Gabriel Roeder Smith & Company
Consultants & Actuaries

HOUSTON MUNICIPAL EMPLOYEES PENSION SYSTEM

ACTUARIAL VALUATION REPORT

FOR THE YEAR BEGINNING JULY 1, 2009

GRS
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January 4, 2010

Board of Trustees
Houston Municipal Employees Pension System
1111 Bagby
Suite 2450
Houston, TX 77002-2555

Subject: Actuarial Valuation as of July 1, 2009

Dear Members of the Board:

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, 2009 actuarial valuation will be used by the Board when determining the employer contribution rate for the year beginning July 1, 2010 and ending June 30, 2011.

Under the 2004 Meet & Confer Agreement between the Board and the City of Houston, a three-year funding schedule was implemented consisting of a \$63 million employer contribution and \$300 million pension obligation note for FY 2005, a \$69 million employer contribution for FY 2006 and a \$72 million employer contribution for FY 2007. The funding schedule was developed to substantially increase the funded level of the plan and maintain adequate funding levels over the three-year period ending June 30, 2007.

A Fourth Amendment to the Meet & Confer Agreement between the Board and the City of Houston was adopted in 2007 (Fourth Amendment). As part of this amendment, another funding schedule was implemented consisting of a \$75 million employer contribution for FY 2008, a \$78.5 million employer contribution for FY 2009, a \$83.5 million employer contribution for FY 2010, and a \$88.5 million employer contribution for FY 2011.

The employer contribution amounts for FY 2009 and FY 2010 were not set by actuarial valuations. Therefore, the calculated contribution rates from those valuations are not being contributed. Instead, employer contributions of \$78.5 million for FY 2009 and \$83.5 million for FY 2010 are to be made under the terms of the Fourth Amendment.

The calculated required employer contribution rate for FY2011 is 20.07% of payroll. Using an estimated payroll of $573.1 million for FY2011 projects an estimated calculated employer contribution for FY2011 of $115.0 million. This compares to the actual $88.5 million employer contribution that will be paid under the terms of the Fourth Amendment.

Financing objectives and funding policy

The amortization period is set by statute, and was modified under the Meet and Confer. The contribution rate and liabilities are computed using the Entry Age Normal 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 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, 2009). The amortization rate is adjusted for the one-year deferral in contribution rates.

Progress toward realization of financing objectives

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, 2009 is 66.2%. This is a decrease from the 70.1% funded ratio from the prior year valuation.

The calculated employer contribution rate for FY 2011 is 20.07%. This rate is more than the 19.20% rated calculated in the 2008 valuation, mostly due to the significant downturn in the investment markets. Please see Table 6 for a detailed analysis of the change in the calculated employer contribution rate from the prior year to this year.

Like most large public pension plans, HMEPS was significantly impacted by the substantial decline in the investment markets during FY 2009. In the absence of a significant recovery in the investment markets, the contribution rate needed to amortize the UAAL over 30 years will increase over the next few valuation cycles.

Benefit provisions

The benefit provisions reflected in this valuation are those which were in effect on July 1, 2009. The Fourth Amendment between the City and the Board changed the benefit provisions substantially, effective January 1, 2008. The benefits for employees hired prior to January 1, 2008 were not modified, but the benefits for employees newly hired on or after January 1, 2008 were modified substantially, including the elimination of member contributions.

The benefit provisions are summarized in Appendix B.

Assumptions and methods

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 not 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 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.

Data

Member data for retired, active and inactive members was supplied as of July 1, 2009 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, 2009 was taken from the Comprehensive Annual Financial Report for the Year Ended June 30, 2009.

Plan Experience

As part of each valuation, we examine the System's experience relative to the assumptions. The aggregate results of these analyses are disclosed in Tables 5 & 6. This past fiscal year the System had a total liability loss of approximately $11.3 million. Most of the loss can be traced to larger than expected salary increases. Relative to the total liabilities of the System we do not consider this aggregate loss significant. However, this is the fifth valuation in a row to experience a salary loss. We will determine if this recent experience is part of a long-term trend or a short-term fluctuation in conjunction with the next experience study.

We were asked to determine if an unanticipated actuarial cost occurred in the administration of the Deferred Retirement Option Plan (DROP). It is our opinion that the administration of the (DROP) had no material unanticipated actuarial costs during the prior fiscal year.

Certification

All of the tables contained in this actuarial valuation report and in the actuarial section of the HMEPS CAFR were prepared by Gabriel, Roeder, Smith & Company. We certify that the information presented herein is accurate and fairly portrays the actuarial position of HMEPS as of July 1, 2009.

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. Newton is an Enrolled Actuary and also a Member of the American Academy of Actuaries, and meets the Qualification Standards of the American Academy of Actuaries. Both of the undersigned are experienced in performing valuations for large public retirement systems.

Sincerely,
Gabriel, Roeder, Smith & Company

Joseph P. Newton, FSA, EA, MAAA
Senior Consultant

Lewis Ward
Consultant

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Section I — Executive Summary

Section II — Discussion

Section III — Supporting Exhibits

Executive Summary

Item	July 1, 2009	July 1, 2008
Membership		
• Number of:		
- Active members	13,333	12,653
- Retirees and beneficiaries	8,340	8,155
- Inactive members	5,742	5,730
- Total	27,415	26,538
• Annualized Payroll supplied by HMEPS	$ 539,023	$ 483,815
Calculated Contribution rates		
• Employer	20.07%	19.20%
Assets		
• Market value	$ 1,730,142	$ 2,262,033
• Actuarial value	2,284,442	2,310,384
• Estimation of return on market value	-16.5%	-0.3%
• Estimation of return on actuarial value	2.6%	9.0%
• Employer contribution	$ 76,837	$ 73,272
• Member contribution	$ 20,449	$ 21,176
• Ratio of actuarial value to market value	132.0%	102.1%
Actuarial Information		
• Employer normal cost %	5.80%	5.85%
• Unfunded actuarial accrued liability (UAAL)	$ 1,166,968	$ 985,986
• Amortization rate	14.27%	13.35%
• Funding period	30.0 years	30.0 years
• GASB funded ratio	66.2%	70.1%
Projected employer contribution based on calculated rate		
• Fiscal year ending June 30,	2011	2010
• Projected payroll (millions)	$ 573.1	$ 517.0
• Projected employer contribution (millions) (actual contribution rate set by Meet & Confer)	$ 115.0	$ 99.3

Note: Dollar amounts in $000, unless otherwise noted

[1] Employee contribution rate is 5%. Members newly hired after January 1, 2008 are noncontributory.

Contribution Requirements

- The Executive Summary shows the new, calculated contribution rate
- Rates shown on the Executive Summary are calculated rates for the twelve-month period beginning July 1, 2010, based on current board policy
- Table 6 reconciles the calculated contribution rate from the prior valuation to the current valuation
- No changes to the benefit provisions were reflected in this valuation
- There were no changes to the actuarial assumptions
- Amortization payment is based on
  - — 30-year closed funding period beginning July 1, 2009
  - — Contributions increase as level percentage of pay
  - — Total payroll increases 3.00% per year
  - — No future growth in the number of active members is taken into account
- The Plan’s funded ratio decreased from the prior year and the Plan’s contribution rate increased from the prior year primarily due to the loss on the actuarial value of assets
  - — Analysis of the change in contribution rates is shown on Table 6
- The Plan experienced a gain on the actuarial value of assets
  - — As part of the Fourth Amendment, all of the deferred investment gains for years 2006 and prior were fully recognized as of July 1, 2007
  - — The actuarial value of assets is greater than the market value of assets creating a deferred net asset loss (approximately $554 million). This will increase the required contribution rate over the next several valuations if no offsetting asset gains occur during the next few years. (This is reflected in Table 7)

Calculation of Contribution Rates

The funds available to pay benefits come from two sources, contributions and investment income on those contributions (the majority of the funds available to pay benefits come from investment income). HMEPS receives contributions from two sources, employer contributions which are determined as a percent of pay, and in some cases by member contributions. As shown in Table 2, the employer contribution rate has two components:

- The normal cost percentage (NC%)
- The amortization percentage (UAAL%)

The NC% is the theoretical amount which would be required to pay the members' benefits, based on the plan provisions for new employees, if this amount had been contributed from each member's entry date and if the fund's experience exactly followed the actuarial assumptions. This is the amount it should cost to provide the benefits for an average new member. The NC% is shown in Table 4.

The actuarial accrued liability (AAL) is the difference between (i) the actuarial present value of all future benefits for all current participants of the fund, including active, inactive and retired members, and (ii) the actuarial present value of future normal costs. Thus the AAL represents the liability associated with past years. The unfunded actuarial accrued liability (UAAL) is the difference between the AAL and the actuarial value of assets (AVA). It is the shortfall/excess between the liability associated with prior years (the AAL) and the assets actually accumulated (the AVA). This shortfall/excess can arise from several sources, including actuarial gains and losses which are caused by differences between actual experience and the plan's assumptions, changes to the plan's actuarial assumptions, and amendments to the benefit provisions.

The UAAL% is the amount required to fund this difference. It is the amount, expressed as a level percentage of payroll, necessary to amortize the UAAL. The Meet & Confer Agreement has specified that this amortization should be over a period of 30 years beginning July 1, 2009. Item 11a of Table 2 shows the UAAL%.

The calculated rate is used in determining the contributions necessary to meet the funding policy for the twelve-month period beginning July 1, 2010. Note however, that under the terms of the Fourth Amendment the FY 2011 contribution is already set at $88.5 million.

Financial Data and Experience

As of July 1, 2009, HMEPS has a total market value of about $1.73 billion. Financial information was gathered from the 2009 HMEPS Comprehensive Annual Financial Report.

This report includes a number of exhibits related to plan assets. Table 8 shows how the total market value is distributed among the various classes of investments. Current investment policy allocates 46% of invested assets to equities and 28% of invested assets to limited partnerships, real estate trusts, loans and mortgages.

Table 9 shows a reconciliation of the market values between the beginning and end of FY2009.

The Comprehensive Annual Financial Report states the time-weighted return for FY2009 was -16.5%.

In determining the contribution rates and funded status of the System, an actuarial value of assets (AVA) is used, rather than the market value of assets. The method used to compute the AVA takes the difference between actual earnings and expected earnings (based on the assumed 8.5% investment return rate) each year, and recognizes the difference over five years, at 20% per year. This "smoothing method" is intended to help reduce the volatility of the contribution rates from year to year.

Under the terms of the Fourth Amendment, all of the deferred gains/(losses) from 2006 and prior were fully recognized as of July 1, 2007. Thus, only the 2007 investment gain and the 2008 and 2009 investment losses have the normal deferral that is part of the AVA methodology. In future years the number of deferral bases will grow until we are once again recognizing prior years' excess investment gains/losses over five years.

The development of the AVA is shown on Table 10 and Table 11. The AVA is $2.28 billion. The AVA is 132.0 % of the MVA, compared to 102.1 % last year.

In addition to the market return, Table 12 also shows the return on the actuarial value of assets for HMEPS. For FY2009, this return was 2.60%. Because this is less than the assumed 8.5% investment return, an actuarial loss occurred increasing the unfunded actuarial accrued liabilities of the plan. Table 14 shows a summary of market and actuarial return rates in recent years.

Member Data

Member data as of July 1, 2009 was supplied electronically by HMEPS staff. While we did not audit this data, we did perform various tests to ensure that it was internally consistent, consistent with the prior year's data, and was reasonable overall.

Table 20 shows the number of members by category (active, inactive, retired, etc.). Tables 21(a-c) show active member statistics by Group. Tables 18 and 19 show summaries of certain historical data, including membership statistics.

The number of active members increased from 12,653 to 13,333, a 5.4 % increase. This is the fifth year in a row that active membership has increased.

The total payroll shown on the statistical tables is the amount that was supplied by HMEPS, annualized if necessary. For the cost calculations, the pays were adjusted in accordance with the actuarial assumptions to reflect one year's salary increase.

Total active member payroll increased 11.4% last year, compared with a 6.3% increase the prior year. Similar to the number of active members, this is the fifth valuation in a row in which the total covered payroll increased.

This uptrend in payroll is significant because the methodology used in the valuation to amortize the unfunded liability assumes a growing payroll into the future. If the payroll does not grow at the assumed 3% a year on average, then the amortization payments will be understated and the funding position of the plan will not strengthen over time.

Benefit Provisions

Appendix B includes a summary of the benefit provisions for HMEPS.

There were no changes to the benefits reflected in this valuation.

This valuation reflects all benefits offered to HMEPS members. There are no ancillary benefits that might be deemed a HMEPS liability if continued beyond the availability of funding by the current funding source.

Actuarial Methods and Assumptions

Appendix A includes a summary of the actuarial assumptions and methods used in this valuation. Costs are determined using the Entry Age Normal actuarial cost method. The assumed investment return rate is 8.50%. The Board adopted the actuarial assumptions used in this valuation in connection with the actuarial experience study performed by GRS in 2005 and independently reviewed by Mercer Consulting. These assumptions have been in effect since the July 1, 2004 valuation.

Please see Appendix A for a complete description of these assumptions.

It is expected that the next experience study will be performed in fiscal year 2010, using data through the five-year period ending June 30, 2009.

GASB 25 and Funding Progress

Governmental Accounting Standards Board Statement No. 25 (GASB 25) contains certain accounting requirements for HMEPS. In particular, it requires the inclusion of two special schedules in the HMEPS annual report:

1. Schedule of Funding Progress

2. Schedule of Employer Contributions

Information needed to prepare the Schedule of Funding Progress is included in Table 16. This shows that the funded ratio (ratio of actuarial assets to accrued liabilities) decreased dramatically over the three-year period ending with the 2003 valuation, and subsequently generally increased over the next five valuations. However, with the loss in the actuarial value of assets in FY 2009 the funded ratio has decreased to near the 2005-2006 levels.

GASB 25 also requires that plans calculate an Annual Required Contribution (ARC), and, if actual contributions received are less than the ARC, this must be disclosed. For this disclosure, HMEPS treats the employer contribution rate established under the Meet & Confer Agreement as the ARC, as long as this produces a funding period of 30 years or less.

Under GASB 25, the ARC must be calculated in accordance with certain parameters. In particular, it must include a payment to amortize the UAAL. This amortization payment must be computed using a funding period no greater than 30 years. Further, the amortization payment included in the ARC may be computed as a level dollar amount, or it may be computed as an amount which increases with payroll (level-percentage-of-pay). However, if payments are computed on a level-percentage-of-payroll approach, the payroll growth assumption may not anticipate future membership growth.

Since the recommended employer contribution rate is computed as a level-percentage-of-payroll using an amortization period of 30 years from the valuation date, the recommended rate meets the definition of an acceptable ARC.

Summary of Cost Items

	Valuation as of July 1, 2009		Valuation as of July 1, 2008	
	Cost Item	Cost as % of Pay	Cost Item	Cost as % of Pay
	(1)	(2)	(3)	(4)
1. Participants				
a. Actives	13,333		12,653	
b. Retirees	6,336		6,186	
c. Disabled retirees	415		428	
d. Beneficiaries	1,589		1,541	
e. Inactive, deferred vested	2,884		2,931	
f. Inactive, nonvested	2,858		2,799	
g. Total	27,415		26,538	
2. Covered payroll	$ 539,023		$ 483,815	
3. Averages for active members				
a. Average age	45.1		45.2	
b. Average years of service	9.2		9.3	
c. Average pay ($)	$ 40,428		$ 38,237	
4. Present value of future pay	$ 3,447,609		$ 3,123,720	
5. Total normal cost rate	5.80%		5.85%	
6. Present value of future benefits	$ 3,764,512	698.4%	$ 3,598,904	743.9%
7. Present value of future normal costs	$ 312,993	58.1%	$ 301,762	62.4%
8. Service purchase receivable	$ (109)		$ (772)	
9. Actuarial accrued liability (6 - 7 + 8)	$ 3,451,410	640.3%	$ 3,296,370	681.3%
10. Present actuarial assets	$ 2,284,442	423.8%	$ 2,310,384	477.5%
11. Unfunded actuarial accrued liability (UAAL)	$ 1,166,968	216.5%	$ 985,986	203.8%
12. Funding period	30 years		30 years	
13. Employer contribution rate				
a. Normal cost	5.80%		5.85%	
b. Amortization charge	14.27%		13.35%	
c. Total	20.07%		19.20%	
14. Average estimated return				
a. Based on market value	-16.50%		-0.25%	
b. Based on actuarial value	2.60%		8.97%	
15. GASB 25 funded ratio	66.2%		70.1%	

Note: Dollar amounts in $000

Calculation of Annual Required Contribution Rate

			July 1, 2009 (1)	July 1, 2008 (2)
1.	Covered payroll		$ 539,023	$ 483,815
2.	Covered payroll adjusted for one-year's pay increase		$ 559,369	$ 501,984
3.	Present value of future pay		$ 3,447,609	$ 3,123,720
4.	Employer normal cost rate		5.80%	5.85%
5.	Actuarial accrued liability for active members			
	a.	Present value of future benefits for active members	$ 1,789,798	$ 1,694,571
	b.	Less: present value of future employer normal costs	(189,451)	(173,489)
	c.	Less: present value of future employee contributions	(123,542)	(128,273)
	d.	Service Purchase Receivable [1]	(109)	(772)
	e.	Actuarial accrued liability	$ 1,476,696	$ 1,392,037
6.	Total actuarial accrued liability for:			
	a.	Retirees and beneficiaries	$ 1,836,726	$ 1,769,057
	b.	Inactive participants	137,988	135,276
	c.	Active members (Item 5e)	1,476,696	1,392,037
	d.	Total	$ 3,451,410	$ 3,296,370
7.	Actuarial value of assets		$ 2,284,442	$ 2,310,384
8.	Unfunded actuarial accrued liability (UAAL) (Item 6d - Item 7)		$ 1,166,968	$ 985,986
9.	Funding period		30 years	30 years
10.	Assumed payroll growth rate		3.00%	3.00%
11.	Employer Contribution requirement			
	a.	UAAL amortization payment as % of pay	14.27%	13.35%
	b.	Employer normal cost	5.80%	5.85%
	c.	Contribution requirement (a + b)	20.07%	19.20%

Note: Dollar amounts in $000

[1] Includes actual current receivable for actives who have entered into an obligation. It's anticipated that a majority of the receivable will be received by the next valuation date.

Actuarial Present Value of Future Benefits

			July 1, 2009 (1)		July 1, 2008 (2)
1.	Active members				
	a.	Retirement benefits	$	1,589,082	$	1,500,022
	b.	Deferred termination benefits		98,000		95,592
	c.	Refunds		13,194		13,340
	d.	Death benefits		58,614		55,449
	e.	Disability benefits		30,908		30,168
	f.	Total	$	1,789,798	$	1,694,571
2.	Members in Pay Status					
	a.	Service retirements	$	1,656,586	$	1,600,403
	b.	Disability retirements		37,958		37,648
	c.	Beneficiaries		142,182		131,006
	d.	Total	$	1,836,726	$	1,769,057
4.	Inactive members					
	a.	Vested terminations	$	133,507	$	131,754
	b.	Nonvested terminations		4,481		3,522
	c.	Total	$	137,988	$	135,276
5.	Total actuarial present value of future benefits		$	3,764,512	$	3,598,904

Note: Dollar amounts in $000

Analysis of Normal Cost

		July 1, 2009 (1)	July 1, 2008 (2)
1.	Gross normal cost rate		
	a. Retirement benefits	4.65%	4.70%
	b. Deferred termination benefits	0.58%	0.58%
	c. Refunds	0.00%	0.00%
	d. Disability benefits	0.17%	0.17%
	e. Death benefits	0.40%	0.40%
	f. Total	5.80%	5.85%

Calculation of Total Actuarial Gain or Loss

1. Unfunded actuarial accrued liability (UAAL) as of July 1, 2008	$	985,986
2. Employer normal cost for year*		30,720
3. Employer Contributions during year ending June 30, 2009*		(76,837)
4. Interest on UAAL for one year		83,809
5. Interest on Item 2 and Item 3 for one-half year		(1,920)
6. Expected UAAL as of July 1, 2009 (1+2+3+4+5)	$	1,021,758
7. Actual UAAL as of July 1, 2009	$	1,166,968
8. Actuarial gain/(loss) for the period (6 - 7)	$	(145,210)
SOURCE OF GAINS/(LOSSES)		
9. Asset gain/(loss) (See Table 13)	$	(133,921)
10. Assumption changes		0
11. Changes from Meet & Confer		0
12. Total liability gain/(loss) for the period	$	(11,289)
13. Actuarial gain/(loss) for the period	$	(145,210)

Note: Dollar amounts in $000

*Employee contributions are excluded due to use of replacement life normal cost method for ongoing plan.
New members (Group D) do not contribute to the plan.

Change in Calculated Contribution Rate Since the Prior Valuation

1.	Calculated Contribution Rate as of July 1, 2008			19.20%
2.	Change in Contribution Rate During Year			
	a.	Change in Employer Normal Cost	(0.05%)	
	b.	Assumption changes	0.00%	
	c.	Recognition of prior asset losses (gains)	(0.04%)	
	d.	Actuarial (gain) loss from current year asset performance	1.92%	
	e.	Actuarial (gain) loss from liability sources	0.21%	
	f.	Impact of City contributing different than expected*	0.24%	
	g.	Effect of Payroll growing faster than Payroll Growth Rate	(1.19%)	
	h.	Effect of reseting amortization period to 30	(0.22%)	
	i.	Total Change		0.87%
3.	Calculated Rate as of July 1, 2009			20.07%

*The City will contribute $83.5 million in FY2010 compared to an approximate ARC of $107 million

Near Term Outlook

Valuation as of July 1,	Unfunded Actuarial Accrued Liability (UAAL, in 000s)	Funded Ratio	Calculated Contribution Rate	Funding Period (Years)[2]	Market Value of Fund (in 000s)	For Fiscal Year Ending June 30,	Covered Compensation	Employer Contributions	Employee Contributions	Benefit Payments and Refunds	Net External Cash Flow
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(8)	(9)	(10)	(11)
2009	$ 1,167,157	66.2%	20.07%	30.0	$ 1,730,142	2010	$ 559,369	$ 83,500 [1]	$ 18,661	$ 220,072	$ (117,911)
2010	1,390,499	61.0%	22.78%	29.0	1,754,384	2011	573,140	88,500	17,410	226,207	(120,298)
2011	1,617,508	56.2%	25.09%	28.0	1,778,200	2012	584,989	133,270	16,332	239,074	(89,472)
2012	1,844,914	51.6%	27.72%	27.0	1,836,150	2013	597,893	150,020	15,321	252,785	(87,443)
2013	2,020,672	48.5%	29.66%	26.0	1,901,139	2014	611,400	169,459	14,350	267,513	(83,704)
2014	2,054,280	49.0%	29.86%	25.0	1,975,548	2015	625,851	185,606	13,427	281,524	(82,491)
2015	2,075,119	49.8%	30.04%	24.0	2,057,544	2016	641,397	191,528	12,543	296,392	(92,322)
2016	2,092,815	50.5%	30.21%	23.0	2,136,270	2017	657,466	197,478	11,689	310,653	(101,486)
2017	2,107,126	51.2%	30.35%	22.0	2,212,141	2018	674,574	203,764	10,869	324,867	(110,234)
2018	2,117,493	51.9%	30.47%	21.0	2,285,350	2019	692,906	210,313	10,083	338,969	(118,573)
2019	2,123,363	52.6%	30.56%	20.0	2,356,095	2020	712,171	216,970	9,323	337,404	(111,110)

These projections are based on the Fourth Amendment assuming that the benefit provisions that went into effect January 1, 2008 remain in effect throughout the projection. Also, beginning in FY2012, the employer contributions shown above are based on the calculated contribution rate from the actuarial valuation performed one year prior (i.e. the FY 2012 rate is set by the June 30, 2010 valuation). Any changes to future accruals or failure to contribute the calculated rate will change the results of this projection.

[1] The agreement between the City and HMEPS includes a $75 million employer contribution for FY 2008, a $78.5 million employer contribution for FY 2009, a $83.5 million employer contribution for FY2010, and a $88.5 million employer contribution in FY2011.

[2] The agreement between the City and HMEPS included an open 30 year amortization period until the 2009 valuation. Beginning with the 2009 valuation, the amortization period will be a closed 30 years from July 1, 2009.

Note: Dollar amounts in $000.

Statement of Plan Net Assets

		July 1, 2009		July 1, 2008
A. ASSETS		(1)		(2)
1. Current Assets				
a. Cash and short term investments				
1) Cash on hand	$	405	$	956
2) Short term investments		41,292		50,710
b. Accounts Receivable				
1) Sale of investments		7,796		52,292
2) Other		6,267		7,589
c. Total Current Assets	$	55,760	$	111,547
2. Long Term Investments				
a. US. Government securities	$	46,951	$	46,189
b. Corporate bonds		134,194		88,482
c. Capital stocks		435,433		487,617
d. Commingled Funds		586,691		537,365
e. LP's, real estate trusts, loans and mortgages		499,680		675,680
f. Total long term investments	$	1,702,949	$	1,835,333
3. Other Assets				
a Collateral on securities lending	$	81,757	$	141,334
b. Furniture, fixtures and equipment, net		471		419
c. Note receivable - City of Houston				300,000
d. Accrued interest on note receivable				69,894
e. Total other assets	$	82,228	$	511,647
4. Total Assets	$	1,840,937	$	2,458,527
B. LIABILITIES				
1. Current Liabilities				
a. Amounts due on asset purchases	$	24,349	$	51,158
b. Accrued liabilities		4,688		4,002
c. Collateral on securities lending		81,757		141,334
2. Total Liabilities		110,795		196,494
3. Net Assets Held in Trust	$	1,730,142	$	2,262,033

C. TARGET ASSET ALLOCATION FOR CASH & LONG TERM INVESTMENTS	
1. Cash	3.0%
2. Fixed Income	23.0%
3. Real Assets	13.0%
4. Domestic Equities	23.0%
5. International Equities	23.0%
6. Alternative Investments	15.0%
7. Total	100.0%

Note: Dollar amounts in $000
Columns may not add due to rounding

Reconciliation of Plan Net Assets

			Year Ending	
			June 30, 2009	June 30, 2008
			(1)	(2)
1.	Market value of assets at beginning of year		$ 2,262,033	$ 2,344,597
2.	Revenue for the year			
	a.	Contributions		
		i. Member contributions	$ 20,449	$ 21,176
		ii. Employer contributions (see note)	76,837	73,272
		iii. Total	$ 97,286	$ 94,448
	b.	Net investment income		
		i. Interest	$ 10,890	$ 13,453
		ii. Dividends	11,321	14,381
		iii. Earnings from LP's and real estate trusts	4,922	13,424
		iv. Net appreciation (depreciation) on investments	(479,332)	(64,877)
		v. Interest income - City of Houston note receivable	15,937	29,206
		vi. Net proceeds from lending securities	1,070	1,025
		vii. Less investment expenses	(5,106)	(6,540)
		viii. Other	489	634
	c.	Total revenue	$ (342,524)	$ 95,154
3.	Expenditures for the year			
	a.	Refunds	$ 1,795	$ 1,760
	b.	Benefit payments	180,361	169,483
	c.	Administrative and miscellaneous expenses	7,211	6,475
	d.	Total expenditures	$ 189,367	$ 177,718
4.	Increase in net assets (Item 2c - Item 3d)		$ (531,891)	$ (82,564)
5.	Market value of assets at end of year (Item 1 + Item 4)		$ 1,730,142	$ 2,262,033

Note: Dollar amounts in $000

Employer contribution does not include amounts contributed to the replacement benefit plan.

Calculation of Excess Investment Income

Item	Year Ending June 30, 2009	2008	2007	2006	2005
(1)	(2)	(3)	(4)	(5)	(6)
1. Market value of assets at beginning of year	$ 2,262,033	$ 2,344,597	$ 2,052,296	$ 1,824,852	$ 1,418,725
2. Net external cash flow during the year	(84,870)	(76,795)	(67,883)	(66,492)	210,263
3. Market value of assets at end of year	1,730,142	2,262,033	2,344,597	2,052,296	1,824,852
4. Actual investment income during the year based on market value: (3) - (2) - (1)	$ (447,021)	$ (5,769)	$ 360,184	$ 293,936	$ 195,864
5. Assumed earnings rate	8.50%	8.50%	8.50%	8.50%	8.50%
6. Expected earnings for the year on:					
a. Market value of assets at beginning of year	192,273	199,291	174,445	155,112	120,592
b. Net external cash flow	(3,533)	(3,197)	(2,826)	(2,768)	8,754
c. Total: (a) + (b)	188,740	196,094	171,619	152,344	129,346
7. Excess investment income for the year: (4) - (6)	$ (635,761)	$ (201,863)	$ 188,565	$ 141,592	$ 66,518

Note: Dollar amounts in $000

Development of Actuarial Value of Assets

	July 1, 2009 (1)	July 1, 2008 (2)
1. Excess (Shortfall) of invested income for current and previous four years		
a. Current year	$ (635,761)	$ (201,863)
b. Current year - 1	(201,863)	188,565
c. Current year - 2	188,565	141,592
d. Current year - 3	141,592	66,518
e. Current year - 4	66,518	118,177
f. Total for five years	$ (440,948)	$ 312,990
2. Deferral of excess (shortfall) of invested income		
a. Current year (80%/80%)	$ (508,608)	$ (161,490)
b. Current year - 1 (60%/60%) [1]	(121,118)	113,139
c. Current year - 2 (40%/0%) [1]	75,426	0
d. Current year - 3 (0%/0%) [1]	0	0
e. Current year - 4 (0%/0%) [1]	0	0
f. Total deferred for year	$ (554,300)	$ (48,351)
3. Market value of assets at end of year	$ 1,730,142	$ 2,262,033
4. Actuarial value of assets at end of year: (3) - (2f)	$ 2,284,442	$ 2,310,384

[1] The Fourth Amendment recognized the deferred gains prior to FY2007 as of July 1, 2007.

Estimation of Dollar-Weighted Investment Return

Item (1)	Market Value (2)	Actuarial Value (3)
1. Assets as of July 1, 2008 (A)	$ 2,262,033	$ 2,310,384
2. Contributions during FY09	97,286	97,286
3. Benefit payments made during FY09	180,361	180,361
4. Refunds of contributions during FY09	1,795	1,795
5. Expenses during FY09	7,211	7,211
6. Investment return during FY09	(439,810)	66,139
7. Assets as of July 1, 2009 (B): (1 + 2 - 3 - 4 - 5 + 6)	1,730,142	2,284,442
8. Approximate rate of return on average invested assets		
a. Net investment income (6 - 5 = I)	(447,021)	58,928
b. Estimated return based on (2I/(A + B - I))	-16.50% *	2.60%

Note: Dollar amounts in $000

* Market rate of return as reported in HMEPS 2009 CAFR

Investment Experience Gain or Loss

Item	Valuation as of 6/30/2009	Valuation as of 6/30/2008
(1)	(2)	(3)
1. Actuarial assets, prior valuation	$ 2,310,384	$ 2,193,745
2. Total contributions since prior valuation	$ 97,286	$ 94,448
3. Benefits and refunds since prior valuation	$ (182,156)	$ (171,243)
4. Assumed net investment income at 8.5%		
a. Beginning assets	$ 196,383	$ 186,468
b. Contributions	4,050	3,932
c. Benefits and refunds paid	(7,584)	(7,129)
d. Total	$ 192,849	$ 183,271
5. Expected actuarial assets (Sum of Items 1 through 4)	$ 2,418,363	$ 2,300,221
6. Actual actuarial assets, this valuation	$ 2,284,442	$ 2,310,384
7. Asset gain (loss) since prior valuation (Item 6 - Item 5)	$ (133,921)	$ 10,163

Note: Dollar amounts in $000

History of Investment Returns

For Fiscal Year Ending	Market Value [1]	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%
June 30, 2005	12.85%	4.12%
June 30, 2006	16.41%	8.95%
June 30, 2007	17.85%	21.51%
June 30, 2008	(0.25%)	8.97%
June 30, 2009	(16.50%)	2.60%
Average Return - last 5 years	5.22%	9.04%
Average Return - last 10 years	5.27%	7.61%

[1] Dollar-weighted return, net of administrative and investment expenses.

Historical Solvency Test

	Aggregated Accrued Liabilities for				by Reported Assets		
Valuation Date	Active Members Contributions	Retirees Beneficiaries and Vested Terminations[1]	Members (City Financed Portion)	Actuarial Value of Assets	(5)/(2)	[(5)-(2)]/(3)	[(5)-(2)-(3)]/(4)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
July 1, 1991	$ 32,606	$ 289,174	$ 366,542	$ 558,144	100.0%	100.0%	64%
July 1, 1992	32,850	317,849	414,600	608,524	100.0%	100.0%	62%
July 1, 1993	32,866	369,561	437,894	660,637	100.0%	100.0%	59%
July 1, 1994	32,410	384,100	470,189	713,696	100.0%	100.0%	63%
July 1, 1995	31,130	420,830	511,752	770,189	100.0%	100.0%	62%
July 1, 1996	45,819	438,486	558,154	857,332	100.0%	100.0%	67%
July 1, 1998	34,781	502,335	703,025	1,095,617	100.0%	100.0%	79%
July 1, 1999	33,985	599,270	706,678	1,222,240	100.0%	100.0%	83%
July 1, 2000	38,292	646,611	824,470	1,376,020	100.0%	100.0%	84%
July 1, 2001	36,449	804,901	1,114,456	1,490,179	100.0%	100.0%	58%
July 1, 2002	35,888	893,568	1,585,733	1,519,717	100.0%	100.0%	37%
July 1, 2003	44,388	1,115,801	2,118,063	1,510,264	100.0%	100.0%	17%
July 1, 2004	62,062	1,355,157	1,216,599	1,501,235	100.0%	100.0%	7%
July 1, 2005	48,150	1,577,345	1,099,777	1,777,656	100.0%	100.0%	14%
July 1, 2006	58,043	1,729,863	1,106,389	1,867,293	100.0%	100.0%	7%
July 1, 2007	69,544	1,824,992	1,234,178	2,193,745	100.0%	100.0%	24%
July 1, 2008	81,182	1,904,333	1,310,855	2,310,384	100.0%	100.0%	25%
July 1, 2009	95,268	1,974,714	1,381,428	2,284,442	100.0%	100.0%	16%

Note: Dollar amounts in $000

Schedule of Funding Progress

Date	Actuarial Value of Assets (AVA)	Actuarial Accrued Liability (AAL)	Unfunded Actuarial 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 1, 1992	$ 608,524	$ 765,299	$ 156,775	79.5%	$ 314,686	49.8%
July 1, 1993	660,637	840,321	179,684	78.6%	340,249	52.8%
July 1, 1994	713,696	886,699	173,003	80.5%	366,561	47.2%
July 1, 1995	770,189	963,712	193,523	79.9%	378,511	51.1%
July 1, 1996	857,332	1,042,459	185,127	82.2%	367,610	50.4%
July 1, 1998	1,095,617	1,240,141	144,524	88.3%	397,698	36.3%
July 1, 1999	1,222,240	1,339,933	117,693	91.2%	407,733	28.9%
July 1, 2000	1,376,020	1,509,373	133,353	91.2%	432,604	30.8%
July 1, 2001	1,490,179	1,955,806	465,627	76.2%	418,234	111.3%
July 1, 2002	1,519,717	2,515,189	995,472	60.4%	399,794	249.0%
July 1, 2003	1,510,264	3,278,251	1,767,987	46.1%	390,314	453.0%
July 1, 2004	1,501,235	2,633,817	1,132,582	57.0%	366,190	309.3%
July 1, 2005	1,777,656	2,725,272	947,616	65.2%	404,565	234.2%
July 1, 2006	1,867,293	2,894,295	1,027,002	64.5%	422,496	243.1%
July 1, 2007	2,193,745	3,128,713	934,968	70.1%	448,925	208.3%
July 1, 2008	2,310,384	3,296,370	985,986	70.1%	483,815	203.8%
July 1, 2009	2,284,442	3,451,410	1,166,968	66.2%	539,023	216.5%

Note: Dollar amounts in $000

Historical City Contribution Rates

Valuation Date	Calculated Contribution Rate[1]	Time Period for Contribution Rate	Actual Contribution Rate
(1)	(2)	(3)	(4)
July 1, 1987	5.83%	January 1, 1988 through December 31, 1988	5.15%
July 1, 1988	6.27	January 1, 1989 through December 31, 1989	5.15
July 1, 1989	6.88	January 1, 1990 through December 31, 1990	6.27
July 1, 1990	6.23	January 1, 1991 through December 31, 1991	6.27
July 1, 1991	8.77	January 1, 1992 through June 30, 1993	6.27
July 1, 1992	9.11	July 1, 1993 through June 30, 1994	9.11
July 1, 1993	9.30	July 1, 1994 through June 30, 1995	9.30
July 1, 1994	8.80	July 1, 1995 through June 30, 1996	8.80
July 1, 1995	9.20	July 1, 1996 through June 30, 1997	9.20
July 1, 1996	9.10	July 1, 1997 through June 30, 1998	9.10
		July 1, 1998 through June 30, 1999	9.10
July 1, 1998	9.30	July 1, 1999 through June 30, 2000	9.30
July 1, 1999	9.80	July 1, 2000 through June 30, 2001	10.00
July 1, 2000	9.50	July 1, 2001 through June 30, 2002	10.00
July 1, 2001	17.70	July 1, 2002 through June 30, 2003	10.00
July 1, 2002	31.80	July 1, 2003 through June 30, 2004	14.70
July 1, 2003	52.89	July 1, 2004 through June 30, 2005	92.55[2,3]
July 1, 2004	29.43	July 1, 2005 through June 30, 2006	15.49[3]
July 1, 2005	24.10	July 1, 2006 through June 30, 2007	15.89[3]
July 1, 2006	24.63	July 1, 2007 through June 30, 2008	15.52[4]
July 1, 2007	19.47	July 1, 2008 through June 30, 2009	14.63[4]
July 1, 2008	19.20	July 1, 2009 through June 30, 2010	N/A
July 1, 2009	20.07	July 1, 2010 through June 30, 2011	N/A

[1] Rate determined by the actuarial valuation is for the fiscal year beginning on the July 1st next following the valuation date.

[2] Includes $300 million note.

[3] As pursuant to the three year funding schedule from the 2004 Meet and Confer agreement.

Historical Active Participant Data

Valuation Date	Active Count	Average Age	Average Svc	Covered Payroll	Average Salary	Percent Changes
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1988	11,344	N/A	N/A	$227,900	$20,090	1.9%
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	$26,133	0.7%
1995	14,364	41.3	N/A	$378,511	$26,351	0.8%
1996	14,067	41.8	N/A	$367,610	$26,133	(0.8%)
1998 [1]	13,764	42.8	9.8	$394,919	$28,692	9.8%
1999 [1]	13,286	42.9	9.8	$396,617	$29,852	4.0%
2000 [1]	13,126	43.7	10.3	$421,591	$32,119	7.6%
2001 [1]	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	11,856	45.1	10.3	$366,190	$30,886	(4.1%)
2005 [2]	11,974	44.8	9.6	$404,565	$33,787	9.4%
2006	12,145	44.8	9.3	$422,496	$34,788	3.0%
2007	12,376	45.2	9.3	$448,925	$36,274	4.3%
2008	12,653	45.2	9.3	$483,815	$38,237	5.4%
2009	13,333	45.1	9.2	$539,023	$40,428	5.7%

Note: Dollar amounts in $000

[1] Excludes DROP participants

[2] Beginning with the 2005 valuation, a change in methodology now annualizes payroll for new entrants. If the methodology had not been changed, the covered payroll for 2005 would have been $376,208,345 and the average payroll would have been $31,419.

Retirees, Beneficiaries, and Disabled Participants Added to and Removed from Rolls

	Added to Rolls		Removed from Rolls		Rolls-End of Year			
Valuation July 1,	Number	Annual Allowances	Number	Annual Allowances	Number	Annual Allowances	% Increase in Annual Allowances	Average Annual 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	4,441	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	11.8%	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	15,061	306	2,476	5,928	72,256	24.8%	12,189
2003	598	11,497	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
2005	861	18,054	216	1,926	7,523	123,212	15.1%	16,378
2006	654	14,722	397	2,246	7,780	135,688	10.1%	17,441
2007	440	10,280	249	3,007	7,971	142,961	5.4%	17,935
2008	464	11,052	280	3,420	8,155	150,592	5.3%	18,466
2009	474	11,430	289	3,667	8,340	158,356	5.2%	18,988

Note: Dollar amounts in $000

Membership Data

	July 1, 2009 (1)	July 1, 2008 (2)	July 1, 2007 (3)
1. Active members			
a. Number	13,333	12,653	12,376
b. Number vested	7,392	7,234	7,374
c. Total payroll	$ 539,023,000	$ 483,815,000	$ 448,925,000
d. Average salary	40,428	38,237	36,274
e. Average age	45.1	45.2	45.2
f. Average service	9.2	9.3	9.3
2. Inactive participants			
a. Vested	2,884	2,931	2,922
b. Total annual benefits (deferred)	$ 19,598,333	$ 19,810,841	$ 18,906,765
c. Average annual benefit	6,796	6,759	6,470
d. NonVested	2,858	2,799	2,491
3. Service retirees			
a. Number	6,336	6,186	6,017
b. Total annual benefits	$ 138,122,560	$ 131,764,882	$ 125,245,967
c. Average annual benefit	21,800	21,300	20,815
d. Average age	66.7	66.7	66.3
4. Disabled retirees			
a. Number	415	428	446
b. Total annual benefits	$ 3,688,896	$ 3,647,751	$ 3,700,152
c. Average annual benefit	8,889	8,523	8,296
d. Average age	62.2	62.2	61.9
5. Beneficiaries and spouses			
a. Number	1,589	1,541	1,508
b. Total annual benefits	$ 16,544,378	$ 15,179,749	$ 14,014,497
c. Average annual benefit	10,412	9,851	9,293
d. Average age	66.4	68.5	68.7

Distribution of Group A Active Members by Age and by Years of Service

Attained Age	0 No. & Avg. Comp.	1 No. & Avg. Comp.	2 No. & Avg. Comp.	3 No. & Avg. Comp.	4 No. & Avg. Comp.	5-9 No. & Avg. Comp.	10-14 No. & Avg. Comp.	15-19 No. & Avg. Comp.	20-24 No. & Avg. Comp.	25-29 No. & Avg. Comp.	30-34 No. & Avg. Comp.	35 & Over No. & Avg. Comp.	Total No. & Avg. Comp.
Under 25	2	61	48	28	16	1							156
	$22,097	$25,986	$25,383	$27,796	$26,658	$28,381							$26,160
25-29	14	150	145	144	83	91							627
	$26,446	$31,256	$33,653	$34,257	$31,518	$30,723							$32,349
30-34	12	129	140	132	104	195	37	2					751
	$36,740	$33,649	$35,955	$34,207	$36,077	$37,716	$36,233	$44,651					$35,775
35-39	8	110	143	120	114	247	94	47	1				884
	$35,740	$35,616	$37,708	$38,983	$39,463	$39,384	$41,154	$41,511	$40,691				$38,870
40-44	15	78	137	117	137	284	158	162	57				1,145
	$40,198	$35,242	$38,301	$42,742	$41,352	$40,420	$44,610	$45,457	$42,553				$41,556
45-49	12	80	140	129	121	347	201	249	153	117	1		1,550
	$40,749	$34,995	$40,057	$39,648	$40,621	$40,464	$43,833	$47,162	$46,477	$46,250	$46,130		$42,638
50-54	8	66	121	122	114	287	215	245	201	139	39		1,557
	$31,200	$39,871	$37,100	$41,785	$42,920	$40,158	$46,764	$50,634	$53,458	$51,382	$52,694		$45,785
55-59	6	36	84	83	108	261	183	229	119	85	30	2	1,226
	$50,053	$52,001	$39,459	$39,367	$45,661	$43,817	$49,538	$49,615	$53,171	$52,376	$64,695	$35,394	$47,586
60-64	4	22	57	44	66	162	131	116	61	43	18	9	733
	$49,813	$55,229	$48,402	$51,671	$43,540	$45,129	$48,150	$53,314	$61,310	$55,194	$54,137	$70,333	$50,265
65 & Over		11	10	17	19	74	58	46	22	10	4	6	277
		$39,591	$60,648	$55,146	$41,634	$40,643	$45,585	$54,843	$57,384	$57,893	$81,722	$56,766	$48,569
Total	81	743	1,025	936	882	1,949	1,077	1,096	614	394	92	17	8,906
	$36,819	$35,309	$37,608	$39,098	$40,094	$40,383	$45,626	$48,925	$51,550	$50,654	$58,080	$61,434	$42,577

Average:	Age: 46.41	Number of participants:	Fully vested:	5,239	Males:	4,923
	Service: 9.66		Not Vested:	3,667	Females:	3,983

Note: A former Group A employee who is rehired on or after January 1, 2008 is still a Group A employee.

Distribution of Group B Active Members by Age and by Years of Service

Attained Age	0 No. & Avg. Comp.	1 No. & Avg. Comp.	2 No. & Avg. Comp.	3 No. & Avg. Comp.	4 No. & Avg. Comp.	5-9 No. & Avg. Comp.	10-14 No. & Avg. Comp.	15-19 No. & Avg. Comp.	20-24 No. & Avg. Comp.	25-29 No. & Avg. Comp.	30-34 No. & Avg. Comp.	35 & Over No. & Avg. Comp.	Total No. & Avg. Comp.
Under 25						3							3
						$30,559							$30,559
25-29						4	3						7
						$25,998	$33,963						$29,412
30-34						16	53						69
						$32,497	$33,852						$33,538
35-39						20	143	49	2				214
						$34,887	$36,719	$36,171	$34,283				$36,400
40-44						23	159	170	43				395
						$34,102	$35,935	$39,726	$36,528				$37,524
45-49						20	139	140	79	56			434
						$33,188	$36,660	$39,116	$37,266	$37,313			$37,487
50-54						16	136	164	75	46	9		446
						$40,186	$38,987	$39,475	$42,411	$42,659	$43,865		$40,262
55-59							115	131	52	21	7	2	336
							$37,369	$36,712	$42,444	$36,733	$41,566	$47,849	$38,167
60-64						6	57	59	33	17	2	1	175
						$35,839	$40,689	$39,782	$46,439	$46,105	$56,928	$31,205	$41,959
65 & Over						2	20	36	10	6			74
						$31,180	$38,702	$41,194	$48,269	$53,901			$42,236
Total						118	825	749	294	146	18	3	2,153
						$35,035	$37,151	$38,872	$40,770	$40,619	$44,422	$42,301	$38,431

Average:	Age:	48.98	Number of participants:	Fully vested:	2,153	Males:	1,086
	Service:	16.25		Not Vested:	0	Females:	1,067

Distribution of Group D Active Members by Age and by Years of Service

Attained Age	0 No. & Avg. Comp.	1 No. & Avg. Comp.	2 No. & Avg. Comp.	3 No. & Avg. Comp.	4 No. & Avg. Comp.	5-9 No. & Avg. Comp.	10-14 No. & Avg. Comp.	15-19 No. & Avg. Comp.	20-24 No. & Avg. Comp.	25-29 No. & Avg. Comp.	30-34 No. & Avg. Comp.	35 & Over No. & Avg. Comp.	Total No. & Avg. Comp.
Under 25	229	100											329
	$26,720	$27,726											$27,026
25-29	346	163											509
	$30,399	$29,882											$30,234
30-34	196	117											313
	$34,533	$32,602											$33,811
35-39	207	90											297
	$37,063	$33,300											$35,923
40-44	138	95											233
	$37,138	$34,639											$36,119
45-49	114	88											202
	$35,881	$38,475											$37,011
50-54	127	65											192
	$39,202	$39,154											$39,186
55-59	66	49											115
	$42,380	$40,999											$41,792
60-64	33	16											49
	$44,613	$44,320											$44,518
65 & Over	9	2											11
	$45,899	$52,325											$47,067
Total	1,486	788											2,274
	$33,990	$33,734											$33,901

Average:	Age:	35.98	Number of participants:	Fully vested:	-	Males:	1,184
	Service:	0.76		Not Vested:	2,274	Females:	1,090

Distribution of All Active Members by Age and by Years of Service All Employees

Attained Age	0 No. & Avg. Comp.	1 No. & Avg. Comp.	2 No. & Avg. Comp.	3 No. & Avg. Comp.	4 No. & Avg. Comp.	5-9 No. & Avg. Comp.	10-14 No. & Avg. Comp.	15-19 No. & Avg. Comp.	20-24 No. & Avg. Comp.	25-29 No. & Avg. Comp.	30-34 No. & Avg. Comp.	35 & Over No. & Avg. Comp.	Total No. & Avg. Comp.
Under 25	231	161	48	28	16	4							488
	$26,680	$27,067	$25,383	$27,796	$26,658	$30,014							$26,771
25-29	360	313	145	144	83	95	3						1,143
	$30,245	$30,540	$33,653	$34,257	$31,518	$30,524	$33,963						$31,389
30-34	208	246	140	132	104	211	90	2					1,133
	$34,660	$33,151	$35,955	$34,207	$36,077	$37,321	$34,831	$44,651					$35,096
35-39	215	200	143	120	114	267	237	96	3				1,395
	$37,014	$34,574	$37,708	$38,983	$39,463	$39,048	$38,478	$38,786	$36,419				$37,863
40-44	153	173	137	117	137	307	317	332	100				1,773
	$37,438	$34,911	$38,301	$42,742	$41,352	$39,946	$40,259	$42,522	$39,962				$39,944
45-49	126	168	140	129	121	367	340	389	232	173	1		2,186
	$36,344	$36,818	$40,057	$39,648	$40,621	$40,067	$40,900	$44,266	$43,341	$43,357	$46,130		$41,096
50-54	135	131	121	122	114	303	351	409	276	185	48		2,195
	$38,728	$39,515	$37,100	$41,785	$42,920	$40,160	$43,750	$46,159	$50,456	$49,213	$51,038		$44,086
55-59	72	85	84	83	108	261	298	360	171	106	37	4	1,677
	$43,019	$45,659	$39,459	$39,367	$45,661	$43,817	$44,842	$44,920	$49,909	$49,277	$60,319	$41,621	$45,302
60-64	37	38	57	44	66	168	188	175	94	60	20	10	957
	$45,175	$50,636	$48,402	$51,671	$43,540	$44,797	$45,888	$48,752	$56,089	$52,619	$54,416	$66,420	$48,452
65 & Over	9	13	10	17	19	76	78	82	32	16	4	6	362
	$45,899	$41,550	$60,648	$55,146	$41,634	$40,394	$43,820	$48,851	$54,536	$56,396	$81,722	$56,766	$47,229
Total	1,567	1,531	1,025	936	882	2,067	1,902	1,845	908	540	110	20	13,333
	$34,136	$34,498	$37,608	$39,098	$40,094	$40,078	$41,950	$44,844	$48,060	$47,941	$55,845	$58,564	$40,428

Average:	Age:	45.06	Number of participants:	Fully vested:	7,392	Males:	6,009
	Service:	9.19		Not Vested:	5,941	Females:	7,324

Summary of Actuarial Assumptions and Methods

The following methods and assumptions were used in preparing the July 1, 2008, actuarial valuation. These assumptions were adopted by the Board effective for the July 1, 2004 valuation.

1. <u>Valuation Date</u>

   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. <u>Actuarial Cost Method</u>

   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 to meet the cost of all benefits payable on his behalf based on the benefits provisions for new employees hired on or after January 1, 2008.

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. <u>Actuarial Value of Assets</u>

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. <u>Economic Assumptions</u>

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 0.0% general increase, as follows:

Years of Service	Service-related Component	Total Annual Rate of Increase Including 3.00% Inflation Component and 0.0% General Increase Rate
(1)	(2)	(3)
0	2.50%	5.50%
1	2.00	5.00
2	1.75	4.75
3	1.25	4.25
4	1.00	4.00
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. <u>Demographic Assumptions</u>

a. Retirement Rates

	Expected Retirements per 100 Lives			
	Group A & B Members		Group D Members	
Age	Males	Females	Males	Females
(1)	(2)	(3)	(4)	(5)
50	20	13	5	5
51-54	14	13	5	5
55	14	15	6	6
56	14	15	7	7
57	14	15	8	8
58	14	15	9	9
59	14	15	10	10
60	16	16	12	12
61	16	18	15	15
62	30	30	35	35
63	30	25	25	25
64	22	25	22	25
65	28	25	28	25
66-69	22	19	22	19
70	100	100	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 Disabled 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	Healthy Males	Healthy Females	Disabled Males	Disabled Females
(1)	(2)	(3)	(6)	(7)
25	0.07	0.03	4.41	4.41
30	0.09	0.04	4.41	4.41
35	0.09	0.05	4.41	4.41
40	0.12	0.08	4.41	4.41
45	0.19	0.11	4.43	4.41
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. <u>Other Assumptions</u>

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.

i. Pay increase timing**:** Beginning of (fiscal) year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the valuation date.

j. Decrement timing: Decrements of all types are assumed to occur mid-year.

k. Eligibility testing: Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.

l. Decrement relativity: Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.

m. Incidence of Contributions**:** Contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.

n. Benefit Service: All members are assumed to accrue 1 year of service each year**.** Exact fractional service is used to determine the amount of benefit payable.

7. Participant Data

Participant data was supplied on electronic files. There were separate files for (i) active members, (ii) inactive members, and (ii) members and beneficiaries receiving benefits.

The data for active members included birth date, sex, most recent hire date, salary paid during last fiscal year, hours worked by the employee, and employee contribution amounts. For retired members and beneficiaries, the data included date of birth, sex, amount of monthly benefit, and date of retirement. Also included was the member's Group and for members participating in DROP, their account balances and monthly DROP income.

All healthy and disabled retirees are assumed to have 100% joint and survivor, prorated by the 70% marriage assumption and reflecting the 3 year spousal age differential. All non-children beneficiaries are assumed to have life only benefits and all children beneficiaries' annuities are assumed to stop at age 21.

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.

In fiscal years when a 27^{th} pay period occurs the individual pays for employees who were employed throughout the year will be adjusted by multiplying their reported pay by the ratio of 26/27. In years that have only 26 pay periods no adjustment would be needed.

Assumptions were made to correct for missing, bad, or inconsistent data. These had no material impact on the results presented.

8. Group Transfers

Beginning with the July 1, 2006 valuation it as assumed that 20% of the then current Group B members would transfer to Group A at the rate of 5% per year for the next four years. As of the July 1, 2009 valuation we still would have had one year of the assumption remaining and therefore would have assumed that 5% of the Group B members will transfer to Group A. However, due to actual experience and the immateriality of making this assumption, we have removed this assumption and now assume no current Group B members will transfer to Group A. This change had no impact on the actuarial valuation.

Summary of Plan Provisions

The provisions summarized in this section apply to persons who are members (active employees). Former members may have been covered under different plan provisions, depending on their dates of separation from service.

1. Covered Members

   Any person who is a participant of Group A, under the original act.

   Persons who became employees of the City of Houston after September 1, 1981 and prior to September 1, 1999, and elected officials of the City of Houston who assumed office after September 1, 1981 and prior to September 1, 1999, 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 and prior to January 1, 2008 become members of Group A. Certain persons who were or became a Director of a City Department, Chief Financial Executive, or Executive Director of HMEPS on or after September 1, 1999 and prior to January 1, 2005 participate in Group C. Effective January 1, 2005, all Group C participation ceased and all Group C participants became Group A participants. Accruals earned by Group C participants prior to January 1, 2005 are retained, but all future accruals are 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.

   Covered employees newly hired on or after January 1, 2008 will be members of Group D.

   A former employee who is rehired on or after January 1, 2008 is a member of the group in which such employee participated at the time of his/her immediately preceding separation from service.

2. Monthly 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 thirty-six. Salary includes base pay, longevity pay, and any shift differential pay.

3. Credited Service

   All services and work performed by an employee, including prior service. For members of Group A and former Group C, all services and work performed after September 1, 1943 must have been accompanied by corresponding contributions to HMEPS by the employee or legally authorized repayments must have been made.

Credited service for former 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 former 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 January 1, 2005 (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

For employees newly hired on or after January 1, 2008 (Group D):

Age 62 and 5 years of Credited Service

b. Benefit 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 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.

Group D: 1.80% of FAS for each of the first 25 years of Credited Service, and 1.00% of FAS for each year of Credited Service over 25. Maximum benefit is 90% of FAS for all future retirees.

5. Vested Pension

a. Eligibility 5 years of Credited Service.

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 employee contributions, if any, without interest.

Group B and Group D: Accrued normal retirement benefit payable at the normal retirement eligibility date.

If the actuarial present value of a pension is less than $20,000, 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-Connected 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 and Group D: Accrued normal retirement benefit, but not less than 20% of final monthly salary at time of disability.

8. Non-service-Connected Disability Retirement

a. Eligibility — 5 years of Credited Service.

b. Benefit — Accrued normal retirement benefit payable immediately.

9. Pre-retirement Survivor Benefits

A. Service-connected

a. Eligibility — Any age or Credited Service

b. Benefit — 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 — Benefits for survivorship and terminated vested Group D members after January 1, 2008:

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.

For all other Groups 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

All Groups except Group D members:

If there is a surviving spouse, 100% of the retirement benefit 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.

Group D members:

Life only to the retiree. Group D members may elect other options based on actuarial factors.

11. Benefit Adjustments

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. However, pre-2005 retirees who are rehired will receive a 3% COLA on their subsequent benefit instead.

Group D Members:

None assumed. Group D members may elect an actuarially equivalent optional form of payment with a COLA feature.

12. Contribution Rates.

a. Members — 5% of salary only for Group A members. None for Group B or Group D 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. As negotiated in the meet and confer agreement, the city contributions will be \$69 million for FY2006, \$72 million for FY2007, \$75 million for FY2008, \$78.5 million for FY2009, \$83.5 million for FY2010, and \$88.5 million for FY2011.

13. Deferred Retirement Option

a. Eligibility — Participants (other than Group D) 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 — An amount equal to the 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 calendar day each month.

c. DROP Credits-Interest — 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 and posted monthly on the last calendar day of each month. Effective January 1, 2005, the annual interest rate effective beginning January 1 each year is half of HMEPS' investment return percentage for the prior fiscal year, not less than 2.5% and not greater than 7.5%.

d. DROP Credits-COLA

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 by 3.0%, not compounded.

The Monthly DROP Credit for participants who were first hired on or after January 1, 2005 who entered the DROP effective on or before January 1 of the then current year will be increased effective February 1 each year by 2.0%, not compounded.

e. DROP Account Balance

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

14. DROP 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. Receive a partial payment of not less than $1,000, no more than once each six months.
e. Defer election of a payout option until a future date.

15. Post DROP Retirement

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

Changes in Plan Provisions Since Prior Year

None.