Investment Performance Review Period Ending March 31, 2021

Southfield Fire & Police Retirement System



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			Index Re	turns (%)		
<u>Equities</u>	Month	<u>3 M</u>	YTD	1 Year	3 Yr Ann	<u>5 Yr</u> Ann
S&P 500 Total Return	4.38	6.17	6.17	56.35	16.78	16.29
Russell Midcap Index	2.71	8.14	8.14	73.64	14.73	14.67
Russell 2000 Index	1.00	12.70	12.70	94.85	14.76	16.35
Russell 1000 Growth Index	1.72	0.94	0.94	62.74	22.80	21.05
Russell 1000 Value Index	5.88	11.26	11.26	56.09	10.96	11.74
Russell 3000 Index	3.58	6.35	6.35	62.53	17.12	16.64
MSCI EAFE NR	2.30	3.48	3.48	44.57	6.02	8.85
MSCI EM NR	(1.51)	2.29	2.29	58.39	6.48	12.07

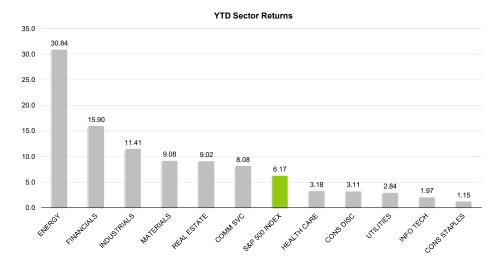
	Russell Ir	ndices Style	Returns				
	V	В	G		V	В	G
- L	11.2	5.9	0.9	L	2.8	20.9	38.4
- M	13.0	8.1	-0.6	М	4.9	17.0	35.5
- - S	21.2	12.7	4.9	s	4.6	19.9	34.5
_ '		YTD		•		2020	

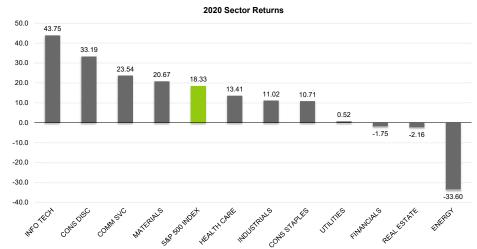
		Index Re	turns (%)		_		
Fixed Income	<u>Month</u>	<u>3 M</u>	YTD	1 Year	Mod. Adj. Duration	Yield to Worst	
U.S. Aggregate	(1.25)	(3.38)	(3.38)	0.71	6.40	1.61	
U.S. Corporate Investment Grade	(1.72)	(4.65)	(4.65)	8.73	8.48	2.28	
U.S. Corporate High Yield	0.15	0.85	0.85	23.72	3.87	4.23	
Global Aggregate	(1.92)	(4.46)	(4.46)	4.67	7.39	1.16	

		Levels	
Currencies	03/31/21	12/31/20	12/31/19
Euro Spot	1.17	1.22	1.12
British Pound Spot	1.38	1.37	1.33
Japanese Yen Spot	110.72	103.25	108.61
Swiss Franc Spot	0.94	0.89	0.97
Swiss Franc Spot	0.94	0.89	0.97

			Levels (%)		
Key Rates	03/31/21	12/31/20	12/31/19	12/31/18	12/31/17
US Generic Govt 3 Mth	0.02	0.06	1.54	2.35	1.38
US Generic Govt 2 Yr	0.16	0.12	1.57	2.49	1.88
US Generic Govt 10 Yr	1.74	0.91	1.92	2.68	2.41
US Generic Govt 30 Yr	2.41	1.64	2.39	3.01	2.74
ICE LIBOR USD 3M	0.19	0.24	1.91	2.81	1.69
Euribor 3 Month ACT/360	(0.54)	(0.55)	(0.38)	(0.31)	(0.33)
Bankrate 30Y Mortgage Rates Na	3.27	2.87	3.86	4.51	3.85
Prime	3 25	3 25	4 75	5.50	4.50

		Levels	
<u>Commodities</u>	03/31/21	12/31/20	12/31/19
Oil	59.16	48.69	54.70
Gasoline	2.88	2.25	2.59
Natural Gas	2.61	2.56	2.26
Gold	1,715.60	1,902.80	1,187.30
Silver	24.53	26.47	16.50
Copper	399.55	352.40	283.50
Corn	564.25	483.25	415.50
BBG Commodity TR Idx	178.16	166.63	172.00







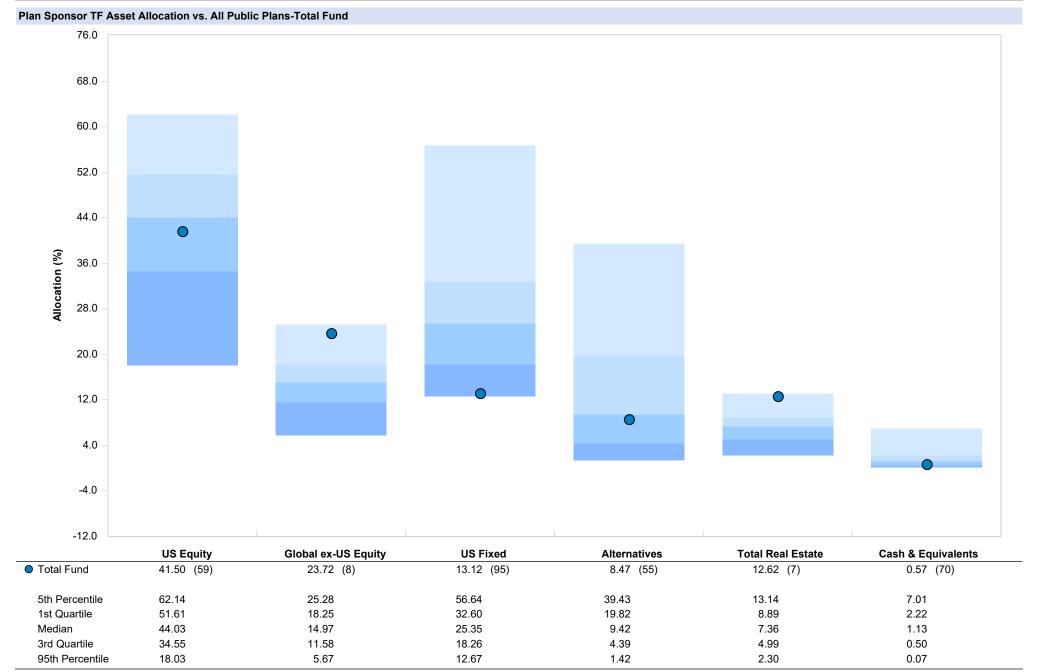
As of March 31, 2021

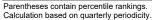
The positive trend for US stocks remained intact during the first quarter. The rotation in leadership that started during the 4th quarter continued into the 1st quarter with small cap and value stocks leading the way. The Russell 2000 Index (proxy for small companies) rose by 12.7% and the Russell 1000 Value increased by 11.3% during the quarter compared to 6.2% for the S&P 500. International equities also gained during the quarter, but their returns were not as strong (MSCI ACWI ex US +3.5%). The primary driver of stock prices has been the re-opening of the global economy and additional fiscal and monetary stimulus. This quarter end marks, almost to the day, the one-year anniversary of the rally in the equity markets – US equity indices have appreciated by over 50% or more in the past year.

While the momentum in stocks was decidedly positive during the quarter, that was not the case in fixed income. The yield on the US 10-Year Treasury bond increased 83 basis points during the quarter as investors anticipated rising inflation rates in the near future. Core fixed income suffered losses in all three months to start 2021; the BB US Aggregate declined 3.4% during the quarter. The lone bright spot in the bond market was high yield, benefiting from their stronger relationship to the equity markets than interest rates.

- 1. Total Fund return of +3.64% outpaced the Policy Index return of +3.07%. The primary drivers of performance were Reinhart Small Mid, ABS, Loomis, and PRISA III.
- 2. Within the Large Cap allocation, the allocation was driven by a strong return for Value, with the S&P 500 Value rising +10.90%.
- 3. Within the small cap allocation, Reinhart outperformed due to strong stock selection and a value bias. Champlain underperformed for the quarter due to an underweight in Energy.
- 4. Within International Equity, 1607 nearly matched their benchmark, rising +3.28% vs. +3.60%. Returns were impacted by their emerging markets exposure. JPM Emerging Markets lagged due to poor stock selection in Consumer Discretionary. ABS Emerging outperformed due to strong stock selection from many of their underlying managers.
- 5. Loomis Sayles outperformed their benchmark again for the quarter as investment grade corporate bonds rallied back from last quarter's losses.
- 6. Within the hedge fund allocation, Nantucket lagged for the quarter, driven by their heavier allocation to sectors like Tech and Healthcare. KStone Partners rose as credit markets recovered.
- 7. PRISA I, II and III were all in line or ahead of their benchmark for the quarter.
- 8. JCR III remains approximately 87% called. JCR IV remains just over 70% called. Both funds are expected to fully call their unfunded commitments over the balance of 2021. Performance is inline with expectations for both funds.
- 9. Landmark Fund VII had continued activity during the quarter and is approximately 33% called. IRR since inception is 8.81%.
- 10. As of 3/31/2020, the Total Fund was in compliance with Public Act 314. The equity allocation was over the IPS maximum due to the underweight to hedge funds.





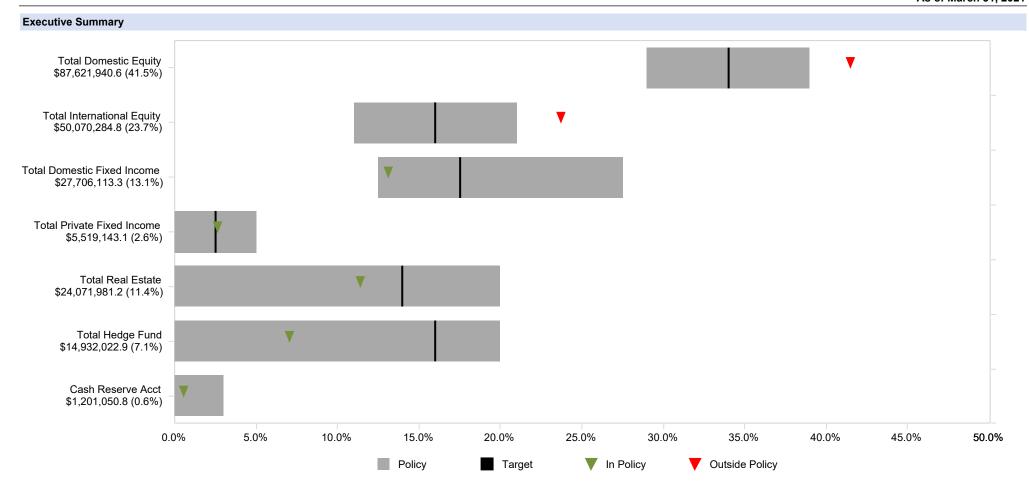




Comparative Performance Trailing Returns Southfield Fire & Police Retirement System As of March 31, 2021

Comparative Perform	ince							
Q	R YTD	1 YR	3 YR	5 YR	7 YR	10 YR	Inception	Inception Date
Total Fund 3.6406	3.6406	38.2537	9.0888	9.7032	7.6913	7.5417	7.8120	01/01/1989

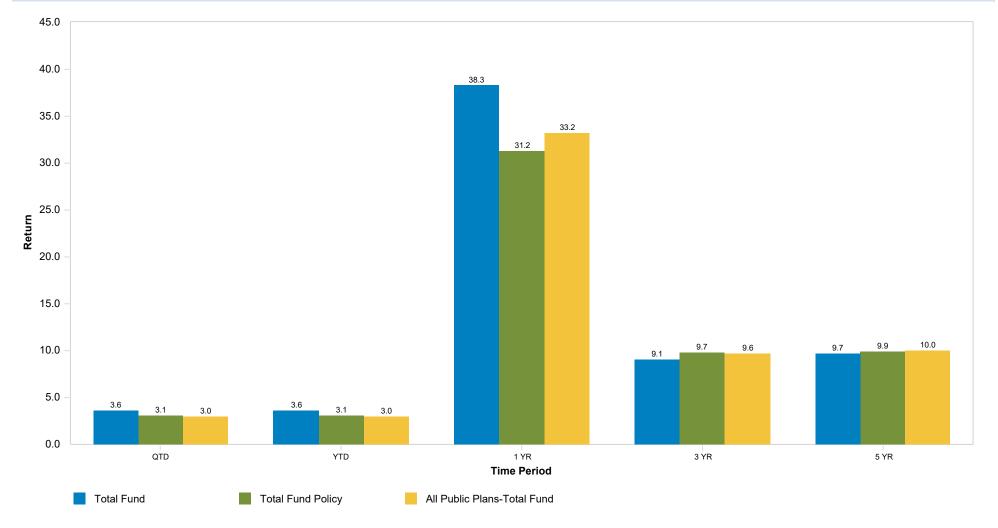




Asset Allocation Compliance								
	Asset Allocation \$	Current Allocation (%)	Minimum Allocation (%)	Target Allocation (%)	Maximum Allocation (%)	Min. Rebal. (\$000)	Target Rebal. (\$000)	Max. Rebal. (\$000)
Total Fund	211,122,537	100.0	N/A	100.0	N/A	-	-	-
Total Domestic Equity	87,621,941	41.5	29.0	34.0	39.0	-26,396,405	-15,840,278	-5,284,151
Total International Equity	50,070,285	23.7	11.0	16.0	21.0	-26,846,806	-16,290,679	-5,734,552
Total Domestic Fixed Income	27,706,113	13.1	12.5	17.5	27.5	-1,315,796	9,240,331	30,352,584
Total Private Fixed Income	5,519,143	2.6	0.0	2.5	5.0	-5,519,143	-241,080	5,036,984
Total Real Estate	24,071,981	11.4	0.0	14.0	20.0	-24,071,981	5,485,174	18,152,526
Total Hedge Fund	14,932,023	7.1	0.0	16.0	20.0	-14,932,023	18,847,583	27,292,484
Cash Reserve Acct	1,201,051	0.6	0.0	0.0	3.0	-1,201,051	-1,201,051	5,132,625



	QTD	YTD	1 YR	3 YR	5 YR
otal Fund	4.2				VIII
Beginning Market Value	207,419,892	207,419,892	164,050,282	202,747,865	187,636,172
Net Contributions	-3,432,866	-3,432,866	-12,428,751	-38,381,217	-60,057,189
Gain/Loss	7,135,510	7,135,510	59,501,006	46,755,889	83,543,553
Ending Market Value	211,122,537	211,122,537	211,122,537	211,122,537	211,122,537





	Domestic	Equity	Internationa	I Equity	Emerging	Equity	Domestic Fixe	d Income	Real Es	tate	Hedge F	und	Private E	quity	Cash Equ	ivalent	Total Fu	und
	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%
Total Fund	84,806,828	40.17	43,391,537	20.55	4,368,645	2.07	27,706,113	13.12	28,410,050	13.46	14,932,023	7.07	1,200,000	0.57	6,307,340	2.99	211,122,537	100.00
Total Domestic Equity	84,806,828	96.79	-	-	-	-	-	-	-	-	-	-	-	-	2,815,113	3.21	87,621,941	41.50
LSIA Dividend Aristocrats	18,518,043	99.00	-	_	_	-	-	_	_	_	-	_	-	-	187,649	1.00	18,705,692	8.8
LSIA S&P 500 Growth	16,799,866	99.64	-	-	-	-	-	-	-	-	-	-	-	-	60,277	0.36	16,860,143	7.9
LSIA S&P 500 Value	19,429,060	99.59	-	-	-	-	-	-	-	-	-	-	-	-	79,239	0.41	19,508,299	9.2
Reinhart Sm/Mid Cap PMV	10,641,545	84.62	-	-	-	-	-	-	-	-	-	-	-	-	1,933,667	15.38	12,575,213	5.9
Champlain SC	10,464,152	94.97	-	-	-	-	-	-	_	-	-	-	-	-	554,281	5.03	11,018,433	5.2
Fidelity Extended Mkt Index (FSMAX)	8,954,161	100.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,954,161	4.24
Total International Equity	-	-	43,391,537	86.66	4,368,645	8.73	-	-	-	-	-	-	-	-	2,310,102	4.61	50,070,285	23.72
1607 Capital Partners	_	_	39,284,921	94.45	_	_	_	_	_	_	_	_	_	_	2,310,102	5.55	41,595,023	19.70
JPMorgan Emerging Markets (JEMWX)	_	_	4,106,617	100.00	_	_	_	_	_	_	_	_	_	_		-	4,106,617	1.9
ABS EM Strategic	-	-	-	-	4,368,645	100.00	-	-	-	-	-	-	-	-	-	-	4,368,645	2.0
Total Domestic Fixed Income	-	-	-	-	-	-	27,706,113	100.00	-	-	-	-	-	-	-	-	27,706,113	13.12
Loomis Sayles Intermediate Duration	_	_	_	_	_	_	27,706,113	100.00	_	_	_	_	-	_	_	_	27,706,113	13.12
Bloomfield Capital Income Fund V	_	_	_	_	_	-	-	-	4,319,143	100.00	-	_	_	_	_	_	4,319,143	2.0
Marathon Distressed Credit Fund LP	-	-	-	-	-	-	-	-	-	-	-	-	1,200,000	100.00	-	-	1,200,000	0.5
Total Real Estate	-	-	-	-	-	-	-	-	24,090,907	100.08	-	-	-	-	-18,926	-0.08	24,071,981	11.40
PRISA I									4,330,528	100.00							4,330,528	2.0
PRISA II	-	_	-	-	-	-	-	-	5,297,857	100.00	-	-	-	-	-	-	5,297,857	2.5
PRISA III	_		_		_	-	-	-	6,032,083	100.00	_		_	_	-18,926	-0.31	6,013,157	2.8
JCR Capital Fund 3 B			_			_		_	4,143,520	100.00		_	_	_	-10,320	-0.51	4,143,520	1.9
JCR Income Plus IV			_			_			2.547.323	100.00		_	_	_	_	_	2.547.323	1.2
Landmark Real Estate Partners VIII, L.P.	-	-	-	-	-	-	-	-	1,739,597	100.00	-	-	-	-	-	-	1,739,597	0.82
Total Hadaa Food											44,000,000	400.00					44 000 000	7.0
Total Hedge Fund	-	-	-	=	-	-	-	-	-	-	14,932,023	100.00	-	-	-	-	14,932,023	7.07
Nantucket Institutional	-	-	-	-	-	-	-	-	-	-	12,476,946	100.00	-	-	-	-	12,476,946	5.9
KStone Partners	-	-	-	-	-	-	-	-	-	-	2,455,077	100.00	-	-	-	-	2,455,077	1.16
Cash Reserve Acct	-	-	-	-	-	-	-	-	-	-		-		-	1,201,051	100.00	1.201.051	0.57



Comparative Performance																	
	Q	ΓR	YT	ΓD	1 \	ΥR	3 \	/R	5 \	r	7 Y	/R	10	YR	Ince	ption	Inception Date
Total Fund	3.64	(28)	3.64	(28)	38.25	(32)	9.09	(73)	9.70	(65)	7.69	(62)	7.54	(76)	7.81	(100)	01/01/1989
Total Fund Policy	3.07	(53)	3.07	(53)	31.24	(78)	9.75	(61)	9.92	(60)	8.10	(47)	8.20	(48)	8.63	(46)	
All Public Plans-Total Fund Median	3.13		3.13		35.80		10.29		10.26		8.03		8.09		8.56		
Population	467		467		465		442		426		402		364		12		
Total Fund (Net of Fees)	3.53		3.53		37.64		8.60		9.19		7.07		N/A		7.09		01/01/2014
Total Domestic Equity	8.05	(55)	8.05	(55)	59.75	(72)	11.24	(77)	12.42	(80)	N/A		N/A		12.59	(76)	01/01/2016
Russell 3000 Index	6.35	(65)	6.35	(65)	62.53	(65)	17.12	(39)	16.64	(43)	13.44	(38)	13.79	(42)	16.00	(41)	
IM U.S. Equity (SA+CF) Median	9.04		9.04		69.99		15.41		15.86		12.26		13.15		15.24		
Population	1,804		1,804		1,799		1,766		1,703		1,623		1,491		1,697		
Total International Equity	2.31	(69)	2.31	(69)	63.43	(33)	9.88	(29)	13.06	(31)	N/A		N/A		12.90	(28)	01/01/2016
MSCI AC World ex USA (Net)	3.49	(56)	3.49	(56)	49.41	(74)	6.51	(57)	9.76	(67)	5.26	(75)	4.93	(83)	9.19	(66)	
IM International Equity (SA+CF) Median	3.90		3.90		57.51		7.06		11.07		6.96		6.89		10.50		
Population	852		852		847		813		775		694		572		769		
Total Fixed Income	-1.33	(24)	-1.33	(24)	6.30	(15)	5.56	(8)	4.29	(8)	N/A		N/A		4.55	(6)	01/01/2016
Bloomberg Barclays Intermed Aggregate Index	-1.61	(48)	-1.61	(48)	1.38	(96)	4.17	(83)	2.66	(90)	2.82	(82)	2.88	(84)	2.98	(88)	
IM U.S. Intermediate Duration (SA+CF) Median	-1.62		-1.62		3.57		4.62		3.16		3.09		3.27		3.43		
Population	144		144		143		143		142		138		132		142		
Total Real Estate	1.66	(76)	1.66	(76)	6.36	(15)	7.72	(7)	8.83	(19)	N/A		N/A		8.80	(17)	01/01/2016
NCREIF Fund Index-ODCE (VW)	2.09	(44)	2.09	(44)	2.30	(61)	4.88	(69)	6.19	(68)	8.25	(63)	9.67	(70)	6.33	(72)	
IM U.S. Open End Private Real Estate (SA+CF) Median	1.86		1.86		3.09		5.70		6.80		8.70		10.12		6.88		
Population	19		19		19		19		18		18		17		18		
Total Hedge Fund	-0.88	(90)	-0.88	(90)	31.10	(12)	6.08	(12)	6.58	(7)	N/A		N/A		5.55	(13)	01/01/2016
HFRI FOF: Diversified Index	1.64	(47)	1.64	(47)	21.81	(17)	5.51	(13)	5.37	(10)	3.78	(9)	3.42	(1)	4.53	(21)	
IM Alternative Multi-Strategy (MF) Median	1.48		1.48		13.53		3.63		3.49		2.45		2.70		3.22		
Population	126		126		119		104		87		53		14		87		



	Q	ΓR	ΥT	ΓD	1 \	/R	3 \	/R	5 `	YR	7 \	ΥR	10	YR	Ince	ption	Inception Date
Total Domestic Equity	8.05		8.05		59.75		11.24		12.42		N/A		N/A		12.59		01/01/2016
LSIA Dividend Aristocrats	8.42	(29)	8.42	(29)	53.23	(70)	14.79	(66)	13.48	(78)	12.90	(58)	N/A		14.83	(63)	07/01/2012
S&P 500 Dividend Aristocrats Index TR	8.50	(29)	8.50	(29)	53.72	(68)	14.51	(67)	13.37	(80)	12.72	(61)	14.17	(31)	14.68	(66)	
IM U.S. Large Cap Core Equity (SA+CF) Median	6.63		6.63		56.90		15.74		16.05		13.16		13.73		15.21		
Population	185		185		185		181		178		170		156		158		
LSIA S&P 500 Growth	2.13	(51)	2.13	(51)	N/A		17.87	(66)	08/01/2020								
S&P 500 Growth	2.12	(51)	2.12	(51)	59.43	(59)	20.58	(58)	19.35	(59)	16.49	(50)	16.16	(41)	18.04	(66)	
IM U.S. Large Cap Growth Equity (SA+CF) Median	2.16		2.16		60.35		21.54		20.08		16.42		15.86		19.20		
Population	209		209		209		208		198		193		184		209		
LSIA S&P 500 Value	10.91	(60)	10.91	(60)	N/A		28.33	(66)	08/01/2020								
S&P 500 Value	10.77	(62)	10.77	(62)	50.37	(82)	11.83	(52)	12.31	(62)	9.96	(54)	11.15	(67)	28.21	(67)	
IM U.S. Large Cap Value Equity (SA+CF) Median	11.53		11.53		61.04		11.87		12.98		10.40		11.84		32.08		
Population	250		250		250		247		244		237		213		250		
Reinhart Sm/Mid Cap PMV	14.67	(30)	14.67	(30)	81.94	(56)	N/A		N/A		N/A		N/A		18.68	(81)	11/01/2019
Russell 2500 Index	10.93	(54)	10.93	(54)	89.40	(38)	15.34	(42)	15.93	(42)	11.46	(49)	12.20	(55)	27.93	(47)	
IM U.S. SMID Cap Equity (SA+CF) Median	11.73	, ,	11.73	, ,	83.65	,	14.18	, ,	15.00	, ,	11.33	, ,	12.33	, ,	26.05	, ,	
Population	171		171		170		162		149		138		118		170		
Champlain SC	5.24	(97)	5.24	(97)	74.87	(82)	N/A		N/A		N/A		N/A		25.17	(46)	01/01/2020
Russell 2000 Index	12.70	(55)	12.70	(55)	94.85	(39)	14.76	(49)	16.35	(41)	11.05	(68)	11.68	(82)	27.28	(32)	
IM U.S. Small Cap Core Equity (SA+CF) Median	12.92		12.92		91.42		14.70		15.85		11.76		12.52		24.87		
Population	89		89		89		89		86		83		78		89		
Fidelity Extended Mkt Index (FSMAX)	7.75	(79)	7.75	(79)	N/A		15.54	(57)	12/01/2020								
S&P Completion Index	7.75	(79)	7.75	(79)	97.84	(6)	18.06	(4)	17.89	(5)	12.50	(7)	13.04	(2)	15.55	(57)	
IM U.S. Mid Cap Core Equity (MF) Median	10.41		10.41		70.62		11.98		12.24		9.07		10.23		16.02		
Population	311		311		306		289		239		201		162		311		
Fetal International Equitor	2.31		2.31		62.42		0.00		12.06		N/A		N/A		12.90		01/01/2016
Total International Equity	2.31		2.31		63.43		9.88		13.06		N/A		N/A		12.90		01/01/2016
1607 Capital Partners	3.28	(60)	3.28	(60)	63.80	(32)	9.87	(29)	13.42	(28)	8.19	(34)	7.67	(39)	7.72	(28)	07/01/2006
MSCI AC World ex USA	3.60	(54)	3.60	(54)	50.03	(72)	7.02	(51)	10.28	(61)	5.75	(68)	5.41	(77)	5.03	(80)	
IM International Equity (SA+CF) Median	3.90		3.90		57.51		7.06		11.07		6.96		6.89		6.51		
Population	852		852		847		813		775		694		572		407		
JPMorgan Emerging Markets (JEMWX)	-2.25	(98)	-2.25	(98)	N/A		5.98	(89)	12/01/2020								
MSCI Emerging Markets (Net) Index	2.29	(57)	2.29	(57)	58.39	(66)	6.48	(47)	12.07	(45)	6.58	(47)	3.65	(53)	9.80	(59)	
IM Emerging Markets Equity (MF) Median	2.86		2.86		63.01		6.19		11.71		6.39		3.73		10.37		
Population	821		821		800		696		601		467		294		816		



Returns for periods greater than one year are annualized. Returns are expressed as percentages.

outhfield Fire & Police	Retirement System	
	As of March 31, 2021	

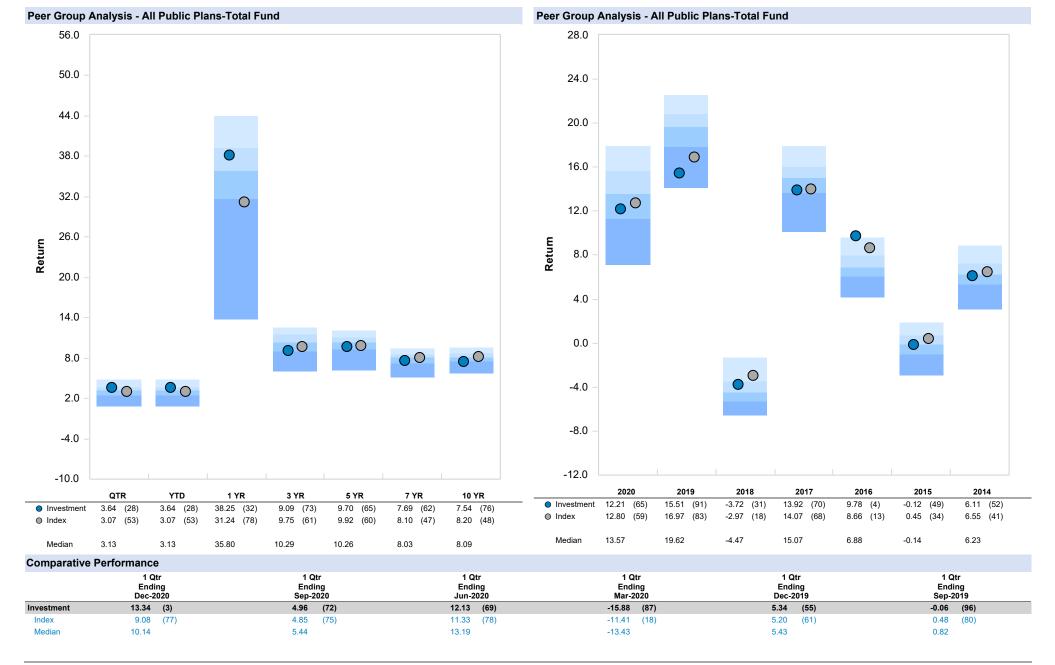
	Q	ΓR	ΥT	ΓD	1 \	/R	3 \	/R	5 `	ΥR	7 \	ΥR	10	YR	Ince	otion	Inception Date
ABS EM Strategic	4.84	(38)	4.84	(38)	N/A		12.74	(41)	12/01/2020								
MSCI Emerging Markets IMI (Net)	2.86	(60)	2.86	(60)	61.09	(62)	6.33	(56)	11.75	(62)	6.44	(69)	3.61	(85)	10.46	(63)	
IM Emerging Markets Equity (SA+CF) Median	3.46		3.46		63.73		6.79		12.70		7.24		5.23		11.53		
Population	239		239		237		223		215		187		135		238		
Total Domestic Fixed Income	-1.55		-1.55		5.86		5.41		4.20		N/A		N/A		4.47		01/01/2016
Loomis Sayles Intermediate Duration	-1.55	(43)	-1.55	(43)	6.36	(15)	5.56	(8)	N/A		N/A		N/A		3.69	(12)	08/01/2016
Bloomberg Barclays Intermediate US Govt/Credit Idx	-1.86	(75)	-1.86	(75)	2.01	(86)	4.36	(77)	2.75	(86)	2.77	(86)	2.88	(84)	2.54	(89)	
IM U.S. Intermediate Duration (SA+CF) Median	-1.62	, ,	-1.62	, ,	3.57	,	4.62	,	3.16	, ,	3.09	, ,	3.27	, ,	2.92	, ,	
Population	144		144		143		143		142		138		132		142		
PRISA Real Estate Composite	2.56		2.56		5.44		7.47		8.43		10.56		11.57		8.17		07/01/1993
PRISA I	2.12	(40)	2.12	(40)	3.00	(56)	5.74	(49)	6.74	(53)	8.82	(47)	10.14	(50)	6.51	(57)	01/01/2006
NCREIF Fund Index-ODCE (VW)	2.09	(44)	2.09	(44)	2.30	(61)	4.88	(69)	6.19	(68)	8.25	(63)	9.67	(70)	6.46	(59)	
IM U.S. Open End Private Real Estate (SA+CF) Median	1.86		1.86		3.09		5.70		6.80		8.70		10.12		6.65		
Population	19		19		19		19		18		18		17		11		
PRISA II	2.07	(45)	2.07	(45)	1.73	(71)	5.55	(57)	7.20	(36)	9.48	(30)	11.37	(32)	6.20	(79)	01/01/2006
NCREIF Fund Index-ODCE (VW)	2.09	(44)	2.09	(44)	2.30	(61)	4.88	(69)	6.19	(68)	8.25	(63)	9.67	(70)	6.46	(59)	
IM U.S. Open End Private Real Estate (SA+CF) Median	1.86		1.86		3.09		5.70		6.80		8.70		10.12		6.65		
Population	19		19		19		19		18		18		17		11		
PRISA III	3.32	(12)	3.32	(12)	10.69	(1)	10.76	(1)	11.29	(1)	14.61	(1)	N/A		14.53	(1)	04/01/2013
NCREIF Fund Index-ODCE (VW)	2.09	(44)	2.09	(44)	2.30	(61)	4.88	(69)	6.19	(68)	8.25	(63)	9.67	(70)	8.92	(63)	
IM U.S. Open End Private Real Estate (SA+CF) Median	1.86		1.86		3.09		5.70		6.80		8.70		10.12		9.33		
Population	19		19		19		19		18		18		17		18		



Comparative Performance Trailing Returns Southfield Fire & Police Retirement System As of March 31, 2021

	QT	TR.	Υ٦	D	1 Y	/R	3 \	′R	5 Y	/R	7 \	/R	10	YR	Ince	ption	Inception Date
Total Hedge Fund	-0.88		-0.88		31.10		6.08		6.58		N/A		N/A		5.55		01/01/2016
Nantucket Institutional	-1.74	(98)	-1.74	(98)	35.29	(7)	8.47	(5)	9.39	(3)	7.21	(1)	7.43	(1)	6.08	(N/A)	07/01/2008
HFRI FOF: Diversified Index	1.64	(47)	1.64	(47)	21.81	(17)	5.51	(13)	5.37	(10)	3.78	(9)	3.42	(1)	2.36	(N/A)	
IM Alternative Multi-Strategy (MF) Median	1.48		1.48		13.53		3.63		3.49		2.45		2.70		N/A		
Population	126		126		119		104		87		53		14		N/A		
KStone Partners	2.72	(12)	2.72	(12)	27.31	(10)	3.66	(43)	5.12	(29)	N/A		N/A		4.12	(40)	10/01/2015
90 Day T-Bill +3.5%/Yr	0.89	(27)	0.89	(27)	3.62	(95)	5.05	(14)	4.72	(37)	4.39	(8)	4.14	(2)	4.62	(24)	
IM Alternative Credit Focus (MF) Median	0.09		0.09		14.10		3.38		4.14		2.79		2.73		3.91		
Population	208		208		206		193		173		118		62		157		







Type of Fund: Direct Vintage Year: 2018 Other 1.5% Strategy Type: Management Fee:

Size of Fund: 300,000,000 Preferred Return: 8.5% (Series A only)

11/16/2018 **General Partner:** Bloomfield Capital Partners V, LLC Inception: Final Close:

Investment Strategy:

The investment strategy of each Series of the Fund will have a primary focus on private credit and specialty finance assets (which is expected to include real estate debt and other general debt and debt-related investments) with short to intermediate-term durations and often contractual cash flows. The Managing Member's goal is to preserve invested capital, and generate returns that have a low correlation to traditional public markets (although there can be no assurances that this goal will be realized). The Fund will target middle market opportunities in real estate debt and other general debt and debt-related transactions (including REO properties, and preferred equity, that would include debt-like characteristics). The Fund generally will not invest in traditional leveraged common equity positions in real estate; however, the Fund may acquire REO and similar non-traditional properties and may also take incidental or pledged equity positions in connection with certain loans in order to obtain supplemental collateral to enhance the strength of the primary credit investment, and/or to expedite any requisite foreclosure process with such loan for the benefit of the Fund. The primary focus of private credit and specialty finance assets (including real estate debt and other general debt and debtrelated investments) will be to capitalize on gap, transitional, bridge, special situation and opportunistic financings that are time sensitive, complex, and that the Managing Member believes offer attractive risk-adjusted returns. Each Series of the Fund may also variously co-invest in opportunities originated by other investors where the overall investment opportunity is of the same or similar nature as the Series typically invests.

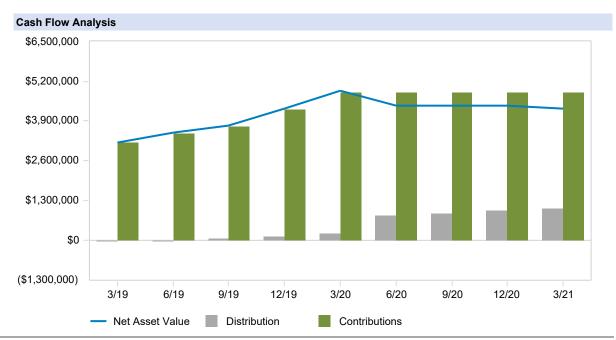
Cash Flow Summary

Capital Committed: \$5,000,000 **Capital Contributed:** \$4,325,167 Management Fees: **Expenses:** Catch Up Interest: **Remaining Capital Commitment:** \$674,833

11/16/2019

Distributions (Income + Return of Capital): \$1.052.600 Market Value: \$4.319.143

Inception Date: 03/25/2019 Inception IRR: 6.63 TVPI: 1.11 DPI: 0.22





As of March 31, 2021

Fund Information

Final Close:

Type of Fund: Direct Vintage Year: 2014

Strategy Type: Value-Add Real Estate Management Fee: 1.50% on Committed Capital plus 20% after 9% Preferred Return

 Size of Fund:
 329,500,000
 Preferred Return:
 9.00%

 Inception:
 06/02/2014
 General Partner:
 JCR Capital

Investment Strategy: In line with the prior JCR funds, Fund III B is credit-focused with a mandate of protecting principal while providing investors with attractive risk adjusted returns, including current yield

and profit participation components. Fund III B's investment strategy is to provide capital to middle market sponsors for value-add, opportunistic and special situations. The fund targets a

variety of asset classes and typically provides high leverage senior debt, mezzanine debt, preferred equity, joint venture equity and programmatic joint venture facilities.

Cash Flow Summary

 Capital Committed:
 \$10,000,000

 Capital Contributed:
 \$8,736,770

 Management Fees:
 \$429,658

 Expenses:
 \$232

 Catch Up Interest:
 \$185,555

 Remaining Capital Commitment:
 \$1,263,230

01/14/2016

Distributions (Income + Return of Capital): \$15,176,420 Market Value: \$4.143.520

 Inception Date:
 06/02/2014

 Inception IRR:
 10.18

 TVPI:
 1.15

 DPI:
 0.90

Cash Flow Analysis \$22.500.000 \$18,000,000 \$13,500,000 \$9,000,000 \$4,500,000 \$0 (\$4,500,000)3/21 6/16 6/18 12/18 6/19 12/19 6/20 6/14 12/14 6/15 12/15 6/17 12/17 12/16 Net Asset Value Distribution Contributions



Type of Fund:PartnershipVintage Year:2017Strategy Type:Value-Add Real EstateManagement Fee:1.50%

Size of Fund: 216,495,000 Preferred Return: 8.00% Incentive Fee 20.00%

Inception: 10/20/2017 General Partner: JCR Capital Investment Company, LLC Final Close: TBD

Investment Strategy: The

The JCR Income Plus Fund IV, L.P. (the "Fund" or "Fund IV") will seek to provide high current returns as well as long-term capital appreciation to its investors by providing short-term, customized capital solutions to middle market commercial real estate operators for value-add, underperforming, undermanaged and opportunistic properties. Fund IV will seek to invest in a diversified portfolio which will primarily consist of high yield debt, participating debt, structured preferred equity and structured equity positions primarily in cash flowing commercial real estate properties in the United States. The Fund will seek to invest in a variety of property types including multifamily, industrial, office, retail and unique middle market special situations. The Fund will generally seek to make investments between \$5 million and \$15 million in large liquid markets in the U.S. with durations ranging from six to 36 months. Fund IV will have a total target capitalization of \$300 million, with over \$14 million being committed by JCR affiliates. To date, Fund IV has \$225 million in total commitments, and has made 8 investments representing \$36 million in investment commitments.

Cash Flow Summary Capital Committed: \$5,000,000 **Capital Contributed:** \$3,550,000 **Management Fees: Expenses:** Catch Up Interest: **Remaining Capital Commitment:** \$1,450,000 Distributions (Income + Return of Capital): \$1.526.693 Market Value: \$2.547.323 **Inception Date:** 05/04/2018 Inception IRR: 11.15 TVPI: 1.15 DPI: 0.43





Type of Fund:PartnershipVintage Year:2016Strategy Type:SecondariesManagement Fee:1.00%Size of Fund:3,333,000,000Preferred Return:8.00%

Inception: 12/15/2016
Final Close: March 2018

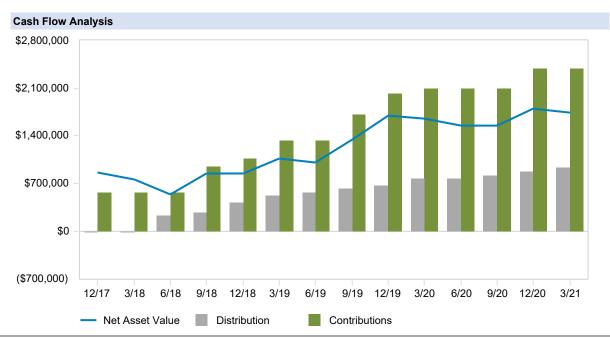
Investment Strategy: Landmark Real Estate Partners VIII, L.P., a Delaware limited partnership (the "Partnership" or the "Fund"), is being established to provide investors access to a diversified private equity

portfolio of real estate related investments, primarily through secondary market transactions. The Fund expects to make secondary investments principally in various types of real estate and

General Partner:

real estate related entities, such as commingled real estate funds, limited partnerships, joint ventures, real estate operating companies and non-traded RÉIT vehicles.

Cash Flow Summary Capital Committed: \$5,000,000 **Capital Contributed:** \$1,632,363 Management Fees: **Expenses:** Catch Up Interest: \$11,138 **Remaining Capital Commitment:** \$3,367,637 Distributions (Income + Return of Capital): \$938.299 Market Value: \$1.739.597 Inception Date: 12/21/2017 Inception IRR: 8.81 TVPI: 1.12 DPI: 0.39



Landmark Real Estate Fund-GP VIII, L.P.



Cash Flow Summary

Type of Fund: Fund Of Funds

Vintage Year: Strategy Type: Distressed

Management Fee: 1.75% for Subscription Size <\$10 million; 1.50% for Subscription Size >\$10

million to <\$25 million; 1.25% for Subscription Size >\$25 million to <\$100 million;

1.00% for Subscription Size >\$100 million

2019

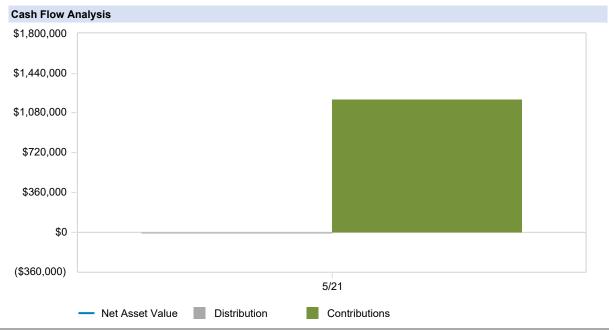
Size of Fund: 2,000,000,000 Preferred Return: Incentive Fee 20% with 8% hurdle

12/03/2019 **General Partner:** Inception: Marathon Asset Management, LP Final Close: Expected December 2020

Investment Strategy: Marathon will look to construct a portfolio of distressed, dislocated, and restructuring corporate credit opportunities in complex situations with attractive risk-adjusted return characteristics.

Core holdings of the Fund will include bankruptcy reorganizations, liquidations, rescue lending, distressed exchanges, debtor-in-possession financings, and dislocated credit.

Cash Flow Sullinary	
Capital Committed:	\$4,250,000
Capital Contributed:	\$1,200,000
Management Fees:	-
Expenses:	-
Catch Up Interest:	\$6,371
Remaining Capital Commitment:	\$3,050,000
Distributions (Income + Return of Capital):	-
Market Value:	\$1,200,000
Inception Date:	01/04/2021
Inception IRR:	-0.78
TVPI:	1.00
	0.00





Total Portfolio Compliance Summary							
	March 31, 2021	Current	IPS Target	IPS Range	Act 314	Compliance	Compliance
	Market Value \$	Allocation %	Allocation %	Allocation %	Limit %	within Ranges	w/314 Limits
Total Portfolio (excluding Unfunded Commitments)	211,122,536.61	100.0%					
Total Equity (14)	137,692,225.43	65.2%	50.0%	40.0% - 70.0%	70.0%	YES	YES
Domestic Equity (14)	87,621,940.60	41.5%	34.0%	29.0% - 39.0%	70.0%	NO	YES
International Equity (14)	50,070,284.83	23.7%	16.0%	11.0% - 21.0%	70.0%	NO	YES
international Equity (14)	30,070,204.83	23.1 /6	10.0 //	11.0 /6 - 21.0 /6	70.076	NO	123
Total US Fixed Income (17 & 17.1.a.iii)	33,225,256.40	15.7%	20.0%	20.0% - 50.0%	100.0%	NO	YES
US Investment Grade Fixed Income (17)	27,706,113.34	13.1%	20.0%	15.0% - 30.0%	100.0%	NO	YES
US Non-Investment Grade Fixed Income (17.1.a.iii)	5,519,143.06	2.6%	0.0%	0.0% - 5.0%	100.0%	YES	YES
							\
Total Non US Fixed Income (20k)	•	0.0%	0.0%	0.0% - 0.0%	20.0%	YES	YES
Total Real Estate (18 & 19)	24,071,981.18	11.4%	14.0%	0.0% - 20.0%	20.0%	YES	YES
Alternative Investments (20d)	14,932,022.85	7.1%	16.0%	0.0% - 20.0%	20.0%	YES	YES
Short Term/Cash Reserves	1,201,050.75	0.6%	0.0%	0.0% - 3.0%	N/A	YES	YES



Commission Recapture Program

Broker	2002 thru 2013	2014	2015	2016	2017	2018	2019	2020	YTD 21
Bank of New York*	\$116,714	\$2501	\$1,325	\$1,613	\$1,000	\$392	\$837	\$0	\$0
Income to Fund	\$116,714	\$2,501	\$1,325	\$1,613	\$1,000	\$392	\$837	\$0	\$0

NOTE: * (formerly L, J&R) Participants may include: Loomis Sayles, Fiduciary, WHV, and 1607 Capital

*Participants may include: Loomis Sayles, Fiduciary, WHV, and 1607 Capital

Securities Lending Program (Northern Trust)

	2002 thru 2013	2014	2015	2016	2017	2018	2019	2020	YTD 21
Gross Income	\$829,575	\$131,990	\$123,118	\$147,987	\$134,192	\$134,018	\$97,197	\$72,937	\$7,556
Less: Program Fees	\$332,202	\$52,698	\$49,144	\$59,108	\$53,576	\$53,491	\$40,715	\$29,113	\$3,017
Income To Fund	\$497,373	\$79,292	\$73,974	\$88,879	\$80,616	\$80,527	\$56,482	\$43,824	\$4,539



Notes:

As of report run date statements for JCR accounts, Bloomfield accounts, KStone, and Landmark were not released for current quarter.



Total Fund Objectives:

- To earn an annual average return of 7.50% over rolling 5 year periods.
- To earn an average annual, real return of 3.75% after inflation over rolling five year periods.
- To meet the assumed actuarial rate of return with a high degree of probability.
- To rank in the 50th percentile over twelve month rolling periods and in the 40th percentile over rolling five year periods, among public employee retirement funds.

Manager Objectives:

• To exceed their performance return standard with equal or less risk over all three year periods.

Asset Allocation Policy:

Asset Class	Target	Ranges
U.S. Equities	34%	29 – 39%
Non-U.S. Equities	16%	11 – 21%
Global Fixed Income	20%	15 - 30%
Real Estate	14%	0 - 20%
Alternative Investments	16%	0 - 20%
Cash & Equivalents	0%	0 – 3%

Equity Portfolio Guidelines:

- No more than 5% of the portfolio may be invested in the stock of any one company.
- No more than 10% of the portfolio may be invested in ADRs.

Fixed Income Portfolio Guidelines:

- No more than 5% of the portfolio may be invested with one issuer, except for the U.S. Treasury and Agency securities.
- No more than 15% of the portfolio in below investment grade.
- No more than 30% of total assets in non-U.S. dollar denominated securities. At least 75% of any non-U.S. currency exposure must be hedged. May invest beyond the 30% limit in Yankee and Euro issues.

Other Portfolio Guidelines:

- Managers are expected to be fully invested at all times, however they
 may raise cash if this is deemed appropriate under the circumstances.
- · Leveraging the portfolio is prohibited.
- Derivative contracts only as permitted.
- Additional investment policies and guidelines are contained in the formal Statement of Investment Policies, Procedures and Objectives.
- All investment managers should follow State of Michigan laws governing the investment of public retirement plan assets.



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Total Fund Policy		
Allocation Mandate	Weight (%)	
Jan-2019		
Russell 3000 Index	34.00	
MSCI AC World ex USA (Net)	16.00	
Bloomberg Barclays Intermed Aggregate Index	20.00	
NCREIF Fund Index-ODCE (VW)	14.00	
HFRI FOF: Diversified Index	10.00	
HFRI FOF: Conservative Index	6.00	



	Estimated Annual Fee (%)	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
LSIA S&P 500 Growth	0.09	16,860,143	15,488	0.10 % of First \$10 M 0.08 % of Next \$40 M 0.06 % of Next \$50 M 0.06 % Thereafter
LSIA S&P 500 Value	0.09	19,508,299	17,607	0.10 % of First \$10 M 0.08 % of Next \$40 M 0.06 % of Next \$50 M 0.06 % Thereafter
LSIA Dividend Aristocrats 10% Discount on overall fee.	0.09	18,705,692	16,965	0.10 % of First \$10 M 0.08 % of Next \$40 M 0.08 % Thereafter
Reinhart Sm/Mid Cap PMV	0.85	12,575,213	106,889	0.85 % of First \$25 M 0.65 % Thereafter
Champlain SC	1.00	11,018,433	110,184	1.00 % of Assets
Fidelity Extended Mkt Index (FSMAX)	0.04	8,954,161	3,582	0.04 % of Assets
1607 Capital Partners	0.75	41,595,023	311,963	0.75 % of Assets
JPMorgan Emerging Markets (JEMWX)	0.79	4,106,617	32,442	0.79 % of Assets
ABS EM Strategic	0.75	4,368,645	32,765	0.75 % of Assets
Loomis Sayles Intermediate Duration	0.25	27,706,113	69,265	0.25 % of Assets
Bloomfield Capital Income Fund V	1.50	4,319,143	64,787	1.50 % of Assets
Marathon Distressed Credit Fund LP	1.75	1,200,000	21,000	1.75 % of Assets
PRISA I	0.75	4,330,528	32,479	0.75 % of Assets
PRISA II	0.85	5,297,857	45,032	0.85 % of Assets
PRISA III	1.10	6,013,157	66,145	1.10 % of Assets
JCR Capital Fund 3 B	1.50	4,143,520	62,153	1.50 % of Assets
JCR Income Plus IV	1.50	2,547,323	38,210	1.50 % of Assets
Landmark Real Estate Partners VIII, L.P.	1.00	1,739,597	17,396	1.00 % of Assets
Nantucket Institutional	1.00	12,476,946	124,769	1.00 % of Assets
KStone Partners	0.75	2,455,077	18,413	0.75 % of Assets
Total Fund	0.57	211,122,537	1,207,533	



Active Return

- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.

Alpha

- A measure of the difference between a portfolio's actual performance and its expected return based on its level of risk as determined by beta. It determines the portfolio's non-systemic return, or its historical performance not explained by movements of the market.

Beta

- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.

Consistency

- The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. Higher consistency indicates the manager has contributed more to the product's performance.

Distributed to Paid In (DPI)

- The ratio of money distributed to Limited Partners by the fund, relative to contributions. It is calculated by dividing cumulative distributions by paid in capital. This multiple shows the investor how much money they got back. It is a good measure for evaluating a fund later in its life because there are more distributions to measure against.

Down Market Capture

- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance

Downside Risk

- A measure similar to standard deviation that utilizes only the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. A higher factor is indicative of a riskier product.

Excess Return

- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.

Excess Risk

- A measure of the standard deviation of a portfolio's performance relative to the risk free return.

Information Ratio

- This calculates the value-added contribution of the manager and is derived by dividing the active rate of return of the portfolio by the tracking error. The higher the Information Ratio, the more the manager has added value to the portfolio.

Public Market Equivalent (PME)

- Designs a set of analyses used in the Private Equity Industry to evaluate the performance of a Private Equity Fund against a public benchmark or index.

R-Squared

- The percentage of a portfolio's performance that can be explained by the behavior of the appropriate benchmark. A high R-Squared means the portfolio's performance has historically moved in the same direction as the appropriate benchmark.

Return

- Compounded rate of return for the period.

Sharpe Ratio

- Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is an absolute rate of return per unit of risk. A higher value demonstrates better historical risk-adjusted performance.

Standard Deviation

- A statistical measure of the range of a portfolio's performance. It represents the variability of returns around the average return over a specified time period.

Total Value to Paid In (TVPI)

- The ratio of the current value of remaining investments within a fund, plus the total value of all distributions to date, relative to the total amount of capital paid into the fund to date. It is a good measure of performance before the end of a fund's life

Tracking Error

- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.

Treynor Ratio

- Similar to Sharpe ratio but utilizes beta rather than excess risk as determined by standard deviation. It is calculated by taking the excess rate of return above the risk free rate divided by beta to derive the absolute rate of return per unit of risk. A higher value indicates a product has achieved better historical risk-adjusted performance.

Up Market Capture

- The ratio of average portfolio performance over the designated benchmark during periods of positive returns. A higher value indicates better product performance.



AndCo compiled this report for the sole use of the client for which it was prepared. AndCo is responsible for evaluating the performance results of the Total Fund along with the investment advisors by comparing their performance with indices and other related peer universe data that is deemed appropriate. AndCo uses the results from this evaluation to make observations and recommendations to the client.

AndCo uses time-weighted calculations which are founded on standards recommended by the CFA Institute. The calculations and values shown are based on information that is received from custodians. AndCo analyzes transactions as indicated on the custodian statements and reviews the custodial market values of the portfolio. As a result, this provides AndCo with a reasonable basis that the investment information presented is free from material misstatement. This methodology of evaluating and measuring performance provides AndCo with a practical foundation for our observations and recommendations. Nothing came to our attention that would cause AndCo to believe that the information presented is significantly misstated.

This performance report is based on data obtained by the client's custodian(s), investment fund administrator, or other sources believed to be reliable. While these sources are believed to be reliable, the data providers are responsible for the accuracy and completeness of their statements. Clients are encouraged to compare the records of their custodian(s) to ensure this report fairly and accurately reflects their various asset positions.

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