



# PARS/CITY OF CUPERTINO 115P OPEB & PENSION ACCOUNTS

September 30, 2019

U.S. Bank Institutional Asset Management

Investment products and services are:

NOT A DEPOSIT

NOT FDIC INSURED

MAY LOSE VALUE

NOT BANK GUARANTEED

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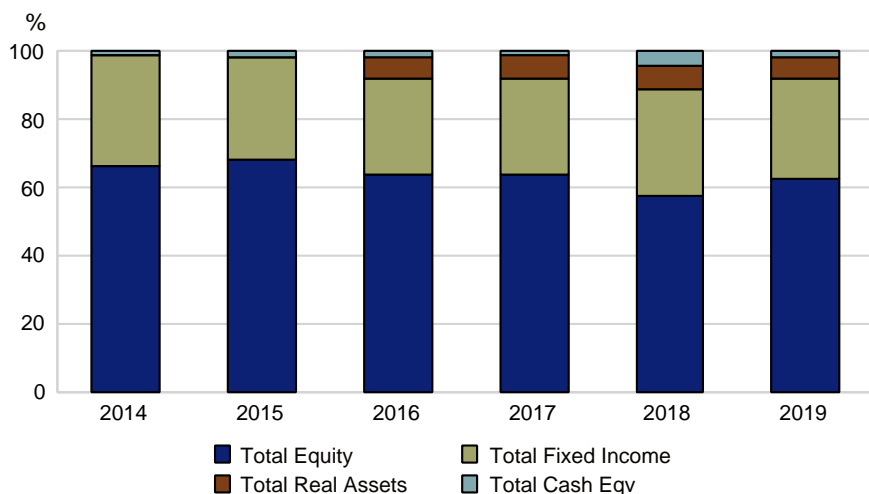
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## History of Asset Growth Graphs

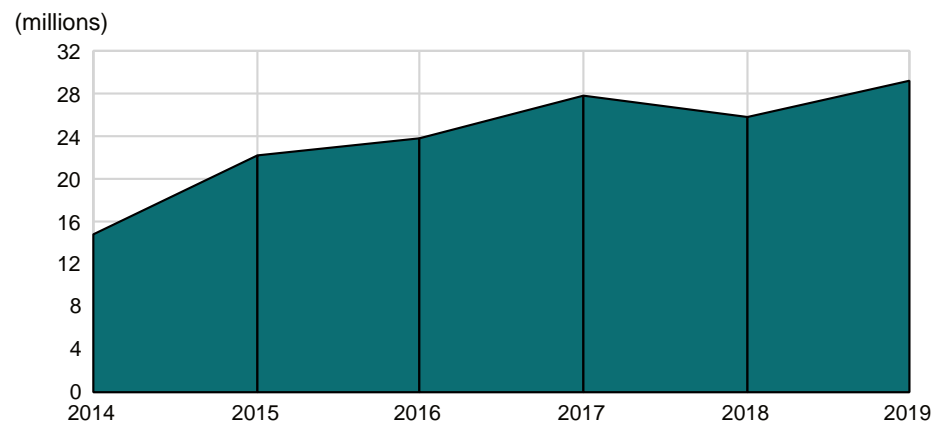
### Annual Portfolio Values

	Consolidated	Jan 2014- Dec 2014	Jan 2015- Dec 2015	Jan 2016- Dec 2016	Jan 2017- Dec 2017	Jan 2018- Dec 2018	Jan 2019- Sep 2019
<b>Beginning Portfolio Value</b>	<b>14,425,224</b>	<b>14,425,224</b>	<b>14,766,783</b>	<b>22,293,645</b>	<b>23,808,269</b>	<b>27,914,893</b>	<b>25,771,054</b>
Contributions	36,325,736	0	8,000,001	3	2	15	28,325,714
Withdrawals	-28,893,383	-73,875	-96,399	-97,969	-106,702	-113,476	-28,404,962
Income Earned	2,577,780	326,220	406,272	448,187	452,364	548,841	395,896
Gain/Loss	4,912,519	89,213	-783,011	1,164,403	3,760,960	-2,579,219	3,260,173
<b>Ending Portfolio Value</b>	<b>29,347,876</b>	<b>14,766,783</b>	<b>22,293,645</b>	<b>23,808,269</b>	<b>27,914,893</b>	<b>25,771,054</b>	<b>29,347,876</b>
<b>Total Return</b>	<b>5.27</b>	<b>2.88</b>	<b>-1.95</b>	<b>7.25</b>	<b>17.73</b>	<b>-7.30</b>	<b>13.78</b>
Principal	3.26	.63	-3.72	5.20	15.74	-9.15	12.22
Income	1.94	2.22	1.82	1.97	1.74	1.99	1.42

### Allocation Over Time



### Ending Market Values Over Time



For performance and rate of return methodologies, as well as other important information, please refer to the Appendix/Disclosures provided.

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**Selected Period Performance**

	Market Value	3 Months	Year to Date (9 Months)	1 Year	3 Years	67 Months	Inception to Date 07/01/2010
Total Portfolio Gross of Fees	29,347,876	.56	13.78	2.55	7.66	5.14	6.68
Total Portfolio Net of Fees	29,347,876	.47	13.63	2.36	7.44	4.91	
City of Cupertino		.52	13.80	4.27	7.38	4.84	7.42
Total Equity	18,422,077	-.65	16.04	-.41	9.91	7.07	11.43
MSCI ACWI (Net)		-.03	16.20	1.38	9.71	6.51	9.68
U.S. Equity	12,882,507	.04	17.42	-.05	11.59	9.00	
S&P 500 Index (Gross)		1.70	20.55	4.25	13.39	11.05	14.51
S&P MidCap 400 Index		-.09	17.87	-2.49	9.38	8.02	13.15
S&P SmallCap 600 Index		-.20	13.46	-9.34	9.33	7.99	13.64
Foreign Equity	5,539,570	-2.29	12.76	-1.69	5.78	2.38	
Developed Markets Equity	3,790,143	-1.98	15.46	-1.97	6.45	2.59	
MSCI EAFE Index (Net)		-1.07	12.80	-1.34	6.48	2.43	6.69
Emerging Markets Equity	1,749,427	-2.95	6.93	-.64	3.91	.70	
MSCI Emerging Markets Index (Net)		-4.25	5.89	-2.02	5.97	3.16	3.44
Total Fixed Income	8,557,759	1.83	8.55	6.94	3.34	2.46	3.13
BBARC Global Aggregate Index		.71	6.32	7.60	1.59	1.64	2.66
Total Real Assets	1,797,755	7.14	24.60	14.09	5.55		
Real Estate	1,797,755	7.14	24.27	16.24	6.44	9.41	
S&P Global REIT Index (Gross)		6.00	23.17	16.40	6.63	8.43	11.45
S&P GSCI Index		-4.18	8.61	-16.31	1.54	-12.25	-5.47
Total Cash Equivalents	570,135	.52	1.57	2.02	1.34	.76	.47
ICE BofAML US 3-Month Treasury Bill Index		.56	1.81	2.39	1.54	.88	.57
Pending Cash	149	.00	.00	.00	.00	.00	.00

For performance and rate of return methodologies, as well as other important information, please refer to the Appendix/Disclosures provided.

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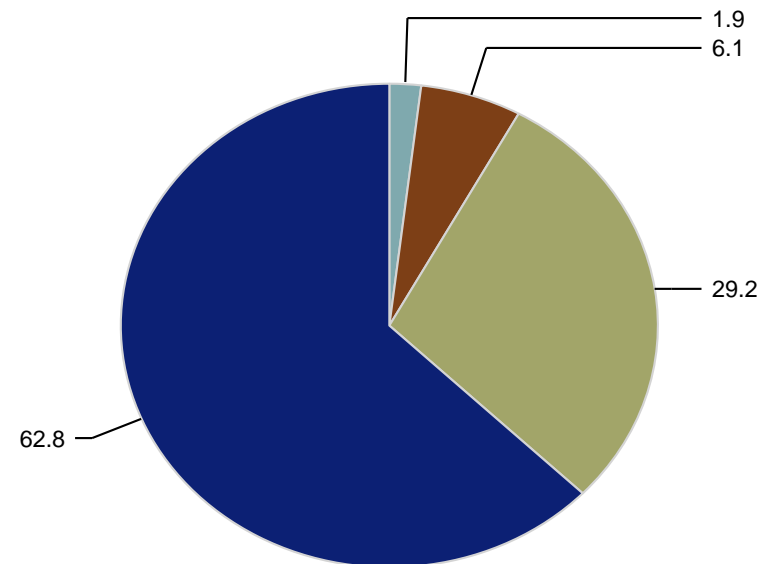


**Asset Allocation Analysis Graph**

Market Value by Asset Class

	Market Value	% of Mkt Val
■ Total Equity	18,422,077	62.8
■ Total Fixed Income	8,557,759	29.2
■ Total Real Assets	1,797,755	6.1
■ Total Cash Eqv	570,135	1.9
<b>Total</b>	<b>29,347,727</b>	<b>100.0</b>

Market Value by Asset Class Pie Chart



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## PARS/CITY OF CUPERTINO 115P - OPEB

## Portfolio Holdings

Account: 6746059600

Holdings Method: Direct

Report Date: 09/30/2019

	Symbol	% of Port.	Price	Shares/ Units	Portfolio Value	Cost Basis	Unrealized Gain/Loss	Current Yield	Projected Annual Income
<b>Total</b>		<b>100.0</b>			<b>29,309,699</b>	<b>569,071</b>	<b>28,740,628</b>	<b>2.20</b>	<b>645,660</b>
<b>Cash</b>		<b>1.94</b>			<b>569,071</b>	<b>569,071</b>	<b>-0</b>	<b>1.79</b>	<b>10,208</b>
<b>Cash Equivalents</b>		<b>1.94</b>			<b>569,071</b>	<b>569,071</b>	<b>-0</b>	<b>1.79</b>	<b>10,208</b>
FIRST AM GOVT OB FD CL Z	31846V567	1.94	1.00	569,071	569,071	569,071	-0	1.79	10,208
<b>Fixed Income</b>		<b>29.11</b>			<b>8,530,670</b>	<b>0</b>	<b>8,530,670</b>	<b>4.15</b>	<b>354,040</b>
<b>Investment Grade</b>		<b>15.26</b>			<b>4,472,910</b>	<b>0</b>	<b>4,472,910</b>	<b>3.69</b>	<b>164,847</b>
<b>Mutual Funds &amp; ETFs</b>		<b>15.26</b>			<b>4,472,910</b>	<b>0</b>	<b>4,472,910</b>	<b>3.69</b>	<b>164,847</b>
Baird Aggregate Bond Fund Institutional Cl...	BAGIX	3.04	11.26	79,035	889,934	0	889,935	2.76	24,580
Columbia Corporate Income Fund Class I	SRINX	3.04	10.67	83,528	891,239	0	891,239	3.16	28,149
DoubleLine Total Return Bond Fund Class I	DBLTX	3.02	10.75	82,267	884,374	0	884,374	3.62	32,002
Nuveen Preferred Securities Fund Class I	NPSRX	3.10	17.22	52,695	907,413	0	907,413	5.47	49,639
PGIM Total Return Bond Fund Class R6	PTRQX	3.07	15.03	59,877	899,949	0	899,949	3.39	30,477
<b>High Yield</b>		<b>7.82</b>			<b>2,293,059</b>	<b>0</b>	<b>2,293,059</b>	<b>5.83</b>	<b>133,700</b>
<b>Mutual Funds &amp; ETFs</b>		<b>7.82</b>			<b>2,293,059</b>	<b>0</b>	<b>2,293,059</b>	<b>5.83</b>	<b>133,700</b>
American Century High Income Fund Class...	NPHIX	3.90	9.35	122,311	1,143,608	0	1,143,608	5.72	65,436
Federated Institutional High Yield Bond Fu...	FIHBX	3.92	9.80	117,291	1,149,451	0	1,149,451	5.94	68,263
<b>Inflation Protected Securities</b>		<b>1.98</b>			<b>579,932</b>	<b>0</b>	<b>579,932</b>	<b>2.25</b>	<b>13,033</b>
TIAA-CREF Inflation-Linked Bond Fund - A...	TIHIX	1.98	11.48	50,517	579,932	0	579,932	2.25	13,033
<b>Foreign Developed Debt</b>		<b>2.04</b>			<b>597,537</b>	<b>0</b>	<b>597,537</b>	<b>2.10</b>	<b>12,532</b>
<b>Mutual Funds &amp; ETFs</b>		<b>2.04</b>			<b>597,537</b>	<b>0</b>	<b>597,537</b>	<b>2.10</b>	<b>12,532</b>
PIMCO International Bond Fund (U.S. Doll...	PFORX	2.04	11.30	52,879	597,537	0	597,537	2.10	12,532
<b>Foreign Emerging Debt</b>		<b>2.00</b>			<b>587,232</b>	<b>0</b>	<b>587,232</b>	<b>5.10</b>	<b>29,928</b>
TCW Emerging Markets Income Fund I Cl	TGEIX	2.00	8.30	70,751	587,232	0	587,232	5.10	29,928
<b>Equity</b>		<b>62.85</b>			<b>18,422,077</b>	<b>0</b>	<b>18,422,077</b>	<b>1.30</b>	<b>239,465</b>
<b>Large Cap U.S. Equity</b>		<b>24.00</b>			<b>7,034,524</b>	<b>0</b>	<b>7,034,524</b>	<b>1.29</b>	<b>91,097</b>
<b>Mutual Funds &amp; ETFs</b>		<b>24.00</b>			<b>7,034,524</b>	<b>0</b>	<b>7,034,524</b>	<b>1.29</b>	<b>91,097</b>
Columbia Dividend Income Fund Class I3	CDDYX	6.14	23.71	75,909	1,799,810	0	1,799,810	2.02	36,361
Harbor Capital Appreciation Fund - Retirem...	HNACX	5.92	73.45	23,643	1,736,556	0	1,736,556	0.28	4,894
T. Rowe Price Blue Chip Growth Fund, Inc.	TRBCX	5.90	114.16	15,147	1,729,180	0	1,729,180	0.00	0
Vanguard Equity Income Fund Admiral Sha...	VEIRX	6.04	76.52	23,118	1,768,979	0	1,768,979	2.82	49,842

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Holdings Date: 9/30/2019

U.S. BANK | 7



## PARS/CITY OF CUPERTINO 115P - OPEB

## Portfolio Holdings

Account: 6746059600

Holdings Method: Direct

Report Date: 09/30/2019

	Symbol	% of Port.	Price	Shares/ Units	Portfolio Value	Cost Basis	Unrealized Gain/Loss	Current Yield	Projected Annual Income
<b>Mid Cap U.S. Equity</b>		<b>14.03</b>			<b>4,111,494</b>	<b>0</b>	<b>4,111,494</b>	<b>1.49</b>	<b>61,409</b>
<b>Mutual Funds &amp; ETFs</b>		<b>14.03</b>			<b>4,111,494</b>	<b>0</b>	<b>4,111,494</b>	<b>1.49</b>	<b>61,409</b>
Fidelity Mid Cap Index Fund	FSMDX	14.03	22.63	181,683	4,111,494	0	4,111,494	1.49	61,409
<b>Small Cap U.S. Equity</b>		<b>5.92</b>			<b>1,736,489</b>	<b>0</b>	<b>1,736,489</b>	<b>1.23</b>	<b>21,408</b>
<b>Mutual Funds &amp; ETFs</b>		<b>5.92</b>			<b>1,736,489</b>	<b>0</b>	<b>1,736,489</b>	<b>1.23</b>	<b>21,408</b>
Fidelity Small Cap Index Fund	FSSNX	5.92	19.63	88,461	1,736,489	0	1,736,489	1.23	21,408
<b>Developed Markets Equity</b>		<b>12.93</b>			<b>3,790,143</b>	<b>0</b>	<b>3,790,143</b>	<b>1.41</b>	<b>53,590</b>
<b>Mutual Funds &amp; ETFs</b>		<b>12.93</b>			<b>3,790,143</b>	<b>0</b>	<b>3,790,143</b>	<b>1.41</b>	<b>53,590</b>
Vanguard International Growth Fund Admir...	VWILX	8.90	91.14	28,635	2,609,791	0	2,609,791	1.56	40,604
Victory Trivalent International Small-Cap CL I	MISIX	4.03	13.18	89,556	1,180,352	0	1,180,352	1.10	12,986
<b>Emerging Markets Equity</b>		<b>5.97</b>			<b>1,749,427</b>	<b>0</b>	<b>1,749,427</b>	<b>0.68</b>	<b>11,962</b>
<b>Mutual Funds &amp; ETFs</b>		<b>5.97</b>			<b>1,749,427</b>	<b>0</b>	<b>1,749,427</b>	<b>0.68</b>	<b>11,962</b>
Baron Emerging Markets Fd Inst Shs	BEXIX	2.99	13.53	64,793	876,653	0	876,653	0.45	3,952
Neuberger Berman Emerging Markets Equi...	NEMIX	2.98	19.07	45,767	872,774	0	872,774	0.92	8,009
<b>Real Assets</b>		<b>6.10</b>			<b>1,787,881</b>	<b>0</b>	<b>1,787,881</b>	<b>2.35</b>	<b>41,948</b>
<b>U.S. Listed Real Estate</b>		<b>6.10</b>			<b>1,787,881</b>	<b>0</b>	<b>1,787,881</b>	<b>2.35</b>	<b>41,948</b>
Nuveen Real Estate Securities Fund CI I	FARCX	6.10	22.76	78,554	1,787,881	0	1,787,881	2.35	41,948

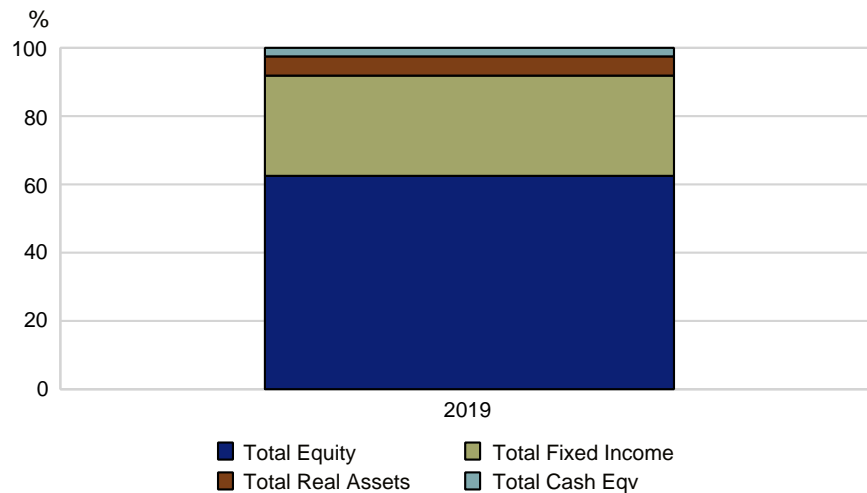


**History of Asset Growth Graphs**

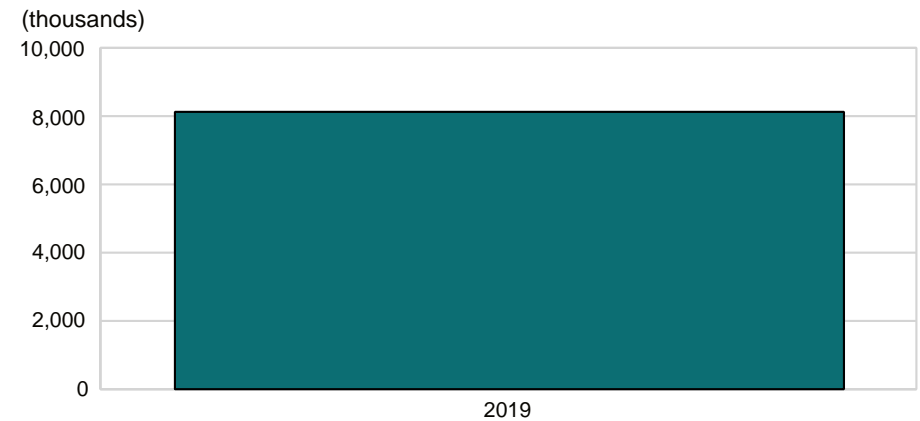
## Annual Portfolio Values

	Consolidated	Apr 2019- Sep 2019
<b>Beginning Portfolio Value</b>	<b>8,001,551</b>	<b>8,001,551</b>
Contributions	0	0
Withdrawals	-12,914	-12,914
Income Earned	84,457	84,457
Gain/Loss	82,835	82,835
<b>Ending Portfolio Value</b>	<b>8,155,929</b>	<b>8,155,929</b>
<b>Total Return</b>	<b>2.10</b>	<b>2.10</b>
Principal	1.03	1.03
Income	1.07	1.07

## Allocation Over Time



## Ending Market Values Over Time



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6746059601

## PARS/CITY OF CUPERTINO 115P- PENSION

Period Ending: 09/30/2019

**Selected Period Performance**

	Market Value	3 Months	Inception to Date 04/01/2019
Total Portfolio Gross of Fees	8,155,929	.56	2.10
Total Portfolio Net of Fees	8,155,929	.48	2.01
City of Cupertino		.52	4.02
Total Equity	5,108,519	-.65	.93
MSCI ACWI (Net)		-.03	3.59
U.S. Equity	3,568,961	.03	2.19
S&P 500 Index (Gross)		1.70	6.08
S&P MidCap 400 Index		-.09	2.96
S&P SmallCap 600 Index		-.20	1.66
Foreign Equity	1,539,558	-2.28	-2.07
Developed Markets Equity	1,053,401	-1.97	-1.04
MSCI EAFE Index (Net)		-1.07	2.57
Emerging Markets Equity	486,156	-2.95	-4.28
MSCI Emerging Markets Index (Net)		-4.25	-3.66
Total Fixed Income	2,379,916	1.83	4.79
BBARC Global Aggregate Index		.71	4.03
Total Real Assets	499,593	7.14	8.19
Real Estate	499,593	7.14	8.19
S&P Global REIT Index (Gross)		6.00	7.68
S&P GSCI Index		-4.18	-5.53
Total Cash Equivalents	167,860	.52	.97
ICE BofAML US 3-Month Treasury Bill Index		.56	1.20
Pending Cash	41	.00	.00

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6746059601

## PARS/CITY OF CUPERTINO 115P- PENSION

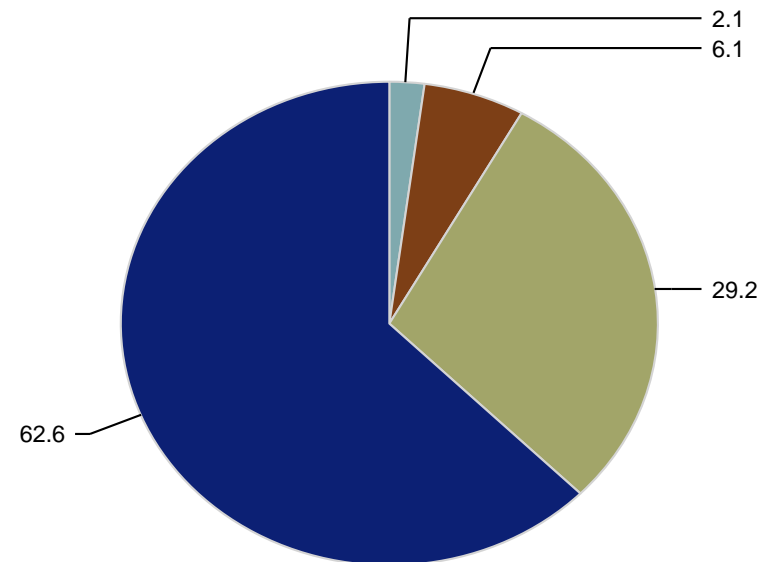
Period Ending: 09/30/2019

### Asset Allocation Analysis Graph

Market Value by Asset Class

	Market Value	% of Mkt Val
■ Total Equity	5,108,519	62.6
■ Total Fixed Income	2,379,916	29.2
■ Total Real Assets	499,593	6.1
■ Total Cash Eqv	167,860	2.1
<b>Total</b>	<b>8,155,888</b>	<b>100.0</b>

Market Value by Asset Class Pie Chart



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# PARS/CITY OF CUPERTINO 115P- PENSION

## Portfolio Holdings

Account: 6746059601

Holdings Method: Direct

Report Date: 09/30/2019

	Symbol	% of Port.	Price	Shares/ Units	Portfolio Value	Cost Basis	Unrealized Gain/Loss	Current Yield	Projected Annual Income
<b>Total</b>		<b>100.0</b>			<b>8,145,292</b>	<b>167,535</b>	<b>7,977,757</b>	<b>2.20</b>	<b>179,336</b>
<b>Cash</b>		<b>2.06</b>			<b>167,535</b>	<b>167,535</b>	<b>0</b>	<b>1.79</b>	<b>3,005</b>
<b>Cash Equivalents</b>		<b>2.06</b>			<b>167,535</b>	<b>167,535</b>	<b>0</b>	<b>1.79</b>	<b>3,005</b>
FIRST AM GOVT OB FD CL Z	31846V567	2.06	1.00	167,535	167,535	167,535	0	1.79	3,005
<b>Fixed Income</b>		<b>29.13</b>			<b>2,372,389</b>	<b>0</b>	<b>2,372,389</b>	<b>4.15</b>	<b>98,366</b>
<b>Investment Grade</b>		<b>15.23</b>			<b>1,240,444</b>	<b>0</b>	<b>1,240,444</b>	<b>3.68</b>	<b>45,607</b>
<b>Mutual Funds &amp; ETFs</b>		<b>15.23</b>			<b>1,240,444</b>	<b>0</b>	<b>1,240,444</b>	<b>3.68</b>	<b>45,607</b>
Baird Aggregate Bond Fund Institutional Cl...	BAGIX	3.04	11.26	21,964	247,313	0	247,313	2.76	6,831
Columbia Corporate Income Fund Class I	SRINX	3.04	10.67	23,213	247,679	0	247,679	3.16	7,823
DoubleLine Total Return Bond Fund Class I	DBLTX	3.02	10.75	22,908	246,259	0	246,259	3.62	8,911
Nuveen Preferred Securities Fund Class I	NPSRX	3.03	17.22	14,315	246,502	0	246,502	5.47	13,485
PGIM Total Return Bond Fund Class R6	PTRQX	3.10	15.03	16,812	252,691	0	252,691	3.39	8,558
<b>High Yield</b>		<b>7.86</b>			<b>640,411</b>	<b>0</b>	<b>640,411</b>	<b>5.83</b>	<b>37,340</b>
<b>Mutual Funds &amp; ETFs</b>		<b>7.86</b>			<b>640,411</b>	<b>0</b>	<b>640,411</b>	<b>5.83</b>	<b>37,340</b>
American Century High Income Fund Class...	NPHIX	3.92	9.35	34,156	319,362	0	319,362	5.72	18,274
Federated Institutional High Yield Bond Fu...	FIHBX	3.94	9.80	32,760	321,049	0	321,049	5.94	19,066
<b>Inflation Protected Securities</b>		<b>2.00</b>			<b>162,835</b>	<b>0</b>	<b>162,835</b>	<b>2.25</b>	<b>3,660</b>
TIAA-CREF Inflation-Linked Bond Fund - A...	TIHX	2.00	11.48	14,184	162,835	0	162,835	2.25	3,660
<b>Foreign Developed Debt</b>		<b>2.04</b>			<b>166,466</b>	<b>0</b>	<b>166,466</b>	<b>2.10</b>	<b>3,491</b>
<b>Mutual Funds &amp; ETFs</b>		<b>2.04</b>			<b>166,466</b>	<b>0</b>	<b>166,466</b>	<b>2.10</b>	<b>3,491</b>
PIMCO International Bond Fund (U.S. Doll...	PFORX	2.04	11.30	14,731	166,466	0	166,466	2.10	3,491
<b>Foreign Emerging Debt</b>		<b>1.99</b>			<b>162,233</b>	<b>0</b>	<b>162,233</b>	<b>5.10</b>	<b>8,268</b>
TCW Emerging Markets Income Fund I Cl	TGEIX	1.99	8.30	19,546	162,233	0	162,233	5.10	8,268
<b>Equity</b>		<b>62.72</b>			<b>5,108,519</b>	<b>0</b>	<b>5,108,519</b>	<b>1.30</b>	<b>66,308</b>
<b>Large Cap U.S. Equity</b>		<b>23.86</b>			<b>1,943,818</b>	<b>0</b>	<b>1,943,818</b>	<b>1.29</b>	<b>25,075</b>
<b>Mutual Funds &amp; ETFs</b>		<b>23.86</b>			<b>1,943,818</b>	<b>0</b>	<b>1,943,818</b>	<b>1.29</b>	<b>25,075</b>
Columbia Dividend Income Fund Class I3	CDDYX	6.01	23.71	20,633	489,217	0	489,218	2.02	9,883
Harbor Capital Appreciation Fund - Retirem...	HNACX	5.92	73.45	6,571	482,608	0	482,608	0.28	1,360
T. Rowe Price Blue Chip Growth Fund, Inc.	TRBCX	5.91	114.16	4,214	481,105	0	481,105	0.00	0
Vanguard Equity Income Fund Admiral Sha...	VEIRX	6.03	76.52	6,415	490,886	0	490,886	2.82	13,831

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Holdings Date: 9/30/2019

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## PARS/CITY OF CUPERTINO 115P- PENSION

## Portfolio Holdings

Account: 6746059601

Holdings Method: Direct

Report Date: 09/30/2019

	Symbol	% of Port.	Price	Shares/ Units	Portfolio Value	Cost Basis	Unrealized Gain/Loss	Current Yield	Projected Annual Income
<b>Mid Cap U.S. Equity</b>		<b>14.03</b>			<b>1,142,577</b>	<b>0</b>	<b>1,142,577</b>	<b>1.49</b>	<b>17,065</b>
<b>Mutual Funds &amp; ETFs</b>		<b>14.03</b>			<b>1,142,577</b>	<b>0</b>	<b>1,142,577</b>	<b>1.49</b>	<b>17,065</b>
Fidelity Mid Cap Index Fund	FSMDX	14.03	22.63	50,489	1,142,577	0	1,142,577	1.49	17,065
<b>Small Cap U.S. Equity</b>		<b>5.92</b>			<b>482,567</b>	<b>0</b>	<b>482,567</b>	<b>1.23</b>	<b>5,949</b>
<b>Mutual Funds &amp; ETFs</b>		<b>5.92</b>			<b>482,567</b>	<b>0</b>	<b>482,567</b>	<b>1.23</b>	<b>5,949</b>
Fidelity Small Cap Index Fund	FSSNX	5.92	19.63	24,583	482,567	0	482,567	1.23	5,949
<b>Developed Markets Equity</b>		<b>12.93</b>			<b>1,053,401</b>	<b>0</b>	<b>1,053,401</b>	<b>1.41</b>	<b>14,895</b>
<b>Mutual Funds &amp; ETFs</b>		<b>12.93</b>			<b>1,053,401</b>	<b>0</b>	<b>1,053,401</b>	<b>1.41</b>	<b>14,895</b>
Vanguard International Growth Fund Admir...	VWILX	8.91	91.14	7,959	725,379	0	725,379	1.56	11,286
Victory Trivalent International Small-Cap CL I	MISIX	4.03	13.18	24,888	328,023	0	328,023	1.10	3,609
<b>Emerging Markets Equity</b>		<b>5.97</b>			<b>486,156</b>	<b>0</b>	<b>486,156</b>	<b>0.68</b>	<b>3,324</b>
<b>Mutual Funds &amp; ETFs</b>		<b>5.97</b>			<b>486,156</b>	<b>0</b>	<b>486,156</b>	<b>0.68</b>	<b>3,324</b>
Baron Emerging Markets Fd Inst Shs	BEXIX	2.99	13.53	18,006	243,617	0	243,617	0.45	1,098
Neuberger Berman Emerging Markets Equi...	NEMIX	2.98	19.07	12,718	242,539	0	242,539	0.92	2,226
<b>Real Assets</b>		<b>6.10</b>			<b>496,849</b>	<b>0</b>	<b>496,849</b>	<b>2.35</b>	<b>11,657</b>
<b>U.S. Listed Real Estate</b>		<b>6.10</b>			<b>496,849</b>	<b>0</b>	<b>496,849</b>	<b>2.35</b>	<b>11,657</b>
Nuveen Real Estate Securities Fund CI I	FARCX	6.10	22.76	21,830	496,849	0	496,849	2.35	11,657



## 4Q investment outlook: Holding on to portfolio gains with both hands

### Quarterly outlook

#### Executive summary

Investors enter the year's final quarter witnessing strong gains across asset classes; domestic and international equities, real estate, bonds and other areas have all seen sharp moves higher thus far in 2019. Ironically, these gains have occurred despite a global economic deceleration. Investors may recall 2018's fourth quarter with disdain, when we experienced widespread volatility due to central bank policy indecision amid a weaker economic trajectory. Fast forward one year and central banks around the world are enacting more pro-growth measures to offset economic weakness, so that policy set appears to be clearer than this time last year. However, trade policy remains a central issue, and uncertainty on the Chinese/U.S. negotiations could spill into the fourth quarter and the new year.

We maintain a positive view of a diversified portfolio's return prospects as we close out 2019. While economic growth has stagnated, we expect a gradual recovery to emerge and, if we are wrong, we do not forecast future weakness to be cycle-ending in nature. Domestic consumers are enjoying low unemployment, improved personal balance sheets and lower borrowing costs. Even though we are now in the longest post-World War II recovery period in history, slack in the rest of the world's economies offer an opportunity for further growth prospects, but we are watching for potential cracks in the global economic foundation. The sections that follow reflect our most current thinking across economics and capital markets. As always, please do not hesitate if we can answer any questions.

#### Global economic views

United States/China tariffs and trade news are the primary uncertainties for businesses and investors with no clear path to resolution. The Fed appears on a path to provide further rate cuts this year, but other global central banks have also provided rate cuts that provide support to the global market and the economy. In our view, recession odds remain low, despite still sluggish economic data around the world.

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[ 1 ] Important disclosures provided on page 4.

## Equity markets

The backdrop for domestic equities remains positive: non-problematic inflation, low interest rates, moderate earnings growth and uninspiring alternatives. Excesses that typically accompany the end of a market cycle do not appear prevalent, suggesting that the current long-running bull market still has room to run. However, despite a favorable environment for U.S. equities, the path forward is likely to be more volatile and returns more subdued.

We retain a neutral outlook for foreign developed equities through the end of 2019; risks and opportunities continuing to look reasonably balanced, but sector composition remains a headwind. Compared to the S&P 500, the MSCI EAFE Index, a proxy for foreign developed markets, has a far lower weighting in growth sectors such as technology. Meanwhile, heavier weights to sectors such as Industrials and Materials have been a headwind for the MSCI EAFE Index due to slower growth in global activity. Finally, valuation of foreign developed equities relative to the S&P 500 remains extremely low, reflecting continued investor preference for U.S. securities, given higher confidence in U.S. economic and corporate profit outlook.

Similarly, we continue to view opportunities and risks in emerging markets as also fairly balanced and retain our neutral stance. Clouding the outlook for emerging market equities, analysts have slashed expectations for corporate sales and profit growth in emerging markets in 2019. Valuation indications are mixed, with backward-looking measures lower than historical averages while forward-looking measures on expected earnings well above average.

## Fixed income markets

Markets anticipate aggressive central bank rate cuts, likely keeping returns low for bond investors. Central banks outside the United States have also begun rate cutting campaigns and expect continued monetary policy easing to combat slowing global growth and anemic inflation. Return expectations for core bonds should be muted due to the low level of interest rates, although we continue to emphasize the importance of high-quality bonds to provide adequate portfolio diversification.

Somewhat rich valuations and eroding fundamentals limit the attractiveness of “reaching for yield.” We believe normal allocations to investment-grade credit investments are appropriate and suggest a balanced approach relative to U.S. Treasuries. The outlook for select structured credit opportunities such as non-agency mortgage-backed securities continues to be supported by strong consumer fundamentals and compelling incremental yield. Overall allocations to riskier fixed income sectors should remain modest for now, with active management a critical factor.

## Real estate and commodity markets

Lower interest rates help by making the earnings yield of commercial real estate look more attractive compared to alternatives. Additionally, since investors purchase most commercial real estate using some loans, lower rates mean investors should net more income relative to their loan costs, increasing their returns. We do expect property market fundamentals to deteriorate slightly from current levels. We believe investors should maintain normal real estate exposures for now, since we believe these softening fundamentals are not yet a meaningful threat to investors.

### **Alternative investments**

Hedge fund returns are up but outflows continue. Private capital remains the alternative investment of choice. Investors' enthusiasm for private capital remains strong and it's easy to understand why. First, private capital investors have been cash flow positive for the past eight years, according to a Bain & Company Global Private Equity Report, meaning distributions have outstripped contributions each year. Second, private capital funds have outperformed their respective public market indices. Therefore, we continue to be judicious in assessing funds to ensure we work with those we believe have a unique skillset and competitive advantage.

### **For more information**

A detailed version of our fourth quarter 2019 investment outlook commentary is available. To access a copy, please visit our website at [usbank.com/investing-and-retirement-planning/financial-perspectives/economic-news](https://usbank.com/investing-and-retirement-planning/financial-perspectives/economic-news) or contact your financial professional if you have questions.



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Diversification and asset allocation do not guarantee returns or protect against losses. Based on our strategic approach to creating diversified portfolios, guidelines are in place concerning the construction of portfolios and how investments should be allocated to specific asset classes based on client goals, objectives and tolerance for risk. Not all recommended asset classes will be suitable for every portfolio.

**Past performance is no guarantee of future results.** All performance data, while deemed obtained from reliable sources, are not guaranteed for accuracy. Indexes shown are unmanaged and are not available for investment. The **S&P 500 Index** is an unmanaged, capitalization-weighted index of 500 widely traded stocks that are considered to represent the performance of the stock market in general. The **MSCI EAFE Index** includes approximately 1,000 companies representing the stock markets of 21 countries in Europe, Australasia and the Far East (EAFE).

**Equity securities** are subject to stock market fluctuations that occur in response to economic and business developments. **International investing** involves special risks, including foreign taxation, currency risks, risks associated with possible difference in financial standards and other risks associated with future political and economic developments. Investing in **emerging markets** may involve greater risks than investing in more developed countries. In addition, concentration of investments in a single region may result in greater volatility. Investing in **fixed income securities** are subject to various risks, including changes in interest rates, credit quality, market valuations, liquidity, prepayments, early redemption, corporate events, tax ramifications, and other factors. Investment in debt securities typically decrease in value when interest rates rise. The risk is usually greater for longer-term debt securities. Investments in lower-rated and non-rated securities present a greater risk of loss to principal and interest than higher-rated securities. Investments in **mortgage-backed securities** include additional risks that investors should be aware of, such as credit risk, prepayment risk, possible illiquidity and default, as well as increased susceptibility to adverse economic developments. There are special risks associated with investments in **real assets** such as commodities and real estate securities. For commodities, risks may include market price fluctuations, regulatory changes, interest rate changes, credit risk, economic changes and the impact of adverse political or financial factors. Investments in real estate securities can be subject to fluctuations in the value of the underlying properties, the effect of economic conditions on real estate values, changes in interest rates and risks related to renting properties (such as rental defaults). **Hedge funds** are speculative and involve a high degree of risk. An investment in a hedge fund involves a substantially more complicated set of risk factors than traditional investments in stocks or bonds, including the risks of using derivatives, leverage and short sales, which can magnify potential losses or gains. Restrictions exist on the ability to redeem or transfer interests in a fund. **Private equity investments** provide investors and funds the potential to invest directly into private companies or participate in buyouts of public companies that result in a delisting of the public equity. Investors considering an investment in private equity must be fully aware that these investments are illiquid by nature, typically represent a long-term binding commitment and are not readily marketable. The valuation procedures for these holdings are often subjective in nature.



# Disclosures, Definitions, Descriptions

# Important disclosures (page 1 of 4)

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**Past performance is no guarantee of future results.** All performance data, while obtained from sources deemed to be reliable, are not guaranteed for accuracy. Indexes shown are unmanaged and are not available for direct investment, nor are they subject to fees and expenses.

Performance reports included may show performance results gross of fees and expenses. If fees and expenses were included, the performance would be lower. If you have any questions, please speak with your relationship manager for additional information.

Based on our strategic approach to creating diversified portfolios, guidelines are in place concerning the construction of portfolios and how investments should be allocated to specific asset classes based on client goals, objectives and tolerance for risk. Not all recommended asset classes will be suitable for every portfolio. **Diversification and asset allocation do not guarantee returns or protect against losses.**

## Important disclosures (page 2 of 4)

**Equity securities** are subject to stock market fluctuations that occur in response to economic and business developments. **Stocks of small-capitalization companies** involve substantial risk. These stocks historically have experienced greater price volatility than stocks of larger companies and may be expected to do so in the future. **Stocks of mid-capitalization companies** can be expected to be slightly less volatile than those of small-capitalization companies, but still involve substantial risk and may be subject to more abrupt or erratic movements than large-capitalization companies. The value of **large-capitalization stocks** will rise and fall in response to the activities of the company that issued them, general market conditions and/or economic conditions. **Growth investments** focus on stocks of companies whose earnings/profitability are accelerating in the short term or have grown consistently over the long term. Such investments may provide minimal dividends, which could otherwise cushion stock prices in a market decline. Stock value may rise and fall significantly based, in part, on investors' perceptions of the company, rather than on fundamental analysis of the stocks. Investors should carefully consider the additional risks involved in growth investments. **Value investments** focus on stocks of income-producing companies whose price is low relative to one or more valuation factors, such as earnings or book value. Such investments are subject to risks that their intrinsic values may never be realized by the market, or such stocks may turn out not to have been undervalued. Investors should carefully consider the additional risks involved in value investments.

**International investing** involves special risks, including foreign taxation, currency risks, risks associated with possible differences in financial standards and other risks associated with future political and economic developments. Investing in **emerging markets** may involve greater risks than investing in more developed countries. In addition, concentration of investments in a single region may result in greater volatility.

Investments in **real estate securities** can be subject to fluctuations in the value of the underlying properties, the effect of economic conditions on real estate values, changes in interest rates and risks related to renting properties (such as rental defaults). There are special risks associated with an investment in **commodities**, including market price fluctuations, regulatory changes, interest rate changes, credit risk, economic changes and the impact of adverse political or financial factors.

Investments in **fixed income securities** are subject to various risks, including changes in interest rates, credit quality, market valuations, liquidity, prepayments, early redemption, corporate events, tax ramifications and other factors. Investment in fixed income securities typically decrease in value when interest rates rise. This risk is usually greater for longer-term securities. Investments in lower-rated and non-rated securities present a greater risk of loss to principal and interest than higher-rated securities. Investments in **high yield bonds** offer the potential for high current income and attractive total return, but involve certain risks. Changes in economic conditions or other circumstances may adversely affect a bond issuer's ability to make principal and interest payments.

## Important disclosures (page 3 of 4)

The **municipal bond** market is volatile and can be significantly affected by adverse tax, legislative or political changes and the financial condition of the issues of municipal securities. Interest rate increases can cause the price of a bond to decrease. Income on municipal bonds is free from federal taxes, but may be subject to the federal alternative minimum tax (AMT), state and local taxes. **Treasury Inflation-Protected Securities (TIPS)** offer a lower return compared to other similar investments and the principal value may increase or decrease with the rate of inflation. Gains in principal are taxable in that year, even though not paid out until maturity.

Non-financial **specialty assets**, such as real estate, farm, ranch and timber properties, oil, gas and mineral interests or closely-held business interests are complex and involve unique risks specific to each asset type, including the total loss of value. Special risk considerations may include natural events or disasters, complex tax considerations and lack of liquidity. Specialty assets may not be suitable for all investors.

**Alternative investments** very often use speculative investment and trading strategies. There is no guarantee that the investment program will be successful. Alternative investments are designed only for investors who are able to tolerate the full loss of an investment. These products are not suitable for every investor even if the investor does meet the financial requirements. It is important to consult with your investment professional to determine how these investments might fit your asset allocation, risk profile and tax situation. **Hedge funds** are speculative and involve a high degree of risk. An investment in a hedge fund involves a substantially more complicated set of risk factors than traditional investments in stocks or bonds, including the risks of using derivatives, leverage and short sales, which can magnify potential losses or gains. Restrictions exist on the ability to redeem or transfer interests in a fund. **Exchange-traded funds (ETFs)** are baskets of securities that are traded on an exchange like individual stocks at negotiated prices and are not individually redeemable. ETFs are designed to generally track a market index and shares may trade at a premium or a discount to the net asset value of the underlying securities. **Private equity** investments provide investors and funds the potential to invest directly into private companies or participate in buyouts of public companies that result in a delisting of the public equity. Investors considering an investment in private equity must be fully aware that these investments are illiquid by nature, typically represent a long-term binding commitment and are not readily marketable. The valuation procedures for these holdings are often subjective in nature. **Private debt** investments may be either direct or indirect and are subject to significant risks, including the possibility of default, limited liquidity and the infrequent availability of independent credit ratings for private companies. **Structured products** are subject to market risk and/or principal loss if sold prior to maturity or if the issuer defaults on the security. Investors should request and review copies of Structured Products Pricing Supplements and Prospectuses prior to approving or directing an investment in these securities. **Insurance-linked securities (ILS)** are financial instruments whose performance is determined by insurance loss events primarily driven by weather-related and other natural catastrophes (such as hurricanes and earthquakes). These events are typically low-frequency but high-severity occurrences. In exchange for higher potential yields, investors assume the risk of a disaster during the life of their bonds, with their principal used to cover damage caused if the catastrophe is severe enough.

## Important disclosures (page 4 of 4)

**Mutual fund investing** involves risk and principal loss is possible. Investing in certain funds involves special risks, such as those related to investments in small- and mid-capitalization stocks, foreign, debt and high-yield securities and funds that focus their investments in a particular industry. Please refer to the fund prospectus for additional details pertaining to these risks. An investment in **money market funds** is not insured or guaranteed by the Federal Deposit Insurance Corporation (FDIC) or any other government agency. Although these funds seek to preserve the value of an investment at \$1.00 per share, it is possible to lose money by investing in these funds.

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# Definitions of investment report/statement terms (page 1 of 4)

**Accredited Investor:** Private placement securities generally require that investors be accredited due to the additional risks and speculative nature of the securities. For natural persons, the criteria is met by a net worth of more than \$1 million (excluding primary residence) or an income of more than \$200,000 individually (\$300,000 jointly) for the two most recent years and a reasonable expectation for the same in the current year. For other entities, such as corporations, partnerships, trusts and employee benefit plans, the criteria is met with at least \$5 million in assets. See full definition in Rule 501 of Regulation D under the Securities Act of 1933.

**Alpha:** A measure of risk-adjusted performance. A statistic measuring that portion of a stock, fund or composite's total return attributable to specific or non-market risk. Alpha measures non-market return and indicates how much value has been added or lost. A positive Alpha indicates the fund or composite has performed better than its Beta would predict (i.e., the manager has added value above the benchmark). A negative Alpha indicates a fund or composite has underperformed given the composite's Beta.

**Alternative Investments:** As used by U.S. Bank, an investment considered to be outside of the traditional asset classes of long-only stocks, bonds and cash. Examples of alternative investments include hedge funds, private equity, options and financial derivatives.

**Annualized Excess Return:** Shows the difference between the annualized linked returns of a portfolio and the model benchmark. Performance reports provided annualize only periods greater than one year.

**Annualized or Annual Rate of Return:** Represents the average annual change in the value of an investment over the periods indicated.

**Batting Average:** Shows how consistently the portfolio return met or beat the market.

**Beta:** A measure of your portfolio's risk relative to a benchmark. A portfolio with a beta of 1.5, for example, would be expected to return roughly 1.5 times the benchmark's return. A high Beta indicates a riskier portfolio.

**Bond Credit Rating:** A grade given to bonds by a private independent rating service that indicates their credit quality. Ratings are the opinion of Standard & Poor's or other agencies as noted and not the opinion of U.S. Bank.

**Consumer Price Index (CPI):** A measure of the average change in prices over time in a market basket of goods and services and is one of the most frequently used statistics for identifying periods of inflation and deflation.

**Convexity to Stated Maturity:** A measure of the curvature in the relationship between bond prices and bond yields that demonstrates how the duration of a bond changes as the interest rate changes. Convexity is used as a risk-management tool and helps to measure and manage the amount of market risk to which a portfolio of bonds is exposed. This version of convexity measures the rate change in duration of a bond as the yield to (stated) maturity changes.

# Definitions of investment report/statement terms (page 2 of 4)

**Cumulative Excess Return:** Shows the difference between the annualized linked returns of a portfolio and the model benchmark. Performance reports provided use unannualized returns.

**Downside Capture:** The downside capture ratio reflects how a portfolio compares to a benchmark during periods when the benchmark is down. A downside capture ratio of 0.80 (or 80 percent) means the portfolio has historically declined only 80 percent as much as the benchmark during down markets.

**Downside Deviation:** The deviation of returns that fall below a minimum acceptable return (MAR). Although the numerator includes only returns below the MAR, the denominator includes all returns in the performance period. This risk statistic is similar to the downside standard deviation except the sum is restricted to returns less than the MAR instead of the mean.

**Downside Standard Deviation:** The deviation of returns that fall below the mean return. Although the numerator includes only returns below the mean, the denominator includes all returns in the performance period. This risk statistic is similar to the downside deviation except the sum is restricted to returns less than the mean instead of the minimum acceptable return (MAR).

**Effective Maturity:** The date of a bond's most likely redemption, given current market conditions, taking into consideration the optional and mandatory calls, the optional, mandatory and recurring puts, and the stated maturity.

**Information Ratio:** The information ratio compares the average excess return of the portfolio over its associated benchmark divided by the tracking error.

**M-Squared:** The hypothetical return of the portfolio after its risk has been adjusted to match a benchmark.

**Market Value:** Publicly traded assets are valued using market quotations or valuation methods from financial industry services believed by us to be reliable. Assets, that are not publicly traded, may be reflected at values from other external sources or special valuations prepared by us. Assets for which a current value is not available may be reflected as not valued, at par value, or at a nominal value. Values shown do not necessarily reflect prices at which assets could have been bought or sold. Values are updated based on internal policy and may be updated less frequently than statement generation.

**Market Value Over Time:** Many factors can impact the portfolio value over time, such as contributions to the account, distributions from the account, the investment of dividends and interest, the deduction of fees and expenses, and market performance.

**Modified Duration to Effective Maturity:** A formula that expresses the measurable change in the value of a security in response to a change in interest rates. This version of Modified Duration takes into consideration a "horizon date/price" that is, given current conditions, the most likely redemption date/price using the set of calls/puts, as well as stated maturity.



# Definitions of investment report/statement terms (page 3 of 4)

**Modified Duration to Stated Maturity:** A formula that expresses the measurable change in the value of a security in response to a change in interest rates. This version of Modified Duration uses stated maturity as the “horizon date/price” and ignores any potential call/put/pre-refunding, even if they are mandatory.

**Price/Earnings Ratio (P/E):** The P/E ratio of a company is calculated by dividing the price of the company’s stock by its trailing 12-month earnings per share. A high P/E usually indicates that the market is paying a premium for current earnings because it believes in the firm’s ability to grow its earnings. A low P/E indicates the market has less confidence that the company’s earnings will increase. Within a portfolio, P/E is the weighted average of the price/earnings ratios of the stocks in the portfolio.

**Qualified Purchaser:** Some private placement securities require that investors be Qualified Purchasers in addition to being Accredited Investors. For natural persons, the criteria is generally met when the client (individually or jointly) owns at least \$5 million in investments. For other entities, such as corporations, partnerships, trusts and employee benefit plans, the criteria is met with at least \$25 million in investments though there are other eligibility tests that may apply. See full definition in Section 2(a)(51) of the Investment Company Act of 1940.

**R-Squared:** Measures the portion of the risk in your portfolio that can be attributed to the risk in the benchmark.

**Realized and Unrealized Gains/Losses:** Are calculated for individual tax lots based on the records we have available. Some data may be incomplete or differ from what you are required to report on your tax return. Some data used in these calculations may have been obtained from outside sources and cannot be verified by U.S. Bank. The data is intended for informational purposes only and should not be used for tax reporting purposes. Please consult with your tax or legal advisor for questions concerning your personal tax or financial situation.

**Residual Risk:** The amount of risk specific to the assets in a portfolio distinct from the market, represented by a benchmark.

**Return:** An indication of the past performance of your portfolio.

**Sharpe Ratio:** Measures of risk-adjusted return that calculates the return per unit of risk, where risk is the Standard Deviation of your portfolio. A high Sharpe ratio indicates that the portfolio is benefiting from taking risk.

**Sortino Ratio:** Intended to differentiate between good and bad volatility. Similar to the Sharpe ratio, except it uses downside deviation for the denominator instead of standard deviation, the use of which doesn’t discriminate between up and down volatility.

**Spread:** The difference between the yields of two bonds with differing credit ratings (most often, a corporate bond with a certain amount of risk is compared to a standard traditionally lower risk Treasury bond). The bond spread will show the additional yield that could be earned from a bond which has a higher risk.

# Definitions of investment report/statement terms (page 4 of 4)

**Standard Deviation:** A measure of the volatility and risk of your portfolio. A low standard deviation indicates a portfolio with less volatile returns and therefore less inherent risk.

**Time-weighted Return:** The method used to calculate performance. Time-weighted return calculates period by period returns that negates the effect of external cash flows. Returns for periods of greater than one year are reported as an annualized (annual) rate of return. Returns of less than one year are reported on a cumulative return basis. Cumulative return is the aggregate amount an investment has gained or lost over time, independent of the period involved.

**Tracking Error:** A divergence between the price behavior of a position or a portfolio and the price behavior of a benchmark. This is often in the context of a hedge or mutual fund that did not work as effectively as intended, creating an unexpected profit or loss instead.

**Traditional Investments:** As used by U.S. Bank, an investment made in equity, fixed income or cash securities, mutual funds or exchange-traded funds (ETFs) where the investor buys at a price with the goal that the investment will go up in value.

**Top 10 Holdings:** The 10 assets with the highest market values in the account.

**Total Portfolio Gross of Fees:** Represents all assets included in the calculation of the portfolio, before the deduction of trust and asset management fees, and is inclusive of all applicable third party security fees and expenses. Details of those fees and expenses are provided in the security's prospectus or offering documents.

**Total Return:** The rate of return that includes the realized and unrealized gains and losses plus income for the measurement period.

**Treynor Ratio:** Measures the performance of a sector relative to risk by dividing the return of the sector in excess of the risk-free return by the sector's Beta. The higher the Treynor ratio, the better the return relative to risk.

**Turnover Percent:** Indicates how frequently asset are bought and sold within a portfolio.

**Turnover Ratio:** The percentage of a mutual fund's or other investment vehicle's holdings that have been "turned over" or replaced with other holdings in a given year.

**Upside Capture:** The upside capture ratio reflects how a portfolio compares to the selected model benchmark during periods when the benchmark is up. An upside capture ratio of 1.15 (or 115 percent) means the portfolio has historically beat the benchmark by 15 percent during up markets.

**Yield:** The annual rate of return on an investment, expressed as a percentage. For bonds, it is the coupon rate divided by the market price. For stocks, it is the annual dividend divided by the market price.

# Frequently used investment indexes (page 1 of 5)

**Bloomberg Barclays 1-3 year U.S. Treasury Index:** Measures the performance of the U.S. government bond market and includes public obligations of the U.S. Treasury with a maturity between one year and up to (but not including) three years.

**Bloomberg Barclays 1-5 year U.S. Treasury Index:** Includes all publicly issued, U.S. Treasury securities that have a remaining maturity of greater than or equal to one year and less than five years, are rated investment grade and have \$250 million or more of outstanding face value.

**The Bloomberg Barclays 1-5 year Municipal Index:** Measures the performance of municipal bonds with time to maturity of more than one year and less than five years.

**Bloomberg Barclays 7-year Municipal Index:** Includes municipal bonds with a minimum credit rating of Baa that have been issued as part of a transaction of at least \$50 million, have a maturity value of at least \$5 million and a maturity range of four to six years.

**Bloomberg Barclays Global Aggregate Index ex-U.S. Index:** Measure of global investment grade debt from 24 local currency markets. This multi-currency benchmark includes Treasury, government-related, corporate and securitized fixed-rate bonds from both developed and emerging markets issuers.

**Bloomberg Barclays Global Treasury ex-U.S. Index:** Includes government bonds issued by investment-grade countries outside the United States, in local currencies, that have a remaining maturity of one year or more and are rated investment grade.

**Bloomberg Barclays High Yield Municipal Bond Index:** An unmanaged index made up of bonds that are non-investment grade, unrated or below Ba1 bonds.

**Bloomberg Barclays Intermediate Aggregate Index:** Consists of one- to 10-year governments, one- to 10-year corporate bonds, all mortgages and all asset-backed securities within the Aggregate Index.

**Bloomberg Barclays Mortgage-Backed Securities Index:** Covers agency mortgage-backed pass-through securities (both fixed-rate and hybrid adjustable-rate mortgages) issued by Ginnie Mae (GNMA), Fannie Mae (FNMA), and Freddie Mac (FHLMC).

**Bloomberg Barclays U.S. Aggregate Bond Index:** Measures the investment grade, U.S. dollar-denominated, fixed-rate taxable bond market, including Treasuries, government-related and corporate securities, mortgage-backed securities, asset-backed securities and commercial mortgage-backed securities.

**Bloomberg Barclays U.S. Corporate Bond Index:** Measures the investment grade, fixed-rate, taxable corporate bond market and includes U.S. dollar-denominated securities publicly issued by U.S. and non-U.S. industrial, utility and financial issuers.

**Bloomberg Barclays U.S. Corporate High Yield Bond Index:** Measures the U.S. dollar denominated, high yield, fixed-rate corporate bond market.

## Frequently used investment indexes (page 2 of 5)

**Bloomberg Barclays U.S. Municipal Bond Index:** Measures the investment grade, U.S. dollar-denominated, fixed tax exempt bond market. The index includes state and local general obligation, revenue, insured and pre-refunded bonds.

**Bloomberg Barclays U.S. Treasury Index:** Measures U.S. dollar-denominated, fixed-rate, nominal debt issued by the U.S. Treasury.

**Bloomberg Barclays U.S. Treasury Inflation-Protected Securities (TIPS) Index:** An unmanaged index includes all publicly issued, U.S. TIPS that have at least one year remaining to maturity, are rated investment grade, and have \$250 million or more of outstanding face value.

**Cambridge U.S. Private Equity Index:** This index is based on returns data compiled for U.S. private equity funds (including buyout, growth equity and mezzanine funds) that represent the majority of institutional capital raised by private equity partnerships formed since 1986. Returns may be delayed by up to six months. Quarterly performance is prorated based on the cube root for the months of the quarter.

**Citigroup 3-Month Treasury Bills:** An unmanaged index and represents monthly return equivalents of yield averages of the last three-month Treasury Bill issues.

**Citigroup 6-Month Treasury Bills:** An unmanaged index and represents monthly return equivalents of yield averages of the last six-month Treasury Bill issues.

**Credit Suisse Leverage Loan Index:** Represents tradable, senior-secured, U.S. dollar-denominated non-investment grade loans.

**Dow Jones Industrial Average (DJIA):** The price-weighted average of 30 significant U.S. stocks traded on the New York Stock Exchange and NASDAQ. The DJIA is the oldest and single most watched index in the world.

**Dow Jones Select REIT Index:** Measures the performance of publicly traded REITs and REIT-like securities in the U.S. and is a proxy for direct real estate investment, in part by excluding companies whose performance may be driven by factors other than the value of real estate.

**Eurekahedge ILS Advisers Index:** Designed to provide a broad measure of the performance of underlying hedge fund managers who explicitly allocate to insurance-linked investments and have at least 70% of their portfolio invested in non-life risk.

**HFR Indexes:** The Hedge Fund Research, Inc. (HFR) indexes are a series of benchmarks designed to reflect hedge fund industry performance by constructing composites of constituent funds, as reported by the hedge fund managers listed within the HFR Database.

**HFR Equity Hedge Total Index:** Uses the HFR (Hedge Fund Research) database and consists only of equity hedge funds with a minimum of \$50 million assets under management or a 12-month track record and that reported assets in U.S. dollars.

# Frequently used investment indexes (page 3 of 5)

**HFRI Relative Value Fixed Income Corporate Index:** Uses the HFR (Hedge Fund Research) database and consists of only relative value fixed income corporate funds with a minimum of \$50 million assets under management or a 12-month track record and that reported assets in U.S. dollars.

**ICE BofAML 1-3 Year Corporate Index:** Tracks U.S. dollar-denominated investment grade public debt issued in the U.S. bond market with maturities of one to three years.

**ICE BofAML 1-5 Year Corporate and Government Index:** Tracks the performance of short-term U.S. investment grade government and corporate securities with maturities between one and five years.

**ICE BofAML U.S. 7-10 Year Index:** Tracks the performance of U.S. dollar denominated investment grade rated corporate debt publicly issued in the U.S. domestic market and includes all securities with a remaining term to maturity of greater than or equal to seven years and less than 10 years.

**ICE BofAML Global Broad Market Index:** Tracks the performance of investment grade public debt issued in the major domestic and Eurobond markets, including global bonds.

**ICE BofAML U.S. High Yield Master II Index:** Commonly used benchmark index for high yield corporate bonds and measures the broad high yield market.

**J.P. Morgan Emerging Markets Bond Index Global (EMBI Global):** Tracks total returns for traded external debt instruments in the emerging markets.

**London Interbank Offered Rate (LIBOR) 3-months:** The interest rate offered by a specific group of London banks for U.S. dollar deposits with a three-month maturity.

**London Interbank Offered Rate (LIBOR) 9-months:** The interest rate offered by a specific group of London banks for U.S. dollar deposits with a nine-month maturity.

**MSCI All Country World Index (ACWI):** Designed to measure the equity market performance of developed and emerging markets.

**MSCI All County World ex-U.S. Index (ACWI, excluding United States):** Tracks the performance of stocks representing developed and emerging markets around the world that collectively comprise most foreign stock markets. U.S. stocks are excluded from the index.

**MSCI EAFE Index:** Includes approximately 1,000 companies representing the stock markets of 21 counties in Europe, Australasia and the Far East.

# Frequently used investment indexes (page 4 of 5)

**MSCI Emerging Markets (EM) Index:** Designed to measure equity market performance in global emerging markets.

**MSCI World Index:** Tracks equity market performance of developed markets through individual country indices.

**NAREIT Index:** Includes REITs (Real Estate Investment Trusts) listed on the New York Stock Exchange, NASDAQ and American Stock Exchange.

**NASDAQ Composite Index:** A market capitalization-weighted average of roughly 5,000 stocks that are electronically traded in the NASDAQ market.

**NCREIF Property Index (NPI):** Measures the investment performance of a very large pool of individual commercial real estate properties acquired in the private market for investment purposes only.

**Russell 1000 Index:** Measures the performance of the 1,000 largest companies in the Russell 3000 Index and is representative of the U.S. large capitalization securities market.

**Russell 1000 Growth Index:** Measures companies in the Russell 1000 Index with higher price-to-book ratios and higher forecasted growth values. It includes the largest 1,000 firms in the Russell 3000 Index.

**Russell 1000 Value Index:** Measures companies in the Russell 1000 Index with lower price-to-book ratios and lower forecasted growth values. It includes the largest 1,000 firms in the Russell 3000 Index.

**Russell 2000 Index:** Measures the performance of the 2,000 smallest companies in the Russell 3000 Index and is representative of the U.S. small capitalization securities market.

**Russell 2000 Growth Index:** Measures companies in the Russell 2000 Index having higher price-to-book ratios and higher forecasted growth values. and is representative of U.S. securities exhibiting growth characteristics. The Russell 2000 Index includes the 2,000 firms from the Russell 3000 Index with the smallest market capitalizations.

**Russell 2000 Value Index:** Measures companies in the Russell 2000 Index having lower price-to-book ratios and lower forecasted growth values. The Russell 2000 Index includes the 2,000 firms from the Russell 3000 Index with the smallest market capitalizations.

**Russell 3000 Index:** Measures the performance of the 3,000 largest U.S. securities based on total market capitalization.

**Russell Midcap Index:** Measures the 800 smallest companies in the Russell 3000 Index.

**Russell Midcap Growth Index:** Measures companies in the Russell Midcap Index having higher price-to-book ratios and higher forecasted growth values.

# Frequently used investment indexes (page 5 of 5)

**Russell Midcap Value Index:** Measures companies in the Russell Midcap Index having lower price-to-book ratios and lower forecasted growth values.

**S&P 500 Index:** Consists of 500 widely traded stocks that are considered to represent the performance of the U.S. stock market.

**S&P Global ex-U.S. Property Index:** Measures the investable universe of publicly traded property companies domiciled in developed and emerging markets excluding the United States. The companies included are engaged in real estate related activities such as property ownership, management, development, rental and investment.

**S&P GSCI:** A composite index of commodity sector returns, representing an unleveraged, long-only investment in commodity futures that is broadly diversified across the spectrum of commodities.

**S&P/Case-Shiller Home Price Indexes:** A group of indexes that track changes in home prices throughout the United States. Case-Shiller produces indexes representing certain metropolitan statistical areas (MSA) as well as a national index.

**Swiss Re Global Cat Bond Total Return Index:** Tracks the aggregate performance of all U.S. dollar-denominated euros and Japanese yen-denominated catastrophe bonds, capturing all ratings, perils and triggers.

**U.S. Dollar Index:** Indicates the general international value of the U.S. dollar by averaging the exchange rates between the U.S. dollar and six major world currencies.

**Wilshire 5000 Index:** Composed of more than 6,700 publicly-traded U.S. companies and is designed to track the overall performance of the American stock markets.