contained in Supplemental Information Schedule 1 and the $N$ totes to Required Supplemental Schedules 1 and 2 contained in the financial section of the Comprehensive Annual Financial Report was prepared by G abriel, Roeder, Smith \& Company. The information contained in Supplemental Information Schedules 2 through 5 was prepared by HM EPS staff.

## Data

Member data for retired, active and inactive members was supplied as of July 1,2004 by the HMEPS staff. We did not audit this data, but we did apply a number of tests to the data, and we concluded that it was reasonable and consistent with the prior year's data. Asset information as of July 1, 2004 was taken from the Comprehensive Annual Financial Report for the Year Ended June 30, 2004.

## Certification

We certify that the information presented herein is accurate and fairly portrays the actuarial position of HMEPS as of July I, 2004.
All of our work conforms with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion, our calculations also comply with the requirements of state law and, where applicable, the Internal Revenue Code, ERISA, and the Statements of the Governmental Accounting Standards Board. The undersigned are independent actuaries and consultants. Mr. Carter and Mr. Newton are Enrolled Actuaries and are also Members of the American Academy of Actuaries. All three of the undersigned are experienced in performing valuations for large public retirement systems.

Sincerely,
Gabriel, Roeder, Smith \& Company


Joe Newton, ASA, EA, MAAA
Consultant


Lewis Ward
Consultant

W. Michael Carter, FSA, EA, MAAA Senior Consultant

## EXECUTIVE SUMMARY

## Membership

- Number of:
- Active members II,856

12,120

- Retirees and beneficiaries

6,878

- Inactive members
- Total

3,477
22,211

| 2,950 |
| ---: |
| 21,285 |

- Annualized Payroll supplied by HMEPS
\$ 366, 190
\$ 390,314


## Calculated Contribution rates

| - Member (weighted)* | $3.79 \%$ | $3.68 \%$ |
| :--- | ---: | ---: |
| - Employer | $29.43 \%$ | $52.89 \%$ |

Assets

- Market value
- Actuarial value

| $\$ I, 4 I 8,725$ | $\$ 1,266,190$ |
| ---: | ---: |
| $I, 50 I, 235$ | $1,5 I 0,264$ |
| $18.1 \%$ | $2.3 \%$ |
| $4.2 \%$ | $1.7 \%$ |
| 57,308 | $\$ 40,622$ |
| $105.8 \%$ | $I I 9.3 \%$ |

Actuarial Information

| - Employer normal cost \% | $8.53 \%$ | $16.48 \%$ |
| :--- | ---: | ---: |
| - Unamortized actuarial accrued liability (UAAL) | $\$ \mathrm{I}, \mathrm{I} 32,582$ | $\$ \mathrm{I}, 767,987$ |
| - Amortization rate | $20.90 \%$ | $36.41 \%$ |
| - Funding period | 30.0 years | 19.5 years |
| - GASB funded ratio | $57.0 \%$ | $46.1 \%$ |

Projected employer contribution based on calculated rate

| - Fiscal year ending June 30, | 2006 | 2005 |
| :--- | ---: | ---: |
| - Projected payroll (millions) | $\$ 390.5$ | $\$ 403.5$ |
| - Projected employer contribution (millions) | $\$ 114.9$ | $\$ 213.4$ |
| (actual contribution rate set by Meet \& Confer) |  |  |

Note: Dollar amounts in \$000, unless otherwise noted

* Employee contribution rate for contributing members is 4\% prior to January I, 2005 and 5\% thereafter


## STATEMENT OF PLAN NET ASSETS

$$
\text { July I, } 2004
$$

A. ASSETS
I. Current Assets
a. Cash and short term investments
I) Cash on hand
\$ 2,691
2) Short term investments

53,978
b. Accounts Receivable
I) Sale of investments 7,496
2) Other $\quad 18,310$
c. Total Current Assets \$82,475
2. Long Term Investments
a. US. Government securities $\$ 88,750$
b. Corporate bonds 100,820
c. Capital stocks 552,420
d. Commingled Funds 291,694
e. LP's, real estate mortgages
f. Total long term investments

350,343
3. Other Assets
a. Collateral on securities lending \$ 109,440
b. Furniture, fixtures and equipment, net $\quad 796$
c. Total other assets
4. Total Assets
$\frac{\$ 110,236}{1576,738}$
B. LIABILITIES
I. Current Liabilities
a. Amounts due on asset purchases \$45,570
b. Accrued liabilities 3,003
c. Collateral on securities lending $\quad 109,440$
2. Total Liabilities
3. Net Assets Held in Trust
\$ I,418,725
C.ASSET ALLOCATION FOR CASH \& LONG TERM INVESTMENTS
I. Cash 5.6 \%
2. Fixed Income $\quad 12.9$ \%
3. Real Estate Mortgages $\quad 23.9$ \%
4. Equities $\quad 37.7$ \%
5. Commingled Funds $\quad 19.9 \%$
6. Total
$100.0 \%$

Note: Dollar amounts in $\$ 000$

## RECONCILIATION OF PLAN NET ASSETS

Year Beginning July I, 2004
(I)
I. Market value of assets at beginning of year
2. Revenue for the year
a. Contributions
i. Member contributions
\$ 26,189
ii. Employer contributions
iii. Total

57,308
\$ 83,497
b. Net investment income
i. Interest \$9,514
ii. Dividends $\quad 15,134$
iii. Earnings from LP's and real estate trusts 19,464
iv. Net appreciation (depreciation) on investments 189,465
v. Net proceeds from lending securities 352
vi. Less investment expenses $\quad(6,568)$
vii. Other
c. Total revenue
3. Expenditures for the year
a. Refunds \$635
b. Benefit payments 153,202
c. Administrative and miscellaneous expenses
d. Total expenditures
4. Increase in net assets (Item 2d - Item 3d)
5. Market value of assets at end of year (Item I + Item 4)

Note: Dollar amounts in \$000

## CALCULATION OF EXCESS INVESTMENT INCOME

| Item | Year Ending June 30, 2004 |
| :---: | :---: |
| (1) | (2) |
| I. Market value of assets at beginning of year | \$ 1,266,190 |
| 2. Net external cash flow during the year | $(70,340)$ |
| 3. Market value of assets at end of year | 1,418,725 |
| 4.Actual investment income during the year based on market value: (3) - (2) - (1) | \$ 222,875 |
| 5. Assumed earnings rate | 8.50 \% |
| 6. Expected earnings for the year |  |
| a. Market value of assets at beginning of year: | 107,626 |
| b. Net external cash flow: | $(2,928)$ |
| c. Total: (a) + (b) | 104,698 |
| 7. Excess investment income for the year: (4) - (6) | \$ 118,177 |
| Note: Dollar amounts in \$000 |  |
| DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS |  |
|  | July I, 2004 <br> (I) |
| I. Excess (Shortfall) of invested income for current and previous three years |  |
| a. Current year | \$ 118,177 |
| b. Current year - I | $(77,263)$ |
| c. Current year - 2 | $(230,096)$ |
| d. Current year - 3 | 193,278 |
| e. Total for four years | \$ $(382,459)$ |
| 2. Deferral of excess (shortfall) of invested income |  |
| a. Current year (80\%) | 94,542 |
| b. Current year - I (60\%) | $(46,358)$ |
| c. Current year - 2 (40\%) | $(92,038)$ |
| d. Current year - 3 (20\%) | $(38,656)$ |
| e. Total deferred for year | \$ (82,5I0) |
| 3. Market value of assets at end of year | \$ 1,418,725 |
| 4.Actuarial value of assets at end of year: (3)-(2e) | \$ 1,501,235 |

Note: Dollar amounts in \$000

## ACTUARIAL PRESENTVALUE OF FUTURE BENEFITS

I. Active members
a. Retirement benefits
\$ I,4I4,343
b. Deferred termination benefits
82,601
c. Refunds
16,686
d. Death benefits
49,858
e. Disability benefits
f. Total
23,507
\$ 1,586,995
2. Members in Pay Status
a. Service retirements
\$ I,132,649
b. Disability retirements

40,960
c. Beneficiaries
d. Total

93,509
$\$ 1,267,118$
4. Inactive members
a. Vested terminations \$ 85,468
b. Nonvested terminations
c. Total
5. Total actuarial present value of future benefits \$ 2,942, I52

Note: Dollar amounts in \$000

## CALCULATION OF TOTAL ACTUARIAL GAIN OR LOSS

I. Unfunded actuarial accrued liability (UAAL) as of July I, 2003
2. Benefit Changes
3. Revised UAAL as of July I, $2003(1+2)$
4. Total normal cost for year
5. Contributions during year ending June 30, 2004
6. Interest on UAAL for one year
7. Interest on Item 4 and Item 5 for one-half year
8. Expected UAAL as of July I, $2004(3+4+5+6+7)$
9. Actual UAAL as of July I, 2004
10. Actuarial gain/(loss) for the period $(8-9)$

## SOURCE OF GAINS/(LOSSES)

II. Asset gain/(loss) (See Table II)
12. Assumption changes
13. Total liability gain/(loss) for the period (I0-II-|2)
\$ 1,767,987
$(709,944)$
\$ $1,058,043$
44, I70
$(83,497)$
89,934
$(1,637)$
\$ $1,107,012$
\$ I, 132,582
\$ $(25,570)$
\$ $(64,132)$
$(9,974)$
\$ 48,536

Note: Dollar amounts in \$000
NEAR TERM OUTLOOK


* These projections are based on the benefit provisions in effect for the July I, 2004 actuarial valuation with no expected changes to future accruals. Also, beginning in FY2007, the calculated rates shown above are assumed to be paid beginning the year after the valuation. Any changes to future accruals or failure to contribute the calculated rate will change the results of this projection.
I. The agreement between the City and the HMEPS included a $15.33 \%$ employer contribution rate for FY 2005 and the contribution of a pension obligation note from the City to HMEPS valued at approximately $\$ 300$ million as of November 2004.

2. The agreement between the City and the HMEPS included a $16.33 \%$ employer contribution rate for FY 2006 and $16.65 \%$ for FY 2007 .
3. The agreement between the City and the HMEPS included an open 30 year amortization period until the 2009 valuation. Beginning with the 2009 valuation,
Note: Dollar amounts in $\$ 000$
MVA represents the Market Value of Assets

## ANALYSIS OF NORMAL COST

$\frac{\text { July I, } 2004}{(\mathrm{I})} \quad \frac{\text { July I, } 2003}{(2)}$
I. Gross normal cost rate

| a. Retirement benefits | $8.93 \%$ | $16.00 \%$ |
| :--- | ---: | ---: |
| b. Deferred termination benefits | $1.57 \%$ | $2.18 \%$ |
| c. Refunds | $0.69 \%$ | $0.78 \%$ |
| d. Disability benefits | $0.51 \%$ | $0.51 \%$ |
| e. Death benefits | $0.62 \%$ | $0.69 \%$ |
|  | $12.32 \%$ | $20.16 \%$ |

2. Less: member contribution rate
a. Present Value of Employee Contributions
\$ 92,888
\$ 97,131
\$ 2,453,402
\$ 2,637,853
c. Effective member contribution rate ( $2 \mathrm{a} / 2 \mathrm{~b}$ )
(3.79\%)
(3.68\%)
3. Employer normal cost rate (Item If - Item 2c)
8.53\%
16.48\%

## Note: Dollar amount in $\$ 000$

## CHANGE IN CALCULATED CONTRIBUTION RATE SINCE THE PRIOR VALUATION

I. Calculated Contribution Rate as of July I, 2003
2. Benefit Changes
4. Revised July I, 2003 Calculated Rate
5. Change in Contribution Rate During Year
a. Change in Employer Normal Cost
0.14\% I.60\%
b. Assumption changes
c. Recognition of prior asset losses (gains) I.44\%
d. Actuarial (gain) loss from current year asset performance
e. Actuarial (gain) loss from liability sources
f. Impact of City contributing less than actual cost of plan 0.58\%
g. Effect of Payroll not growing at Payroll Growth Rate
I.27\%
h. Total Change
6. Calculated Rate as of July I, 2004
29.43\%

## CALCULATION OF ANNUAL REQUIRED CONTRIBUTION RATE

|  | July I, 2004 | July I, 2003 |
| :---: | :---: | :---: |
|  | (1) | (2) |
| I. Covered payroll | \$ 366, 190 | \$ 390,314 |
| 2. Covered payroll adjusted for one-year's pay increase | \$ 379,095 | \$ 403,548 |
| 3. Present value of future pay | \$ 2,453,402 | \$ 2,637,853 |
| 4. Normal cost rate |  |  |
| a. Total normal cost rate | 12.32\% | 20.16\% |
| b. Less: member contribution rate (weighted) | (3.79\%) | (3.68\%) |
| c. Employer normal cost rate | 8.53\% | 16.48\% |
| 5. Actuarial accrued liability for active members |  |  |
| a. Present value of future benefits for active members | \$ 1,586,995 | \$ 2,797,7II |
| b. Less: present value of future normal costs | $(292,750)$ | $(520,854)$ |
| c. Service Purchase Receivable ' | $(15,584)$ | $(114,406)$ |
| d. Actuarial accrued liability | $\overline{\$ 1,278,660}$ | \$ 2,162,450 |

6. Total actuarial accrued liability for:
a. Retirees and beneficiaries
$\begin{array}{r}\$ 1,267, I I 8 \\ 88,039 \\ 1,278,660 \\ \hline \$ 2,633,8 I 7\end{array}$
\$ $1,036,757$
b. Inactive members
c. Active members (Item 5d)
d. Total
\$ I,50I,235
\$ I,5I0,264
7. Actuarial value of assets
79,044

| $2,162,450$ |
| ---: |
| $\$ 3,278,25 I$ |

\$ I,132,582
\$ 1,767,987
9. Funding period

30 years
19.5 years
10. Assumed payroll growth rate
3.00\%
3.00\%
II. Employer Contribution requirement
a. UAAL amortization payment as \% of pay

| $20.90 \%$ | $36.41 \%$ |
| ---: | ---: |
| $8.53 \%$ |  |
| $29.43 \%$ | $16.48 \%$ |
|  | $52.89 \%$ |

b. Employer normal cost
c. Contribution requirement $(\mathrm{a}+\mathrm{b})$
29.43\%
8. Unfunded actuarial accrued liability (UAAL) (Item 6d - Item 7) \$ I, I 32,582

Note: Dollar amounts in $\$ 000$
I For both years, includes actual current receivable for actives who have entered into an obligation. For 2003, also includes assumed price for converting B service to A service for (i) $80 \%$ of current group B actives and (ii) all Group A members with convertible $B$ service
HISTORICAL SOLVENCY TEST


SCHEDULE OF FUNDING PROGRESS

| Date | Unfunded Actuarial |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Actuarial Value of Assets (AVA) | Actuarial Accrued Liability (AAL) | Accrued Liability (UAAL) (3) - (2) | Funded Ratio (2)/(3) | Annual Payroll | UAAL as \% of Payroll (4)/(6) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| July I, 1992 | \$ 608,524 | 765,299 | \$ 156,775 | 79.5\% | \$ 314,686 | 49.8\% |
| July I, 1993 | 660,637 | 840,321 | 179,684 | 78.6\% | 340,249 | 52.8\% |
| July I, 1994 | 713,696 | 886,699 | 173,003 | 80.5\% | 366,561 | 47.2\% |
| July I, 1995 | 770,189 | 963,712 | 193,523 | 79.9\% | 378,511 | 51.1\% |
| July I, 1996 | 857,332 | 1,042,459 | 185,127 | 82.2\% | 367,610 | 50.4\% |
| July I, 1998 | 1,095,617 | I,240,14 I | 144,524 | 88.3\% | 397,698 | 36.3\% |
| July I, 1999 | 1,222,240 | 1,339,933 | 117,693 | 91.2\% | 407,733 | 28.9\% |
| July I, 2000 | 1,376,020 | I,509,373 | 133,353 | 91.2\% | 432,604 | 30.8\% |
| July I, 2001 | 1,490,179 | 1,955,806 | 465,627 | 76.2\% | 418,234 | I II.3\% |
| July I, 2002 | 1,519,717 | 2,515,189 | 995,472 | 60.4\% | 399,794 | 249.0\% |
| July I, 2003 | 1,510,264 | 3,278,25 I | 1,767,987 | 46.1\% | 390,314 | 453.0\% |
| July I, 2004 | I,501,235 | 2,633,817 | I, 132,582 | 57.0\% | 366,190 | 309.3\% |

Note: Dollar amounts in $\$ 000$

## HISTORICAL CITY CONTRIBUTIONS

$\left.\begin{array}{cccc} & \begin{array}{c}\text { Calculated } \\ \text { Contribution } \\ \text { Rate* }\end{array} & (2) & \text { Time Period for Contribution }\end{array} \quad \begin{array}{c}\text { Actual } \\ \text { Contribution } \\ \text { Rate }\end{array}\right]$

[^2]DISTRIBUTION OF ACTIVE MEMBERS BY AGE AND BY YEARS OF SERVICE CONTRIBUTORY PLAN

|  | 0 | 1 | 2 | 3 | 4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 \& Over | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained | No. \& Avg. | No. \& Avg | No. \& Avg | No. \& Avg | No. \& Avg. | No. \& Avg. | No. \& Avg. | No. \& Avg. | No. \& Avg. | No. \& Avg. | No. \& Avg. | No. \& Avg. | No. \& Avg |
| Age | Comp. | Comp. | Comp. | Comp. | Comp. | Comp. | Comp. | Comp. | Comp. | Comp. | Comp. | Comp. | Comp. |


| Under 25 | 130 | 71 | 44 | 38 | 9 | 1 |  |  |  |  |  |  | 293 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \$9,547 | \$20,815 | \$19,892 | \$19,726 | \$20,361 | \$20,013 |  |  |  |  |  |  | \$15,519 |
| 25-29 | 185 | 100 | 75 | 78 | 53 | 39 | 2 |  |  |  |  |  | 532 |
|  | \$12,215 | \$25,940 | \$24,170 | \$24,449 | \$22,711 | \$25,124 | \$33,870 |  |  |  |  |  | \$20,347 |
| 30-34 | 174 | 102 | 92 | 102 | 61 | 110 | 50 | 1 |  |  |  |  | 692 |
|  | \$12,944 | \$27,828 | \$28,799 | \$26,399 | \$27,328 | \$30,343 | \$28,607 | \$29,749 |  |  |  |  | \$24,419 |
| 35-39 | 152 | 76 | 83 | 96 | 80 | 172 | 177 | 52 |  |  |  |  | 888 |
|  | \$12,475 | \$28,404 | \$31,740 | \$27,127 | \$29,865 | \$31,738 | \$33,062 | \$32,998 |  |  |  |  | \$27,826 |
| 40-44 | 147 | 110 | 92 | 115 | 83 | 225 | 243 | 164 | 159 | 7 |  |  | 1,345 |
|  | \$13,443 | \$29,484 | \$29,916 | \$26,993 | \$31,854 | \$33,897 | \$34,911 | \$34,600 | \$33,773 | \$30,618 |  |  | \$30,549 |
| 45-49 | 125 | 84 | 63 | 102 | 68 | 227 | 265 | 223 | 297 | 105 |  |  | 1,559 |
|  | \$12,933 | \$33,367 | \$30,467 | \$27,909 | \$28,246 | \$35,166 | \$39,155 | \$39,278 | \$36,773 | \$34,518 |  |  | \$33,849 |
| 50-54 | 105 | 81 | 50 | 70 | 60 | 206 | 281 | 179 | 184 | 112 | 28 | 1 | 1,357 |
|  | \$15,175 | \$35,784 | \$36,151 | \$31,415 | \$32,470 | \$38,414 | \$39,292 | \$40,621 | \$36,406 | \$42,401 | \$39,520 | \$51,329 | \$36,314 |
| 55-59 | 55 | 49 | 29 | 65 | 51 | 178 | 205 | 133 | 124 | 69 | 29 | 4 | 991 |
|  | \$17,501 | \$32,872 | \$34,377 | \$31,910 | \$34,574 | \$37,718 | \$41,278 | \$43,207 | \$41,054 | \$40,073 | \$45,507 | \$37,531 | \$37,998 |
| 60-64 | 29 | 27 | 24 | 29 | 26 | 119 | 121 | 65 | 58 | 26 | 8 | 7 | 539 |
|  | \$11,939 | \$40,273 | \$33,595 | \$35,833 | \$29,547 | \$33,263 | \$38,563 | \$41,940 | \$39,878 | \$46,025 | \$47,983 | \$38,401 | \$36,290 |
| 65 \& Over | 6 | 9 | 8 | 8 | 5 | 39 | 33 | 21 | 13 | 8 | 4 | 7 | 161 |
|  | \$15,217 | \$38,973 | \$40,802 | \$40,816 | \$33,902 | \$36,709 | \$38,175 | \$43,502 | \$34,400 | \$40,755 | \$39,440 | \$43,815 | \$37,933 |
| Total | 1,112 | 709 | 560 | 703 | 496 | 1,316 | 1,377 | 838 | 835 | 327 | 69 | 19 | 8,361 |
|  | \$12,833 | \$29,707 | \$29,609 | \$27,800 | \$29,550 | \$34,516 | \$37,501 | \$39,185 | \$36,935 | \$39,374 | \$43,013 | \$40,893 | \$31,512 |
|  | Avera |  | Age: | 45.11 |  | Number of | icipants: | Fully ve |  |  | Males: | 4,685 |  |
|  |  |  | vice: | 9.57 |  |  |  | Not V |  |  | Females: | 3,676 |  |

DISTRIBUTION OF ACTIVE MEMBERS BY AGE AND BY YEARS OF SERVICE NONCONTRIBUTORY PLAN

| Attained Age | $\begin{gathered} 0 \\ \text { No. \& Avg. } \\ \text { Comp. } \\ \hline \end{gathered}$ | No. \& Avg. Comp. | $\begin{aligned} & \quad{ }^{2} \text {. No. Avg. } \\ & \text { Comp. } \end{aligned}$ | $\begin{gathered} 3 \\ \text { No. \& Avg. } \\ \text { Comp. } \\ \hline \end{gathered}$ | No. \& Avg. Comp. | 5-9 No. \& Avg. Comp. | 10-14 <br> No. \& Avg. Comp. | 15-19 <br> No. \& Avg. Comp. | 20-24 No. \& Avg. Comp. | $\begin{gathered} 25-29 \\ \text { No. \& Avg. } \\ \text { Comp. } \\ \hline \end{gathered}$ | 30-34 No. \& Avg. Comp. | 35 \& Over No. \& Avg. Comp. | Total No. \& Avg. Comp. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Under 25 |  |  |  |  | 1 | 6 |  |  |  |  |  |  | 7 |
|  |  |  |  |  | \$16,702 | \$22,046 |  |  |  |  |  |  | \$21,282 |
| 25-29 |  |  |  |  | 16 | 106 |  |  |  |  |  |  | 122 |
|  |  |  |  |  | \$23,443 | \$23,376 |  |  |  |  |  |  | \$23,385 |
| 30-34 |  |  |  |  | 16 | 234 | 87 | 3 |  |  |  |  | 340 |
|  |  |  |  |  | \$28,160 | \$25,140 | \$26,081 | \$26,073 |  |  |  |  | \$25,531 |
| 35-39 |  |  |  |  | 12 | 264 | 246 | 76 | 1 |  |  |  | 599 |
|  |  |  |  |  | \$24,937 | \$26,736 | \$28,447 | \$27,276 | \$22,803 |  |  |  | \$27,464 |
| 40-44 |  |  |  |  | 7 | 220 | 232 | 117 | 76 |  |  |  | 652 |
|  |  |  |  |  | \$32,919 | \$27,769 | \$30,644 | \$28,898 | \$29,254 |  |  |  | \$29,223 |
| 45-49 |  |  |  |  | 7 | 205 | 229 | 109 | 81 | 33 |  |  | 664 |
|  |  |  |  |  | \$23,198 | \$29,775 | \$31,103 | \$33,214 | \$30,447 | \$31,896 |  |  | \$30,916 |
| 50-54 |  |  |  |  | 1 | 172 | 177 | 93 | 56 | 21 | 4 |  | 524 |
|  |  |  |  |  | \$18,809 | \$29,301 | \$29,623 | \$31,999 | \$30,256 | \$32,247 | \$28,110 |  | \$30,080 |
| 55-59 |  |  |  |  | 6 | 101 | 121 | 66 | 51 | 9 | 1 | 2 | 357 |
|  |  |  |  |  | \$24,705 | \$33,014 | \$31,248 | \$34,015 | \$34,011 | \$44,954 | \$32,151 | \$30,81। | \$32,889 |
| 60-64 |  |  |  |  | I | 41 | 73 | 30 | 20 | 3 |  | 1 | 169 |
|  |  |  |  |  | \$15,111 | \$28,335 | \$33,486 | \$34,997 | \$34,108 | \$59,137 |  | \$29,579 | \$32,902 |
| 65 \& Over |  |  |  |  | I | 11 | 27 | 12 | 8 | 1 | 1 |  | 61 |
|  |  |  |  |  | \$39,731 | \$34,524 | \$27,275 | \$36,202 | \$35,393 | \$19,728 | \$45,564 |  | \$31,783 |
| Total |  |  |  |  | 68 | 1,360 | 1,192 | 506 | 293 | 67 | 6 | 3 | 3,495 |
|  |  |  |  |  | \$25,828 | \$27,706 | \$29,953 | \$31,340 | \$31,080 | \$34,798 | \$31,693 | \$30,400 | \$29,390 |
|  | Average |  | Age: | 45.03 |  | Number of participants: |  | Fully ves |  |  | Males: | 1,751 |  |
|  |  | Servis | vice: | 12.10 |  |  |  | Not Ves |  | 68 | Females: | 1,744 |  |

DISTRIBUTION OF ACTIVE MEMBERS BY AGE AND BY YEARS OF SERVICE ALL EMPLOYEES

|  | 0 | 1 | 2 | 3 | 4 | 5－9 | 10－14 | 15－19 | 20－24 | 25－29 | 30－34 | 35 \＆Over | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Attained | No．\＆Avg | No．\＆Avg． | No．\＆Avg | No．\＆Avg． | No．\＆Avg． | No．\＆Avg． | No．\＆Avg． | No．\＆Avg． | No．\＆Avg． | No．\＆Avg． | No．\＆Avg． | No．\＆Avg． | No．\＆Avg． |
| Age | Comp． | Comp． | Comp． | Comp． | Comp． | Comp． | Comp． | Comp． | Comp． | Comp． | Comp． | Comp． | Comp． |

300
$\$ 15,654$
654
$\$ 20,914$
1,032
$\$ 24,785$
1,487
$\$ 27,680$
1,997
$\$ 30,116$ 2,223
$\$ 32,973$

 ค $\$ 37,298 \quad \$ 35,48 \mathrm{I}$ 춦



 Males：
Females：
6,436
5,420 $\begin{array}{lll}\text { Number of participants：} & \text { Fully vested：} & 8,208 \\ & \text { Not Vested：} & 3,648\end{array}$ $\begin{array}{lll}\text { Number of participants：} & \text { Fully vested：} & 8,208 \\ & \text { Not Vested：} & 3,648\end{array}$
71
$\$ 20,815$
44
10
$\$ 19,995$
69
$\$ 22,881$
77
$\$ 27,501$
92
$\$ 29,222$
90
$\$ 31,937$
75
$\$ 27,775$
61
$\$ 32,247$
57
$\$ 33,536$
27
$\$ 29,012$
6
6


$$
7
$$

2
$\$ 33,870$
$\$ 33,870$
137
$\$ 27,003$
423
$\$ 30,378$
475
4
$\$ 26,992$

 $\$ 32,226$
332
$\$ 37,288$



 \＄40，848

 378
$\$ 35,417$ 240
$\$ 34,971$ 175
$\$ 39,001$
 $\underset{\sim}{\infty} \underset{\sim}{\infty}$
 $\$ 1$
38
726
78
449 チั ํㅇํㅇํ

$\$ 19,726$
$\$ 24,4$ \＄28，709 445
$\$ 30,867$ ${\underset{\sim}{*}}^{\sim}$ \＄32，608 378
$\$ 34,267$
 279
$\$ 36,015$ 091 오 둔 No资 15 응


$$
\begin{array}{r}
7 \\
1,755 \\
145
\end{array}
$$ $\$ 23,846$ 344

$\$ 26,804$ $\$ 26,80$
436
$\$ 28,709$ 000＇てを\＄


HISTORICAL ACTIVE PARTICIPANT DATA

| Valuation Date | Active Count | Average Age | Average Service | Covered Payroll | Average Salary | Percent Changes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (I) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1988 | 11,344 | N/A | N/A | \$227,900 | \$20,090 | I.9\% |
| 1989 | 11,356 | N/A | N/A | \$235,400 | \$20,729 | 3.2\% |
| 1990 | 12,037 | 40.0 | N/A | \$258,556 | \$21,480 | 3.6\% |
| 1991 | 12,488 | 40.3 | N/A | \$284,914 | \$22,815 | 6.2\% |
| 1992 | 12,913 | 40.5 | N/A | \$314,686 | \$24,370 | 6.8\% |
| 1993 | 13,112 | 40.9 | N/A | \$340,249 | \$25,949 | 6.5\% |
| 1994 | 14,027 | 40.9 | N/A | \$366,561 | \$26, I33 | 0.7\% |
| 1995 | 14,364 | 41.3 | N/A | \$378,511 | \$26,35 I | 0.8\% |
| 1996 | 14,067 | 41.8 | N/A | \$367,610 | \$26, 133 | (0.8\%) |
| 1998* | 13,764 | 42.8 | 9.8 | \$394,919 | \$28,692 | 9.8\% |
| 1999* | 13,286 | 42.9 | 9.8 | \$396,617 | \$29,852 | 4.0\% |
| 2000* | 13,126 | 43.7 | 10.3 | \$421,591 | \$32,119 | 7.6\% |
| 2001* | 12,928 | 43.9 | 10.3 | \$413,021 | \$31,948 | (0.5\%) |
| 2002 | 12,527 | 44.7 | 11.0 | \$399,794 | \$31,915 | (0.1\%) |
| 2003 | 12,120 | 45.2 | 11.2 | \$390,314 | \$32,204 | 0.9\% |
| 2004 | 1 1,856 | 45.1 | 10.3 | \$366, 190 | \$30,886 | (4.1\%) |

Note: Dollar amounts in \$000

* Excludes DROP participants


## RETIREES, BENEFICIARIES, AND DISABLED PARTICIPANTS ADDED TO AND REMOVED FROM ROLLS

|  | Added | Rolls | Remo | m Rolls | Rolls-E | of Year |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Valuation July I, | Number | Annual Allowances | Number | Annual Allowances | Number | Annual Allowances | \% Increase in Annual Allowances | Average <br> Annual <br> Allowances |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| 1994 | 306 | \$ 2,474 | 227 | \$ 1,593 | 4,268 | \$ 33,971 | 4.8\% | \$ 7,959 |
| 1995 | 393 | 3,044 | 220 | 1,307 | 4,44I | 36,482 | 7.4\% | 8,215 |
| 1996 | 416 | 3,119 | 239 | 1,438 | 4,618 | 38,815 | 6.4\% | 8,405 |
| 1998 | 693 | 5,840 | 441 | 3,212 | 4,870 | 43,394 | I 1.8\% | 8,910 |
| 1999 | 432 | 2,131 | 303 | 1,515 | 4,999 | 46,732 | 7.7\% | 9,348 |
| 2000 | 360 | 3,412 | 255 | 1,380 | 5,104 | 49,970 | 6.9\% | 9,790 |
| 2001 | 652 | 8,937 | 299 | 1,030 | 5,457 | 57,877 | 15.8\% | 10,606 |
| 2002 | 777 | 15,06\| | 306 | 2,476 | 5,928 | 72,256 | 24.8\% | 12,189 |
| 2003 | 598 | 1 1,497 | 311 | 1,873 | 6,215 | 84,519 | 17.0\% | 13,599 |
| 2004 | 942 | 25,189 | 279 | 2,624 | 6,878 | 107,084 | 26.7\% | 15,569 |

Note: Dollar amounts in \$000

## MEMBERSHIP DATA

July I, 2004
(I)
I. Active members
a. Number II,856
b. Number vested 8,208
c. Total payroll supplied by HMEPS \$ 366,189,957
d. Average salary

30,886
e. Average age
45.1
f. Average service 10.3
2. Inactive members (counts)
a. Vested 2,434
b. NonVested I,043
3. Service retirees
a. Number 4,952
b. Total annual benefits \$ 92,766,274
c. Average annual benefit 18,733
d. Average age 66.6
4. Disabled retirees
a. Number 495
b. Total annual benefits $\$ 3,832,094$
c. Average annual benefit 7,742
d. Average age 60.3
5. Beneficiaries and spouses
a. Number

I,43 I
b. Total annual benefits
c. Average annual benefit
\$ $10,485,436$
d. Average age 68.6

## ESTIMATION OF INVESTMENT RETURN

| Item | Market Value | Actuarial Value |
| :--- | ---: | ---: |
| $(\mathrm{I})$ | $(2)$ | $(3)$ |
| I. Assets as of July I, 2003 (A) | $\$ \mathrm{I}, 266,190$ | $\$ \mathrm{I}, 5 \mathrm{I} 0,264$ |
| 2. Contributions during FY04 | 83,497 | 83,497 |
| 3. Benefit payments made during FY04 | 153,202 | 153,202 |
| 4. Refunds of contributions during FY04 | 635 | 635 |
| 5. Expenses during FY04 | $5,2 I 2$ | $5,2 I 2$ |
| 6. Investment return during FY04 | 228,087 | 66,523 |
| 7. Assets as of July I, 2004 (B): $(I+2-3-4-5+6)$ | $I, 4 I 8,725$ | $I, 50 I, 235$ |
| 8. Approximate rate of return on average invested assets |  |  |
| a. Net investment income $(6-5=I)$ | 222,875 | $6 I, 3 I I$ |
| b. Estimated return based on $(2 I /(A+B-I))$ | $I 8.10 \%$ | $4.16 \%$ |

Note: Dollar amounts in \$000

INVESTMENT EXPERIENCE GAIN OR LOSS

| Item | Valuation as of July I, 2004 | Valuation as of July I, 2003 |
| :---: | :---: | :---: |
| (1) | (2) | (3) |
| I.Actuarial assets, prior valuation | \$ 1,510,264 | \$ 1,519,717 |
| 2. Total contributions since prior valuation | \$ 83,497 | \$ 64,384 |
| 3. Benefits and refunds since prior valuation | \$ (153,837) | \$ $(99,264)$ |
| 4. Assumed net investment income at 8.5\% |  |  |
| a. Beginning assets | \$ 128,372 | \$ 129,176 |
| b. Contributions | 3,476 | 2,681 |
| c. Benefits and refunds paid | $(6,405)$ | $(4,133)$ |
| d. Total | \$ 125,443 | \$ 127,724 |
| 5. Expected actuarial assets (Sum of Items I through 4) | \$ 1,565,367 | \$ 1,612,56I |
| 6. Actual actuarial assets, this valuation | \$ 1,501,235 | \$ 1,510,264 |
| 7.Asset gain (loss) since prior valuation (ltem 6 - Item 5) | \$ $(64,132)$ | \$ (102,297) |

Note: Dollar amounts in $\$ 000$

## HISTORY OF INVESTMENT RETURNS

| For Fiscal Year |  |  |
| :---: | :---: | :---: |
| Ending | Market Value | Actuarial Value |
| (1) | (2) | (3) |
| June 30, 2000 | 22.10 \% | 13.00 \% |
| June 30, 2001 | (4.56 \%) | 8.97 \% |
| June 30, 2002 | (7.99\%) | 3.64 \% |
| June 30, 2003 | 2.34 \% | 1.69 \% |
| June 30, 2004 | 18.10 \% | 4.16 \% |

## Summary of Actuarial Assumptions and Methods

The following methods and assumptions were adopted for the July 1, 2004, actuarial valuation.

## 1. Valuation Date

The valuation date is July 1st of each plan year. This is the date as of which the actuarial present value of future benefits and the actuarial value of assets are determined.

## 2. Actuarial C ost M ethod

The actuarial valuation uses the Entry Age Normal actuarial cost method. Under this method, the employer contribution rate is the sum of (i) the employer normal cost rate, and (ii) a rate that will amortize the unfunded actuarial liability.
a. The valuation is prepared on the projected benefit basis, under which the present value, at the investment return rate assumed to be earned in the future (currently 8.5 percent), of each participant's expected benefit payable at retirement or death is determined, based on his/her age, service, sex and compensation. The calculations take into account the probability of a participant's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his/her terminating with a service, disability, or survivor's benefit. Future salary increases are also anticipated. The present value of the expected benefits payable on account of the active participants is added to the present value of the expected future payments to retired participants and beneficiaries to obtain the present value of all expected benefits payable from the Plan on account of the present group of participants and beneficiaries.
b. The employer contributions required to support the benefits of the Plan are determined using a level funding approach, and consist of a normal contribution and an accrued liability contribution.
c. The normal contribution is determined using the "entry age normal" method. Under this method, a calculation is made to determine the average uniform and constant percentage rate of employer contribution which, if applied to the compensation of each new participant during the entire period of his/her anticipated covered service, would be required in addition to the contributions of the participant to meet the cost of all benefits payable on his behalf based on the Group A benefits provisions.
d. The unfunded accrued liability contributions are determined by subtracting the actuarial value of assets from the actuarial accrued liability and amortizing the result over 30 years from the valuation date.
The contribution rate determined by this valuation will not be effective until one year later and the determination of the rate reflects this deferral. It is assumed that there will be no change in the employer normal cost rate due to the deferral, and it is assumed that payments are made uniformly throughout the year.

## 3. Actuarial Value of Assets

The actuarial value of assets is based on the market value of assets with a five-year phase-in of actual investment return in excess of (less than) expected investment income. Expected investment income is determined using the assumed investment return rate and the market value of assets (adjusted for receipts and disbursements during the year). The returns are computed net of administrative and investment expenses.

## 4. Economic Assumptions

a. Investment return: $8.50 \%$ per year, compounded annually, composed of an assumed $3.00 \%$ inflation rate and a $5.50 \%$ net real rate of return. This rate represents the assumed return, net of all investment and administrative expenses.
b. Salary increase rate: A service-related component, plus a $3.00 \%$ inflation component, plus a general increase, as follows:

| Years of Service <br> $(1)$ | Service-related Component | Component and $0.0 \%$ General Increase Rate |
| :---: | :---: | :---: |
| 0 | $(2)$ | $5)$ |
|  | $2.50 \%$ | $5.50 \%$ |
| 2 | 2.00 | 4.00 |
| 3 | 1.75 | 4.25 |
| 4 | 1.25 | 4.00 |

Total Annual Rate of Increase Including 3.00\% Inflation

| Years of Service <br> $(1)$ | Service-related Component | Component and $0.0 \%$ General Increase Rate <br> $(3)$ |
| :---: | :---: | :---: |
| 5 | $1.00 \%$ | $4.00 \%$ |
| 6 | 1.00 | 4.00 |
| 7 | 1.00 | 4.00 |
| 8 | 0.50 | 3.50 |
| 9 | 0.50 | 3.50 |
| 10 or more | 0.00 | 3.00 |

c. Payroll growth rate: In the amortization of the unfunded actuarial accrued liability, payroll is assumed to increase $3.00 \%$ per year. This increase rate is solely due to the effect of inflation on salaries, with no allowance for future membership growth.

## 5. Demographic Assumptions

a. Retirement Rates

|  | Expected Retirements perIOO Lives <br> Age |  |
| :---: | :---: | :---: |
| $(1)$ | $(2)$ | $(3)$ |
| 50 | 20 | 13 |
| $51-54$ | 14 | 13 |
| 55 | 14 | 15 |
| 56 | 14 | 15 |
| 57 | 14 | 15 |
| 58 | 14 | 15 |
| 59 | 14 | 15 |
| 60 | 16 | 16 |
| 61 | 16 | 18 |
| 62 | 30 | 30 |
| 63 | 30 | 25 |
| 64 | 22 | 25 |
| 65 | 28 | 25 |
| $66-69$ | 22 | 19 |
| 70 | 100 | 100 |

b. DROP Participation
$90 \%$ of eligible members are assumed to enter DROP at first eligibility.
c. DROP Entry Date

Active members (not already in DROP) are assumed to take advantage of the DROP and enter when first eligible. For members who have already entered DROP, the actual DROP entry date supplied in the data is used.
d. DROP Interest Credit
4.25\% per year
e. Mortality rates (for active and retired members)

- Healthy males - Based on the 1994 Uninsured Pensioners Mortality Tables for males. Rates are set-forward one year.
- Healthy females - Based on the 1994 Uninsured Pensioners Mortality Tables for females. Rates are set-forward one year.
- Disabled males and females - 1965 Railroad Retirement Board Disable Life Table. Rates are set-back one year for males and 5 years for females.
Sample rates are shown below:

Expected Deaths per 100 Lives

| Age <br> $(I)$ | Healthy Males <br> $(2)$ | Healthy Females <br> $(3)$ | Disabled Males <br> $(6)$ | Disabled Females <br> $(7)$ |
| :---: | :---: | :---: | :---: | :---: |
| 25 | 0.07 | 0.03 | 4.4 I | 4.4 I |
| 30 | 0.09 | 0.04 | 4.4 l | 4.4 I |
| 35 | 0.09 | 0.05 | 4.4 I | 4.4 I |
| 40 | 0.12 | 0.08 | 4.4 I | 4.4 I |
| 45 | 0.19 | 0.11 | 4.43 | 4.4 I |
| 50 | 0.31 | 0.17 | 4.50 | 4.44 |
| 55 | 0.53 | 0.28 | 4.72 | 4.53 |
| 60 | 0.97 | 0.55 | 5.21 | 4.78 |
| 65 | 1.75 | 1.04 | 5.92 | 5.33 |
| 70 | 2.79 | 1.61 | 7.14 | 6.11 |
| 75 | 4.39 | 2.72 | 9.06 | 7.47 |
| 80 | 7.38 | 4.73 | 12.16 | 9.55 |

f. Termination Rates and Disability Rates

Termination rates (for causes other than death, disability or retirement):
Termination rates are a function of the member's age and service. Termination rates are not applied after a member becomes eligible for a retirement benefit. Rates at selected ages are shown below.

Probability of Decrement Due to Withdrawal - Male Members
Years of Service

| Age | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $10+$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | 0.3384 | 0.2667 | 0.2137 | 0.1759 | 0.1499 | 0.1290 | 0.1173 | 0.1177 | 0.1264 | 0.1350 | 0.1518 |
| 30 | 0.2555 | 0.2043 | 0.1644 | 0.1352 | 0.1147 | 0.0995 | 0.0895 | 0.0848 | 0.0839 | 0.0840 | 0.0876 |
| 40 | 0.1893 | 0.1506 | 0.1197 | 0.0971 | 0.0812 | 0.0703 | 0.0622 | 0.0554 | 0.0494 | 0.0445 | 0.0396 |
| 50 | 0.1483 | 0.1141 | 0.0873 | 0.0676 | 0.0540 | 0.0451 | 0.0390 | 0.0341 | 0.0297 | 0.0249 | 0.0191 |
| 60 | 0.1271 | 0.0931 | 0.0677 | 0.0471 | 0.0327 | 0.0239 | 0.0201 | 0.0209 | 0.0246 | 0.0246 | 0.0261 |

Probability of Decrement Due to Withdrawal - Female Members
Years of Service

| Age | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $10+$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | 0.2955 | 0.2470 | 0.2142 | 0.1877 | 0.1687 | 0.1515 | 0.1353 | 0.1251 | 0.1235 | 0.1286 | 0.1385 |
| 30 | 0.2288 | 0.1931 | 0.1638 | 0.1416 | 0.1251 | 0.1121 | 0.1013 | 0.0931 | 0.0875 | 0.0833 | 0.0795 |
| 40 | 0.1708 | 0.1423 | 0.1167 | 0.0990 | 0.0860 | 0.0769 | 0.0703 | 0.0640 | 0.0567 | 0.0478 | 0.0368 |
| 50 | 0.1302 | 0.1019 | 0.0824 | 0.0676 | 0.0579 | 0.0514 | 0.0466 | 0.0421 | 0.0367 | 0.0296 | 0.0207 |
| 60 | 0.1064 | 0.0705 | 0.0634 | 0.0481 | 0.0405 | 0.0348 | 0.0297 | 0.0270 | 0.0268 | 0.0281 | 0.0303 |


|  | Rates of Decrement Due to Disability |  |
| :---: | :--- | :---: |
| Age | Males | Females |
| 20 | .00045 | .00043 |
| 25 | .00045 | .00043 |
| 30 | .00045 | .00043 |
| 35 | .00054 | .00051 |
| 40 | .00081 | .00077 |
| 45 | .00162 | .00153 |
| 50 | .00360 | .00340 |
| 55 | .00765 | .00723 |
| 60 | .01566 | .01479 |

Rates of disability are reduced to zero once a member becomes eligible for retirement.

Service Connected Deaths and Disabilities assumed to be 10\% of decrement

## 6. Other Assumptions

a. Percent married: 70\% of employees are assumed to be married. (No beneficiaries other than the spouse assumed)
b. Age difference: Male members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses.
c. Percent electing annuity on death (when eligible): All of the spouses of vested, married participants are assumed to elect an annuity.
d. Percent electing deferred termination benefit: Vested terminating members are assumed to elect a refund or a deferred benefit, whichever is more valuable at the time of termination.
e. There will be no recoveries once disabled.
f. No surviving spouse will remarry and there will be no children's benefit.
g. Assumed age for commencement of deferred benefits: Members electing to receive a deferred benefit are assumed to commence receipt at the first age at which unreduced benefits are available.
h. Administrative expenses: The assumed investment return rate represents the anticipated net return after payment of all investment and administrative expenses.

## 7. Participant D ata

Participant data was supplied on electronic files. There were separate files for (i) active, (ii) inactive members, and (ii) members and beneficiaries receiving benefits.
The data for an active members included birth date, sex, date of credited service, salary paid during last fiscal year, hours worked by the employee, and employee contribution account balance. For retired members and beneficiaries, the data included date of birth, sex, amount of monthly benefit, and date of retirement.
All healthy and disabled retirees are assumed to have $100 \%$ joint and survivor, prorated by the $70 \%$ marriage assumption. All non-children beneficiaries are assumed to have life only benefits and all children beneficiaries' annuities are assumed to stop at age 25 .
Salary supplied for the current year was based on the earnings for the year preceding the valuation date. This salary was adjusted by the salary increase rate for one year. For members who worked less than 1900 hours but were not new entrants, the salary was annualized to 1900 hours.
Assumptions were made to correct for missing, bad, or inconsistent data. These had no material impact on the results presented.

## 8. Group Transfers

$5 \%$ of current Group B members are assumed to transfer to Group A each year for the next four years, ultimately resulting in 20\% of current Group B members transferring to Group A.

All Group B members who are assumed to transfer to Group A and all current Group A members with convertible Group B service are assumed not to convert their Group B service to Group A service. The conversion price is determined on an actuarially equivalent basis and therefore it should be non-material to the System.

## Summary of Plan Provisions

## 1. C overed Members

Any person who is a participant of Group A, under the original act.
Persons who become employees of the City of Houston after September 1, 1981, and elected officials of the City of Houston who assumed office after September 1, 1981, participate in Group B, but may make an irrevocable election to participate in Group A instead.
Persons who become employees of the City and persons who are elected as City officials after September 1, 1999 become members of Group A. Certain persons who are or become Director of a City Department, Chief Financial Executive, or Executive Director of the Pension System on or after September 1, 1999 and prior to January 1, 2005 may participate in Group C. Effective January 1, 2005, all Group C participation will cease and all Group C participants will become Group A participants. Accruals earned by Group C participants prior to January 1, 2005 will be retained, but all future accruals will be based on the Group A formulas.
All future references to Group C participants in this appendix are intended to reflect this change in the Group C status.

## 2. M onthly Final Average Salary (FAS)

The sum of the seventy-eight highest biweekly salaries paid to a member during his period of credited service, divided by thir-ty-six. Salary includes base pay, longevity pay, and any shift differential pay.

## 3. C redited Service

All services and work performed by an employee, including prior service. For members of Group A and Group C, all services and work performed after September 1, 1943 must have been accompanied by corresponding contributions to the Pension System by the employee or legally authorized repayments must have been made.
Credited service for participants in Group C means the number of years of eligible service after the executive official's effective date of participation in Group C. A Group C member receives two times the number of actual years of Credited Service in Group C solely for the purpose of fulfilling the eligibility requirements in Group C.

## 4. Normal Retirement

a. Eligibility Prior to August 1, 2000 :

The earliest of:

> age 50 and 25 years of Credited Service
> age 55 and 20 years of Credited Service age 60 and 10 years of Credited Service
> age 62 and 5 years of Credited Service
> age 65 (Group C only)

On or after August 1, 2000 (with 68 points as of January 1, 2005):
The earliest of:
age 62 and 5 years of Credited Service
5 years of Credited Service and age plus years of Credited Service equal 70 or more
age 65 (Group C only)
On or after January 1, 2005 (less than 68 points as of January 1, 2005):
The earliest of:
age 62 and 5 years of Credited Service
5 years of Credited Service and age plus years of Credited Service
equal 75 or more with minimum age 50
age 65 (Group C only)
b. Benefit Prior to August 1, 2000:

Group A: $2.25 \%$ of FAS for each of the first 20 years of Credited Service, plus $2.75 \%$ of FAS for each year of Credited Service over 20, to a maximum of $80 \%$ of FAS. Minimum monthly benefit is greater of $\$ 8$ times years of Credited Service or $\$ 100$.
Group B: $1.50 \%$ of FAS for each of first 10 years of Credited Service, plus $1.75 \%$ of FAS for each year of Credited Service over 10 through 20, plus $2.00 \%$ of FAS for each year of Credited Service over 20, to a maximum of $80 \%$ of FAS.

On or after August 1, 2000 and prior to May 11, 2001:
Group A: $2.50 \%$ of FAS for each of the first 20 years of Credited Service plus $3.25 \%$ of FAS for each year Credited Service greater than 20 years. Maximum benefit is $80 \%$ of FAS. Minimum monthly benefit is greater of $\$ 8$ times years of Credited Service or $\$ 100$.
Group B: $1.75 \%$ of FAS for each of the first 10 years of Credited Service plus $2.00 \%$ of FAS for each year of Credited Service from 10 through 20, and $2.50 \%$ of FAS for each year of Credited Service over 20. Maximum benefit is $80 \%$ of FAS for all future retirees.
Group C: Double the rate for Group A.
On or after May 11, 2001 and prior to January 1, 2005:
Group A: 3.25\% of FAS for each of the first 10 years.
of Credited Service plus $3.50 \%$ for Credited Service greater than 10 years but less than 20 years plus $4.25 \%$ for FAS for each year of Credited Service greater than 20 years (excludes current DROP participants). Maximum benefit is $90 \%$ of FAS for all future retirees.
Group B: $1.75 \%$ of FAS for each of the first 10 years of Credited Service plus $2.00 \%$ of FAS for each year of Credited Service from 10 through 20, and $2.75 \%$ of FAS for each year of Credited Service over 20. Maximum benefit is $90 \%$ of FAS for all future retirees.

Group C: Double the rate for Group A.

## All accruals after January 1, 2005 :

All accruals under the prior multipliers were frozen as of January 1, 2005 and the following benefit multipliers will apply to service after that date:
Group A: $2.50 \%$ of FAS for each of the first 20 years of Credited Service plus $3.25 \%$ of FAS for each year Credited Service greater than 20 years. Maximum benefit is $90 \%$ of FAS for all future retirees.
Group B: $1.75 \%$ of FAS for each of the first 10 years of Credited Service plus $2.00 \%$ of FAS for each year of Credited Service from 10 through 20, and $2.50 \%$ of FAS for each year of Credited Service over 20. Maximum benefit is $90 \%$ of FAS for all future retirees.

## 5. Vested Pension

a. Eligibility 5 years of Credited Service. Immediate vesting for Group C.
b. Benefit Group A and Group C: Either the accrued normal retirement benefit with payments beginning at the normal retirement eligibility date or a refund of contributions, if any, without interest.
Group B: Accrued normal retirement benefit payable at the normal retirement eligibility date.
If the actuarial present value of a pension is less than $\$ 10,000$, a terminated participant who is not eligible to begin receiving a pension may request an early lump sum distribution of the pension. Such early lump sum distribution is irrevocable. Credited Service associated therewith can be reinstated after reemployment and pursuant to the rules of the plan.

## 6. Withdrawal Benefit

If a nonvested member withdraws from service with less than 5 years, a refund of the member's contributions is made without interest, upon request.

## 7. Service-C onnected Disability Retirement

a. Eligibility Any age
b. Benefit Group A: Accrued normal retirement benefit, but not less than $20 \%$ of final monthly salary at time of disability plus $1 \%$ of final monthly salary per year of Credited Service, to a maximum of $40 \%$ of final monthly salary.
Group B: Accrued normal retirement benefit, but not less than $20 \%$ of final monthly salary at time of disability.
Group C: Double Group A benefit.

## 8. Nonservice-C onnected Disability Retirement

a. Eligibility 5 years of Credited Service.
b. Benefit Accrued normal retirement benefit payable immediately.

## 9. Preretirement Survivor Benefits

A. Service-connected
a. Eligibility Any age or Credited Service
b. Benefit Prior to September 1, 1999:

If there is a surviving spouse, $80 \%$ of FAS payable to the spouse plus $10 \%$ of FAS to each qualifying dependent to a maximum of $20 \%$ for all dependents. If there is no surviving spouse, dependent benefits are doubled.

On or after September 1, 1999:
If there is a surviving spouse, $100 \%$ of FAS payable to the spouse. $10 \%$ of FAS is payable to each qualifying dependent to a maximum of $20 \%$ for all dependents. Surviving spouse's benefit will be reduced by the amount of dependent benefits. If no surviving spouse, dependent benefits are $50 \%$ of the amount a surviving spouse would have received for each dependent to a maximum of $100 \%$ for all dependents in the aggregate.

## B. Non service-connected

a. Eligibility 5 years of Credited Service
b. Benefit Prior to September 1, 1999:

If there is a surviving spouse, $50 \%$ of accrued normal retirement benefit payable to the spouse plus $10 \%$ of accrued normal retirement benefit to each qualifying dependent to a maximum of $20 \%$ for all dependents. If there is no surviving spouse, dependent benefits are doubled.

## On or after September 1, 1999 and prior to August 1, 2001:

If there is a surviving spouse, $85 \%$ of accrued normal retirement benefit payable to the spouse plus $10 \%$ of accrued normal retirement benefit to each qualifying dependent to a maximum of $20 \%$ for all dependents in the aggregate. The surviving spouse's benefit will be reduced by the excess, if any, over $100 \%$ of the accrued normal retirement benefit. If there is no surviving spouse, dependent benefits are $50 \%$ of the benefit a surviving spouse would have received for each dependent subject to $100 \%$ of a surviving spouse's benefit for all dependents in the aggregate.

## On or after August 1, 2001:

If there is a surviving spouse, $100 \%$ of accrued normal retirement benefit payable to the spouse and $10 \%$ of accrued normal retirement benefit to each qualifying dependent to a maximum of $20 \%$ for all dependents in the aggregate. The surviving spouse's benefit will be reduced by dependent benefits, if any. If there is no surviving spouse, each dependent will receive $50 \%$ of the benefit a surviving spouse would have received subject to a maximum of $100 \%$ of a surviving spouse's benefit for all dependents in the aggregate.

## 10. Postretirement Survivor Benefits

Prior to September 1, 1999:
If there is a surviving spouse, $75 \%$ of the retirement benefit the deceased retiree was receiving at the time of death payable to the spouse plus $10 \%$ of that retirement benefit payable to each qualifying dependent to a maximum of $20 \%$ for all dependents. If there is no surviving spouse, dependent benefits are double.

On or after September 1, 1999 and prior to August 1, 2001:
If there is a surviving spouse, $85 \%$ of the retirement benefit the deceased retiree was receiving at the time of death
payable to the spouse plus $10 \%$ of that retirement benefit payable to each qualifying dependent to a maximum of $20 \%$ for all dependents. The surviving spouse's benefit will be reduced by dependent benefits, if any. If there is no surviving spouse, dependent benefits are $50 \%$ of the benefit a surviving spouse would have received for each dependent subject to $100 \%$ of a surviving spouse's benefit for all dependents in the aggregate.

On or after August 1, 2001:
If there is a surviving spouse, $100 \%$ of the retirement benefit if the deceased retiree was receiving at the time of death payable to the spouse and $10 \%$ of that retirement benefit payable to each qualifying dependent to a maximum of $20 \%$ for all dependents. The surviving spouse's benefit will be reduced by dependent benefits, if any. If there is no surviving spouse, each dependent will receive $50 \%$ of the benefit a surviving spouse would have received subject to $100 \%$ of a surviving spouse's benefit for all dependents in the aggregate.

## 11. Benefit Adjustments

Prior to May 11, 2001:
Each year, effective February 1, monthly benefits will be increased $3.5 \%$, not compounded, for all retirees and survivors whose benefit was effective on or before January 1 of the current year.

On or after May 11, 2001 but before January 1, 2005 :
Each year, effective February 1, monthly benefits will be increased $4.0 \%$, not compounded, for all retirees and survivors whose benefit was effective on or before January 1 of the current year.

On or after January 1, 2005 :
Each year, effective February 1, monthly benefits will be increased $3.0 \%$, not compounded, for all retirees and survivors. This will affect all members currently in payment status and members who enter payment status in the future. For members hired on or after January 1, 2005 future increases will be $2.0 \%$, not compounded.

## 12. C ontribution Rates

a. Members $4 \%$ of salary only for the Group A and Group C members. None for the Group B members.
b. City Beginning in 1993, the rate required to fund the Retirement Fund on an actuarial reserve basis. However, effective September 1, 1999, the minimum contribution rate is equal to the greater of $10 \%$ of covered payroll or twice the contribution rate a Group A member is required to make by statute.

## 13. D eferred Retirement Option

a. Eligibility Participants who are eligible to retire but who have not retired and who remain in service with the City may participate in the DROP.
b. Monthly DROP

Credit Accrued normal retirement benefit as of the effective date of DROP participation. The Monthly DROP Credit is credited to a notional account (DROP Account) on the last business day each month.
c. Other DROP

Credits Interest is credited to the DROP Account at the beginning of each day based on the DROP Account balance at the end of the previous day. Effective January 1, 2005, the annual interest rate effective beginning January 1 each year is half of the System's investment return percentage for the prior fiscal year, not less than $2.5 \%$ and not greater than $7.5 \%$.
d. Monthly DROP

Credit Prior to May 11, 2001:
Adjustments: The Monthly DROP Credit for participants who entered the DROP effective on or before January 1 of the then current year will be increased effective February 1 each year $3.5 \%$, not compounded.

On or after May 11, 2001 but prior to January 1, 2005:
The Monthly DROP Credit for participants who entered the DROP effective on or before January 1 of the then current year will be increased effective February 1 each year $4.0 \%$, not compounded.

On or after January 1, 2005:
The Monthly DROP Credit for participants who entered the DROP effective on or before January 1 of the then current year will be increased effective February 1 each year $3.0 \%$, not compounded.
e. DROP Account

Balance The sum of a participant's Monthly DROP (DROP Benefit) Credits, Monthly DROP Credit Adjustments, and applicable interest.

## 14. D RO P Benefit Pay-out

A terminated DROP participant may elect to:
a. Receive the entire DROP Account Balance in a lump sum.
b. Receive the DROP Account Balance in periodic payments as approved by the Pension Board.
c. Receive a portion of the DROP Account balance in a lump sum and the remainder in periodic payments as approved by the Pension Board.
d. Defer election of a payout option until a future date.

## 15. Post D ROP Retirement

The Final Pension is the accrued normal retirement benefit as of the effective date of DROP participation, increased with COLAs since DROP entry.

## C hanges in Plan Provisions Since Prior Year

There were several changes to the benefit provisions since the prior valuation. Please see the Benefit Provisions subsection of the Discussion section of this report.


## STATISTICAL SECTION

SCHEDULE OF AVERAGE BENEFIT PAYMENTS FOR THE SIX YEARS ENDED JUNE 30, 2004

SCHEDULE OF BENEFITS BY TYPE (\$000) FOR THE SIX YEARS ENDED JUNE 30, 2004

SCHEDULE OF ANNUITANTS BY TYPE
HISTORICAL ACTIVE PARTICIPANT DATA
SCHEDULE OF REVENUES BY SOURCE (\$000) FOR THE SIX YEARS ENDED JUNE 30, 2005

SCHEDULE OF EXPENSES BY TYPE (\$000) FOR THE SIXYEARS ENDED JUNE 30, 2005

## SCHEDULE OF AVERAGE BENEFIT PAYMENT AMOUNTS FOR THE SIXYEARS ENDED JUNE 30, 2004

| Year Ended | Number <br> Receiving <br> Benefits | Benefits <br> Paid <br> $(\$ 000)$ | Average <br> Annual <br> Benefit |
| :---: | :---: | :---: | :---: |
| June 30, 1999 | 4,999 | 46,732 | 9,348 |
| June 30, 2000 | 5,104 | 50,142 | 9,824 |
| June 30, 2001 | 5,457 | 57,877 | 10,606 |
| June 30, 2002 | 5,928 | 72,256 | 12,189 |
| June 30, 2003 | 6,215 | 84,519 | 13,599 |
| June 30, 2004 | 6,878 | 107,083 | 15,569 |

## SCHEDULE OF BENEFITS BY TYPE (\$000) FOR THE SIXYEARS ENDED JUNE 30, 2004

| Fiscal Year <br> Ended | Normal <br> Retirement <br> Benefits | Disability <br> Retirement <br> Benefits | Survivors' <br> Benefits | Total <br> Benefits |
| :---: | :---: | :---: | :---: | :---: |
| June 30, 1999 | 37,370 | 3,320 | 6,061 | 46,751 |
| June 30, 2000 | 39,836 | 3,490 | 6,816 | 50,142 |
| June 30, 200I | 46,867 | 3,555 | 7,455 | 57,877 |
| June 30, 2002 | 59,746 | 3,638 | 8,872 | 72,256 |
| June 30, 2003 | 71,246 | 3,715 | 9,558 | 84,519 |
| June 30, 2004 | 92,766 | 3,832 | 10,485 | 107,083 |

## SCHEDULE OF ANNUITANTS BY TYPE

| Schedule of Annuitants by Type | June 30, 2004 |  |  | June 30, 2003 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Benefits (\$000) | Average <br> Benefit | Number | Benefits (\$000) | Average <br> Benefit |
| Retirees receiving benefits | 4,952 | 92,766 | 18,733 | 4,319 | 71,246 | 16,496 |
| Retired on disability | 495 | 3,832 | 7,742 | 494 | 3,715 | 7,520 |
| Survivors and beneficiaries | 1,431 | 10,485 | 7,327 | 1,402 | 9,558 | 6,817 |
| Total retirees, survivors and beneficiaries | 6,878 | 107,083 | 15,569 | 6,215 | 84,519 | 13,599 |
| Former participants eligible but not yet receiving benefits | 2,434 | 12,07 I | 4,959 | 2,386 | 11,537 | 4,835 |
| Total Eligible for Benefits | 9,312 | I 19, 154 | 12,796 | 8,601 | 64,237 | 9,612 |

## HISTORICAL ACTIVE PARTICIPANT DATA

| Valuation <br> Date | Number of <br> Participants | Annual Payroll <br> $\$(000)$ | Average <br> Salary (\$) | \% Salary <br> Increase |
| :---: | :---: | :---: | :---: | :---: |
| July I, I993 | 13,112 | 340,249 | 25,949 | 6.5 |
| July I, I994 | 14,027 | 366,561 | 26,133 | 0.7 |
| July I, 1995 | 14,364 | 378,511 | 26,351 | 0.8 |
| July I, I996 | 14,067 | 367,610 | 26,133 | $(0.8)$ |
| July I, 1998 | 13,764 | 394,919 | 28,692 | 9.8 |
| July I, 1999 | 13,286 | 396,617 | 29,852 | 4.0 |
| July I, 2000 | 13,126 | 421,591 | 32,119 | 7.6 |
| July I, 2001 | 12,928 | $413,021 *$ | $31,948 *$ | $(0.5)$ |
| July I, 2002 | 12,527 | 399,794 | 31,915 | $(0.1)$ |
| July I, 2003 | 12,120 | 390,314 | 32,204 | 0.9 |
| July I, 2004 | 1 I,856 | 366,190 | 30,886 | $(4.1)$ |
| *Does not include DROP participants |  |  |  |  |

SCHEDULE OF REVENUES BY SOURCE (\$000) FOR THE SIX YEARS ENDED JUNE 30, 2005

| Year <br> (June 30) | Sponsor <br> Contributions | Member <br> Contributions | Investment <br> Income | Other <br> Income | Total <br> Income |
| :---: | :---: | :---: | :---: | :---: | ---: |
| 2000 | 38,306 | 7,341 | 270,991 | 407 | 317,045 |
| 2001 | 41,298 | 8,532 | $(65,147)$ | 643 | $(14,674)$ |
| 2002 | 40,758 | 13,476 | $(108,024)$ | 286 | $(53,504)$ |
| 2003 | 40,622 | 23,762 | 33,931 | 114 | 98,429 |
| 2004 | 57,308 | 26,189 | 227,361 | 726 | 311,584 |
| 2005 | $63,247 *$ | 23,488 | 184,419 | 17,250 | 288,404 |

[^3]SCHEDULE OF EXPENSES BY TYPE (\$000) FOR THE SIXYEARS ENDED JUNE 30, 2005

| Year <br> (June 30) | Benefits <br> Paid | Contributions <br> Refunded | Professional <br> Service Fees | Cost of <br> Administration | Total <br> Expenses |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2000 | 50,142 | 337 | 263 | 2,143 | 52,885 |
| 2001 | 58,296 | 308 | 324 | 2,367 | 61,295 |
| 2002 | 78,318 | 270 | 396 | 3,662 | 82,646 |
| 2003 | 98,789 | 475 | 366 | 4,299 | 103,929 |
| 2004 | 153,202 | 635 | 712 | 4,500 | 159,049 |
| 2005 | 175,480 | 992 | 1,088 | 4,718 | 182,278 |

## Acknowledgement

HMEPS would like to thank the Greater Houston Convention and Visitors Bureau (GHCVB) for their assistance and generosity in the use of the photographs used in this report.



[^0]:    * Obligations of the U.S. government or obligations explicitly guaranteed by the U.S. government are not considered to have credit risk and do not have purchase limitations.

[^1]:    * The required contributions are calculated based on actuarially determined contribution rates. Actuarial valuations generally are performed annually. The contribution rate, which is based on a given actuarial valuation and approved by the Board, becomes effective one year after the valuation date. The annual required contributions for fiscal year ended June 30, 2005 was calculated using the revised July I, 2003 calculated rate after benefit changes pursuant to the Meet and Confer Agreement dated September I5, 2004.
    ** Does not include the $\$ 300$ million pension obligation note (see note 4).
    See accompanying independent auditors' report.
    See accompanying note to required supplemental schedules.

[^2]:    * Rate determined by the actuarial valuation is for the fiscal year beginning on the July Ist next following the valuation date.

[^3]:    * Does not include $\$ 300$ million pension obligation note

