

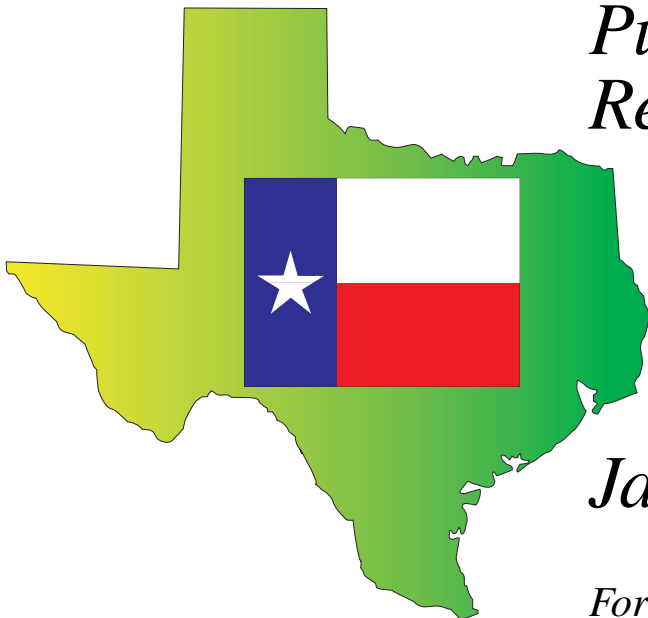
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# TEXPERS

## Report on the Asset Allocation and Investment Performance of Texas Public Employee Retirement Systems

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*The Texas Association of  
Public Employee  
Retirement Systems*

*January 2008*

*For Periods Ending September 30, 2007*





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**Fredric D. Richmond, CFA**

# Key Findings

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- Fifty-four percent of surveys mailed to TEXPERS members were returned with complete data, an excellent response percentage.
- Survey respondents had a total market value of \$24.2 billion. The average asset allocation of the survey respondents was 55.7% percent in equity, 26.6% in fixed income, 8.0% in real estate and 9.7% in other asset classes.
- When measuring investment performance for survey respondents as a group over the ten year period ending September 30, 2007 the respondents' composite investment return was 8.7%, compared to the average actuarial investment return assumption of 8.2%.
- For the ten years ended September 30, 2007 survey respondents averaged a 8.7% return, compared to a 8.1% return for the Wilshire Median Public Fund over the same period.
- A \$100 investment in the survey respondents' aggregate portfolio on September 30, 1995 would have grown to \$321.55 at September 30, 2007. This compares to \$258.57 for \$100 growing at the 8.2% average actuarial return assumption for the same period.
- Equity allocations of individual survey respondents range from 39.91% to 76.30% whereas fixed income allocations range from 17.16% to 43.37%.
- Even given the extraordinarily difficult market environment of 2000-2002 the ten year average return of the survey respondents exceeded the average actuarial return assumption of 8.2% by 0.5%.

# Introduction

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This report reviews the asset allocation and investment performance for local pension systems that are members of the Texas Association of Public Employee Retirement Systems (TEXPERS) for the one, three, five and ten year periods ending September 30, 2007. Both the aggregate TEXPERS and individual systems' asset allocation as well as investment performance will be examined.

The purpose of this report is to document TEXPERS member systems' diversification with respect to the types of assets invested in, and the investment performance of these systems with respect to their actuarially assumed returns, market benchmarks and other public funds. This will demonstrate that local systems are being managed in compliance with the "prudent expert" rule, which requires fiduciaries of the system exercise their duties with the care, skill, prudence and diligence under the prevailing circumstances that a prudent person acting in a like capacity and familiar with matters of the type would use in the conduct of an enterprise with a like character and like aims.

Individual pension system data in this report was obtained from a December 2007 survey requesting asset allocation and investment return information from TEXPERS members. A total of eighty surveys were sent to TEXPERS members. Fifty-two surveys were completed and returned, a sixty-five percent response. Forty-three responses, or fifty-four percent, had the five year quarterly return history required for inclusion in the study. Fifty-four percent is considered an excellent response percentage for surveys. The member systems responding represent assets of approximately \$24.2 billion. A copy of the survey is contained in Appendix 1 and a listing of TEXPERS members responding to the survey is contained in Appendix 2. Respondents that agreed to have their name disclosed in this report are listed in Appendix 3. A listing of actuarial return assumptions is in Appendix 4.

Thanks to Wilshire Associates, Inc. for providing the market return and peer group comparison data.

# TEXPERS Composite

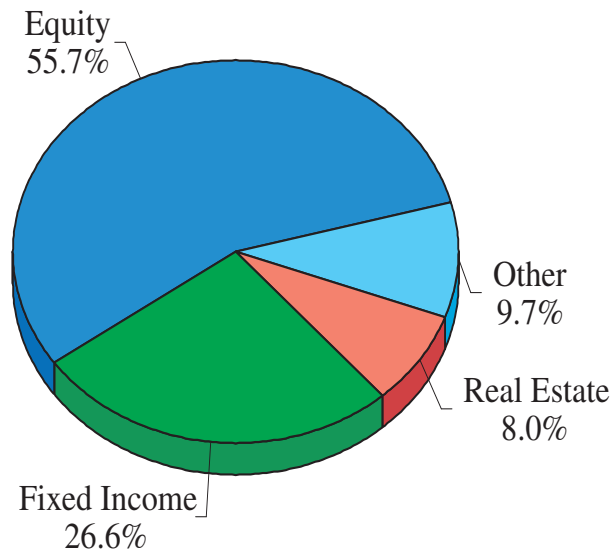
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## Asset Allocation

Figure 1 illustrates the average asset allocation of survey respondents as a composite group. The equity asset class includes investments such as domestic and international common stocks. Fixed income includes investments such as government and corporate bonds from domestic and international issuers. Real estate includes both publicly or privately traded real estate securities and direct investments in properties. Other includes all assets not falling into one of the previous classes.

*Figure 1*

Market Value \$24.2 Billion  
As of September 30, 2007



The average equity allocation of 55.7% demonstrates that, in aggregate, the respondents have a level of equity investment within the norm for public pension systems, as generally defined by “prudent experts”.

# Investment Performance

## Trailing Period Returns - Table

Table 1

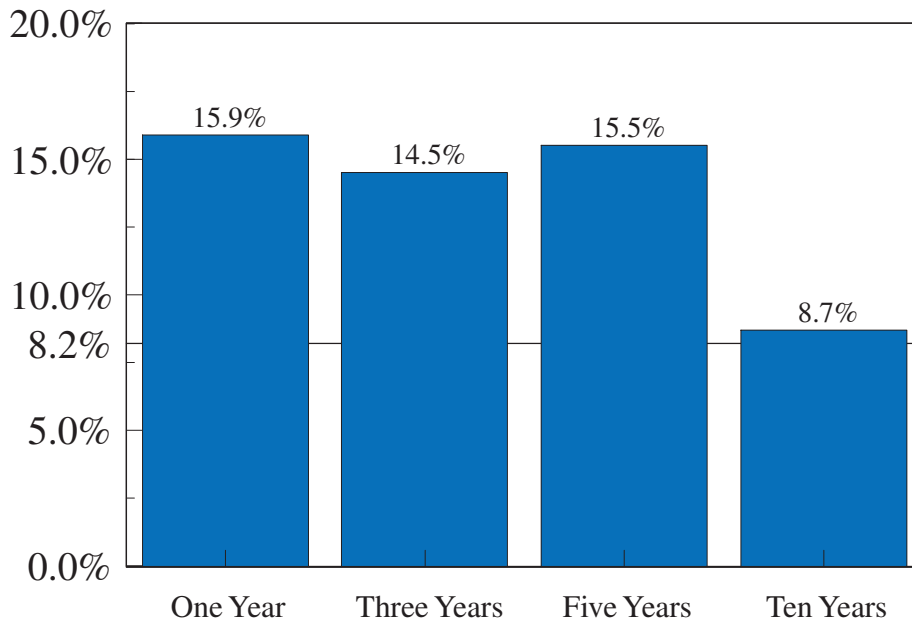
Annualized Returns for the Periods Ending 9/30/2007	One Year	Three Years	Five Years	Ten Years
TEXPERS Average	15.9	14.5	15.5	8.7
Avg. Actuarial Assumption	8.2	8.2	8.2	8.2

Table 1 and Figure 2 compare the survey respondents average investment return over the one, three, five and ten year periods ending September 30, 2007 to their average actuarial investment return assumption of 8.2%. Even given the extraordinarily difficult market environment of 2000-2002 the ten year return of 8.7% exceeds the actuarial return assumption of 8.2%. This demonstrates that TEXPERS members as a group produce long-term rates of return in excess of the average return expectation of the group.

## Trailing Period Returns - Chart

Figure 2

### Returns vs. Average Actuarial Assumption For Periods Ending 9/30/2007



## Growth of \$100

Figure 3

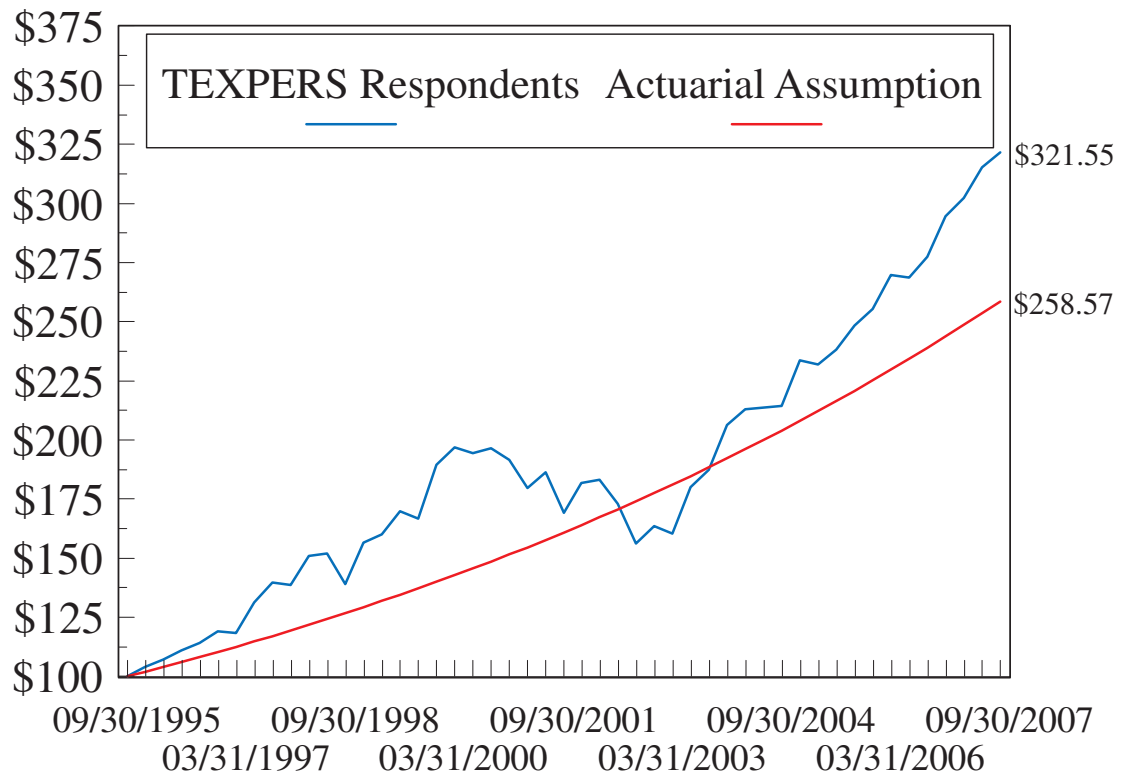


Figure 3 displays the growth of \$100 as if it were invested on September 30, 1995 in the survey respondents' aggregate portfolio. This is compared to \$100 invested in a hypothetical portfolio growing at the 8.2% average actuarial assumption. As can be seen from this exhibit, over the period ending September 30, 2007, \$100 invested in the TEXPERS respondents' portfolio has grown to \$321.55 versus \$258.57 in the 8.2% actuarially assumed return portfolio.

TEXPERS member systems as a group have performed in excess of their actuarial investment return assumption over the twelve years ending September 30, 2007.

# Individual Pension Systems

## Asset Allocation

Table 2 details the percentage allocation to the major asset classes by each survey respondent. Equity allocations range from 39.91% to 76.30%, fixed income allocations range from 17.16% to 43.37% and real estate allocations range from 0.00% to 20.43%.

Table 2

	Equity	Fixed Income	Real Estate	Other		Equity	Fixed Income	Real Estate	Other	
Fund 1	56.63%	43.37%	0.00%	0.00%		Fund 23	63.67%	29.38%	5.50%	1.45%
Fund 2	63.15%	32.67%	2.75%	1.43%		Fund 24	64.18%	19.07%	6.31%	10.44%
Fund 3	70.33%	22.17%	7.46%	0.04%		Fund 25	66.25%	33.75%	0.00%	0.00%
Fund 4	62.13%	25.31%	10.19%	2.37%		Fund 26	67.77%	32.23%	0.00%	0.00%
Fund 5	65.38%	28.64%	5.98%	0.00%		Fund 27	43.01%	30.40%	13.27%	13.32%
Fund 6	74.06%	25.94%	0.00%	0.00%		Fund 28	47.31%	21.83%	17.39%	13.47%
Fund 7	68.97%	31.03%	0.00%	0.00%		Fund 29	64.71%	35.29%	0.00%	0.00%
Fund 8	50.42%	33.53%	2.62%	13.43%		Fund 30	62.05%	37.95%	0.00%	0.00%
Fund 9	63.84%	25.73%	10.43%	0.00%		Fund 31	51.45%	33.14%	2.46%	12.95%
Fund 10	67.18%	32.82%	0.00%	0.00%		Fund 32	70.58%	29.42%	0.00%	0.00%
Fund 11	61.62%	29.28%	9.10%	0.00%		Fund 33	63.98%	36.02%	0.00%	0.00%
Fund 12	63.02%	27.68%	9.30%	0.00%		Fund 34	59.50%	30.75%	0.00%	9.75%
Fund 13	67.65%	32.35%	0.00%	0.00%		Fund 35	50.78%	32.86%	3.01%	13.35%
Fund 14	74.19%	25.81%	0.00%	0.00%		Fund 36	52.89%	22.91%	8.41%	15.79%
Fund 15	76.30%	23.70%	0.00%	0.00%		Fund 37	66.10%	28.52%	5.38%	0.00%
Fund 16	44.94%	29.75%	0.01%	25.30%		Fund 38	53.96%	41.88%	4.16%	0.00%
Fund 17	63.65%	36.35%	0.00%	0.00%		Fund 39	58.99%	41.01%	0.00%	0.00%
Fund 18	56.29%	34.61%	0.00%	9.10%		Fund 40	65.68%	24.48%	9.84%	0.00%
Fund 19	76.25%	23.75%	0.00%	0.00%		Fund 41	67.62%	27.39%	4.80%	0.19%
Fund 20	67.31%	24.78%	7.91%	0.00%		Fund 42	60.93%	34.52%	4.55%	0.00%
Fund 21	65.09%	17.16%	5.86%	11.89%		Fund 43	65.88%	34.03%	0.09%	0.00%
Fund 22	39.91%	20.52%	20.43%	19.14%						

## Investment Performance

Table 3 lists investment returns for survey respondents over the one, three, five and ten year periods ending September 30, 2007. For comparison purposes, a benchmark of 60% of the Wilshire 5000 index and 40% of the Lehman Brothers Aggregate index returned 12.2% for the one year, 9.9% for the three years, 11.6% for the five years and 7.0% for the ten years ended September 30, 2007.

Table 3

	One Year	Three Years	Five Years	Ten Years		One Year	Three Years	Five Years	Ten Years	
Fund 1	11.84%	9.61%	10.90%	7.06%		Fund 23	15.60%	12.94%	13.01%	8.45%
Fund 2	12.53%	11.79%	11.67%	6.62%		Fund 24	14.54%	14.09%	15.89%	8.16%
Fund 3	17.84%	13.35%	14.65%	N/A		Fund 25	16.61%	12.23%	12.23%	8.18%
Fund 4	11.58%	9.94%	13.31%	9.39%		Fund 26	14.47%	11.62%	12.09%	N/A
Fund 5	15.60%	13.64%	14.09%	8.92%		Fund 27	17.38%	17.59%	17.15%	8.68%
Fund 6	14.64%	11.64%	12.58%	7.24%		Fund 28	19.39%	17.14%	18.36%	9.85%
Fund 7	13.65%	9.11%	10.64%	5.90%		Fund 29	19.20%	9.98%	10.14%	5.98%
Fund 8	15.39%	14.54%	14.60%	8.87%		Fund 30	14.37%	12.33%	11.50%	8.17%
Fund 9	15.37%	12.06%	12.21%	N/A		Fund 31	15.14%	14.20%	14.25%	9.86%
Fund 10	13.11%	11.12%	12.62%	7.04%		Fund 32	10.79%	8.90%	10.61%	8.46%
Fund 11	20.66%	16.03%	14.74%	6.79%		Fund 33	14.37%	11.35%	12.23%	6.76%
Fund 12	14.24%	14.41%	15.99%	8.56%		Fund 34	14.30%	11.85%	12.37%	8.79%
Fund 13	13.32%	11.13%	12.52%	8.16%		Fund 35	15.02%	14.23%	13.98%	8.40%
Fund 14	15.48%	12.76%	13.39%	7.70%		Fund 36	16.67%	13.58%	13.77%	8.35%
Fund 15	15.06%	12.97%	14.55%	N/A		Fund 37	13.71%	12.34%	13.62%	8.08%
Fund 16	15.59%	14.42%	16.23%	9.11%		Fund 38	12.79%	7.94%	6.61%	N/A
Fund 17	16.62%	12.92%	12.93%	6.68%		Fund 39	12.74%	11.62%	12.67%	7.52%
Fund 18	15.23%	10.96%	11.81%	5.86%		Fund 40	14.68%	12.02%	11.42%	N/A
Fund 19	15.35%	11.90%	12.74%	7.32%		Fund 41	16.84%	11.96%	11.84%	N/A
Fund 20	22.67%	16.40%	16.31%	8.80%		Fund 42	12.57%	10.01%	11.58%	7.39%
Fund 21	12.93%	13.57%	14.42%	10.32%		Fund 43	17.72%	17.42%	16.22%	8.75%
Fund 22	18.12%	15.48%	14.68%	9.23%						

# Five Year Return versus Standard Deviation

Figure 4

For the Five Years Ending September 30, 2007

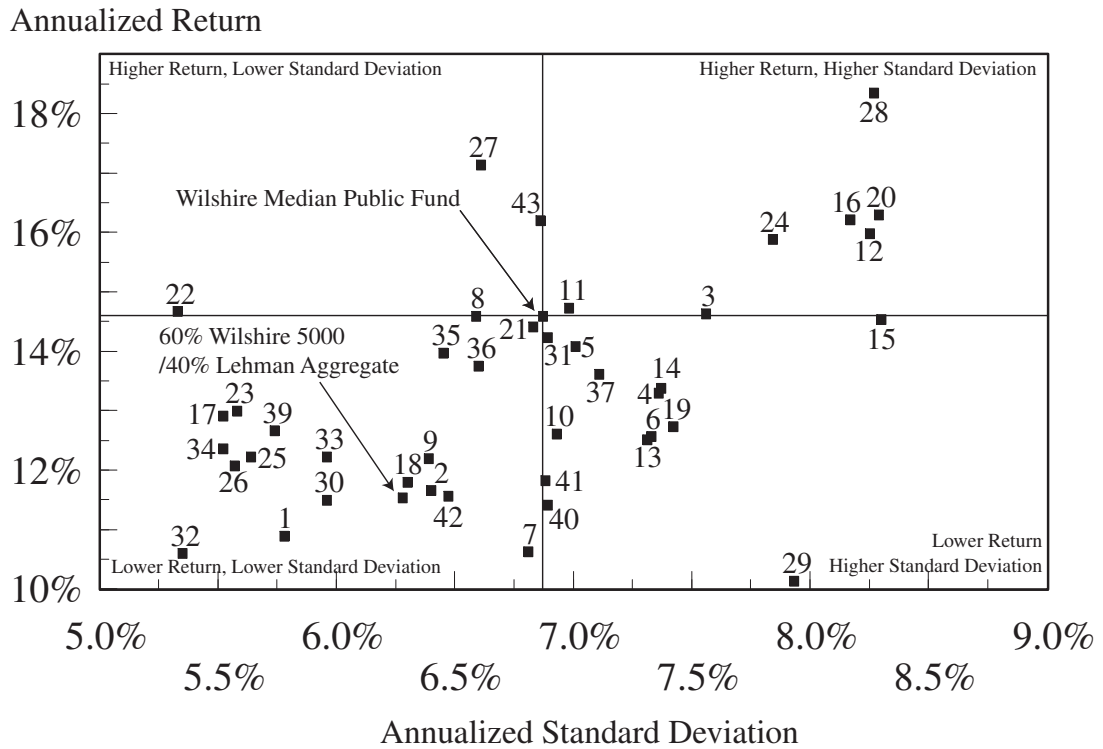


Figure 4 shows the five year return and standard deviation characteristics of the individual TEXPERS survey respondents versus two benchmarks. The first benchmark defines the four quadrants and is the Wilshire Public Funds Universe, provided by Wilshire Associates, Inc., which represents the returns of all Wilshire’s public fund clients. The second benchmark is a combination of 60% of the Wilshire 5000 equity index and 40% of the Lehman Brothers Aggregate fixed income index. Annualized return and standard deviation are based on quarterly returns for the period. Standard deviation is a measure of the dispersion or volatility of the quarterly returns around their average value.

The points representing the performance of the TEXPERS survey respondents are located in all four quadrants of the chart. Four respondents are located in the most desirable northwest quadrant, indicating higher returns with less standard deviation than the benchmark. Twenty-five respondents are located in the northeast or southwest quadrants, indicating reasonable return versus standard deviation trade-offs. That is, they have either a higher return with a higher standard deviation, or a lower return with a lower standard deviation, than the benchmark. Thirteen respondents are located in the least desirable southeast quadrant, where return is lower and standard deviation is higher than the benchmark.

# Ten Year Return versus Standard Deviation

Figure 5

For the Ten Years Ending September 30, 2007

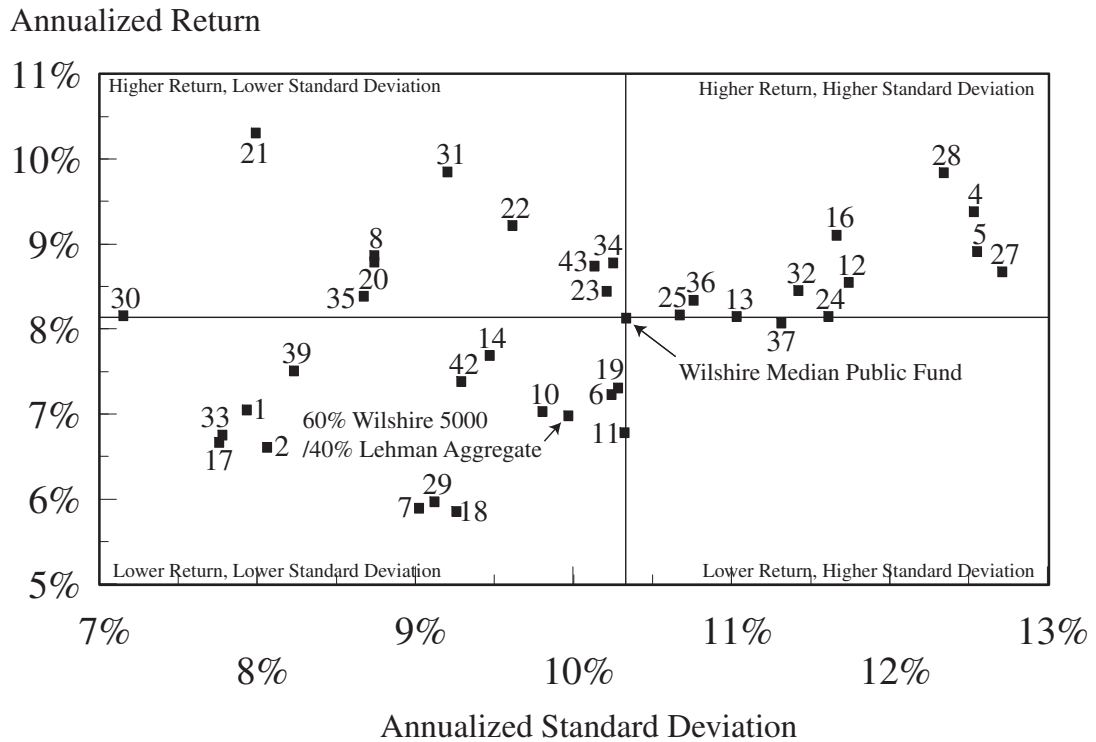


Figure 5 shows ten year return and standard deviation characteristics of individual TEXPERS survey respondents versus two benchmarks. The first benchmark defines the four quadrants and is the Wilshire Public Funds Universe, provided by Wilshire Associates, Inc., which represents the returns of all Wilshire’s public fund clients. The second benchmark is a combination of 60% of the Wilshire 5000 equity index and 40% of the Lehman Brothers Aggregate fixed income index. Annualized return and standard deviation are based on quarterly returns for the period. Standard deviation is a measure of the dispersion or volatility of the quarterly returns around their average value.

The points representing the performance of the TEXPERS survey respondents are located in all four quadrants of the chart. Ten respondents are located in the most desirable northwest quadrant, indicating higher returns with less standard deviation than the benchmark. Twenty-five respondents are located in the northeast or southwest quadrants, indicating reasonable return versus standard deviation trade-offs. That is, they have either a higher return with a higher standard deviation, or a lower return with a lower standard deviation, than the benchmark. One respondent is located in the least desirable southeast quadrant, where return is lower and standard deviation is higher than the benchmark.

# Appendix 1

## Investment Return Survey of TEXPERS Defined Benefit Plans

Fund Name: \_\_\_\_\_  
 Prepared by \_\_\_\_\_  
 Title of Preparer: \_\_\_\_\_  
 Voice/Fax/EMail: \_\_\_\_\_ / \_\_\_\_\_  
 E-mail Address: \_\_\_\_\_

### Market Value Data (dollars)

Please provide market values as of September 30, 2007. These do not have to be audited numbers as custodial market values are sufficient. However, please do not change asset classes.

Asset Class	Market Value
Equity (incl. US & Non-US, Emerging Mkt.)	
Fixed Income (incl. Global Fixed, STIF, Cash)	
Real Estate (incl. Direct and REITS)	
Other (i.e. Private Equity, Alternatives, etc.)	
Total Plan	

### Total Fund Rates of Return (Percents)

All returns must be actual total fund quarterly returns and should not be annualized. The returns must include both income & changes in market value; income yields alone are not sufficient. If your fund WAS in last year's report only the four quarters ending Sep. 30, 2007 are required. Please note that the Dec. 31 return is for the quarter ended, NOT the year ended:

Quarter Ended =>	Mar. 31	Jun. 30	Sep. 30	Dec. 31
2007				-----
2006	-----	-----	-----	

If your fund WAS NOT in last year's performance report, you will need to provide actual (not annualized) quarterly returns for **at least the trailing five years:**

Quarter Ended =>	Mar. 31	Jun. 30	Sep. 30	Dec. 31
2007				-----
2006				
2005				
2004				
2003				
2002				
2001				
2000				
1999				

Actuarial Investment Return Assumption: \_\_\_\_\_

OK to identify fund by name in the performance report (circle one): YES NO

## Appendix 2

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### List of TEXPERS Survey Respondents

Abilene Firemen's Relief & Retirement Fund  
Amarillo Firemen's Relief & Retirement Fund  
Austin Employees' Retirement System  
Austin Fire Fighters Relief & Retirement Fund  
Austin Police Retirement System  
Beaumont Firemen's Relief & Retirement Fund  
Big Spring Firemen's Relief & Retirement Fund  
Corpus Christi Fire Fighters' Retirement System  
Corsicana Firefighters Relief & Retirement Fund \*  
Dallas Employees' Retirement Fund  
Dallas Police & Fire Pension System  
DART Employees' DB Retirement Plan & Trust  
Denison Firemen's Relief & Retirement Fund  
El Paso City Employees' Pension Fund  
El Paso Firemen & Policemen's Pension Fund  
Floresville Electric Light & Power System \*  
Fort Worth Employees' Retirement Fund  
Galveston Employees' Retirement Fund  
Galveston Firemen's Relief & Retirement Fund \*  
Galveston Pension Plan for Police  
Greater Texoma Utility Authority Retirement Plan \*  
Greenville Firemen's Relief & Retirement Fund \*  
Harlingen Firemen's Relief & Retirement Fund  
Houston Municipal Employees Pension System  
Houston Police Officers' Pension System  
Irving Firemen's Relief & Retirement Fund  
Irving Supplemental Benefit Plan  
Killeen Firemen's Relief & Retirement Fund  
Longview Firemen's Relief & Retirement Fund  
Lower Colorado River Authority Retirement Plan & Trust  
Lubbock Firemen's Relief & Retirement Fund  
Lufkin Firemen's Relief & Retirement Fund \*  
McAllen Firemen's Pension Fund  
Metropolitan Transit Auth. of Harris County- Non-Union Pension Plan  
Metropolitan Transit Auth. Transport Workers- Union Pension Plan-Local 260, AFL-CIO  
Midland Firemen's Relief & Retirement Fund  
Odessa Firefighters' Relief & Retirement Fund  
Orange Firemen's Relief & Retirement Fund  
Plainview Fireman's Relief & Retirement Fund  
Plano Retirement Security Plan \*  
San Antonio City Public Service Pension Plan  
San Antonio Fire and Police Pension Fund  
Startran, Inc. Retirement Plan \*  
Sweetwater Firemen's Relief & Retirement Fund  
Temple Firemen's Pension Fund  
Texarkana Firemen's Relief and Pension Fund  
Texas City Fireman's Relief and Retirement Fund \*  
Texas Emergency Services Retirement System  
Tyler Firefighters Relief and Retirement Fund  
University Park Firefighters Relief and Retirement Fund  
VIA Metropolitan Transit Retirement Plan  
Waxahachie Firemen's Relief & Retirement Fund

\* Responded, but was unable to provide sufficient data for inclusion in the report.

# Appendix 3

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## Respondent Fund Number - Name Cross Reference

<b>Number</b>	<b>Name</b>
18	Abilene Firemen's Relief & Retirement Fund
25	Amarillo Firemen's Relief & Retirement Fund
37	Austin Employees' Retirement System
5	Austin Fire Fighters Relief & Retirement Fund
22	Austin Police Retirement System
10	Beaumont Firemen's Relief & Retirement Fund
31	Big Spring Firemen's Relief & Retirement Fund
33	Corpus Christi Fire Fighters' Retirement System
12	Dallas Employees' Retirement Fund
40	DART Employees' DB Retirement Plan & Trust
20	Denison Firemen's Relief & Retirement Fund
43	El Paso Firemen & Policemen's Pension Fund
35	Harlingen Firemen's Relief & Retirement Fund
27	Houston Municipal Employees Pension System
3	Irving Firemen's Relief & Retirement Fund
17	Killeen Firemen's Relief & Retirement Fund
1	Lower Colorado River Authority Retirement Plan & Trust
23	Lubbock Firemen's Relief & Retirement Fund
34	McAllen Firemen's Pension Fund
19	Metro. Transit Auth. of Harris County - Non-Union Pension Plan
6	Metro. Transit Auth. Transport Workers - Union Pension Plan-Local 260, AFL-CIO
8	Sweetwater Firemen's Relief & Retirement Fund
39	Temple Firemen's Pension Fund
2	Texarkana Firemen's Relief and Pension Fund
26	Tyler Firefighters Relief and Retirement Fund
11	University Park Firefighters Relief and Retirement Fund
42	VIA Metropolitan Transit Retirement Plan
13	Waxahachie Firemen's Relief & Retirement Fund

# Appendix 4

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## Respondent Fund Number - Actuarial Return Assumption

Number	Assumption
1	7.75%
2	8.00%
3	8.25%
4	8.00%
5	7.75%
6	8.00%
7	7.50%
8	8.00%
9	8.00%
10	8.00%
11	8.00%
12	8.25%
13	8.00%
14	8.00%
15	8.00%
16	8.50%
17	8.00%
18	8.00%
19	8.00%
20	7.75%
21	8.50%
22	8.00%
23	8.00%
24	8.50%
25	8.25%
26	8.00%
27	8.50%
28	8.50%
29	8.00%
30	8.00%
31	8.00%
32	8.00%
33	8.00%
34	7.50%
35	8.00%
36	8.00%
37	7.75%
38	7.00%
39	7.75%
40	8.00%
41	8.00%
42	8.00%
43	8.00%