

Board of Regents State of Iowa

March 31, 2018

Market Environment

Economic overview

U.S. GDP	2.3% for 1Q18; 2Q18 Fed forecast of 4.1%
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U.S. Unemployment Rate	3.9% as of April 2018
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U.S. Core Inflation	2.1% as of April 2018
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Fed Rate Expectations	53% probability of at least three additional increases in 2018
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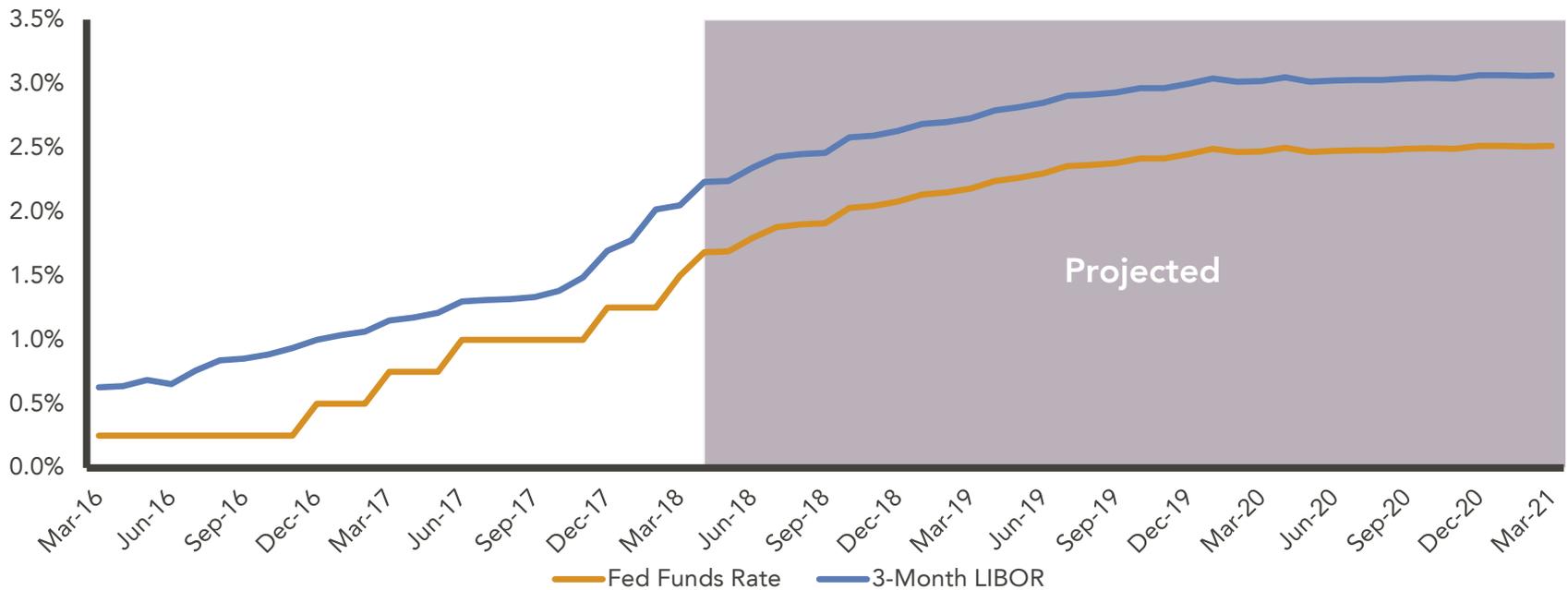
Global Growth Expectations	IMF forecasting 3.9% for 2018
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Source: Federal Reserve Bank of Atlanta (as of 5/15/18), BLS, BEA, CME Group (as of 5/15/18), IMF (as of April 2018)

The sixth Fed hike and rising LIBOR

Fed funds rate projected to reach 2.5%, LIBOR to reach 3%, in two years

Fed Funds Rate Futures Curve



Source: Bloomberg, Federal Reserve, as of April 9, 2018

1Q18: yield curve rises in parallel manner

March: risk-off due to tariff war fears and tech selloff

	Month (%)	3-Month (%)	YTD (%)	1 Year (%)	3 Year (%)	5 Year (%)	10 Year (%)
Broad Market Indices							
Blm BC Aggregate	0.6	-1.5	-1.5	1.2	1.2	1.8	3.6
Intermediate Indices							
Blm BC Int. Gov./Credit	0.4	-1.0	-1.0	0.4	0.9	1.2	2.9
Government Only Indices							
Blm BC Long Gov.	3.0	-3.2	-3.2	3.5	0.4	3.3	5.8
Blm BC Int. Gov.	0.5	-0.7	-0.7	-0.1	0.5	0.7	2.2
Blm BC 1-3 Year Gov.	0.2	-0.1	-0.1	0.0	0.4	0.5	1.2
Blm BC U.S. TIPS	1.1	-0.8	-0.8	0.9	1.3	0.0	2.9
Credit Indices							
Blm BC U.S. Long Credit	0.7	-3.8	-3.8	6.2	3.3	4.7	7.5
Blm BC High Yield	-0.6	-0.9	-0.9	3.8	5.2	5.0	8.3
CS Leveraged Loan Index	0.3	1.6	1.6	4.6	4.3	4.2	5.4
Securitized Bond Indices							
Blm BC MBS	0.6	-1.2	-1.2	0.8	1.1	1.8	3.5
Blm BC ABS	0.2	-0.4	-0.4	0.6	1.2	1.2	3.1
Blm BC CMBS	0.4	-1.2	-1.2	1.3	1.6	2.2	5.0
Non-US Indices							
Blm BC Global Aggregate Hedged	0.8	-0.1	-0.1	2.5	2.0	2.9	4.0
JPM EMBI Global Diversified	0.3	-1.7	-1.7	4.3	5.8	4.7	7.0
JPM GBI-EM Global Diversified	1.0	2.3	2.3	7.9	7.1	6.1	8.6
Municipal Indices							
Blm BC Municipal	0.4	-1.1	-1.1	2.7	2.3	2.7	4.4
Blm BC HY Municipal	1.5	0.6	0.6	6.0	4.6	4.1	5.6

Sources: Bloomberg Barclays, Credit Suisse, JPMorgan as of March 31, 2018

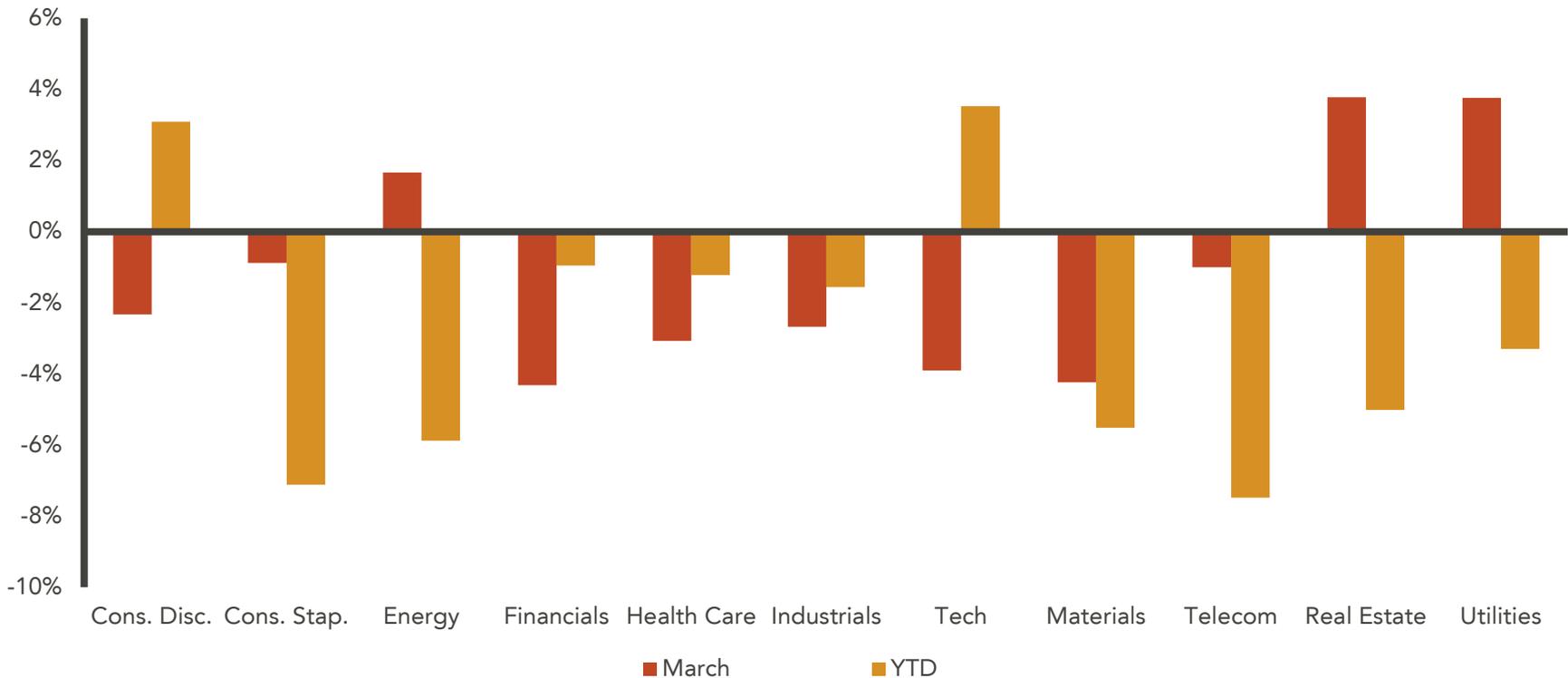
A record-tying streak ends

	Month (%)	3-Month (%)	YTD (%)	1 Year (%)	3 Year (%)	5 Year (%)	10 Year (%)
Broad Market Indices							
Dow Jones	-3.6	-2.0	-2.0	19.4	13.5	13.3	9.9
Wilshire 5000	-2.1	-0.8	-0.8	13.7	10.5	13.1	9.6
Russell 3000	-2.0	-0.6	-0.6	13.8	10.2	13.0	9.6
Large-Cap Market Indices							
S&P 500	-2.5	-0.8	-0.8	14.0	10.8	13.3	9.5
Russell 1000	-2.3	-0.7	-0.7	14.0	10.4	13.2	9.6
Russell 1000 Value	-1.8	-2.8	-2.8	6.9	7.9	10.8	7.8
Russell 1000 Growth	-2.7	1.4	1.4	21.3	12.9	15.5	11.3
Mid-Cap Market Indices							
Russell MidCap	0.1	-0.5	-0.5	12.2	8.0	12.1	10.2
Russell MidCap Value	0.2	-2.5	-2.5	6.5	7.2	11.1	9.8
Russell MidCap Growth	-0.2	2.2	2.2	19.7	9.2	13.3	10.6
Small-Cap Market Indices							
Russell 2000	1.3	-0.1	-0.1	11.8	8.4	11.5	9.8
Russell 2000 Value	1.2	-2.6	-2.6	5.1	7.9	10.0	8.6
Russell 2000 Growth	1.3	2.3	2.3	18.6	8.8	12.9	11.0

Source: Morningstar Direct as of March 31, 2018

Growth prevailed in a volatile quarter

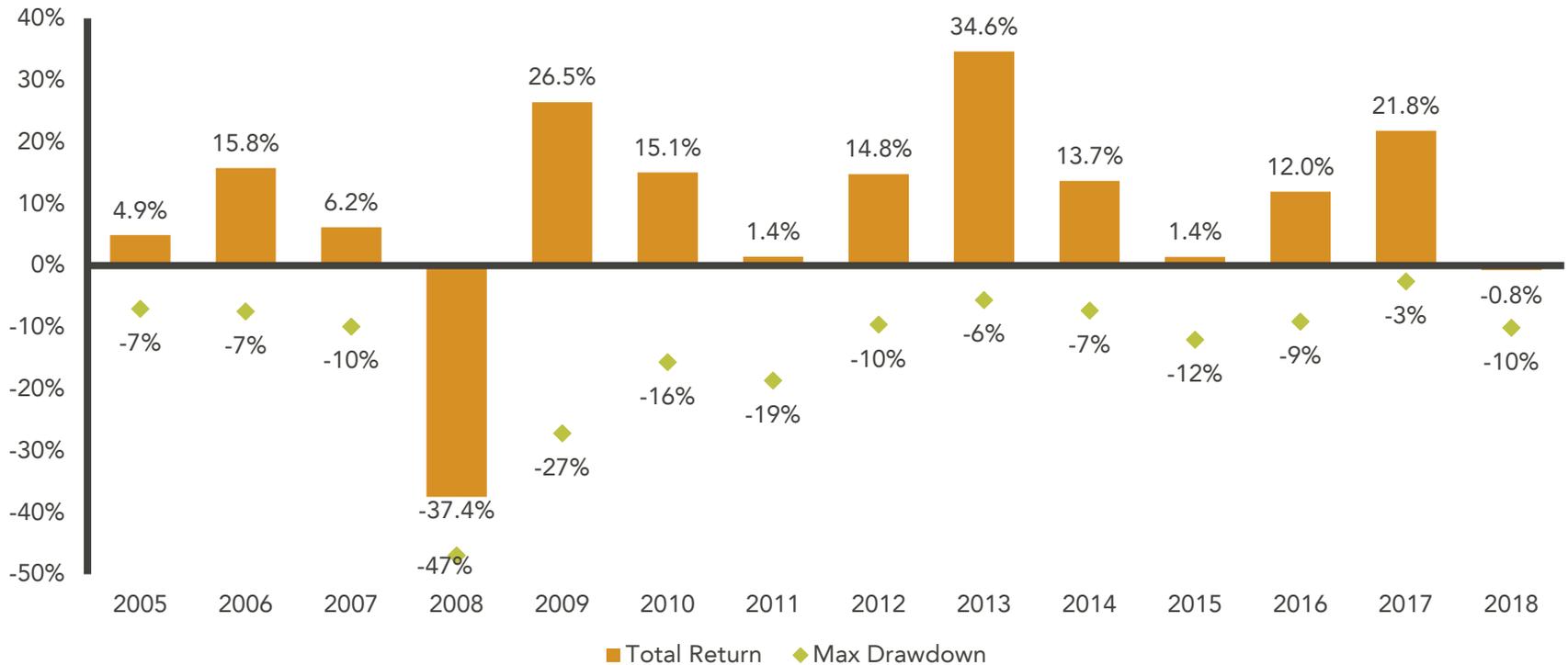
S&P 500 sector performance



Source: Morningstar Direct as of March 31, 2018

Negative returns are normal

S&P 500 maximum market drawdown



Source: Bloomberg as of March 31, 2018

Non-U.S. equities: negative returns continue

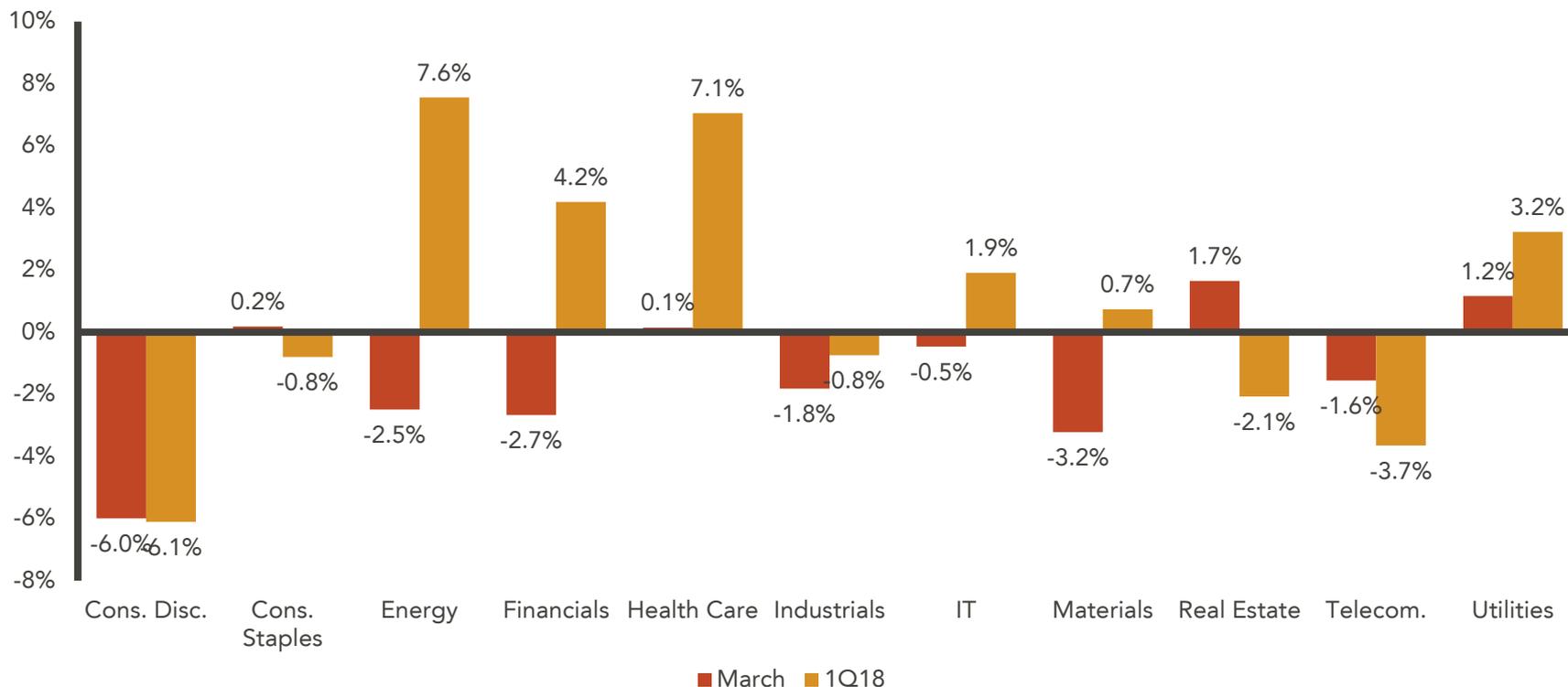
Two straight negative months

	Month (%)	3-Month (%)	YTD (%)	1 Year (%)	3 Year (%)	5 Year (%)	10 Year (%)
MSCI ACWI ex. U.S.	-1.8	-1.2	-1.2	16.5	6.2	5.9	2.7
MSCI EAFE	-1.8	-1.5	-1.5	14.8	5.6	6.5	2.7
MSCI EAFE Local	-2.2	-4.3	-4.3	5.3	3.4	8.5	3.2
MSCI Emerging Markets	-1.9	1.4	1.4	24.9	8.8	5.0	3.0
MSCI EM Local	-1.9	0.7	0.7	22.0	9.0	8.2	5.4
MSCI EAFE Small-Cap	-1.1	0.2	0.2	23.5	12.3	11.1	6.5
MSCI EM Small-Cap	-1.3	0.2	0.2	18.6	7.2	4.6	4.4
MSCI Frontier	0.9	5.1	5.1	27.3	7.9	8.6	-0.7

Source: Bloomberg as of March 31, 2018

March and 1Q EM sector performance

Energy and Health Care lead year-to-date



Source: Bloomberg

Real Estate performance snapshot

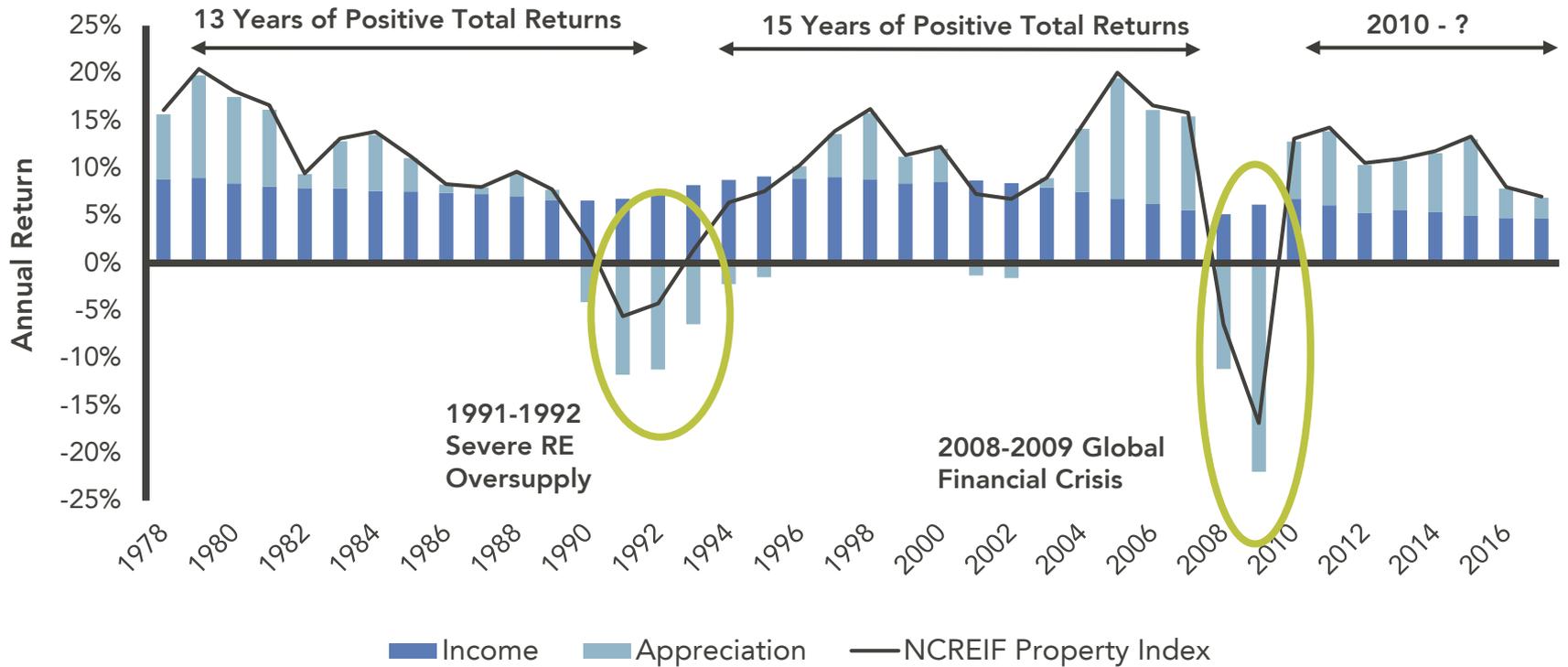
Another positive quarter for real estate

	1Q18 (%)	YTD (%)	1 Year (%)	3 Year (%)	5 Year (%)	10 Year (%)	10 Yr Risk(%)
NPI	1.7	1.7	7.1	8.7	10.0	6.1	5.7
Income	1.1	1.1	4.7	4.8	5.0	5.5	0.3
Appreciation	0.6	0.6	2.4	3.8	4.8	0.6	5.8
NFI-ODCE	2.2	2.2	8.1	10.0	11.4	5.1	8.5
Income	1.0	1.0	4.3	4.5	4.7	5.2	0.4
Appreciation	1.2	1.2	3.6	5.3	6.5	-0.1	8.6
FTSE NAREIT All Eq. REITs	-6.7	-6.7	-1.1	2.9	6.7	6.9	24.9
Property Type							
NPI Apartment	1.5	1.5	6.4	8.0	9.0	6.1	6.2
NPI Office	1.8	1.8	6.6	7.7	9.2	4.9	6.1
NPI Industrial	3.3	3.3	13.5	13.3	13.4	7.3	6.0
NPI Retail	0.7	0.7	4.8	8.4	10.5	7.5	4.8
NPI Hotel	1.0	1.0	6.2	7.0	8.2	3.5	6.5
Geographic Sectors							
NPI East	1.2	1.2	5.4	6.9	8.1	4.9	6.1
NPI Midwest	1.3	1.3	5.5	7.5	9.1	5.7	4.7
NPI South	1.8	1.8	6.9	8.5	10.5	6.8	5.1
NPI West	2.2	2.2	9.1	10.7	11.8	6.9	6.2

Sources: NCREIF, Bloomberg as of March 31, 2018

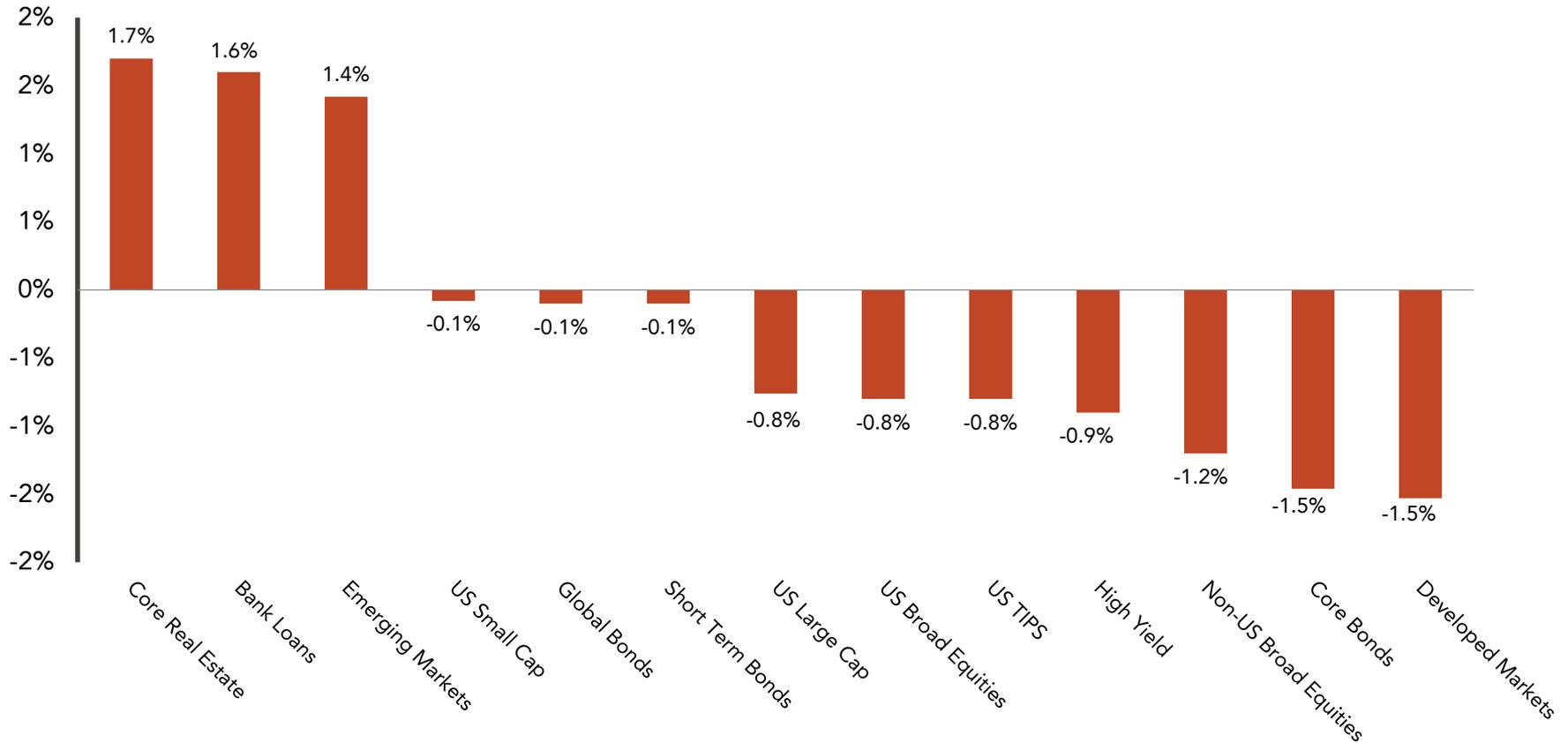
Real Estate cycle

Real estate returns are reverting to historical norms



Sources: NCREIF, Bloomberg, Clarion Partners

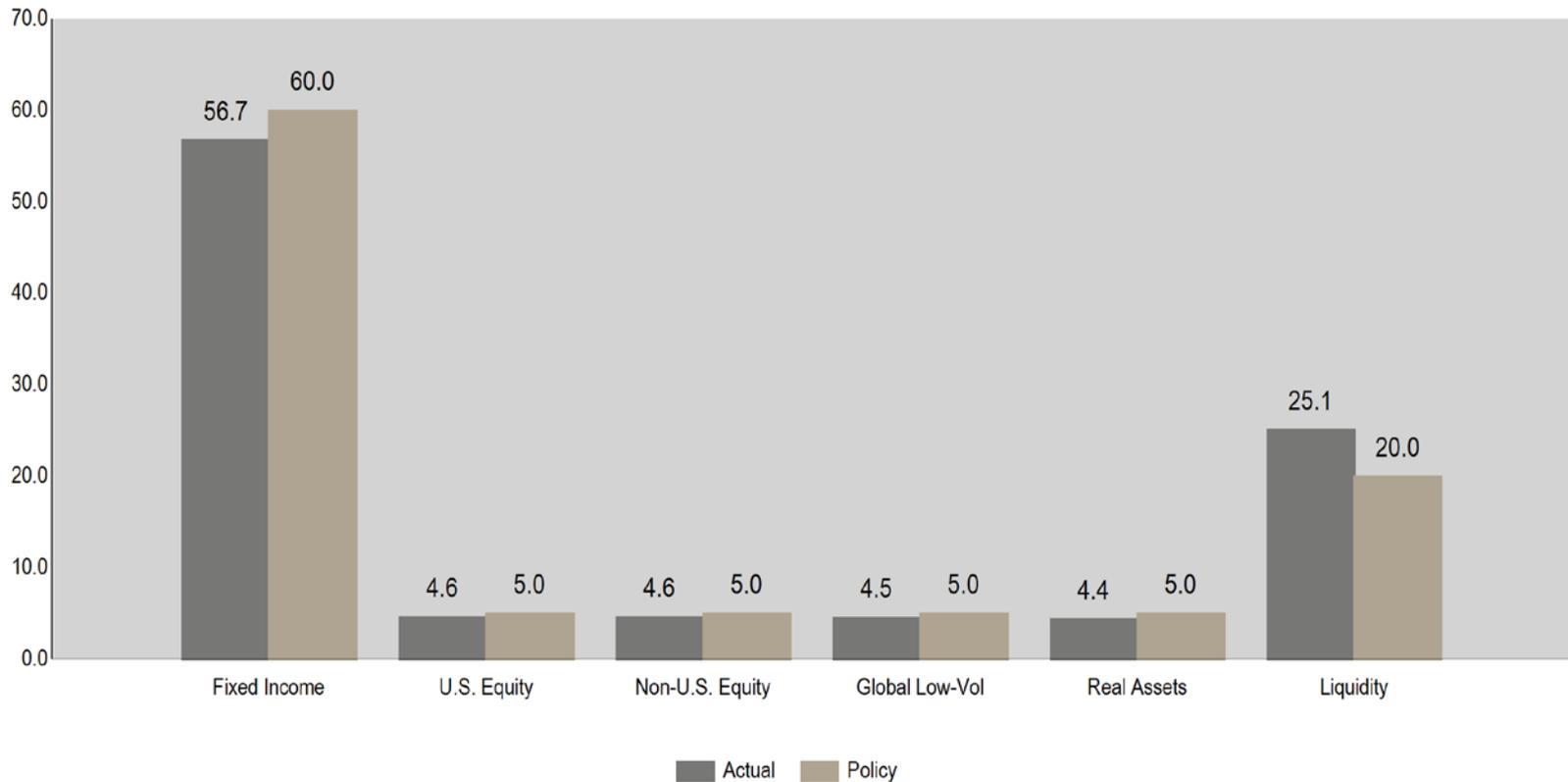
YTD asset class returns



Performance Review

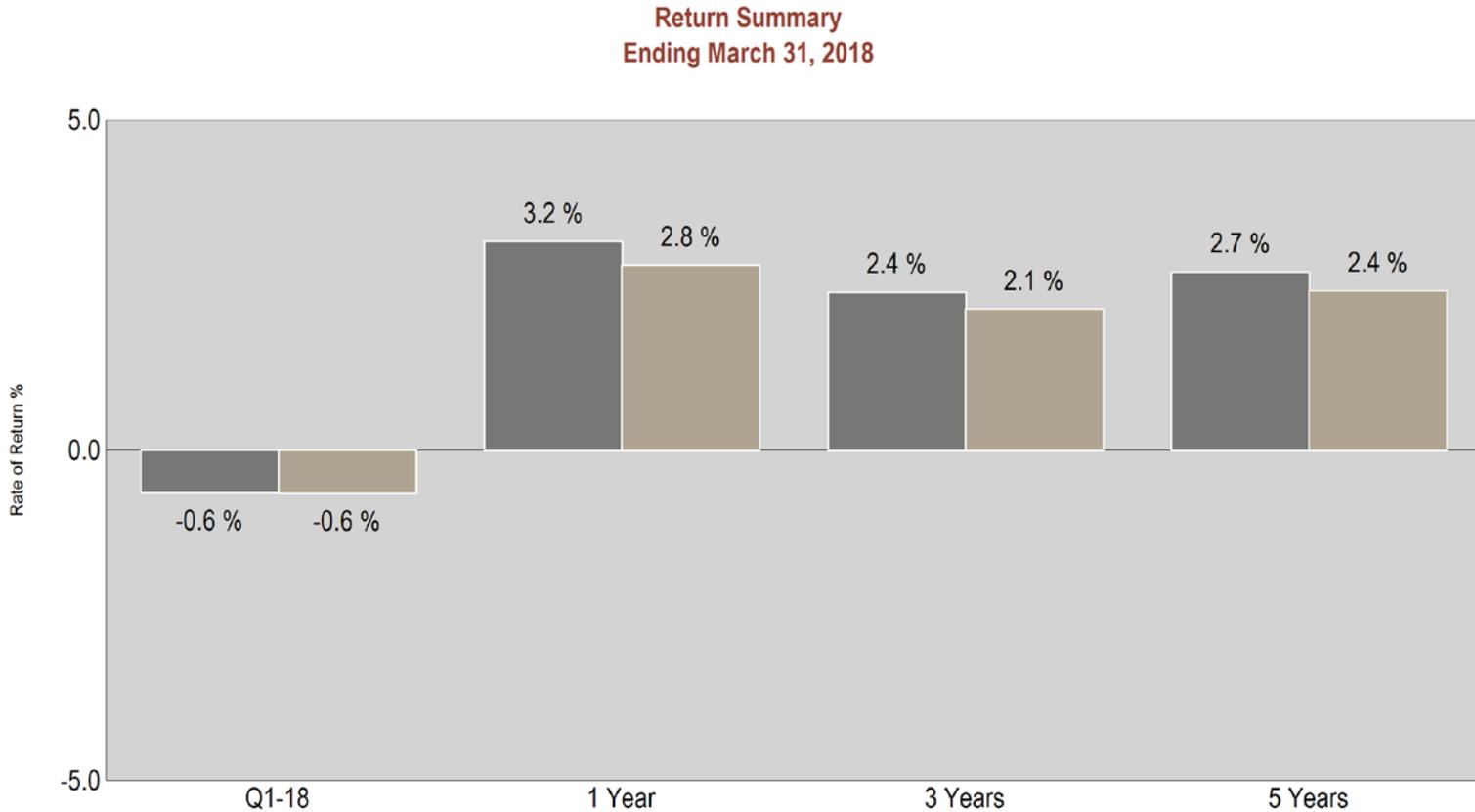
University of Iowa Operating Portfolio – Asset Allocation*

University of Iowa Operating Pool - Actual vs Target Allocation (%)



*Includes University of Northern Iowa

University of Iowa Operating Portfolio – Return Summary*

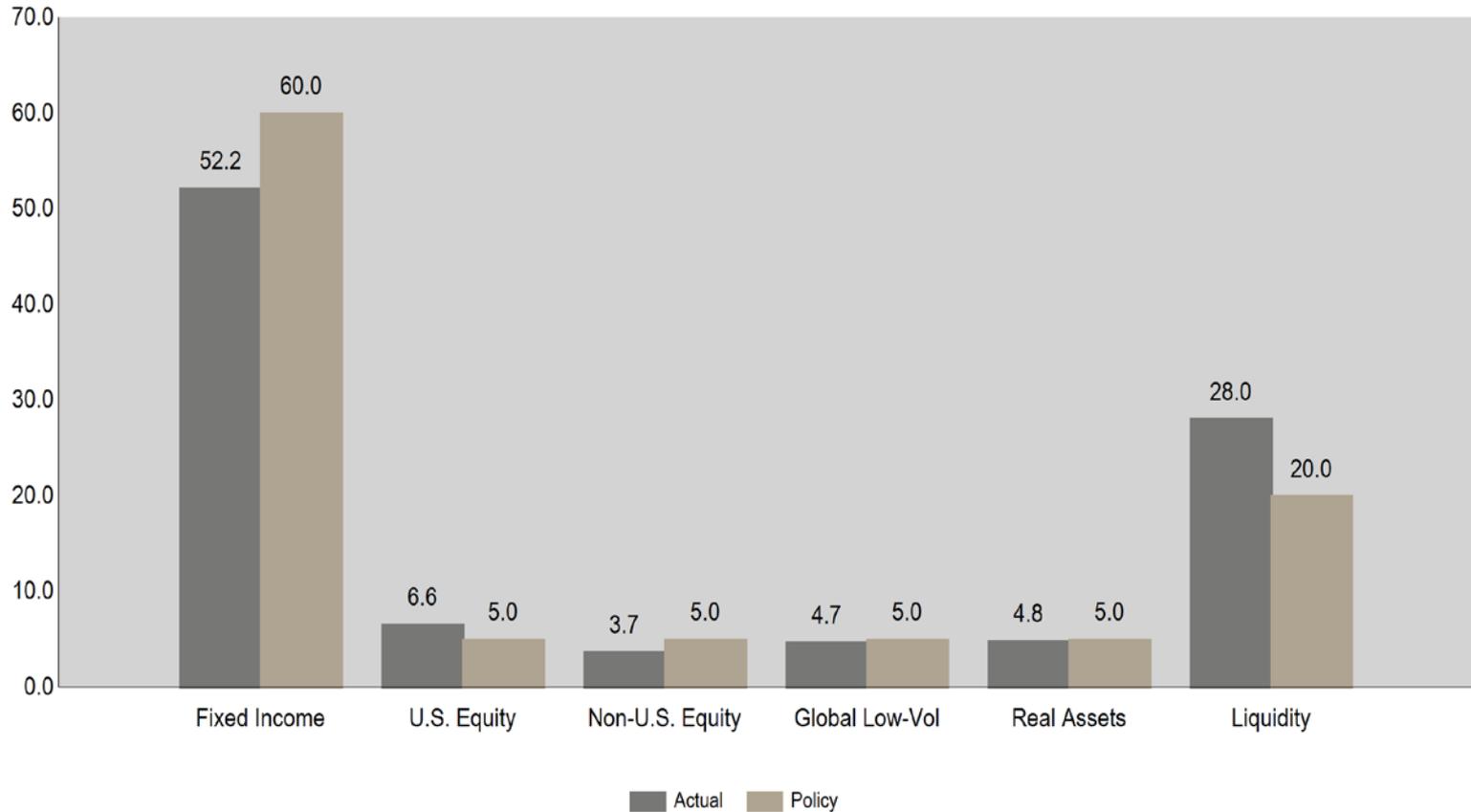


*Includes University of Northern Iowa
**See Appendix for Policy Index Definition

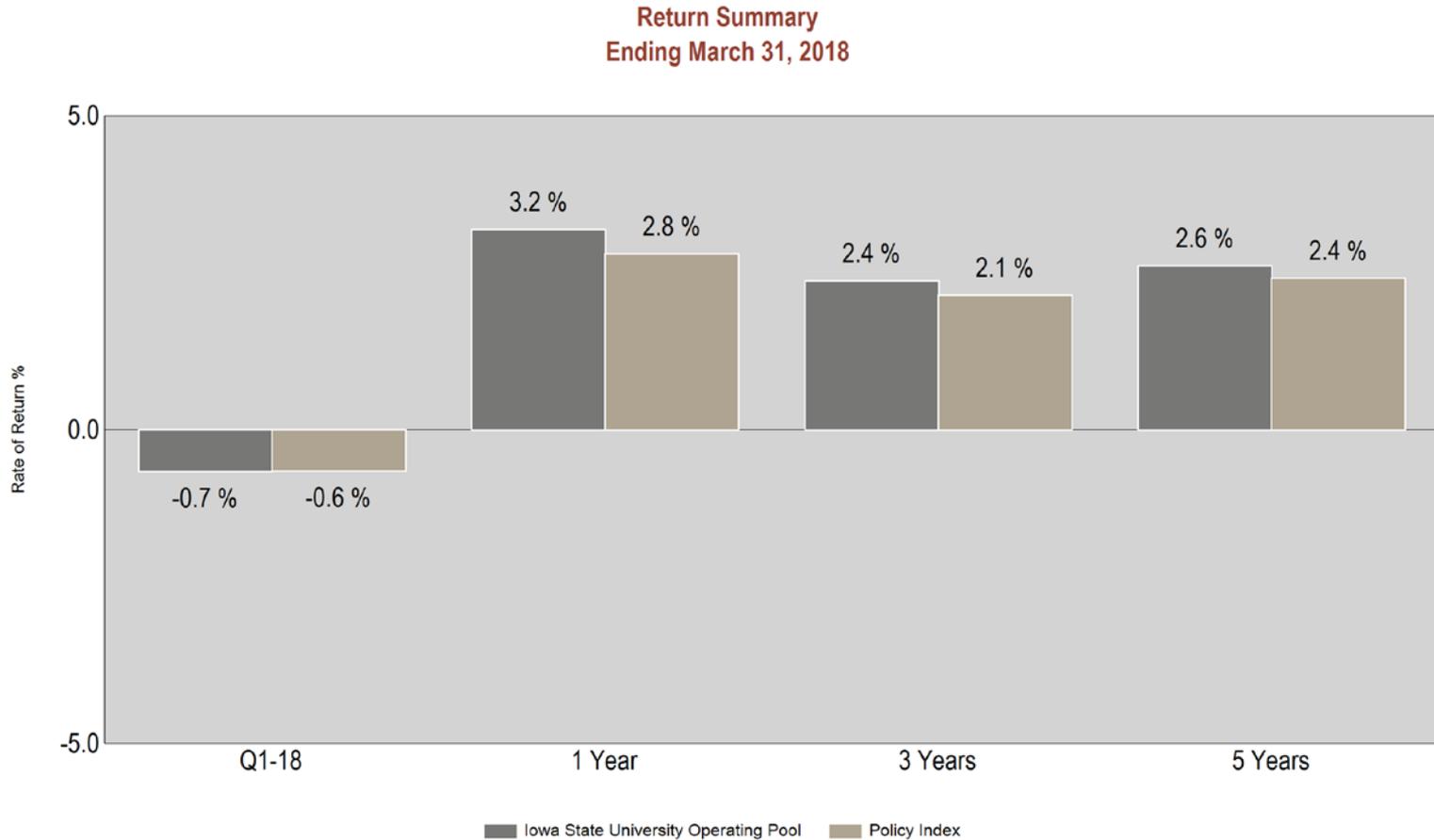
■ University of Iowa Operating Pool ■ Policy Index

Iowa State University Operating Portfolio – Asset Allocation

Iowa State University Operating Pool - Actual vs Target Allocation (%)



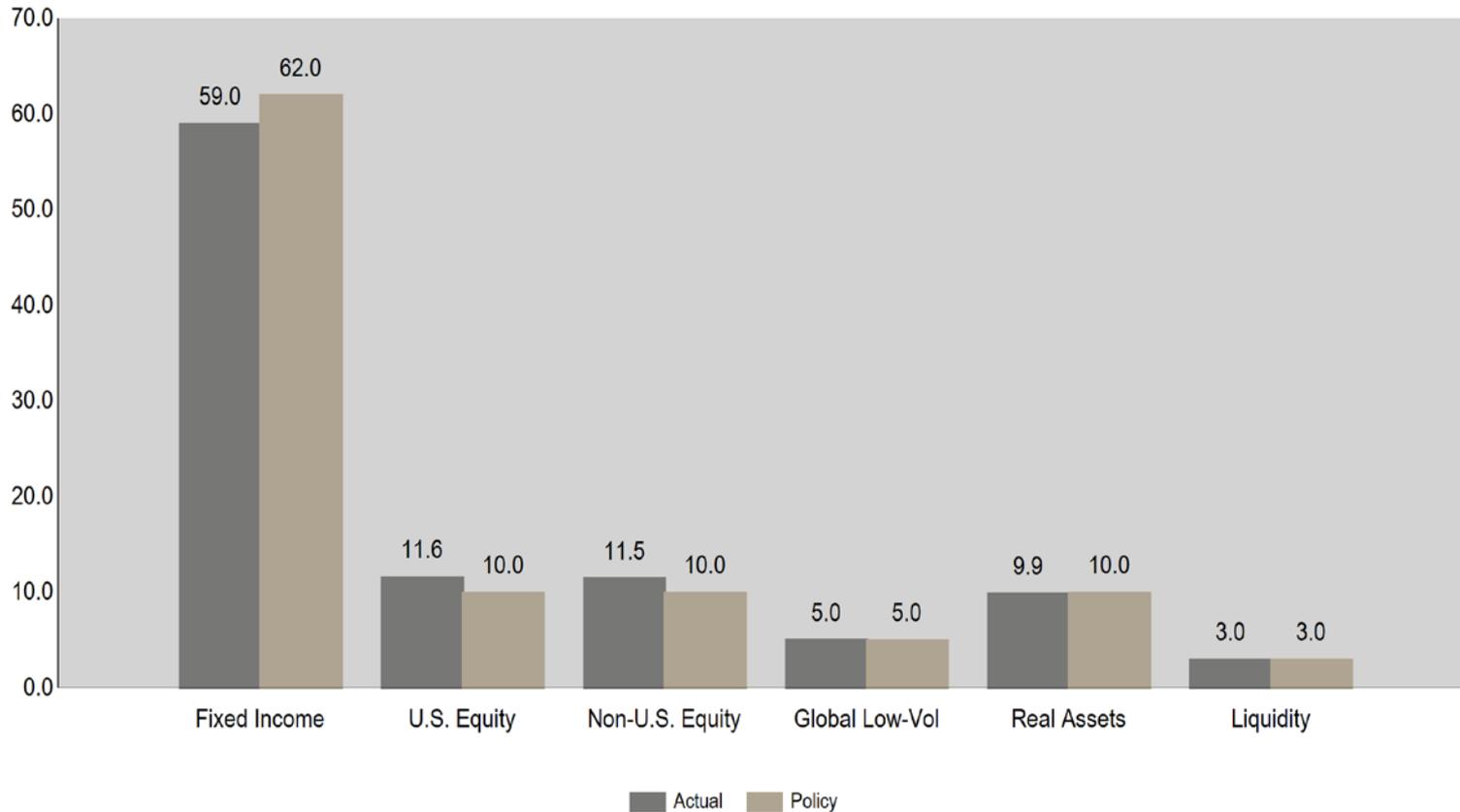
Iowa State University Operating Portfolio – Return Summary



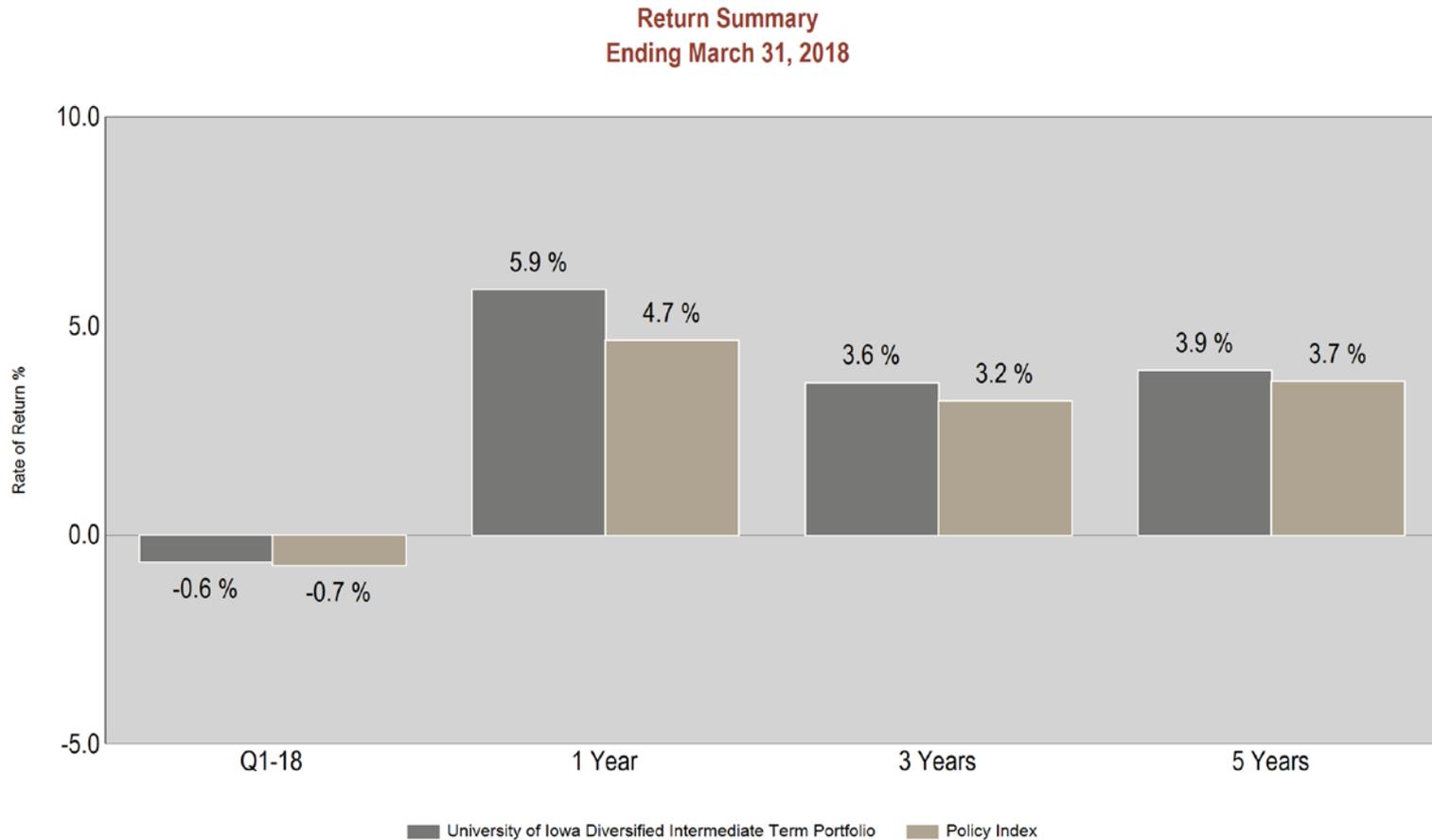
* See Appendix for Policy Index Definition

University of Iowa Diversified Intermediate Term Portfolio – Asset Allocation

University of Iowa Diversified Intermediate Term Portfolio - Actual vs Target Allocation (%)



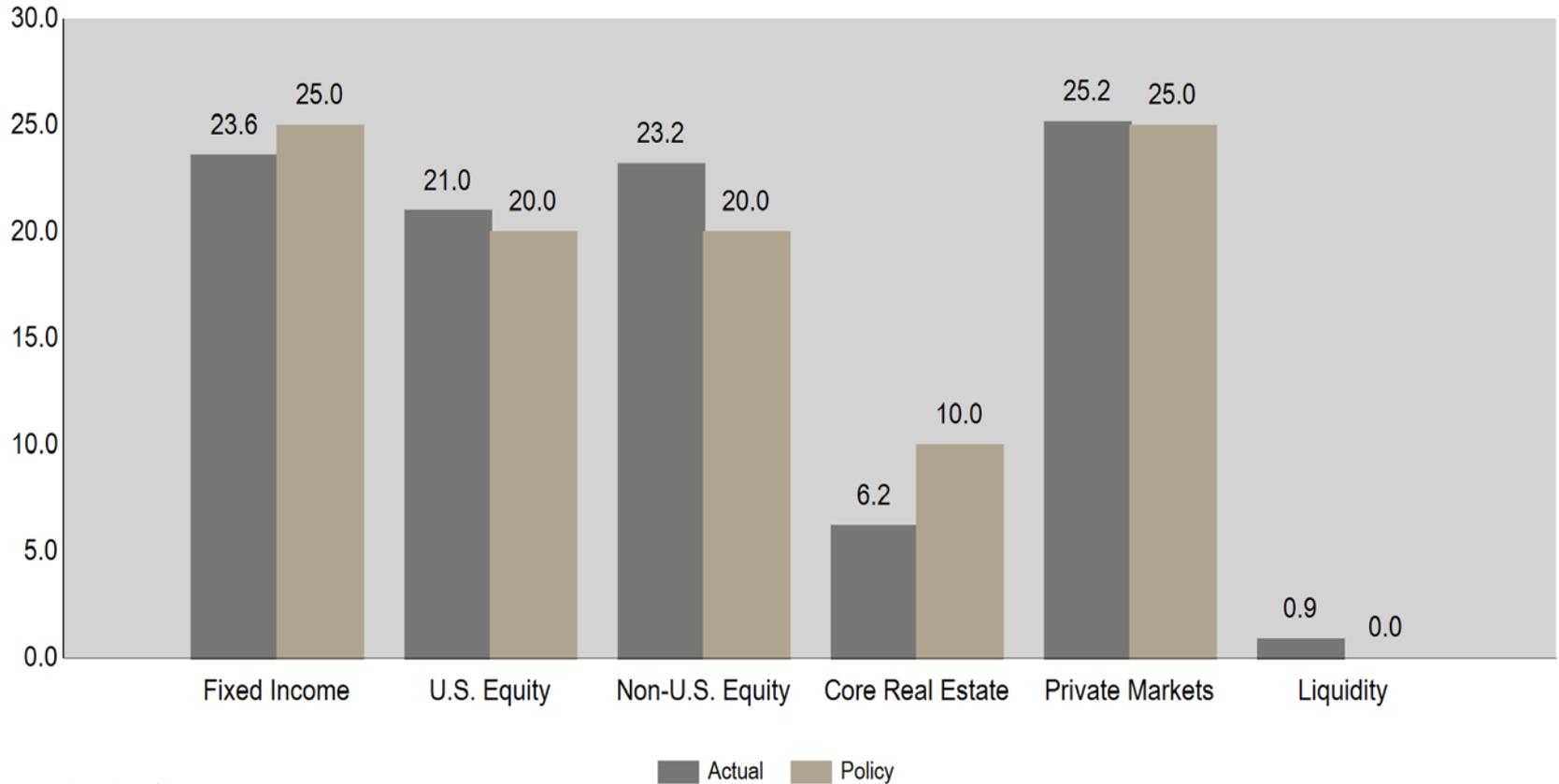
University of Iowa Diversified Intermediate Term Portfolio – Return Summary



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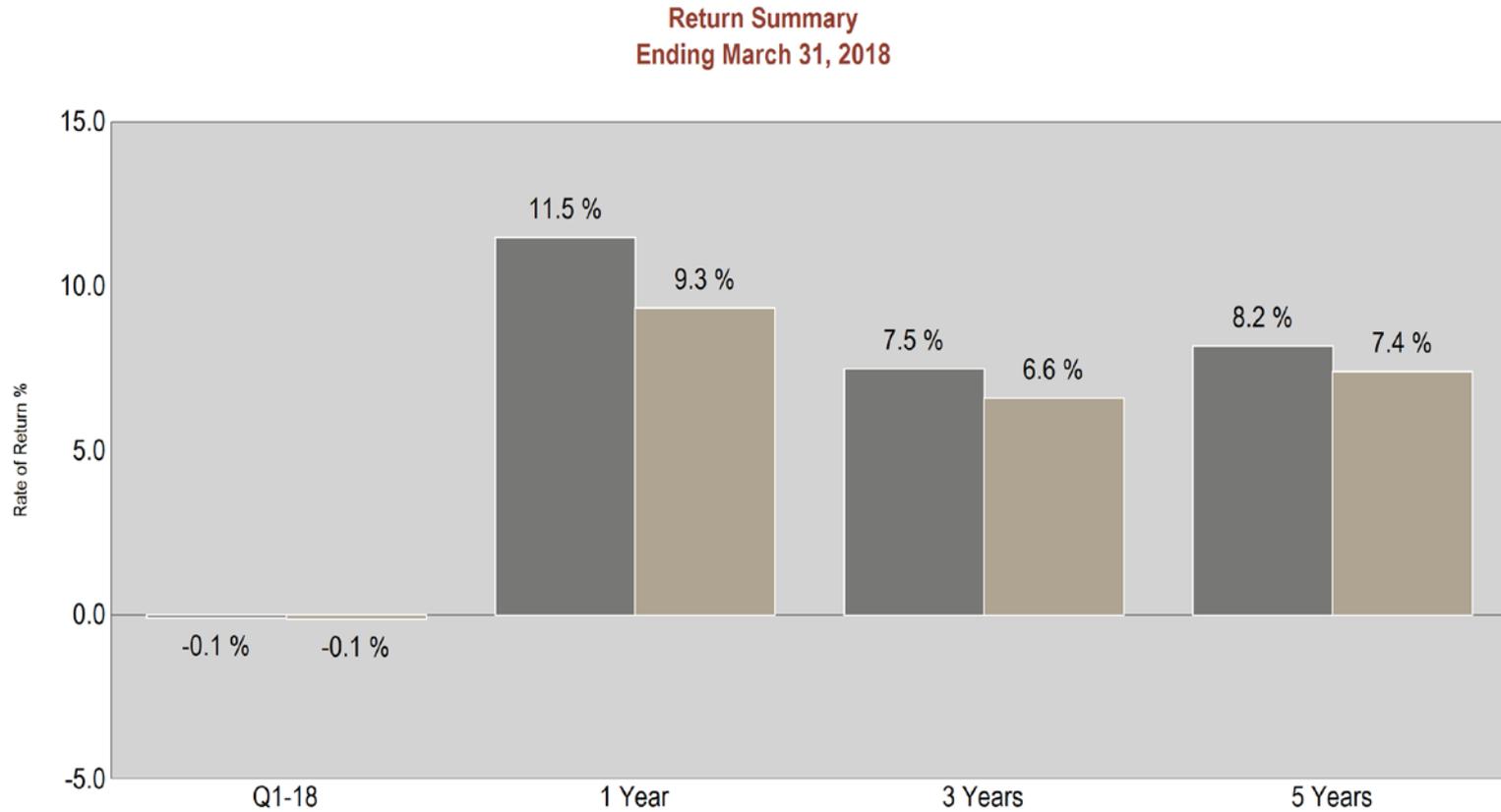
University of Iowa Endowment – Asset Allocation*

University of Iowa Endowment - Actual vs Target Allocation (%)



*Includes University of Northern Iowa

University of Iowa Endowment – Return Summary*

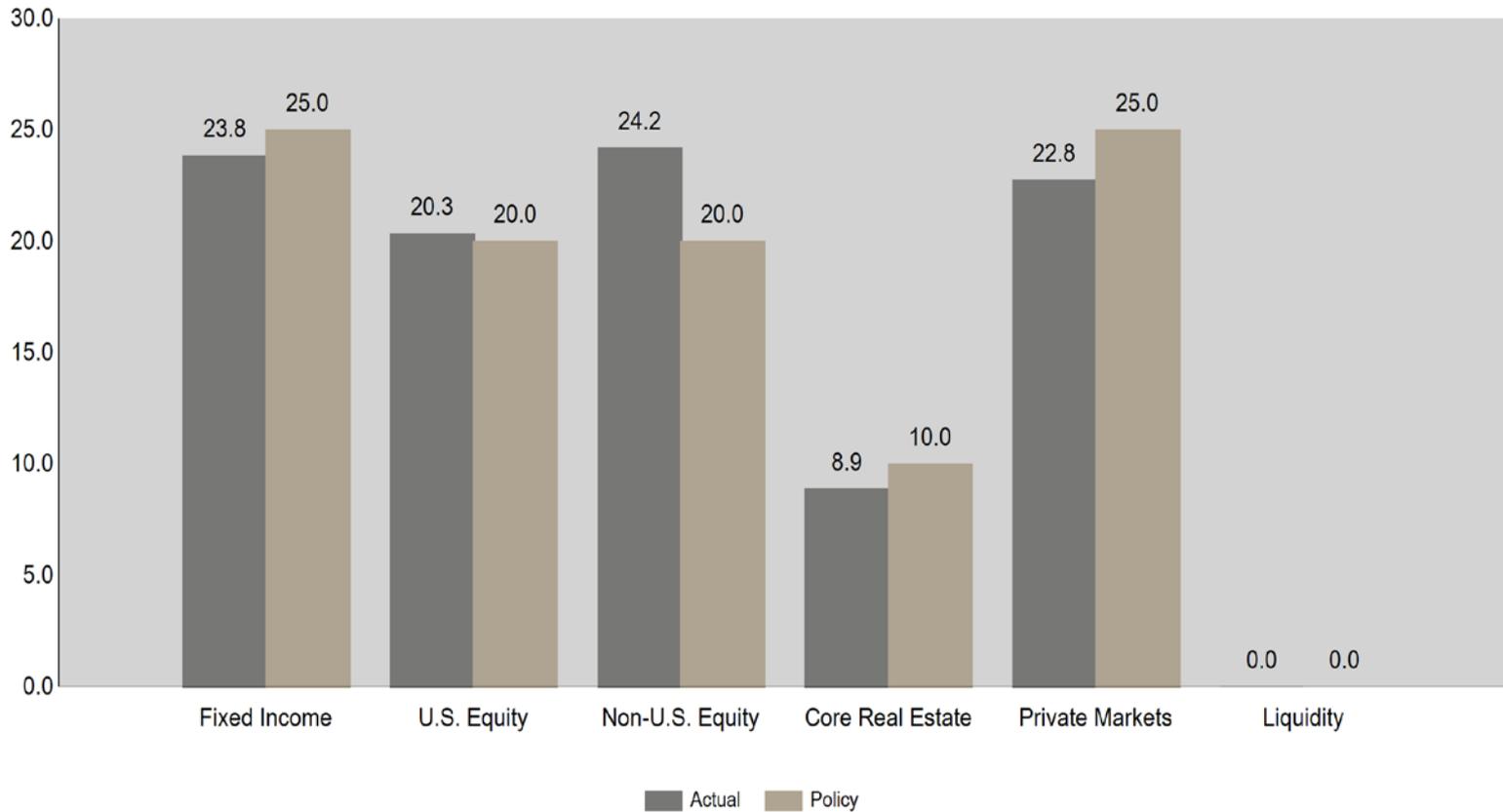


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■ University of Iowa Endowment ■ Policy Index

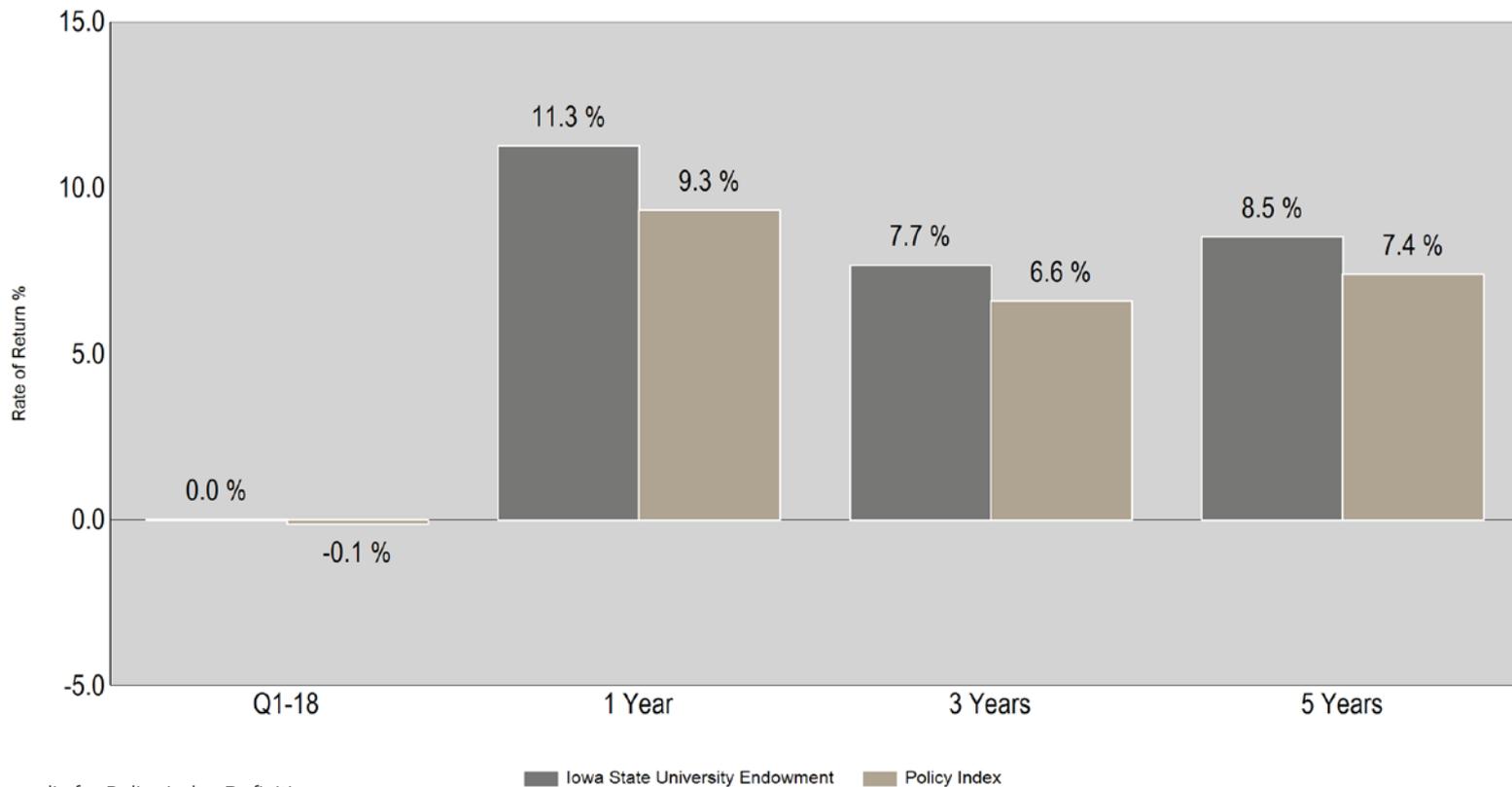
Iowa State University Endowment – Asset Allocation

Iowa State University Endowment - Actual vs Target Allocation (%)



Iowa State University Endowment – Return Summary

Return Summary
Ending March 31, 2018



* See Appendix for Policy Index Definition

Appendix

University of Iowa Operating Portfolio – Market Values*

	Asset Class	Market Value	% of Portfolio	Policy %
University of Iowa Operating Pool		\$1,031,808,188	100.0%	100.0%
Total Fixed Income Composite		\$585,405,342	56.7%	60.0%
AllianceBernstein Global Bond Fund	Global Fixed Income	\$49,003,513	4.7%	5.0%
U.S. Fixed Income Composite		\$536,401,829	52.0%	55.0%
Vanguard Total Bond Market Index Fund	Core Fixed Income	\$246,782,978	23.9%	25.0%
MacKay Shields Intermediate Bond Fund	Int. Fixed Income	\$195,250,609	18.9%	20.0%
Vanguard High-Yield Corporate Fund	High Yield Fixed Income	\$24,870,267	2.4%	2.5%
Neuberger Berman High Income	High Yield Fixed Income	\$23,198,880	2.2%	2.5%
Voya Senior Loan	Senior Secured Loans	\$23,658,201	2.3%	2.5%
Symphony Floating Rate Fund	Senior Secured Loans	\$22,640,893	2.2%	2.5%
U.S. Equity Composite		\$47,674,687	4.6%	5.0%
Vanguard Total Stock Market Index	All-Cap Core	\$47,674,687	4.6%	5.0%
Non-U.S. Equity Composite		\$47,640,314	4.6%	5.0%
Vanguard FTSE All-World ex US	Non-U.S. Large-Cap Core	\$47,640,314	4.6%	5.0%
Global Low Volatility Composite		\$46,882,126	4.5%	5.0%
Acadian Global Low Volatility	Global Low-Volatility	\$46,882,126	4.5%	5.0%
Real Estate Composite		\$28,986,056	2.8%	5.0%
UBS Trumbull Property Fund	Core Real Estate	\$23,361,056	2.3%	2.5%
Morgan Stanley PRIME Property Fund	Core Real Estate	\$5,625,000	0.5%	2.5%
Real Assets Composite		\$16,168,143	1.6%	0.0%
Vanguard US REIT Index	U.S. REIT	\$8,163,792	0.8%	0.0%
Vanguard Global ex-US REIT	Global REIT	\$8,004,351	0.8%	0.0%
Liquidity Composite		\$259,051,520	25.1%	20.0%

*Includes University of Northern Iowa

Iowa State University Operating Portfolio – Market Values

	Asset Class	Market Value	% of Portfolio	Policy %
Iowa State University Operating Pool		\$310,528,577	100.0%	100.0%
Total Fixed Income Composite		\$161,983,645	52.2%	60.0%
AllianceBernstein Global Bond Fund	Global Fixed Income	\$14,318,568	4.6%	5.0%
U.S. Fixed Income Composite		\$147,665,077	47.6%	55.0%
Vanguard Total Bond Market Index Fund	Core Fixed Income	\$64,408,805	20.7%	25.0%
MacKay Shields Intermediate Bond Fund	Int. Fixed Income	\$54,166,809	17.4%	20.0%
Vanguard High-Yield Corporate Fund	High Yield Fixed Income	\$8,913,522	2.9%	2.5%
Neuberger Berman High Income	High Yield Fixed Income	\$5,768,100	1.9%	2.5%
Symphony Floating Rate Fund	Senior Secured Loans	\$14,407,841	4.6%	5.0%
U.S. Equity Composite		\$20,397,881	6.6%	5.0%
Vanguard Total Stock Market Index	All-Cap Core	\$20,397,881	6.6%	5.0%
Non-U.S. Equity Composite		\$11,463,977	3.7%	5.0%
Vanguard FTSE All-World ex US	Non-U.S. Large-Cap Core	\$11,463,977	3.7%	5.0%
Global Low Volatility Composite		\$14,585,548	4.7%	5.0%
Acadian Global Low Volatility	Global Low-Volatility	\$14,585,548	4.7%	5.0%
Real Estate Composite		\$9,015,909	2.9%	5.0%
UBS Trumbull Property Fund	Core Real Estate	\$7,265,913	2.3%	2.5%
Morgan Stanley PRIME Property Fund	Core Real Estate	\$1,749,996	0.6%	2.5%
Real Assets Composite		\$6,010,557	1.9%	0.0%
Vanguard US REIT Index	U.S. REIT	\$3,751,603	1.2%	0.0%
Vanguard Global ex-US REIT	Global REIT	\$2,258,953	0.7%	0.0%
Liquidity Composite		\$87,071,061	28.0%	20.0%

University of Iowa Diversified Intermediate Term Portfolio

	Asset Class	Market Value	% of Portfolio	Policy %
University of Iowa Diversified Intermediate Term Portfolio		\$434,777,337	100.0%	100.0%
Fixed Income Composite		\$256,474,368	59.0%	62.0%
SSgA U.S. Aggregate Bond Index	Core Fixed Income	\$50,196,544	11.5%	14.0%
Dodge & Cox Core Fixed Income	Core Fixed Income	\$56,474,290	13.0%	14.0%
MacKay Shields Intermediate Bond Fund	Int. Fixed Income	\$70,909,277	16.3%	17.0%
SSgA US High Yield Bond	High Yield Fixed Income	\$15,597,001	3.6%	2.5%
Neuberger Berman High Income	High Yield Fixed Income	\$11,371,749	2.6%	2.5%
Voya Senior Loan	Senior Secured Loans	\$10,966,620	2.5%	2.5%
Symphony Floating Rate Fund	Senior Secured Loans	\$10,805,881	2.5%	2.5%
Brandywine Global Opportunistic	Global Fixed Income	\$30,153,006	6.9%	7.0%
U.S. Equity Composite		\$50,520,985	11.6%	10.0%
SSgA U.S. Total Market Index	All-Cap Core	\$50,520,985	11.6%	10.0%
Non-U.S. Equity Composite		\$49,867,996	11.5%	10.0%
SSgA MSCI ACWI ex US	Non-U.S. Large-Cap Core	\$49,867,996	11.5%	10.0%
Global Low Volatility Composite		\$21,878,325	5.0%	5.0%
Acadian Global Low Volatility	Global Low-Volatility	\$21,878,325	5.0%	5.0%
Real Estate Composite		\$27,053,652	6.2%	10.0%
UBS Trumbull Property Fund	Core Real Estate	\$21,803,652	5.0%	5.0%
Morgan Stanley PRIME Property Fund	Core Real Estate	\$5,250,000	1.2%	5.0%
Real Assets Composites		\$16,027,203	3.7%	0.0%
SSgA U.S. REIT	U.S. REIT	\$7,960,467	1.8%	0.0%
Vanguard Global ex-US REIT	Global REIT	\$8,066,736	1.9%	0.0%
Liquidity Composite		\$12,954,808	3.0%	3.0%
Liquidity	Cash & Equivalents	\$12,954,808	3.0%	3.0%

University of Iowa Endowment – Market Values*

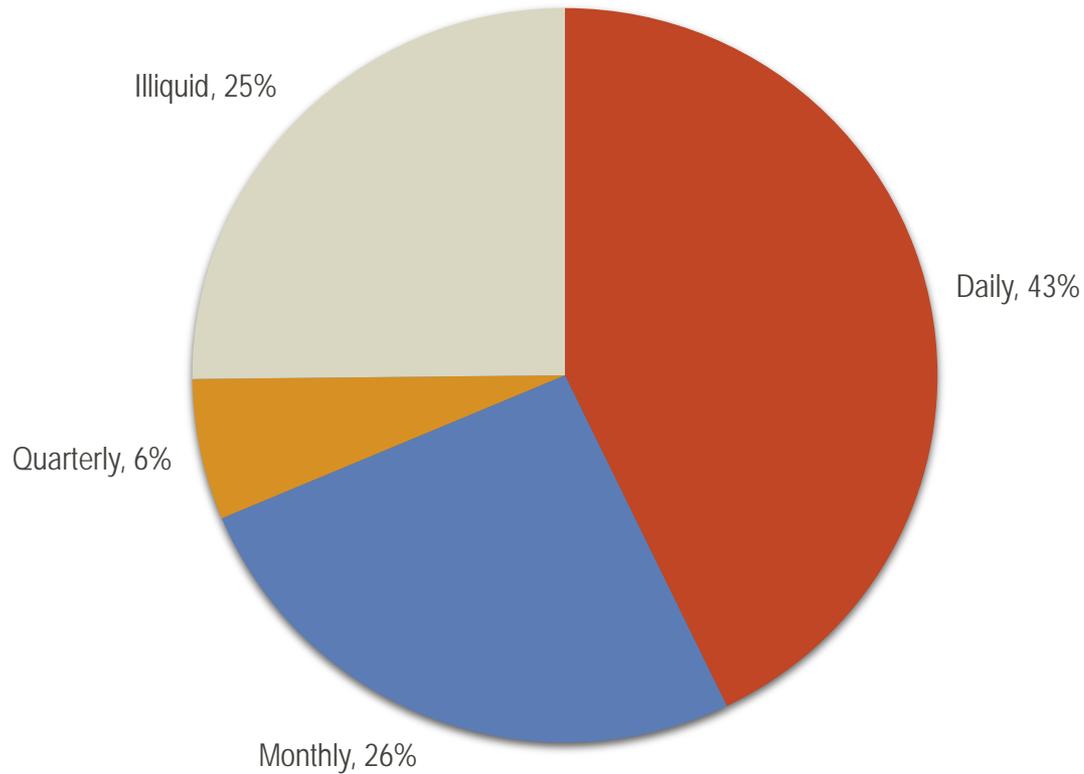
	Asset Class	Market Value	% of Portfolio	Policy %
University of Iowa Endowment		\$415,618,040	100.0%	100.0%
Fixed Income Composite		\$98,015,759	23.6%	25.0%
MacKay Shields Core Fund	Core Fixed Income	\$39,806,648	9.6%	10.0%
Neuberger Berman High Income	High Yield Fixed Income	\$17,497,040	4.2%	5.0%
Voya Senior Loan	Senior Secured Loans	\$10,517,606	2.5%	2.5%
Symphony Floating Rate Fund	Senior Secured Loans	\$10,085,489	2.4%	2.5%
Brandywine Global Opportunistic	Global Fixed Income	\$20,108,977	4.8%	5.0%
U.S. Equity Composite		\$87,199,816	21.0%	20.0%
Vanguard Institutional Index	Large-Cap Core	\$61,484,715	14.8%	14.0%
Vanguard Mid Cap Index	Mid-Cap Core	\$12,698,232	3.1%	3.0%
Macquarie Small Cap Core	Small-Cap Core	\$13,016,870	3.1%	3.0%
Non-U.S. Equity Composite		\$96,385,980	23.2%	20.0%
SSgA MSCI ACWI ex US IMI Index	Non-U.S. Large-Cap Core	\$27,318,532	6.6%	6.7%
Arrowstreet International Equity	Non-U.S. Large-Cap Core	\$36,132,405	8.7%	6.7%
Earnest Partners International Large Cap	Non-U.S. Large-Cap Core	\$32,935,043	7.9%	6.7%
Core Real Estate Composite		\$25,793,112	6.2%	10.0%
Principal Enhanced Property	Core Plus Real Estate	\$22,626,720	5.4%	5.0%
UBS Trumbull Property Fund	Core Real Estate	\$2,541,393	0.6%	2.5%
Morgan Stanley PRIME Property Fund	Core Real Estate	\$625,000	0.2%	2.5%
Private Markets Composite		\$104,579,758	25.2%	25.0%
Liquidity Composite		\$3,643,614	0.9%	0.0%

*Includes University of Northern Iowa

Iowa State University Endowment – Market Values

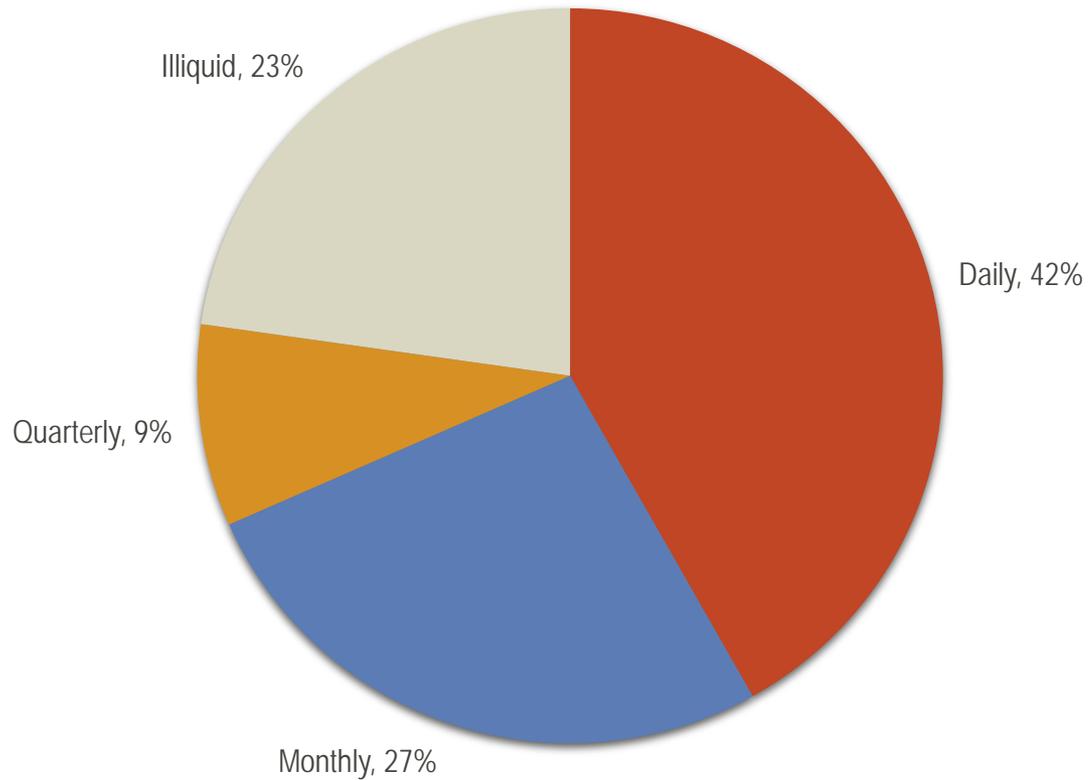
	Asset Class	Market Value	% of Portfolio	Policy %
Iowa State University Endowment		\$180,113,952	100.0%	100.0%
Fixed Income Composite		\$42,940,966	23.8%	25.0%
MacKay Shields Core Fund	Core Fixed Income	\$17,250,916	9.6%	10.0%
Neuberger Berman High Income	High Yield Fixed Income	\$7,861,995	4.4%	5.0%
Symphony Floating Rate Fund	Senior Secured Loans	\$9,159,270	5.1%	5.0%
Brandywine Global Opportunistic	Global Fixed Income	\$8,668,784	4.8%	5.0%
U.S. Equity Composite		\$36,631,954	20.3%	20.0%
Vanguard Institutional Index	Large-Cap Core	\$22,253,622	12.4%	14.0%
Vanguard Mid Cap Index	Mid-Cap Core	\$5,942,660	3.3%	3.0%
Macquarie Small Cap Core	Small-Cap Core	\$8,435,673	4.7%	3.0%
Non-U.S. Equity Composite		\$43,566,894	24.2%	20.0%
SSgA MSCI ACWI ex US IMI Index	Non-U.S. Large-Cap Core	\$12,836,304	7.1%	6.7%
Arrowstreet International Equity	Non-U.S. Large-Cap Core	\$15,485,811	8.6%	6.7%
Earnest Partners International Large Cap	Non-U.S. Large-Cap Core	\$15,244,779	8.5%	6.7%
Core Real Estate Composite		\$15,997,281	8.9%	10.0%
Principal Enhanced Property	Core Plus Real Estate	\$12,070,952	6.7%	5.0%
UBS Trumbull Property Fund	Core Real Estate	\$3,151,327	1.7%	2.5%
Morgan Stanley PRIME Property Fund	Core Real Estate	\$775,003	0.4%	2.5%
Private Markets Composite		\$40,976,832	22.8%	25.0%
Liquidity Composite		\$25	0.0%	0.0%

University of Iowa Endowment – Liquidity by Percent of Assets*



*Includes University of Northern Iowa

Iowa State University Endowment – Liquidity by Percent of Assets



University of Iowa Endowment – Private Markets

Since Inception Cash Flows Data as of December 31, 2017

Asset Class	Fund Company	Commitment	Capital Calls	Distributions	Ending Value	¹ Cash Multiple
Global Fund of Funds	Neuberger Berman Crossroads Fund XVIII	\$6,000,000	\$4,980,000	\$5,948,290	\$1,829,356	1.6
Fund of Funds	Commonfund Capital Venture Partners VIII	\$1,000,000	\$950,000	\$785,113	\$1,003,783	1.9
International Fund of Funds	Commonfund Capital International Partners VI	\$1,200,000	\$1,089,000	\$1,185,426	\$515,258	1.6
Venture Fund of Funds	Commonfund Private Equity Partners VII	\$2,400,000	\$2,176,800	\$2,229,983	\$1,753,895	1.8
Value Added	Commonfund NR Partners VIII	\$6,000,000	\$5,664,000	\$2,266,861	\$3,872,584	1.1
International Fund of Funds	Adams Street Non-US Developed 2010	\$1,470,000	\$1,225,245	\$673,115	\$1,051,040	1.4
Fund of Funds	Adams Street US Partnership 2010	\$2,440,000	\$2,149,640	\$1,155,554	\$2,167,353	1.5
International Fund of Funds	Adams Street Non-US Emerging 2010	\$490,000	\$425,320	\$86,107	\$540,818	1.5
Secondary Fund of Funds	Landmark Equity Partners XIV	\$4,400,000	\$4,234,440	\$4,128,262	\$1,442,123	1.3
Opportunistic	MREP Global III	\$5,000,000	\$4,501,582	\$3,992,554	\$2,180,133	1.4
International Fund of Funds	Adams Street Non-US Developed 2012	\$4,240,000	\$2,804,760	\$903,355	\$2,906,514	1.4
International Fund of Funds	Adams Street Non-US Emerging 2012	\$1,410,000	\$1,027,890	\$85,805	\$1,311,595	1.4
Fund of Funds	Adams Street US Partnership 2012	\$7,050,000	\$5,308,650	\$777,657	\$5,810,808	1.2
Opportunistic	Commonfund NR Partners IX	\$11,000,000	\$8,305,001	\$611,418	\$9,691,689	1.2
Value Added	MREP Global VI	\$9,000,000	\$7,687,825	\$4,097,162	\$5,580,523	1.3
International Fund of Funds	Adams Street Non-US Developed 2013	\$2,800,000	\$1,716,400	\$417,432	\$1,770,058	1.3
International Fund of Funds	Adams Street Non-US Emerging 2013	\$1,700,000	\$1,216,350	\$68,797	\$1,514,425	1.3
Fund of Funds	Adams Street US Partnership 2013	\$5,500,000	\$3,621,750	\$308,112	\$4,052,414	1.2
Secondary Fund of Funds	Landmark Equity Partners XV	\$5,000,000	\$2,778,519	\$1,534,115	\$1,907,277	1.2
Global Fund of Funds	Neuberger Berman Crossroads Fund XX	\$12,500,000	\$8,000,000	\$0	\$10,165,107	1.3
Value Added	Aberdeen Energy & Resources Partners III	\$9,000,000	\$7,020,000	\$1,676,011	\$7,174,508	1.3
Secondary Fund of Funds	Landmark Real Estate Fund VII	\$9,000,000	\$7,719,313	\$2,957,616	\$6,394,113	1.2
Separate Account	Neuberger Berman IPU Feeder	\$93,000,000	\$25,396,029	\$0	\$28,834,211	1.1
Total Private Markets		\$201,600,000	\$109,998,514	\$35,888,745	\$103,469,585	1.3

¹ Calculated as the sum of the distributions and ending value divided by the amount of all capital calls.

University of Iowa Endowment – Private Markets

Annualized Performance

Asset Class	Fund Company	Vintage Yr.	Perf. as of:	Net IRR	Rank as of:	Preqin Rank
Global Fund of Funds	Neuberger Berman Crossroads Fund XVIII	2006	12/31/2017	6.7%	9/30/2017	2nd
Fund of Funds	Commonfund Capital Venture Partners VIII	2007	12/31/2017	11.7%	9/30/2017	2nd
International Fund of Funds	Commonfund Capital International Partners VI	2007	12/31/2017	9.2%	9/30/2017	3rd
Venture Fund of Funds	Commonfund Private Equity Partners VII	2007	12/31/2017	13.4%	9/30/2017	2nd
Value Added	Commonfund NR Partners VIII	2008	12/31/2017	2.0%	9/30/2017	4th
International Fund of Funds	Adams Street Non-US Developed 2010	2010	12/31/2017	11.1%	9/30/2017	3rd
Fund of Funds	Adams Street US Partnership 2010	2010	12/31/2017	14.1%	9/30/2017	3rd
International Fund of Funds	Adams Street Non-US Emerging 2010	2010	12/31/2017	11.7%	3/31/2017	3rd
Secondary Fund of Funds	Landmark Equity Partners XIV	2010	12/31/2017	10.8%	9/30/2017	4th
Opportunistic	MREP Global III	2010	12/31/2017	9.6%	---	---
International Fund of Funds	Adams Street Non-US Developed 2012	2012	12/31/2017	12.7%	3/31/2017	3rd
International Fund of Funds	Adams Street Non-US Emerging 2012	2012	12/31/2017	12.1%	9/30/2017	3rd
Fund of Funds	Adams Street US Partnership 2012	2012	12/31/2017	8.8%	3/31/2017	3rd
Opportunistic	Commonfund NR Partners IX	2012	12/31/2017	9.3%	9/30/2017	3rd
Value Added	MREP Global VI	2012	12/31/2017	10.0%	---	---
International Fund of Funds	Adams Street Non-US Developed 2013	2013	12/31/2017	11.8%	3/31/2017	3rd
International Fund of Funds	Adams Street Non-US Emerging 2013	2013	12/31/2017	13.8%	3/31/2017	3rd
Fund of Funds	Adams Street US Partnership 2013	2013	12/31/2017	8.4%	3/31/2017	3rd
Secondary Fund of Funds	Landmark Equity Partners XV	2013	12/31/2017	13.1%	12/31/2017	3rd
Global Fund of Funds	Neuberger Berman Crossroads Fund XX	2013	12/31/2017	10.7%	9/30/2017	4th
Value Added	Aberdeen Energy & Resources Partners III	2014	12/31/2017	11.1%	---	---
Secondary Fund of Funds	Landmark Real Estate Fund VII	2014	12/31/2017	18.3%	12/31/2017	2nd
Separate Account	Neuberger Berman IPU Feeder	2015	12/31/2017	11.8%	---	---
Total Private Markets			12/31/2017	9.5%		

Iowa State University Endowment – Private Markets

Since Inception Cash Flows Data as of December 31, 2017

Asset Class	Fund Company	Commitment	Capital Calls	Distributions	Ending Value	¹ Cash Multiple
Global Fund of Funds	Neuberger Berman Crossroads Fund XVIII	\$3,750,000	\$3,112,500	\$3,717,681	\$1,143,347	1.6
Fund of Funds	Commonfund Capital Venture Partners VIII	\$600,000	\$570,000	\$471,068	\$602,265	1.9
International Fund of Funds	Commonfund Capital International Partners VI	\$800,000	\$726,000	\$790,284	\$343,515	1.6
Venture Fund of Funds	Commonfund Private Equity Partners VII	\$1,600,000	\$1,451,200	\$1,486,657	\$1,169,258	1.8
Value Added	Commonfund NR Partners VIII	\$4,000,000	\$3,776,000	\$1,511,240	\$2,581,724	1.1
International Fund of Funds	Adams Street Non-US Developed 2010	\$869,000	\$724,315	\$397,918	\$621,330	1.4
Fund of Funds	Adams Street US Partnership 2010	\$1,442,000	\$1,270,402	\$682,914	\$1,280,871	1.5
International Fund of Funds	Adams Street Non-US Emerging 2010	\$289,000	\$250,852	\$50,786	\$318,972	1.5
Secondary Fund of Funds	Landmark Equity Partners XIV	\$2,600,000	\$2,502,175	\$2,439,456	\$852,155	1.3
Opportunistic	MREP Global III	\$3,000,000	\$2,700,949	\$2,395,532	\$1,308,080	1.4
International Fund of Funds	Adams Street Non-US Developed 2012	\$1,870,000	\$1,237,005	\$398,413	\$1,281,883	1.4
International Fund of Funds	Adams Street Non-US Emerging 2012	\$630,000	\$459,270	\$38,338	\$586,032	1.4
Fund of Funds	Adams Street US Partnership 2012	\$3,100,000	\$2,334,300	\$341,948	\$2,555,108	1.2
Opportunistic	Commonfund NR Partners IX	\$4,000,000	\$3,020,000	\$222,334	\$3,524,254	1.2
Value Added	MREP Global VI	\$4,000,000	\$3,416,811	\$1,820,961	\$2,480,232	1.3
International Fund of Funds	Adams Street Non-US Developed 2013	\$1,040,000	\$637,520	\$155,046	\$657,448	1.3
International Fund of Funds	Adams Street Non-US Emerging 2013	\$630,000	\$450,765	\$25,496	\$561,229	1.3
Fund of Funds	Adams Street US Partnership 2013	\$2,080,000	\$1,369,680	\$116,522	\$1,532,548	1.2
Secondary Fund of Funds	Landmark Equity Partners XV	\$1,875,000	\$1,041,945	\$575,291	\$715,215	1.2
Global Fund of Funds	Neuberger Berman Crossroads Fund XX	\$1,875,000	\$1,200,000	\$0	\$1,530,174	1.3
Value Added	Aberdeen Energy & Resources Partners III	\$3,000,000	\$2,340,000	\$558,670	\$2,391,503	1.3
Secondary Fund of Funds	Landmark Real Estate Fund VII	\$3,000,000	\$2,573,104	\$985,872	\$2,131,367	1.2
Separate Account	Neuberger Berman IPU Feeder	\$38,000,000	\$9,463,972	\$0	\$10,659,536	1.1
Total Private Markets		\$84,050,000	\$46,628,765	\$19,182,427	\$40,828,046	1.3

¹ Calculated as the sum of the distributions and ending value divided by the amount of all capital calls.

Iowa State University Endowment – Private Markets

Annualized Performance

Asset Class	Fund Company	Vintage Yr.	Perf. as of:	Net IRR	Rank as of:	Preqin Rank
Global Fund of Funds	Neuberger Berman Crossroads Fund XVIII	2006	12/31/2017	6.7%	9/30/2017	2nd
Fund of Funds	Commonfund Capital Venture Partners VIII	2007	12/31/2017	11.7%	9/30/2017	2nd
International Fund of Funds	Commonfund Capital International Partners VI	2007	12/31/2017	9.2%	9/30/2017	3rd
Venture Fund of Funds	Commonfund Private Equity Partners VII	2007	12/31/2017	13.4%	9/30/2017	2nd
Value Added	Commonfund NR Partners VIII	2008	12/31/2017	2.0%	9/30/2017	4th
International Fund of Funds	Adams Street Non-US Developed 2010	2010	12/31/2017	11.1%	9/30/2017	3rd
Fund of Funds	Adams Street US Partnership 2010	2010	12/31/2017	14.1%	9/30/2017	3rd
International Fund of Funds	Adams Street Non-US Emerging 2010	2010	12/31/2017	11.7%	3/31/2017	3rd
Secondary Fund of Funds	Landmark Equity Partners XIV	2010	12/31/2017	10.4%	9/30/2017	4th
Opportunistic	MREP Global III	2010	12/31/2017	9.6%	---	---
International Fund of Funds	Adams Street Non-US Developed 2012	2012	12/31/2017	12.7%	3/31/2017	3rd
International Fund of Funds	Adams Street Non-US Emerging 2012	2012	12/31/2017	12.1%	9/30/2017	3rd
Fund of Funds	Adams Street US Partnership 2012	2012	12/31/2017	8.8%	3/31/2017	3rd
Opportunistic	Commonfund NR Partners IX	2012	12/31/2017	9.3%	9/30/2017	3rd
Value Added	MREP Global VI	2012	12/31/2017	10.0%	---	---
International Fund of Funds	Adams Street Non-US Developed 2013	2013	12/31/2017	11.8%	3/31/2017	3rd
International Fund of Funds	Adams Street Non-US Emerging 2013	2013	12/31/2017	13.8%	3/31/2017	3rd
Fund of Funds	Adams Street US Partnership 2013	2013	12/31/2017	8.4%	3/31/2017	3rd
Secondary Fund of Funds	Landmark Equity Partners XV	2013	12/31/2017	13.1%	12/31/2017	3rd
Global Fund of Funds	Neuberger Berman Crossroads Fund XX	2013	12/31/2017	10.7%	9/30/2017	4th
Value Added	Aberdeen Energy & Resources Partners III	2014	12/31/2017	12.0%	---	---
Secondary Fund of Funds	Landmark Real Estate Fund VII	2014	12/31/2017	16.6%	12/31/2017	2nd
Separate Account	Neuberger Berman IPU Feeder	2015	12/31/2017	10.7%	---	---
Total Private Markets			12/31/2017	9.1%		

Policy Index Definitions

*The **University of Iowa Operating Portfolio Policy Index** is currently 5% BBgBarc Global Aggregate (Hedged), 25% BBgBarc Aggregate, 20% BBgBarc Intermediate Gov't/Credit, 5% BBgBarc High Yield, 5% Credit Suisse Leveraged Loans, 5% Wilshire 5000, 5% MSCI ACWI ex USA, 5% MSCI ACWI Min Vol Index, 2.5% NFI, 2.5% FTSE Developed Property, 20% 91 Day T-Bill. Prior to October 1, 2017, 25% BBgBarc Aggregate, 5% BBgBarc High Yield, 5% S&P/LSTA Leveraged Loan, 7.5% BBgBarc US TIPS, 5% MSCI US Broad Market, 5% FTSE All World ex US, 7.5% FTSE Developed Property, 40% 91 Day T-Bill. Prior to January 1, 2014, 30% BBgBarc Aggregate, 5% BBgBarc High Yield, 10% BBgBarc US TIPS, 8% MSCI US Broad Market, 2% FTSE All World ex US, 5% MSCI US REIT, 40% 91 Day T-Bill.

*The **Iowa State University Operating Portfolio Policy Index** is currently 5% BBgBarc Global Aggregate (Hedged), 25% BBgBarc Aggregate, 20% BBgBarc Intermediate Gov't/Credit, 5% BBgBarc High Yield, 5% Credit Suisse Leveraged Loans, 5% Wilshire 5000, 5 MSCI ACWI ex USA, 5% MSCI ACWI Min Vol Index, 2.5% NFI, 2.5% FTSE Developed Property, 20% 91 Day T-Bill. Prior to October 1, 2017, 25% BBgBarc Aggregate, 5% BBgBarc High Yield, 5% S&P/LSTA Leveraged Loan, 7.5% BBgBarc US TIPS, 5% MSCI US Broad Market, 5% FTSE All World ex US, 7.5% FTSE Developed Property, 40% 91 Day T-Bill. Prior to January 1, 2014, 30% BBgBarc Aggregate, 5% BBgBarc High Yield, 10% BBgBarc US TIPS, 8% MSCI US Broad Market, 2% FTSE All World ex US, 5% MSCI US REIT, 40% 91 Day T-Bill.

The **University of Iowa Diversified Intermediate Term Portfolio Policy Index** is currently 7% CITI WGBI, 28% BBgBarc Aggregate, 17% BBgBarc Intermediate Gov't/Credit, 5% BBgBarc High Yield, 5% Credit Suisse Leveraged Loans, 10% Wilshire 5000, 10% MSCI ACWI ex US, 5% MSCI ACWI Min Vol Index, 5% NFI, 5% FTSE Developed Property, 3% 91 Day T-Bill. Prior to October 1, 2017, 35% BBgBarc Aggregate, 10% BBgBarc US TIPS, 5% BBgBarc High Yield 2% Capped, 5% S&P/LSTA Leveraged Loan, 10% Wilshire 5000, 10% MSCI ACWI ex US, 10% FTSE Developed Property, 15% 91 Day T-Bill. Prior to January 1, 2014, 40% BBgBarc Aggregate, 10% BBgBarc US TIPS, 5% BBgBarc High Yield 2% Capped, 10% Wilshire 5000, 10% Wilshire REIT, and 15% 91 Day T-Bill. Prior to July 1, 2011, 100% BBgBarc Aggregate. Prior to July 1, 2001, BBgBarc Government Credit.

The **University of Iowa Endowment Policy Index** is currently 5% CITI WGBI, 10% BBgBarc Aggregate, 5% BBgBarc High Yield, 5% Credit Suisse Leveraged Loans, 20% Wilshire 5000, 20% MSCI ACWI ex US, 10% NFI, 25% Cambridge All PE. Prior to October 1, 2017, 15% Merrill Lynch US Corp & Gov 1-3 Years, 5% Merrill Lynch High Yield Master II Constrained, 5% S&P/LSTA Leveraged Loan, 35% Wilshire 5000, 25% MSCI ACWI ex US, 15% CPI+5%. Prior to January 1, 2014, 25% Merrill Lynch US Corp & Gov 1-3 Years, 5% Merrill Lynch High Yield Master II Constrained, 35% Wilshire 5000, 25% MSCI ACWI ex US, 10% CPI+5%. Prior to July 1, 2013, 25% BBgBarc Aggregate, 5% Merrill Lynch High Yield Master II Constrained, 35% Wilshire 5000, 25% MSCI EAFE, 10% CPI+5%. Prior to July 1, 2009, 30% BBgBarc Aggregate, 50% Wilshire 5000, 15% MSCI EAFE, 5% NCREIF. Prior to April 1, 2006, 30% BBgBarc Aggregate, 63% Wilshire 5000, 7% MSCI EAFE. Prior to April 1, 2002, 30% BBgBarc Aggregate, 63% S&P 500, 7% MSCI EAFE. Prior to July 1, 2001, 30% BBgBarc Govt/Credit, 63% S&P 500, 7% MSCI EAFE. Prior to July 1, 1999, 30% BBgBarc Govt/Credit, 60% S&P 500, 10% MSCI EAFE.

*The **Iowa State University Endowment Policy Index** is currently 5% CITI WGBI, 10% BBgBarc Aggregate, 5% BBgBarc High Yield, 5% Credit Suisse Leveraged Loans, 20% Wilshire 5000, 20% MSCI ACWI ex US, 10% NFI, 25% Cambridge All PE. Prior to October 1, 2017, 15% Merrill Lynch US Corp & Gov 1-3 Years, 5% Merrill Lynch High Yield Master II Constrained, 5% S&P/LSTA Leveraged Loan, 35% Wilshire 5000, 25% MSCI ACWI ex US, 15% CPI+5%. Prior to January 1, 2014, 25% Merrill Lynch US Corp & Gov 1-3 Years, 5% Merrill Lynch High Yield Master II Constrained, 35% Wilshire 5000, 25% MSCI ACWI ex US, 10% CPI+5%. Prior to July 1, 2013, 25% BBgBarc Aggregate, 5% Merrill Lynch High Yield Master II Constrained, 35% Wilshire 5000, 25% MSCI EAFE, 10% CPI+5%. Prior to July 1, 2009, 30% BBgBarc Aggregate, 50% Wilshire 5000, 15% MSCI EAFE, 5% NCREIF. Prior to April 1, 2006, 30% BBgBarc Aggregate, 63% Wilshire 5000, 7% MSCI EAFE. Prior to April 1, 2002, 30% BBgBarc Aggregate, 63% S&P 500, 7% MSCI EAFE. Prior to July 1, 2001, 30% BBgBarc Govt/Credit, 63% S&P 500, 7% MSCI EAFE. Prior to July 1, 1999, 30% BBgBarc Govt/Credit, 60% S&P 500, 10% MSCI EAFE.

Purpose:

Guide institutional investment programs

Mission

Enable institutions to become more effective investment stewards

Vision

Leading investment consultant of risk-adjusted returns & client services

Principles

- ✓ Real-world pragmatism
- ✓ Independent expertise
- ✓ Focused client service
- ✓ Careful research

Disclosures

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