Wilshire

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Wilshire Consulting

Employees' Retirement Fund of the City of Dallas

Monthly Investment Summary

January 31, 2020

Wilshire Consulting

Asset Allocation & Performance

Dallas Total Fund

Periods Ended January 31, 2020

	Performance (%) net of fees							Allocation	
	1 Month	1 Quarter	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value $	%
Global Equity Composite	**-0.54**	**5.31**	**13.18**	**10.15**	**7.52**	**9.10**	**9/1/2012**	**253,625,548**	**7.00**
Global Low Volatility Composite	**0.52**	**3.15**	**15.62**	**11.27**		**9.73**	**7/1/2015**	**378,057,528**	**10.44**
Domestic Equity Composite	**-1.42**	**5.24**	**16.40**	**11.64**	**10.62**	**10.11**	**1/1/1990**	**485,908,231**	**13.42**
International Equity Composite	**-2.75**	**3.48**	**9.93**	**7.21**	**5.59**	**5.48**	**1/1/1990**	**521,444,264**	**14.40**
Global Fixed Income Composite	**1.99**	**1.93**	**9.73**	**4.81**	**3.37**	**5.13**	**10/1/1995**	**530,025,857**	**14.63**
High Yield Composite	**-0.23**	**2.24**	**8.92**	**5.17**	**5.36**	**6.51**	**1/1/1997**	**364,622,266**	**10.07**
Credit Opportunities Composite	**0.51**	**2.97**	**8.29**	**6.01**		**7.51**	**2/1/2016**	**180,736,119**	**4.99**
Total Real Estate Composite	**0.45**	**1.96**	**10.47**	**7.82**	**6.91**	**6.72**	**1/1/1990**	**393,246,915**	**10.86**

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Dallas Total Fund

Periods Ended January 31, 2020

	Performance (%) net of fees							Allocation	
	1 Month	1 Quarter	1 Year	3 Years	5 Years	Since Inception	Inception Date	Market Value $	%
MLP Composite	**-4.29**	**-0.15**	**-6.99**	**-4.88**	**-5.08**	**3.97**	**1/1/2012**	**225,959,102**	**6.24**
Private Equity Composite	**-0.50**	**1.72**	**11.04**	**13.66**	**11.58**	**13.32**	**6/1/2009**	**260,528,841**	**7.19**
Managed Short Term Composite	**0.13**	**0.40**	**2.22**	**1.70**	**1.10**	**2.93**	**1/1/1990**	**27,557,616**	**0.76**
Dallas Total Fund	**-0.55**	**2.88**	**10.37**	**7.61**	**6.35**	**9.05**	**1/1/1985**	**3,621,712,286**	**100.00**
Policy Index	-0.36	2.87	11.39	7.55	6.23	9.65			

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Periods Ended January 31, 2020

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Systematic Financial	**-4.80**	**0.51**	**8.06**	**7.72**	**9.87**	**10.54**	**8/1/2003**	**67,473,400**	**13.89**
Russell 2000 Index	-3.21	3.68	9.21	7.28	8.23	9.12			
Redwood Investments *	**2.24**	**6.72**	**7.63**	**7.25**		**6.86**	**10/1/2016**	**34,269,664**	**7.05**
Russell 2000 Growth Index	-1.10	7.12	13.91	11.48		11.98			
Channing Capital *	**-4.41**	**2.10**	**7.06**	**1.65**	**5.71**	**5.13**	**12/1/2013**	**33,666,607**	**6.93**
Russell 2000 Value Index	-5.39	0.21	4.38	3.10	6.71	5.71			
Domestic Equity Small Cap Composite	**-3.01**	**2.42**	**7.70**	**6.09**	**7.96**	**9.18**	**6/1/2003**	**135,409,671**	**27.87**

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Smith Graham *	**-4.69**	**3.81**	**10.53**			**2.15**	**1/1/2018**	**67,766,716**	**13.95**
Russell Midcap Index	-0.80	5.10	16.89			8.17			
T. Rowe Price	**0.39**	**7.23**	**22.47**	**15.67**	**13.22**	**9.67**	**4/1/2006**	**145,059,113**	**29.85**
S&P 500	-0.04	6.72	21.68	14.54	12.37	9.09			
Northern Trust S&P 500 (Lending)	**-0.03**	**6.72**	**21.74**	**14.56**	**12.41**	**10.23**	**1/1/1995**	**137,672,732**	**28.33**
S&P 500	-0.04	6.72	21.68	14.54	12.37	10.18			
Domestic Equity Composite	**-1.42**	**5.24**	**16.40**	**11.64**	**10.62**	**10.11**	**1/1/1990**	**485,908,231**	**100.00**
Custom Benchmark	0.01	6.75	20.60	13.85	12.01	10.25			

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Periods Ended January 31, 2020

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Adelante Capital Management	**0.85**	**-1.18**	**15.57**	**9.31**	**5.82**	**10.18**	**10/1/2001**	**82,378,814**	**20.95**
Wilshire U.S. Real Estate Securities Index	0.73	-1.36	13.71	8.28	6.01	10.51			
CenterSquare	**1.30**	**-1.26**	**15.04**			**15.01**	**6/1/2018**	**83,315,210**	**21.19**
Wilshire U.S. Real Estate Securities Index	0.73	-1.36	13.71			13.76			
REIT Composite	**1.08**	**-1.22**	**15.31**	**8.92**	**5.69**	**10.30**	**10/1/2001**	**165,694,024**	**42.13**
Wilshire U.S. Real Estate Securities Index	0.73	-1.36	13.71	8.28	6.01	10.51			
Heitman America Real Estate Trust, LP	**0.00**	**-1.01**	**1.32**	**4.60**	**7.52**	**10.18**	**12/1/2010**	**85,733,884**	**21.80**
NCREIF ODCE NOF	0.00	1.27	4.39	6.13	7.98	10.23			
Invesco Core Real Estate USA, LLC	**0.00**	**2.31**	**6.64**	**8.15**	**9.66**	**10.95**	**12/1/2010**	**72,242,640**	**18.37**
NCREIF ODCE NOF	0.00	1.27	4.39	6.13	7.98	10.23			
Private Core Real Estate Composite	**0.00**	**4.61**	**7.03**	**7.01**	**7.64**	**9.77**	**10/1/2010**	**227,552,891**	**57.87**
Custom Benchmark	0.00	4.39	6.93	6.87	6.98	9.11			
Total Real Estate Composite	**0.45**	**1.96**	**10.47**	**7.82**	**6.91**	**6.72**	**1/1/1990**	**393,246,915**	**100.00**
Custom Benchmark	0.36	1.51	10.35	7.79	6.74	8.71			

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Employees' Retirement Fund of the City of Dallas

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Private Equity & Direct Private Real Estate Monthly Performance and Market Value Summary

Periods Ended 01/31/20

	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	Multiple [3]
Invesco II	69,576,367	65,188,333	65,188,333	4,604,724	Jan-14	3.8%	1.1
Total Direct Private Real Estate	**69,576,367**	**65,188,333**	**65,188,333**	**4,604,724**	**Jan-14**	**3.8%**	**1.1**

	Month-End Market Value	Commitment Value	Drawn Down Capital	Cash Distributions	Inception Date	IRR Since Inception	Multiple [3]
Hamilton Lane Secondary Fund II	1,434,007	25,000,000	22,848,181	26,979,853	Jul-09	8.4%	1.2
Hamilton Lane Secondary Fund III	10,784,962	30,000,000	17,764,658	18,329,971	Nov-12	19.0%	1.6
Hamilton Lane Secondary Fund IV	22,071,148	30,000,000	18,667,963	2,239,655	Mar-17	23.7%	1.3
Hamilton Lane Fund VII Composite	25,643,603	50,000,000	42,992,714	32,750,776	Jan-10	6.5%	1.4
Hamilton Lane Fund VIII (Global)	22,297,545	30,000,000	16,412,837	3,652,520	Nov-12	10.9%	1.6
Hamilton Lane Cash	-	-	-	-	Aug-09	-.-	-.-
GCM Grosvenor - Partnership, L.P.	45,870,642	75,000,000	81,752,229	86,497,244	Jun-11	15.2%	1.6
GCM Grosvenor - Partnership II, L.P. (2014)	52,230,350	60,000,000	59,131,924	19,096,084	Jul-14	12.1%	1.2
GCM Grosvenor - Partnership II, L.P. (2015)	33,509,748	20,000,000	27,426,526	3,512,059	Dec-15	17.7%	1.3
GCM Grosvenor - Partnership II, L.P. (2017)	9,678,374	30,000,000	10,083,734	105,389	Jan-18	-1.9%	1.0
GCM Grosvenor Cash	-	-	-	-	Jun-11	-.-	-.-
Fairview Capital III *	37,008,462	40,000,000	31,975,328	1,630,828	Aug-15	10.5%	1.2
Total Private Equity Composite	**260,528,841**	**390,000,000**	**329,056,095**	**194,794,379**	**Jul-09**	**12.8%**	**1.4**

Public Market Equivalent (PME) [2]	**339,212,142**	**17.1%**

* Next Generation Manager

[1] Total Value to Paid-in Capital ("TVPI") multiple calculation = *(market value + distributions) / capital called*

[2] The Public Market Equivalent (PME) approach creates a hypothetical investment vehicle that mimics the private equity composite cash flows. The performance difference between the PME vehicle and the private equity portfolio is determined by their net asset value (NAV) at the end of the benchmarking period. The performance of the "public market" is simulated using the monthly S&P 500 index returns, plus a 300 BPs annual hurdle rate.

[3] Private Equity cash account

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Dallas Total Fund

Periods Ended January 31, 2020

	Performance (%) net of fees							Allocation	
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Acadian International	**-3.07**	**4.36**	**8.32**	**7.47**	**7.62**	**8.25**	**4/1/1989**	**105,962,462**	**20.32**
Custom Benchmark	-3.12	3.36	9.98	7.14	6.45	5.87			
Ativo International *	**-1.27**	**3.12**	**13.05**			**2.68**	**1/1/2018**	**37,516,134**	**7.19**
MSCI EAFE Index (Net)	-2.09	2.23	12.10			1.42			
AQR Capital Management	**-2.98**	**2.74**	**6.92**	**5.62**	**4.72**	**3.25**	**4/1/2006**	**204,186,664**	**39.16**
Custom Benchmark	-2.69	2.42	9.94	7.62	4.96	2.99			
Baillie Gifford	**-1.55**	**5.46**				**15.19**	**4/1/2019**	**90,486,460**	**17.35**
MSCI AC World ex USA (Net)	-2.69	2.42				7.19			
Earnest Partners	**-3.68**	**2.28**				**5.72**	**4/1/2019**	**83,290,126**	**15.97**
MSCI AC World ex USA (Net)	-2.69	2.42				7.19			
BlackRock ACWI Ex U.S.								**1,480**	**0.00**
International Equity Composite	**-2.75**	**3.48**	**9.93**	**7.21**	**5.59**	**5.48**	**1/1/1990**	**521,444,264**	**100.00**
Custom Benchmark	-2.75	2.55	9.94	7.56	5.16	4.57			

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Ariel Global *	**-0.72**	**4.87**	**9.77**			**4.91**	**1/1/2018**	**106,259,509**	**41.90**
MSCI AC World Index (Net)	-1.10	4.88	16.04			6.23			
Wellington	**-0.21**	**5.82**	**15.81**	**10.05**	**8.17**	**11.59**	**9/1/2012**	**126,545,231**	**49.89**
MSCI AC World Index (Net)	-1.10	4.88	16.04	11.03	8.51	9.87			
Northern Trust Global Equity	**-1.50**	**4.53**	**15.77**	**11.04**		**11.58**	**10/1/2015**	**20,820,809**	**8.21**
MSCI AC World IMI (Net)	-1.32	4.72	15.30	10.60		11.13			
Global Equity Composite	**-0.54**	**5.31**	**13.18**	**10.15**	**7.52**	**9.10**	**9/1/2012**	**253,625,548**	**100.00**
MSCI AC World Index (Net)	-1.10	4.88	16.04	11.03	8.51	9.87			

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Acadian Global Low Vol.	**-0.33**	**2.89**	**13.84**	**10.14**		**9.07**	**7/1/2015**	**188,935,312**	**49.98**
MSCI AC World Index (Net)	-1.10	4.88	16.04	11.03		8.32			
MSCI ACWI Minimum Volatility Index (Net)	1.40	3.31	16.98	11.89		9.86			
BlackRock Global Low Vol.	**1.39**	**3.41**	**17.42**	**12.38**		**10.37**	**7/1/2015**	**189,122,217**	**50.02**
MSCI ACWI Minimum Volatility Index (Net)	1.40	3.31	16.98	11.89		9.86			
Global Low Volatility Composite	**0.52**	**3.15**	**15.62**	**11.27**		**9.73**	**7/1/2015**	**378,057,528**	**100.00**
MSCI ACWI Minimum Volatility Index (Net)	1.40	3.31	16.98	11.89		9.86			

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Atlantic Trust CIBC	**-4.60**	**-0.47**	**-8.81**	**-5.75**	**-5.21**	**4.00**	**1/1/2012**	**111,553,193**	**49.37**
Alerian MLP Index	-5.61	-3.45	-10.70	-7.75	-7.49	-1.02			
Harvest Fund Advisors MLP	**-4.00**	**0.16**	**-5.14**	**-4.08**	**-4.99**	**3.58**	**1/1/2012**	**114,405,909**	**50.63**
Alerian MLP Index	-5.61	-3.45	-10.70	-7.75	-7.49	-1.02			
MLP Composite	**-4.29**	**-0.15**	**-6.99**	**-4.88**	**-5.08**	**3.97**	**1/1/2012**	**225,959,102**	**100.00**
Alerian MLP Index	-5.61	-3.45	-10.70	-7.75	-7.49	-1.02			

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Securian Asset Management	**1.95**	**1.91**	**10.08**	**5.13**	**3.78**	**4.89**	**7/1/2007**	**229,699,499**	**43.34**
Blmbg. Barc. U.S. Aggregate	1.92	1.80	9.64	4.62	3.01	4.49			
Aberdeen Global Fixed Income	**2.13**	**2.06**	**10.01**	**4.68**	**3.17**	**4.90**	**5/1/2007**	**229,237,256**	**43.25**
Blmbg. Barc. U.S. Aggregate	1.92	1.80	9.64	4.62	3.01	4.35			
Garcia Hamilton *	**1.67**	**1.59**	**7.80**	**4.24**	**2.74**	**3.81**	**11/1/2013**	**71,089,101**	**13.41**
Blmbg. Barc. U.S. Aggregate	1.92	1.80	9.64	4.62	3.01	3.54			
Global Fixed Income Composite	**1.99**	**1.93**	**9.73**	**4.81**	**3.37**	**5.13**	**10/1/1995**	**530,025,857**	**100.00**
Blmbg. Barc. U.S. Aggregate	1.92	1.80	9.64	4.62	3.01	5.25			

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Neuberger Berman	**0.51**	**2.97**	**8.29**	**6.01**		**7.51**	**2/1/2016**	**180,736,119**	
Custom Benchmark	0.51	2.54	9.05	5.59		7.82			

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Oaktree Capital Management	**-0.31**	**1.98**	**7.81**	**4.54**	**4.72**	**6.69**	**2/1/1997**	**182,440,854**	**50.04**
FTSE High Yield Cash Pay	-0.06	2.53	8.91	5.63	5.74	6.88			
BlackRock	**-0.15**	**2.50**	**10.03**	**5.80**	**5.51**	**6.49**	**10/1/2006**	**182,181,412**	**49.96**
FTSE High Yield Cash Pay	-0.06	2.53	8.91	5.63	5.74	6.99			
High Yield Composite	**-0.23**	**2.24**	**8.92**	**5.17**	**5.36**	**6.51**	**1/1/1997**	**364,622,266**	**100.00**
FTSE High Yield Cash Pay	-0.06	2.53	8.91	5.63	5.74	6.89			

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Cash Account	0.13	0.40	2.22	1.70	1.10	3.29	1/1/1988	27,557,616	100.00
Managed Short Term Composite	0.13	0.40	2.22	1.70	1.10	2.93	1/1/1990	27,557,616	100.00

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