

# **General Session**

# **TEXPERS** Asset Allocation Study



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Forty-two participating members contributed data for the fiscal year 2020 Asset Allocation and Investment Performance of Texas Public Employee Retirement Systems, and represented approximately \$54.98 billion in total assets.

- Participating TEXPERS members' FY 2020 dollar-weighted asset allocation (for the fiscal year ending September 30, 2020) was: equities (domestic, international, and global), 45.99%; alternative strategies, 30.20%; fixed income, 16.22%; and short-term securities/cash/other, 7.59%. As Equities and alternatives have performed well relative to traditional fixed income over the last several years the TEXPERS plans have benefited with significant allocations to both areas.
- In terms of relative performance, TEXPERS members have on a weighted average basis performed in line with the current average actuarial target of 7.4% over the 5 and 10 year time horizons. The group's weighted average performance has also outperformed a global 60/40 benchmark over long-term periods (10, 15 & 20 years), but slightly underperformed the benchmark over shorter horizons (1, 3 & 5 years).
- The S&P 500 experienced a peak to trough decline of over 35% during March and April of 2020 in response to the Covid-19 pandemic. Despite that significant recent decline, TEXPERS programs averaged a positive one year return of 4.6% for the year ending September 30, 2020.



# Weighted Average TEXPERS Asset Allocation



The asset allocation demonstrates that, in aggregate, the respondents have a level of diversification within the norm for public pension systems.

\* Dollar-weighted means that individual responses are weighted according to size of the asset base when calculating the average results – meaning that responses from large participants have a greater impact on average results than those of smaller participants.



# Weighted Average TEXPERS Allocation to Alternatives

Figure 2

#### Alternative Strategies Breakout



\* Marketable Alternative Strategies include Hedge Funds, Absolute Return, Market Neutral, Long/Short, 130/30 Strategy, Event Driven and Derivatives





## **Allocation Dispersion**







## **Investment Performance**

**Trailing Period Returns - Chart** 

Figure 3

Returns vs. Average Actuarial Assumption\* For periods ending September 30, 2020





## **Investment Performance**

Annualized Returns for the Periods Ending 9/30/2020	One Year	Three Years	Five Years	Ten Years	Fifteen Years	Twenty Years
TEXPERS Weighted Average	4.6	5.4	7.4	7.3	6.4	6.0
60/40 Benchmark*	9.3	6.2	8.0	6.2	5.7	5.2



\* 60% MSCI ACWI / 40% Bloomberg Barclays Global Aggregate



## **Risk vs Return: 5 Year Time Horizon**



▲ 60% MSCI ACWI/ 40% Bloomberg Barclays Global Aggregate

 $\times$ Wilshire Median Public Fund

• 60% Wilshire 5000/ 40% Bloomberg Barclays US Aggregate



# **Risk vs Return: 5 Year Time Horizon**





# **Risk vs Return: 5 Year Time Horizon**



- ◆ Funds O/W Total Eq (Domestic + International + Global)≥60%
- 60% Wilshire 5000/ 40% Bloomberg Barclays US Aggregate

▲ 60% MSCI ACWI/ 40% Bloomberg Barclays Global Aggregate

TexPERS Average

XWilshere Median Public Fund



# **Risk vs Return: 15 Year Time Horizon**



×Wilshire Median Public Fund

• 60% Wilshire 5000/ 40% Bloomberg Barclays US Aggregate



# **Risk vs Return: 15 Year Time Horizon**



• 60% Wilshire 5000/ 40% Bloomberg Barclays US Aggregate

 $\times$ Wilshere Median Public Fund



# **Risk vs Return: 15 Year Time Horizon**



Other Funds

◆ Funds O/W Total Eq (Domestic + International + Global)≥60%

• 60% Wilshire 5000/ 40% Bloomberg Barclays US Aggregate

▲ 60% MSCI ACWI/ 40% Bloomberg Barclays Global Aggregate

TexPERS Average

XWilshere Median Public Fund



# Average Asset Allocation Comparison

Asset	🗕 🗕 🗕 5 Year Quadrant			
	1	2	3	4
Domestic Equity	32.33%	47.57%	30.18%	46.15%
International Equity	11.08%	16.83%	12.90%	15.53%
Global Equity	11.12%	0.96%	7.84%	0.35%
Fixed Income	20.42%	25.25%	28.63%	25.92%
Alternative Strategies	22.90%	7.72%	17.48%	7.88%
Cash and Other	2.14%	1.67%	2.97%	4.18%



# Detailed Average Asset Allocation Comparison

Asset		5 Year			
		2	3	4	
Domestic Equity	32.33%	47.57%	30.18%	46.15%	
International Equity	11.08%	16.83%	12.90%	15.53%	
Global Equity	11.12%	0.96%	7.84%	0.35%	
Fixed Income	20.42%	25.25%	28.63%	25.92%	
Alternative Strategies	22.90%	7.72%	17.48%	7.88%	
Real Estate (excl REITs)	8.91%	5.33%	10.48%	0.65%	
Venture Capital	0.70%	-	0.99%	_	
Private Equity (LBOs, Mezzanine, M&A Funds)	10.54%	7.61%	6.44%	-	
Commodities & Managed Futures	<u>ا</u> ا	3.15%	0.00%	-	
Marketable Alternative Strategies (Hedge Funds, Derivatives)	5.37%	7.36%	5.95%	14.33%	
Energy/Natural Resources	1.33%		4.33%	4.40%	
Diversified Infrastructure	3.90%	-	2.04%	-	
Distressed Debt	2.40%	-	2.00%	_	
Cash and Other	2.14%	1.67%	2.97%	4.18%	





## **Private Equity Performance**



With the strong performance of private equity, the decision by quadrant 1 plans to overweight private equity may be one contributor to the outperformance.



#### Horizon IRRs (as at Sep 2020)

Source: Preqin

MAPLES GROUP

The below chart shows the delta between the annualized asset class performance over the last 3 years (2018-2020) compared with the annualized asset class performance over the previous 10 years (2007-2017).



### **US Valuation Metrics**





Source: http://www.econ.yale.edu/~shiller/data.htm



#### Valuations vs. 15-year median as of 31 December 2020

Equity market	CAPE	Forward P/E	Trailing P/E	P/B	Dividend yield
US	33	23	32	4.4	1.5
	(23)	(15)	(19)	(2.8)	(2.0)
UK	13	14	18	1.6	3.3
	(13)	(12)	(14)	(1.8)	(3.8)
Europe ex. UK	21	18	24	2.0	2.2
	(16)	(13)	(16)	(1.7)	(3.2)
Japan	21	18	25	1.5	2.0
	(23)	(14)	(16)	(1.3)	(2.0)
EM	16	15	22	2.0	2.0
	(15)	(11)	(14)	(1.7)	(2.6)
EM Key: >20%	(15)				

Cheap

Source: Cazenove Capital

Texas Association of Public Employee Retirement Systems

Expensive

## **US Valuation Metrics**





Source: JPMAM

Texas Association of Public Employee Retirement Systems





Source: JPMAM



#### Global valuations

Current and 25-year next twelve months price-to-earnings ratio



Source: JPMAM



#### MSCI EAFE and MSCI USA relative performance

U.S. dollar, total return, cumulative outperformance\*



Source: JPMAM

## **US Valuation Metrics**



Forward P/E and subsequent 5-yr. annualized returns





#### Source: JPMAM



Actuarial Investment Return Assumption (%)





## **Domestic Equity**





# **International Equity**





# **Global Equity**





# **Fixed Income**





# **Alternative Strategies**









#### Inflation Assumption (%)





## Number of survey participants by AUM



2020 2021



# Did your fund receive its full expected employer contribution for the last fiscal year?



Period Ending 9/30/2020	Yes	No	Uncertain
Number Responded	36	1	1
Percentage	95	3	3



# With respect to compliance with the new SB 322 legislature regarding the reporting of management and performance fees paid to external managers:

Period Ending 9/30/2020	1. Existing consultant agreed to provide analysis related to SB 322?	2. If yes on 1, existing consultant charging additional fees for work related to SB 322?	3. If no on 1, have you contracted with a new consultant to perform the work required under SB 322?
Yes Percentage	92.3	22.2	42.9
No Percentage	7.7	77.8	57.1



# **Questions?**

