

Nebraska Investment Council

First Quarter 2019 Performance Review

Highlights

Total Assets by Asset Pool

Total Defined Benefit Plan	\$12,442,224,744
Defined Cont. & Deferred Comp.	\$1,135,292,554
Total Cash Balance Benefit	\$2,169,828,516
OSERS	\$1,242,687,941
Hartford Options	\$31,412,014
College Savings Plan	\$4,634,348,761
State Farm CSP	\$565,460,649
Enable Savings Plan	\$8,706,673
Health Care Endowments	\$427,289,803
50/50 Endowments	\$911,612,999
Excess Liability Fund	\$67,364,171
In-House Trusts	\$9,101,908
Internal Short-Term Liquidity Pool	\$339,612,746
Operating Investment Pool (Internal Government/Corporate)	\$3,252,510,671
Time Deposit Open Account	\$39,590,190
Total	\$27,277,044,340

	Performance(%)				
	1 Quarter	1 Year	3 Years	5 Years	10 Years
Major Capital Markets					
Dow Jones U.S. Total Stock Market Index	14.0	8.7	13.5	10.3	16.0
MSCI AC World ex USA Index (Net)	10.3	-4.2	8.1	2.6	8.9
Blmbg. Barc. Universal	3.3	4.5	2.6	3.0	4.4
CPI	1.2	1.9	2.2	1.5	1.8

As of March 31, 2019, aggregated assets totaled \$27,277,044,340, which represented an increase of approximately \$1.6 billion from the end of the previous quarter.

Concerns of slowing global growth and trade wars partially eased in the first quarter of 2019, bolstering global equities in the process. U.S. equities performed well in the first quarter, supported by deescalated trade tensions and the Fed signaling zero interest rate hikes in 2019. More specifically, U.S. equities, as measured by the Dow Jones U.S. Total Stock Market Index, gained 14.0% during the first quarter. Non-U.S. equities continued to lag U.S. equities, returning 10.3% for the quarter, as measured by the MSCI AC World ex-U.S. Index.

The Barclays Universal Bond Index returned 3.3% in the first quarter as the yield curve flattened and yields fell across maturities. The index has produced a return of 1.9% over the past year.

Performance by Asset Pool

	Allocation	Performance(%)						
	Market Value (\$)	1 Quarter	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Total Defined Benefit Plan	12,442,224,744	8.3	4.3	9.0	6.9	11.1	9.0	07/01/1983
Policy Benchmark		9.3	4.8	8.9	6.6	10.9	9.1	
Total Cash Balance Benefit Plan	2,169,828,516	8.3	4.2	8.9	6.9	11.0	7.7	01/01/2003
Policy Benchmark		9.3	4.8	8.9	6.6	10.9	7.8	
OSERS	1,242,687,941	5.5	3.4	6.1	3.2	8.2	9.0	12/01/1989
Policy Index		6.4	5.5	8.3	5.7	10.3	N/A	
Health Care Endowments	427,289,803	8.2	4.5	8.8	6.7	11.2	6.6	01/01/2001
Health Care Policy		9.6	5.0	9.3	6.9	11.3	5.9	
50/50 Endowments	911,612,999	6.1	4.7	6.9	5.5	9.5	7.3	01/01/1996
50/50 Endowment Policy		7.5	5.2	7.3	5.9	9.4	6.8	
Excess Liability Fund	67,364,171	3.4	4.4	3.1	3.2	5.0	5.5	07/01/1997
Performance Benchmark		3.3	4.5	2.6	3.0	4.4	5.2	
Total OIP	3,602,545,630	2.0	4.0	1.6	2.1	2.6	3.8	01/01/1997
Policy Benchmark		2.0	3.9	1.4	1.9	2.8	3.7	
Aeronautics	6,511,302	2.3	4.8	1.0	2.4	2.6	6.0	01/01/1990
Blmbg. Barc. U.S. Treasury		2.1	4.2	1.0	2.2	2.4	5.5	
Agricultural Development	2,590,606	2.3	4.8	1.0	2.3	2.7	6.2	01/01/1989
Blmbg. Barc. U.S. Treasury		2.1	4.2	1.0	2.2	2.4	5.8	

*Only includes asset pools that have a total fund return. As such, Defined Contribution, Deferred Compensation, Hartford, College Savings Plans, and TDOA are not shown

The Excess Liability Fund, Total OIP, Aeronautics, and Agricultural Development Fund outperformed or performed in-line with their respective benchmarks during the quarter while the Defined Benefit Plan, Cash Balance Benefit Plan, OSERS, Health Care Endowments, and 50/50 Endowments lagged. The majority of the asset pools have matched or exceeded their policy benchmarks over the trailing three-, five-, and ten-year periods.

DB & Endowments – Actual vs. Policy Allocation

	Defined Benefit Plan				Cash Balance Benefit			
	Actual	Policy	Difference	Policy Ranges	Actual	Policy	Difference	Policy Ranges
U.S. Equity	27.7%	28.5%	-0.8%	23.5% - 33.5%	27.7%	28.5%	-0.8%	23.5% - 33.5%
Non-U.S. Equity	11.0%	11.5%	-0.5%	6.5% - 16.5%	11.0%	11.5%	-0.5%	6.5% - 16.5%
Global Equity	19.7%	19.0%	0.7%	14.0% - 24.0%	19.7%	19.0%	0.7%	14.0% - 24.0%
Fixed Income	29.6%	30.0%	-0.4%	25.0% - 35.0%	29.6%	30.0%	-0.4%	25.0% - 35.0%
Real Estate	6.6%	6.0%	0.6%	1.0% - 11.0%	6.6%	6.0%	0.6%	1.0% - 11.0%
Private Equity*	5.3%	5.0%	0.3%	0.0% - 10.0%	5.3%	5.0%	0.3%	0.0% - 10.0%

	Health Care Endowment				50/50 Endowment			
	Actual	Policy	Difference	Policy Ranges	Actual	Policy	Difference	Policy Ranges
U.S. Equity	27.9%	30.5%	-2.6%	25.5% - 35.5%	18.8%	19.0%	-0.2%	14.0% - 24.0%
Non-U.S. Equity	12.7%	13.0%	-0.3%	8.0% - 18.0%	8.0%	8.0%	0.0%	3.0% - 13.0%
Global Equity	23.1%	21.5%	1.6%	16.5% - 26.5%	12.6%	13.0%	-0.4%	8.0% - 18.0%
Fixed Income	25.1%	25.0%	0.1%	20.0% - 30.0%	48.6%	50.0%	-1.4%	45.0% - 55.0%
Real Estate	5.1%	5.0%	0.1%	0.0% - 10.0%	4.9%	5.0%	-0.1%	0.0% - 10.0%
Private Equity*	6.0%	5.0%	1.0%	0.0% - 10.0%	7.1%	5.0%	2.1%	0.0% - 10.0%

- The intermediate-term Private Equity policy allocation is 5% for the Defined Benefit and Cash Balance Benefit Plans.
- The long-term target allocation to Real Estate within the DB and CBB Plans is 7.5% and will be funded from U.S. Equity over time.

As of March 31, 2019, the actual asset class allocations within each portfolio were within permissible ranges. It should be noted that the U.S. equity allocation will serve as a source of funding for additional alternative investments within the DB and CBB Plans.

Asset Allocation & Performance

	Allocation		Performance(%)							
	Market Value \$	%	1 Quarter	FYTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Total Defined Benefit Plan	\$12,442,224,744	100.0	8.3 (22)	3.4 (25)	4.3 (35)	9.0 (16)	6.9 (7)	11.1 (2)	9.0	07/01/1983
<i>Policy Benchmark</i>			9.3 (6)	3.6 (20)	4.8 (16)	8.9 (19)	6.6 (19)	10.9 (4)	9.1	
Total U.S. Equity	\$3,446,393,398	27.7	13.8 (55)	4.2 (35)	8.3 (34)	13.2 (33)	10.2 (19)	16.2 (19)	9.8	07/01/1983
<i>Dow Jones U.S. Total Stock Market</i>			14.0 (47)	4.6 (20)	8.7 (28)	13.5 (29)	10.3 (18)	16.0 (29)	10.6	
Total Non-U.S. Equity	\$1,370,180,041	11.0	10.3 (73)	-2.3 (58)	-4.6 (50)	9.2 (10)	3.7 (29)	9.0 (85)	5.6	10/01/1991
<i>MSCI All Country World ex-U.S. IMI*</i>			10.3 (76)	-2.4 (61)	-5.0 (64)	7.9 (64)	2.7 (85)	9.1 (83)	5.8	
Total Global Equity	\$2,452,494,224	19.7	11.8 (54)	2.0 (43)	1.8 (54)	10.3 (40)	6.4 (48)	12.3 (50)	7.5 (27)	09/01/2005
<i>MSCI All Country World IMI*</i>			12.3 (47)	1.2 (52)	1.9 (53)	10.6 (37)	6.3 (49)	12.1 (56)	6.4 (54)	
Total Fixed Income	\$3,681,574,249	29.6	3.2 (65)	4.0 (50)	3.7 (71)	3.4 (41)	3.2 (41)	5.4 (43)	7.8	07/01/1983
<i>Barclays Universal Bond Index*</i>			3.3 (54)	4.8 (13)	4.5 (17)	2.6 (60)	3.0 (49)	4.4 (66)	7.7	
Total Real Estate	\$822,865,259	6.6	2.3	6.4	8.1	7.5	9.8	8.4	7.0	12/01/2004
<i>Performance Benchmark</i>			1.2	4.7	6.5	7.0	9.0	10.5	8.9	
Total Private Equity	\$658,295,359	5.3	2.1	10.2	13.1	14.4	13.0	12.2	4.6	09/01/2005
<i>Dow Jones U.S. Total Stock Market + 3%</i>			14.9	6.9	11.9	16.8	13.6	19.4	12.0	
Total Cash	\$10,422,213	0.1								

	Allocation		Performance(%)							
	Market Value (\$)	%	1 Quarter	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	
Total Cash Balance Benefit Plan	2,169,828,516	100.0	8.3 (22)	4.2 (35)	8.9 (18)	6.9 (7)	11.0 (2)	7.7 (28)	01/01/2003	
<i>Policy Benchmark</i>			9.3 (6)	4.8 (16)	8.9 (19)	6.6 (19)	10.9 (4)	7.8 (27)		
Total U.S. Equity	601,376,567	27.7	13.8 (55)	8.3 (34)	13.2 (33)	10.2 (19)	16.2 (19)	10.0 (16)	01/01/2003	
<i>Dow Jones U.S. Total Stock Market</i>			14.0 (47)	8.7 (28)	13.5 (29)	10.3 (18)	16.0 (29)	10.1 (13)		
Total Non-U.S. Equity	239,088,831	11.0	10.3 (73)	-4.6 (50)	9.2 (10)	3.7 (29)	9.0 (85)	7.3 (94)	01/01/2003	
<i>MSCI All Country World ex-U.S. IMI*</i>			10.3 (76)	-5.0 (64)	7.9 (64)	2.7 (85)	9.1 (83)	8.0 (82)		
Total Global Equity	427,946,664	19.7	11.8 (54)	1.8 (54)	10.3 (40)	6.4 (48)	12.3 (50)	7.5 (27)	09/01/2005	
<i>MSCI All Country World IMI*</i>			12.3 (47)	1.9 (53)	10.6 (37)	6.3 (49)	12.1 (56)	6.4 (54)		
Total Fixed Income	642,962,128	29.6	3.2 (68)	3.6 (71)	3.3 (41)	3.2 (41)	5.3 (48)	4.6 (53)	01/01/2003	
<i>Barclays Universal Bond Index*</i>			3.3 (54)	4.5 (17)	2.6 (60)	3.0 (49)	4.4 (66)	4.4 (57)		
Total Real Estate	143,585,432	6.6	2.3	8.1	7.5	9.8	8.4	7.1	12/01/2004	
<i>Performance Benchmark</i>			1.2	6.5	7.0	9.0	10.5	8.9		
Total Private Equity	114,868,895	5.3	2.1	13.1	14.4	13.0	12.2	4.7	09/01/2005	
<i>Dow Jones U.S. Total Stock Market + 3%</i>			14.9	11.9	16.8	13.6	19.4	12.0		

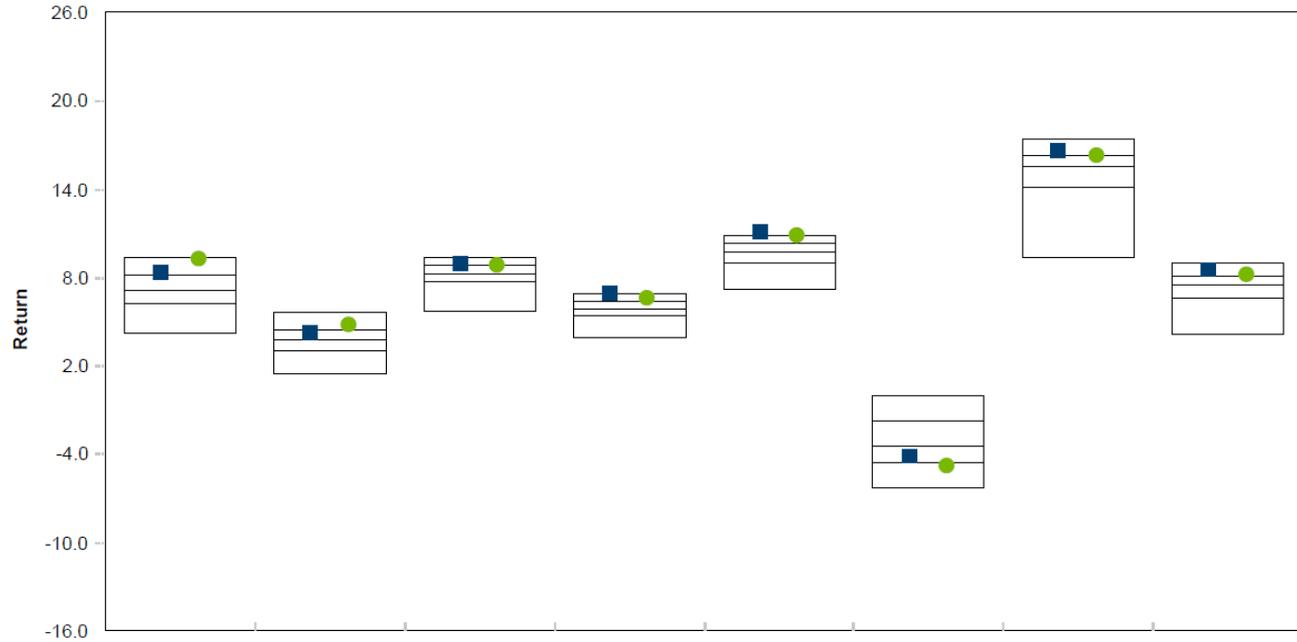
*Denotes a performance benchmark is a splice of more than one index. Descriptions can be found in the appendix of this report.

Note: The Total Fixed Income market value for the Cash Balance Benefit plan includes the CBB-GICS & Money Market.

The Defined Benefit Plan and the Cash Balance Benefit Plan underperformed the policy benchmark during the quarter. Negative relative performance was mainly driven by underperformance within the Private Equity component. Total fund peer rankings are favorable across all longer trailing periods. The equity component of each Plan has been the main driver of absolute performance in recent years as well as over longer trailing periods.

Plan Sponsor Peer Group Analysis

All Public Plans > \$1B-Total Fund



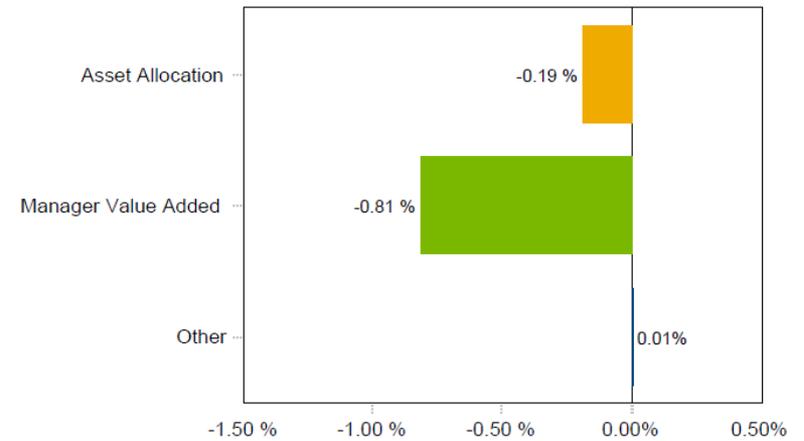
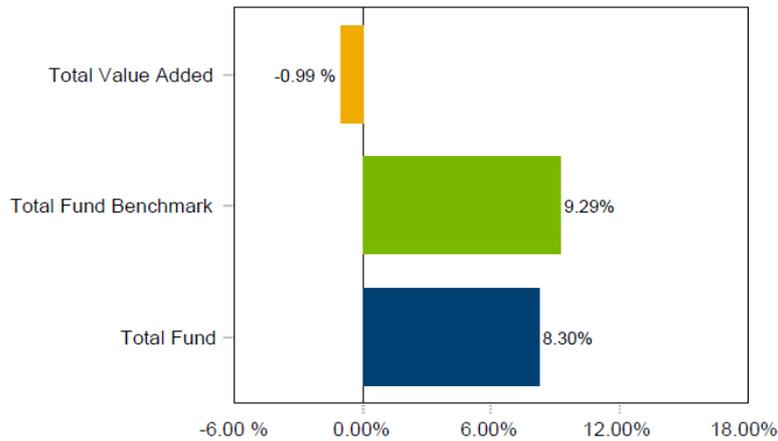
	1 Quarter	1 Year	3 Years	5 Years	10 Years	2018	2017	2016
■ Total Defined Benefit Plan	8.3 (22)	4.3 (35)	9.0 (16)	6.9 (7)	11.1 (2)	-4.2 (69)	16.6 (19)	8.6 (11)
● Policy Benchmark	9.3 (6)	4.8 (16)	8.9 (19)	6.6 (19)	10.9 (4)	-4.8 (78)	16.3 (26)	8.2 (18)
5th Percentile	9.3	5.6	9.4	6.9	10.8	0.0	17.5	9.1
1st Quartile	8.2	4.5	8.8	6.4	10.4	-1.8	16.3	8.1
Median	7.1	3.9	8.3	5.9	9.8	-3.4	15.6	7.5
3rd Quartile	6.3	3.1	7.8	5.4	9.1	-4.5	14.1	6.6
95th Percentile	4.3	1.5	5.8	3.9	7.3	-6.3	9.3	4.2
Population	70	69	68	66	63	86	92	91

Universe rankings highlight that the Defined Benefit Plan outperformed the majority of its peers over the three-, five-, and ten-year periods. Over the trailing three-, five-, and ten-year periods, the DB Plan ranks in the 16th, 7th, and 2nd percentile relative to peers. Furthermore, the Plan has exceeded its policy benchmark return over all longer-term trailing periods shown.

Total Fund Attribution

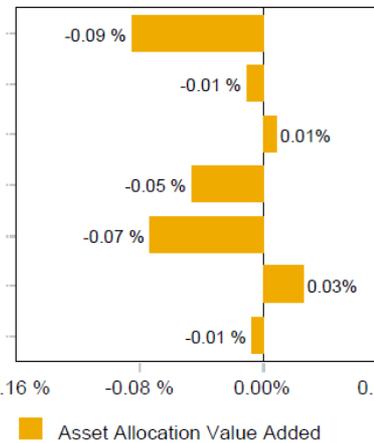
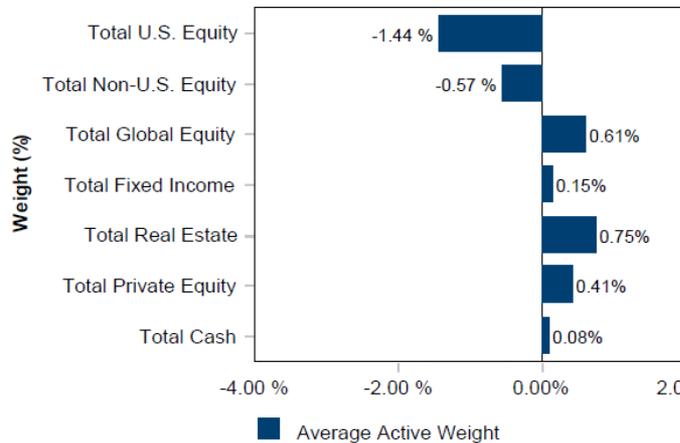
Total Fund Performance

Total Value Added: -0.99 %



Total Asset Allocation: -0.19 %

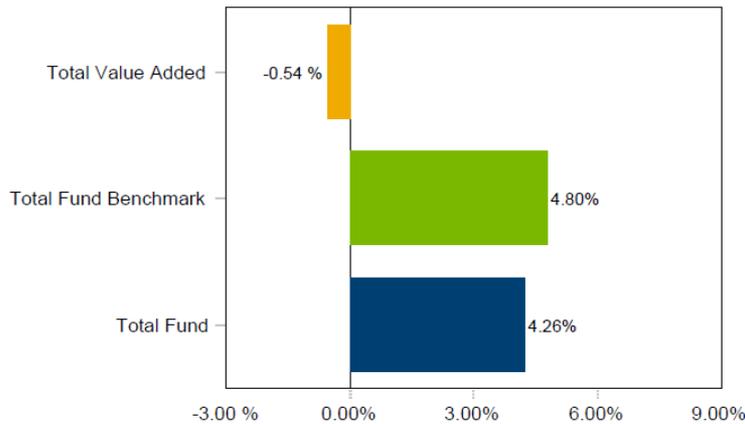
Total Manager Value Added: -0.81 %



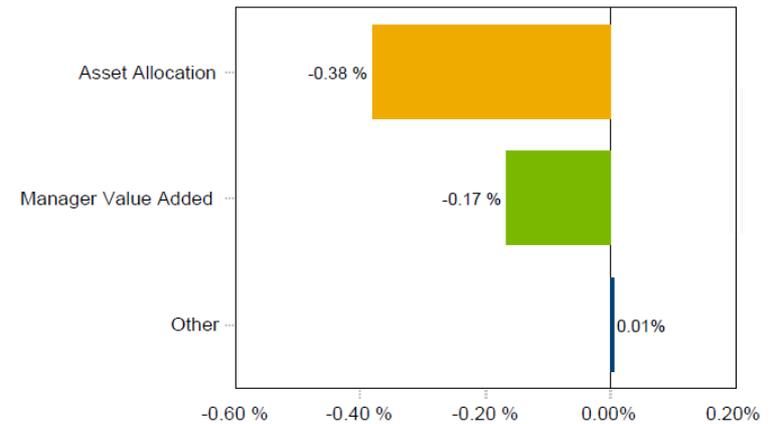
During the first quarter, the Plan's active managers detracted 0.81% (net-of-fees) from performance while overweight and underweight asset class positions also had a slightly negative impact in aggregate, detracting 0.19% from total portfolio performance. The (non-tactical) timing of cash flows had a minimal impact during the quarter.

Total Fund Attribution

Total Fund Performance

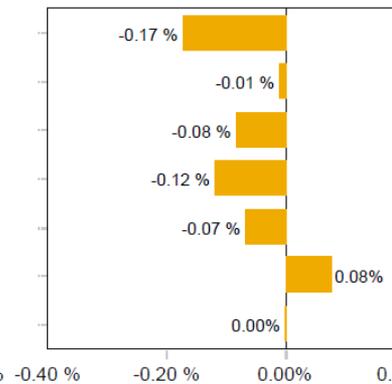
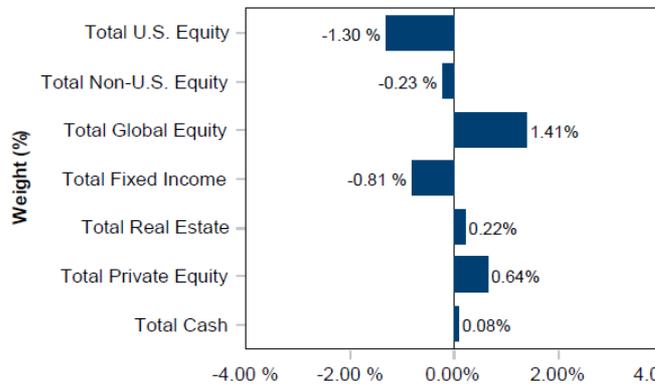


Total Value Added:-0.54 %



Total Asset Allocation:-0.38 %

Total Manager Value Added:-0.17 %



Average Active Weight

Asset Allocation Value Added

Manager Value Added

The Plan's active managers detracted 0.17% (net-of-fees) from performance over the one-year period. The Plan's overweight and underweight asset class positions detracted 0.38% from relative performance over the past year. The (non-tactical) timing of cash flows had a minimal impact during the one-year period on the Fund's overall return.

Asset Allocation & Performance

	Allocation		Performance(%)						
	Market Value (\$)	%	1 Quarter	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Total Defined Cont. & Deferred Comp.	1,135,292,554	100.0							
DFA Small Cap <i>Russell 2000 Index</i>	56,459,850	5.0	12.4 14.6	-0.8 2.0	9.7 12.9	6.1 7.1	16.4 15.4	9.1 8.0	01/01/2001
Russell 1000 Growth Index Fund <i>Russell 1000 Growth Index</i>	70,381,406	6.2	16.1 16.1	12.6 12.7	16.4 16.5	13.5 13.5	17.5 17.5	5.7 5.7	10/01/1999
Russell 1000 Value Index Fund <i>Russell 1000 Value Index</i>	44,174,024	3.9	12.0 11.9	5.8 5.7	10.5 10.5	7.8 7.7	14.6 14.5	6.9 6.8	10/01/1999
U.S. Equity Index Fund <i>S&P 500 Index</i>	202,922,275	17.9	13.7 13.6	9.5 9.5	13.5 13.5	10.9 10.9	16.0 15.9	7.2 7.2	01/01/1998
BlackRock All-Country World ex-U.S. Index Fund <i>MSCI AC World ex USA Index (Net)</i>	32,353,171	2.8	10.4 10.3	-4.4 -4.2	8.3 8.1	2.7 2.6	8.9 8.9	5.2 5.0	07/01/2005
U.S. Debt Index Fund <i>Blmbg. Barc. U.S. Aggregate</i>	17,370,888	1.5	3.0 2.9	4.5 4.5	2.0 2.0	2.8 2.7	3.8 3.8	4.9 4.8	01/01/1998
T. Rowe Stable Value <i>Performance Benchmark</i>	126,099,243	11.1	0.5 0.6	2.1 2.3	1.9 2.0	1.8 1.9	2.2 2.2	4.2 3.3	01/01/1997
SSgA STIF <i>Barclays 90-Day T-Bill Index</i>	10,418,071	0.9	0.6 0.6	2.3 2.1	1.4 1.2	0.9 0.8	0.5 0.4	2.2 2.1	01/01/1998
Conservative Premixed <i>Conservative Policy</i>	50,966,323	4.5	5.1 5.1	4.3 4.6	4.7 4.5	4.1 4.0	6.2 6.0	4.9 4.6	10/01/1999
Moderate Premixed <i>Moderate Policy</i>	410,415,745	36.2	7.7 8.0	5.0 5.3	7.2 7.3	5.8 5.9	9.5 9.3	5.8 5.7	10/01/1999
Aggressive Premixed <i>Aggressive Policy</i>	93,752,728	8.3	10.2 10.6	5.0 5.5	9.6 9.9	7.3 7.3	12.2 11.9	6.2 6.1	10/01/1999
Investor Select Fund <i>Performance Benchmark</i>	19,978,830	1.8	10.2 10.2	5.6 5.5	8.2 8.6	6.4 6.6	11.4 11.3	6.9 6.6	10/01/2005

The Fund options offered to participants span the risk / return spectrum, which is consistent with best practices.

OSERS – Summary of Transition Activity During 1Q

	Allocation as of 12/31/16 (%)	Allocation as of 12/31/17 (%)	Allocation as of 12/31/18 (%)	Allocation as of 3/31/19 (%)	Transition Year 3 Target	Long-Term Target Asset Allocation
U.S. Equity	13.4%	20.0%	18.7%	19.9%	21.0%	27.0%
Non-U.S. Equity	--	9.6	8.6	9.2	9.0	11.5
Global Equity	18.5	13.4	13.1	13.2	14.5	19.0
Fixed Income (Core)	11.5	24.0	27.0	26.7	25.0	21.5
Fixed Income (RS)	--	--	--	--	--	8.5
Hedge Funds	9.1	2.4	1.0	0.7	30.5	--
Real Assets	14.9	3.4	3.6	3.1		--
Real Estate	21.1	15.8	15.5	15.2		7.5
Private Equity	10.3	11.2	12.5	12.0	--	5.0
Cash	1.4	--	--	--	--	--
Total Fund	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

- Public equities rebounded during 1Q 2019
- OSERS finished 1Q reasonably close to the “Transition Year 3 Target” allocation
 - OSERS was overweight fixed income at the expense of equities owing to market moves over the past ≈6 months
 - As of 3/31/2019, ≈31.0% of the portfolio remained invested in legacy illiquid assets
- Effectively all of what can be liquidated (without incurring a meaningful haircut) has already been liquidated; further transition activity towards target weightings is likely to be driven by distributions from the legacy illiquid managers
- It will be several years before the Long-Term Target allocation is reached

The table above summarizes OSERS' transition activity / progress towards its long-term target allocation since the beginning of 2017.

Defined Benefit & Cash Balance Benefit Fees

Manager	Assets (\$ in dollars)	Total Fee (\$ in dollars)	Total Fee (bps)
DFA – U.S. Small Cap	\$386,804,330	\$1,431,176	37
BlackRock Russell 1000 Index	\$3,660,965,635	\$494,230	1
BlackRock ACWI ex-U.S. IMI	\$1,608,334,635	\$965,001	6
Arrowstreet	\$995,034,091	\$4,577,157	46
MFS Global Equity	\$934,304,915	\$3,924,081	42
Dodge & Cox	\$631,997,128	\$3,981,582	63
Wellington Global Equity	\$317,867,501	\$2,479,367	78
BlackRock Core Plus	\$612,025,196	\$1,236,291	20
PIMCO Total Return	\$790,618,683	\$2,071,421	26
BlackRock Bond Index	\$657,118,581	\$131,424	2
Wellington Global	\$474,931,821	\$1,662,261	35
Loomis Sayles Multi-Sector Full Discretion	\$247,676,529	\$849,530	34
Loomis Sayles Bank Loans	\$377,544,914	\$1,574,362	42
Franklin Templeton	\$399,511,148	\$1,877,702	47
Neuberger Berman	\$661,039,889	\$1,057,664	16
Total RE ¹	\$966,450,691	\$11,535,958	119
Total PE ²	\$773,164,254	\$11,372,116	147
Residual Manager Value	\$105,159,522	\$0	–
Annual Fee Paid to Nebraska Investment Council	–	\$1,448,566	1
Total DB/CBB	\$14,600,549,464	\$52,669,889	36

1. Total Fee (in dollars) of trailing 12-month period as of 12/31/2018.
2. Total Fee (in dollars) of trailing 12-month period as of 12/31/2018.

Fees remain extremely competitive for both the Defined Benefit Plan and the Cash Balance Plan. The total fee as of March 31, 2019, is 36 basis points (0.36%) annually.

Fee Schedule**

	Market Value As of 03/31/2019 \$000	% of Portfolio	Estimated Annual Fee \$000	Estimated Annual Fee (%)
Total Defined Cont. & Deferred Comp.	1,135,293	100.00	874	0.08
DFA Small Cap	56,460	4.97	209	0.37
Russell 1000 Growth Index Fund	70,381	6.20	14	0.02
Russell 1000 Value Index Fund	44,174	3.89	9	0.02
U.S. Equity Index Fund	202,922	17.87	30	0.02
BlackRock All-Country World ex-U.S. Index Fund	32,353	2.85	32	0.10
U.S. Debt Index Fund	17,371	1.53	5	0.03
T. Rowe Stable Value	126,099	11.11	164	0.13
SSgA STIF	10,418	0.92	-	0.00
Conservative Premixed	50,966	4.49	31	0.06
Moderate Premixed	410,416	36.15	246	0.06
Aggressive Premixed	93,753	8.26	66	0.07
Investor Select Fund	19,979	1.76	68	0.34

** In addition to the fees listed above, \$123,890 (~1 bp on assets) in annual fees are paid to the Nebraska Investment Council.

The fees for the funds within the DC Plans are extremely favorable, ranging from 0.02% to 0.37% per annum. The DFA Small Cap Fund fee is 0.37%, which ranks very favorably relative to other active small cap managers.

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