

Board of Trustees - Monthly Performance Report - September 30, 2021

Returns are provided by Callan LLC, are annualized for periods greater than one year, and are net of fees after 7/1/2020. Also see "Notes and References" belo

Reforms the provided by Cultur LLC, C	are announzed for periods gre	(A)	(B)		(D)	(E)		
C	9/30/2021 Market Value*	(A) 1 Month	3 Months	(C) FYTD	CYTD	(E) 1 Year	(F) 3 Years	(G) 5 Yea
,		T Monin	5 Monins	(3 Months)	(9 Months)	(12 Months)	(36 Months)	(60 Montl
TOTAL FUND •	82,763,267,333	-0.53%	2.69 %	2.69%	15.07%	26.60%	12.28%	11.68
Passive Index Benchmark ¹ •		-3.43%	-0.68%	-0.68%	7.89%	20.36%	10.16%	9.40
•								
Performance Benchmark ² •		-0.89%	2.17%	2.17%	12.94%	23.60%	11.76%	10.83
Total Fund Return Objective ³		0.67%	2.16%	2.16%	8.98%	10.39%	7.81%	7.59
PUBLIC EQUITY	30,345,671,259	-3.42%	-0.55%	-0.55%	14.88%	35.51%	13.55%	13.79
MSCI ACWI IMI		-3.99%	-1.11%	-1.11%	11.42%	28.92%	12.38%	13.06
INTERNATIONAL EQUITY	8,226,687,994	-2.79 %	-2.64 %	-2.64 %	7.66%	27.74%	10.20%	10.37
MSCI ACWI IMI EX-US		-3.18%	-2.56%	-2.56%	6.77%	25.16%	8.34%	9.13
GLOBAL EQUITY	11,594,143,474	-3.46%	-0.35%	-0.35%	15.13%	34.18%	14.31%	14.30
MSCI ACWI IMI		-3.99%	-1.11%	-1.11%	11.42%	28.92%	12.38%	13.06
DOMESTIC EQUITY	10,524,451,908	-3.87%	0.86%	0.86%	20.89 %	44.29 %	15.33%	16.08
RUSSELL 3000 INDEX		-4.49%	-0.10%	-0.10%	14.99%	31.88%	16.00%	16.85
FIXED INCOME	16,374,409,594	-0.90 %	0.09%	0.09%	-0.61 %	2.14%	5.49 %	
FIXED INCOME BENCHMARK ⁴		-0.85%	0.11%	0.11%	-0.59%	1. 62 %	4.77%	
US FIXED INCOME AGGREGAT	TE 4,954,650,978	-0.88%	0.06%	0.06%	-1.39%	-0.21%	5.92%	3.40
BB AGGREGATE	, , ,	-0.87%	0.05%	0.05%	-1.55%	-0.90%	5.36%	2.94
US INVESTMENT GRADE CORF	PO 4,592,444,731	-1.08%	-0.01%	-0.01%	-0.99%	2.41%	8.13%	5.15
BB CORPORATE	. ,	-1.05%	0.00%	0.00%	-1.27%	1.74%	7.45%	4.6
NON US FIXED INCOME	1,380,461,804	-1.13%	-0.10%	-0.10%	-2.24%	-1.51%	3.70%	2.38
BB GLOBAL TREASURY EX-US		-1.09%	0.06%	0.06%	-1.78%	-1.08%	3.81%	2.5
GLOBAL HIGH YIELD	1,708,631,237	-0.07%	0.80%	0.80%	4.35%	10.86%	6.28%	6.0
BB US HIGH YIELD 2% ISSUER (-0.01%	0.89%	0.89%	4.54%	11.27%	6.89%	6.5
EMERGING MARKET DEBT	908,111,354	-2.93 %	-1.95%	-1. 95 %	-3.74%	5.35%	4.75%	3.12
EMD BENCHMARK ⁵		-2.75%	-1.91%	-1.91%	-3.89%	3.51%	4.70%	3.0
TIPS	825,590,427	-0.60%	2.00%	2.00%	3.87%	5.57%	7.41 %	4.37
BB US TIPS		-0.71%	1.75%	1.75%	3.51%	5.19%	7.45%	4.3
FIXED INCOME CASH	825,106,960	0.00%	0.01%	0.01%	0.05%	0.08%	1.47%	
90 DAY T-BILLS		0.01%	0.01%	0.01%	0.04%	0.07%	1.18%	
DOMESTIC STRUCTURED PROD	DU 1,179,034,152	-0.44%	0.07%	0.07%	-0.83%	-0.38%	111070	
BB US SECURITIZED	.,,	-0.39%	0.09%	0.09%	-0.65%	-0.35%		
ABSOLUTE RETURN HFRI TOTAL HFOF UNIVERSE	4,746,677,633	0.78% -0.14%	2.21% -0.29%	2.21% -0.29%	4.70% 9.79%	12.43% 21.77%	6.13% 8.43%	6.21 7.25
	007 577 550	0 5 4 9 /	0.50%	0.500/	(000/	17.000/		
RISK PARITY HFRI RISK PARITY 12% VOL	837,577,558	-3.54% -3.59%	0.58% -0.06%	0.58% -0.06%	6.99% 7.14%	17.99% 19.22%		
TOTAL FUND CASH 90 DAY T-BILLS	2,377,665,745	0.02% 0.01%	0.05% 0.01%	0.05% 0.01%	0.15% 0.04%	0.19% 0.07%		
PRIVATE EQUITY & SPECIAL OPP	S (15,925,151,816	N/A	11.30%	11.30%	47.54%	63.24%	27.85%	26.34
	51 15,725,151,010	N/A	11.52%	11.52%	41.72%	56.87%	23.79%	20.92
CAMBRIDGE PRIVATE EQUITY •	10 511 710 227	NI/A						
	10,511,718,337	N/A	12.45%	12.45%	52.16%	70.64 %	32.37%	28.3
CAMBRIDGE PRIVATE EQUITY		N/A	11.52%	11.52%	41.72%	56.87%	23.79%	20.9
	5,290,044,616	N/A	8.79 %	8.79 %	38.85%	49.99 %	20.40%	22.3
CAMBRIDGE PRIVATE EQUITY		N/A	11.52%	11.52%	41.72%	56.87%	23.79%	20.9
IN-STATE EMERGING MANAG CAMBRIDGE PRIVATE EQUITY		N/A N/A	34.97% 11.52%	34.97% 11.52%	62.17% 41.72%	53.53% 56.87%		
	•	17/4	11.5270	11.5270	41.7 270	30.07 /0		
REAL ESTATE •	5,964,064,202	N/A	4.22%	4.22%	4.76%	5.77%	1.78%	2.8
REAL ESTATE CUSTOM [°] •			4.84%	4.84%	10.66%	11.65%	7.55%	7.3
RE EQUITY INVESTMENTS •	4,507,332,013	N/A	2.30%	2.30%	-0.87%	-0.05%		
NCREIF TOTAL INDEX •	-	N/A	3.59%	3.59%	6.58%	7.37%		
RE DEBT INVESTMENTS •	361,541,591	N/A	3.34%	3.34%	9.34%	11.93%		
NCREIF TOTAL INDEX •	-	N/A	3.59%	3.59%	6.58%	7.37%		
	1,095,190,598	N/A	14.04%	14.04%	35.46%	37.56%	9.60 %	7.1
MSCI US REIT •		N/A	12.00%	12.00%	35.83%	38.05%	10.14%	6.3
	6,192,049,525	N/A	5.66%	5.66%	18.33%	21.9 1%	10.39%	11.6
PRIVATE INCOME			1 200/	4.39%	14.38%	19.52%	7.93%	7.8
PRIVATE INCOME CUSTOM ⁷ •			4.39%	1.0 7 70				
7	2,867,658,876	N/A	4.39% 5.90%	5.90%	23.12%	25.81%	11.61%	13.9
PRIVATE INCOME CUSTOM ⁷ •		N/A N/A			23.12% 12.69%	25.81% 17.86%	11.61% 8.09%	
PRIVATE INCOME CUSTOM ⁷ • INFRASTRUCTURE •		-	5.90 %	5.90%				7.9
PRIVATE INCOME CUSTOM ⁷ • INFRASTRUCTURE • CAMBRIDGE GLOBAL PVT INFR	ASTRUCTURE • 1,624,648,774	N/A	5.90% 3.69%	5.90% 3.69%	12.69%	17.86%	8.09%	7.9 8.5 4
PRIVATE INCOME CUSTOM ⁷ • INFRASTRUCTURE • CAMBRIDGE GLOBAL PVT INFR PRIVATE CREDIT •	ASTRUCTURE • 1,624,648,774	N/A N/A	5.90% 3.69% 6.07%	5.90% 3.69% 6.07%	12.69% 16.64%	17.86% 20.37%	8.09% 8.46%	13.96 7.93 8.5 4 7.58 7.5 4

		0/0001 14	(A)	(B)	(C)	(D)	(E)	(F)	(G)
		0/2021 Market Value*	1 Month	3 Months	FYTD	CYTD	1 Year	3 Years	5 Ye
	BLIC EQUITY CI ACWI IMI	30,345,671,259	-3.42% -3.99%	-0.55% -1.11%	-0.55% -1.11%	14.88% 11.42%	35.51% 28.92%	13.55% 12.38%	13.7 13.0
		8,226,687,994	-3.99%	-1.11% -2.64%	-1.11% -2.64%	7.66%	20.92% 27.74%	12.38%	10.3
	MSCI ACWI IMI EX-US	0,220,007,774	-3.18%	-2.56%	-2.56%	6.77%	25.16%	8.34%	9.1
5	Macquarie Emerging Markets	220,991,099	-1.33%	-9.49%	-9.49%	-2.10%	14.48%	12.51%	13.0
5	JP Morgan Emerging Markets	384,478,233	-4.86%	-6 .11%	-6 .11%	-1.61%	21.46%	14.46%	13.3
,	Mondrian Investment Partners	366,825,296	-4.04%	-10.08%	-10.08%	-4.28%	15.52%	7.83%	7.1
	SSGA MSCI Emerging Markets	145,513,690	-3.88%	-7.98 %	-7.98 %	-1.05%	18.41%	8.81%	9.1
,	William Blair Emerging Markets	355,731,640	-4.00%	-7.93 %	-7.93 %	-3.37%	13.23%	14.81%	12.2
)	MEASA Fund	117,546,721	1.61%	7.70%	7.70%	30.66%	43.07%	12.70%	
	MSCI Emerging Markets Index		-3.97%	-8.09%	-8.09%	-1.25%	18.20%	8.59%	
2	DFA Emerging Markets Value	806,135,418	-1.91%	-2.86%	-2.86 %	13.11%	37.39%	5.94 %	8.4
	MSCI Emerging Markets Value Index		-3.02%	-5.08%	-5.08%	4.43%	28.43%	4.78%	6.
ļ	DFA Emerging Markets Small Cap	256,064,054	-2.52%	-3.44%	-3.44%	13. 9 4%	35.71%	11.56%	9.0
	MSCI Emerging Markets Small Cap Index		-1.99%	-2.16%	-2.16%	17.20%	43.24%	13.11%	9.
b	Trustbridge Emerging Markets	166,177,832	-3.87%	-16.30%	-16.30%	-17.11%	3.29%	8.87%	13.4
,	MSCI China Index ND		-5.02%	-18.17%	-18.17%	-16.67%	-7.33%	5.95%	9.
}	Wells Capital	132,657,159	-2.07%	-11.96%	-11.96%	-8.43%	6.49 %	12.28%	
)	MSCI China All Shares Idx (USD Net Div)		-2.71%	-13.34%	-13.34%	-10.65%	1.30%	11.15%	
)	Mellon MSCI World ex-USA	167,084,224	-2.83%	-0.61%	-0.61%	9.52%	26.65 %	7.75%	8.9
	DFA International Large Cap	612,985,943	-2.02%	-0.59%	-0.59%	11.42%	30.99%	6.84%	8.9
2	MSCI World ex US	(-2.87%	-0.66%	-0.66%	9.19%	26.50%	7.87%	8.8
}	DFA International Small Cap Value	607,867,850	-1.82%	1.25%	1.25%	15.82%	39.81%	5.42%	7.0
l -	MSCI World ex-USA Small Cap Value Ind		-3.06%	0.12%	0.12%	12.46%	35.29% 33.50%	6.48% 8 05%	8.
5	DFA International Small Company	474,763,841	-3.31%	0.76% 0.85%	0.76% 0.85%	13.29%	33.50% 30.53%	8.95% 9.85%	9.9 10.6
	SSGA International Developed Smal	410,495,831	-3.33% -3.38%	0.85% 0.72%	0.85% 0.72%	10.85% 10.71%	30.53% 30.14%	9.85% 9.50%	10. 10.
	MSCI World ex-USA Small Cap Index Acadian Asset Mgmt	432,324,917	-3.38% -3.24 %	0.72% 0.51%	0.72% 0.51%	10.71% 15.81%	30.14% 32.10%	9.50% 6.62%	10. 9. :
5)	Acadian Asset Mgmt MSCI World ex US Value	752,524,71/	-3.24 % -1.61%	-1.07%	-1.07%	11.15%	32.60%	3.45%	9. 6.
,)	LSV International Large Cap	906,298,020	-1.01% -2.04%	-1.07%	-1.07% -1.44%	11.13% 11.82%	32.00% 35.11%	3.45% 4.32%	o. 7.8
)	Schroders International Large Cap	724,188,590	-2.04 % -2.05%	-1.44 % -2.81%	-1.44 <i>%</i> -2.81%	11.12%	31.05%	4.32% 5.68%	7.4
2	MSCI All Country World ex-USA Value Inc		-2.04%	-2.32%	-2.32%	9.11%	31.38%	3.81%	6.
3	Johnston International Large Cap	472,885,688	-2.83%	1.15%	1.15%	5.07%	28.68%	19.61%	17.
1	JP Morgan International Large Cap	465,671,948	-5.31%	0.26%	0.26%	7.08%	21.24%	17.02%	14.0
5	MSCI World ex-USA Growth Index	,	-4.04%	-0.25%	-0.25%	6.99%	20.50%	11.93%	11.
	GLOBAL EQUITY	11,594,143,474	-3.46%	-0.35%	-0.35%	15.13%	34.18%	14.31%	14.3
	MSCI ACWI IMI		-3.99%	-1.11%	-1.11%	11.42%	28.92%	12.38%	13.
	AQR Global Equity	1,359,154,472	-4.36%	-1.79%	-1.79%	9.87 %	23.66%	8.52%	10.9
,	SSGA MSCI World	172,761,541	-4.11%	0.07%	0.07%	13.33%	29.26 %	13.42%	14.0
1	CDAM Global Equity	610,824,506	-3.75%	3.91%	3.91%	20.38%	44.05%	14.16%	
	MSCI World Index		-4.15%	-0.01%	-0.01%	13.04%	28.82%	13.14%	13.
2	SSGA Russell Fundamental Develor	1,399,772,949	-2.19%	-0.85%	-0.85%	16.71%	39.53%	10.27%	11.7
3	Russell Fundamental Dvlpd Lrg Co Index		-2.13%	-0.78%	-0.78%	17.16%	40.18%	10.50%	12.
1	Lazard Asset Management	1,029,060,837	-3.18%	0.12%	0.12%	12.20%	29.49 %	11.41%	11.0
5	McKinley Capital Management	393,728,211	-4.32%	-0.06%	-0.06 %	12.74%	30.71%	18.42%	17.3
b	RBA Global Equity	451,140,344	-3.81%	-1.58%	-1.58%	11.39%	24.01%	12.47%	
,	WCM Global Equity	526,443,255	-4.72%	0.80%	0.80%	9.05%	26.16%	22.75%	
3	MSCI All-Country World Index		-4.13%	-1.05%	-1.05%	11.12%	27.44%	12.58%	13.
>	APF Tactical Tilts	2,234,607,925	-2.60%	-0.66%	-0.66%	18.07%	37.80%	18.71%	16.0
)	SSGA MSCI ACWI IMI	661,339,435	-3.94%	-1.06%	-1.06%	11.56%	29.16%	12.56%	13.5
	APF Global Equities	144,088,522	-0.07%	-1.06%	-1.06%	14.83%	38.87%	10.76%	
2	Arrowstreet Global Equity	1,401,773,626	-3.57%	-0.76%	-0.76%	16.51%	38.67%	15.31%	
	Longview Global Equity	1,209,447,851	-4.44%	1.36%	1.36%	15.99%	34.00%	10.89%	10
	MSCI All-Country World IMI	10 504 451 000	-3.99%	-1.11%	-1.11%	11.42%	28.92%	12.38%	13.
		10,524,451,908	-3.87%	0.86%	0.86%	20.89%	44.29%	15.33%	16.
	RUSSELL 3000 INDEX	1 794 707 000	-4.49%	-0.10%	-0.10%	14.99%	31.88%	16.00%	16. 17 .
	Mellon S&P 500	1,736,707,223	-4.64%	0.52%	0.52%	15.76% 15.92%	29.81% 30.00%	16.39% 1 <i>5</i> .99%	17. 16.
	S&P 500 Index Mellon ETSE PAELUS Large Can	1,059,344,065	-4.65% -3.27%	0.58% -0.77%	0.58% -0.77%	15.92% 21.20%	30.00% 42.32%	13.99% 13.01%	10. 13.9
)	Mellon FTSE RAFI US Large Cap FTSE RAFI US 1000 Index	1,037,344,003	-3.27 % -3.24%	-0.77%	-0.77 % -0.77%	20.77%	42.32% 41.87%	12.88%	13.
,	AGI - Large Cap	718,995,949	-5.24%	-0.77% 1.30%	-0.77% 1.30%	14.56%	31.10%	24.92%	23 .
2	SSGA Large Cap	462,832,717	-5.08 % -6.01 %	-0.64%	-0.64%	14.56%	25.91%	24.92 % 22.40%	23.
- }	DSM - Large Cap	832,935,045	-6.11%	-1.70%	-0.04 %	15.47%	23.74%	22.40 % 22.05%	21.9
, L	CastleArk - Large Cap	205,569,398	-6.19%	-0.01%	-0.01%	15.15%	27.22 %	19.52%	21.
	APF SPDR Yield	563,914,670	-3.41%	-0.96%	-0.96%	24.88%	54.04%	11.39%	12.4
,)	APF SPDR Momentum	269,948,731	-4.19%	-0.36%	-0.36%	16.50%	36.06%	10.48%	12.4
,	APF SPDR Low Vol	466,177,757	-4.64%	-0.29 %	-0.29%	16.18%	34.85%	12.69%	13.
}	Russell 1000 Growth Index		-5.60%	1.16%	1.16%	14.30%	27.32%	22.00%	22.
)	Russell 1000 Index		-4.59%	0.21%	0.21%	15.19%	30.96%	16.43%	17.
)	Lyrical - Large Cap	735,939,838	-3.59%	-1.36%	-1.36%	19.98%	55.33%	12.16%	11.:
	SKBA - Large Cap	328,300,534	-1.95%	-1.17%	-1.17%	15.54%	37.10%	7.69 %	10.9
2	LSV - Large Cap Value	779,480,657	-3.84%	-2.19 %	-2.19 %	19.19%	42.65 %	8.93 %	11.:
	APF Domestic Equity	454,688,471	-1.89%	0.64%	0.64%	27.05%	65.33%		
	Russell 1000 Value Index		-3.48%	-0.78%	-0.78%	16.14%	35.01%	10.07%	10.9
	Mellon S&P 400	18,286,742	-3.96%	-1.75%	-1.75%	15.07%	44.65%	11.13%	12.9
	S&P 400 Index		-3.97%	-1.76%	-1.76%	15.52%	43.68%	11.08%	12.9
	Jennison Associates LLC	358,930,183	-2.37%	1. 59 %	1.59%	18.86%	56.97 %	18.49%	18.0
	Russell 2000 Index		-2.95%	-4.36%	-4.36%	12.41%	47.68%	10.54%	13.
	RBC Asset Mgmt	197,813,905	-3.59%	0.17%	0.17%	15.98%	46.87%	14.33%	16.3
)	Eagle Asset Mgmt	207,236,935	-2.32%	-2.58%	-2.58%	2.46%	28.40%	14.17%	19.:
	Russell 2000 Growth Index		-3.83%	-5.65%	-5.65%	2.82%	33.27%	11.70%	15.
	Russell 2000 Index		-2.95%	-4.36%	-4.36%	12.41%	47.68%	10.54%	13.
	T Devue Dries	354,499,653	-1.98%	0.01%	0.01%	16.36%	49 .11%	9.48%	12.9
	T Rowe Price								
3	Pzena Investment Mgmt	592,336,710	-1.04%	-0.44%	-0.44%	23.23%	71.20 %	8.09 %	11.0
			-1.04% -2.00%	-2.98%	-2.98%	22.92%	71.20% 63.92%	8.09% 8.58%	11.0 11.0
2 3 4 5 7	Pzena Investment Mgmt		-1.04%						

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9/3	0/2021 Market Value*	1 Month	3 Months	FYTD	CYTD	1 Year	3 Years	5 Yec
FIXED INCOME	16,374,409,594	-0.90 %	0.09%	0.09%	-0.6 1%	2.14%	5.49 %	3.85
FIXED INCOME BENCHMARK ⁴		-0.85%	0.11%	0.11%	-0.59%	1.62%	4.77%	3.26
US FIXED INCOME AGGREGATE	4,954,650,978	-0.88%	0.06%	0.06%	-1.39%	-0.21 %	5.92 %	3.40
BB AGGREGATE		-0.87%	0.05%	0.05%	-1.55%	-0.90%	5.36%	2.94
APF Fixed Income - Aggregate	4,954,650,978	-0.88%	0.06%	0.06%	-1.39%	-0.21 %	5.92%	3.40
US INVESTMENT GRADE CORPO	4,592,444,731	-1.08%	-0.01%	-0.01%	-0.99 %	2.41%	8.13%	5.15
BB CORPORATE		-1.05%	0.00%	0.00%	-1.27%	1.74%	7.45%	4.6
APF Corporate Bonds	4,592,444,731	-1.08%	-0.01%	-0.01%	-0.99 %	2.41%	8.13%	5.1
NON US FIXED INCOME	1,380,461,804	-1.13%	-0.10%	-0.10%	-2.24%	-1.51%	3.70%	2.3
BB GLOBAL TREASURY EX-US		-1.09%	0.06%	0.06%	-1.78%	-1.08%	3.81%	2.5
Rogge Global Partners	304,763,088	-1.09%	0.02%	0.02%	-1.93%	-1.15%	3.96 %	2.6
APF Global Government Bonc	1,075,698,716	-1.14%	-0.13%	-0.13%	-2.34%	-1.63%	3.59%	2.3
GLOBAL HIGH YIELD	1,708,631,237	-0.07%	0.80%	0.80%	4.35%	10.86%	6.28%	6.0
BB US HIGH YIELD 2% ISSUER CA		-0.01%	0.89%	0.89%	4.54%	11.27%	6.89%	6.5
Oaktree High Yield	730,130,096	0.15%	0.90%	0.90%	4.45%	11.04%	6.82 %	6.0
APF High Yield	484,464,780	-0.17%	0.76%	0.76%	3.96%	10.05%	5.57%	
Capital Guardian High Yield	494,036,361	-0.29%	0.68%	0.68%	4.44%	11.19%	5.59%	6.2
EMERGING MARKET DEBT	908,111,354	-2.93%	-1.95%	-1.95%	-3.74%	5.35%	4.75%	3.1
EMD BENCHMARK ⁵		-2.75%	-1.91%	-1.91%	-3.89%	3.51%	4.70%	3.0
Ninety One EMD BL	196,689,734	-3.71%	-2.46%	-2.46%	-3.61%	5.02%		0.0
PGIM EMD BL	344,617,684	-2.60 %	-1.64%	-1.64%	-3.68%	5.48%		
EMD Benchmark ⁵		-2.75%	-1.91%	-1.91%	-3.89%	3.51%		
	107 246 007	-2.75%	-1.91%	-1.91%	-3.89%	6.45%		
Payden EMD HC	187,346,897	-2.07%	-0.79%	-0.79%	-0.96%	6.45 % 4.36%		
JPM EMBI Global Diversified	170 452 270		-0.70% -3.16%			4.30% 4.30%		
Colchester EMD LC	179,453,378	-3.43%		-3.16%	-6.75%			
JPM GBI-EM Global Diversified		-3.43%	-3.10%	-3.10%	-6.38%	2.63%	7 41 0/	4.2
	825,590,427	-0.60%	2.00%	2.00%	3.87%	5.57%	7.41%	4.3
BB US TIPS	925 500 402	-0.71% -0.62%	1.75% 2.02%	1.75% 2.02%	3.51% 3.95%	5.19%	7.45%	4.3
	825,590,402	-0.71%	2.02% 1.75%	2.02% 1.75%	3.95 % 3.51%	5.67% 5.19%	7.71% 7.45%	4.5 4.3
BB US TIPS	925 104 040	0.00%	0.01%	0.01%	0.05%	0.08%	1.45%	4.5
	825,106,960	0.00%						
90 DAY T-BILLS	925 104 040	0.01%	0.01% 0.01%	0.01% 0.01 %	0.04% 0.05%	0.07% 0.08%	1.18%	
APF Fixed Income Cash	825,106,960	-0.44%	0.07%	0.07%		-0.38%	1.47%	
	1,179,034,152	-0.39%	0.07%	0.07%	-0.83%	-0.35%		
BB US SECURITIZED	1 170 024 152	-0.39% -0.44%	0.09% 0.07%	0.09% 0.07%	-0.65% -0.83%	-0.35% -0.38%		
APF Dom Struc Prod	1,179,034,152	-0.44 %	0.07 %	0.07 %	-0.83%	-0.38 %		
ABSOLUTE RETURN	4,746,677,633	0.78%	2.21%	2.21%	4.70%	12.43%	6.13%	6.2
HFRI TOTAL HFOF UNIVERSE		-0.14%	-0.29%	-0.29%	9.79%	21.77%	8.43%	7.2
		-0.1-70	-0.2770	-0.2770	/./ //0	21.7770	0.4070	/.2
RISK PARITY	837,577,558	-3.54%	0.58%	0.58%	6.99 %	17.99%		
HFRI RISK PARITY 12% VOL		-3.59%	-0.06%	-0.06%	7.14%	19.22%		
PanAgora	441,892,130	-3.72%	-0.03%	-0.03%	5.99%	17.05%		
Bridgewater All Weather	395,685,428	-3.34%	1.28%	1.28%	8.15 %	18.92%		
TOTAL FUND CASH	2,377,665,745	0.02%	0.05%	0.05%	0.15%	0.19%		
90 DAY T-BILLS		0.01%	0.01%	0.01%	0.04%	0.07%	1.18%	1.1
APF Internal Cash	2,098,562,538	0.01%	0.02%	0.02%	0.06%	0.09%		
APF Operating Cash	279,103,207	0.01%	0.02%	0.02%	0.45%	0.55%	1.16%	1.1

			(A)	(B)	(C)	(D)	(E)	(F)	(G)
	9/30/2	2021 Market Value*	1 Month	3 Months	FYTD	CYTD	1 Year	3 Years	5 Yea
5 PRI V	ATE EQUITY & SPECIAL OPPS	15,925,151,816	N/A	11.30%	11.30%	47.54%	63.24%	27.85%	26.34%
	ABRIDGE PRIVATE EQUITY •	-, -, -, - ,	1	11.52%	11.52%	41.72%	56.87%	23.79%	20.97
		10,511,718,337	N/A	12.45%	12.45%	52.16%	70.64%	32.37%	28.31
	CAMBRIDGE PRIVATE EQUITY		1	11.52%	11.52%	41.72%	56.87%	23.79%	20.97
9	Pathway Capital Mgmt - Direc	4,613,534,022	N/A	14.94%	14.94%	48.70%	65.42%	29.84%	29.49
0	HarbourVest Legacy	1,578,753,778	N/A	4.39%	4.39%	69.76%	92.99%	45.28%	37.19
1	Pathway Capital Mgmt - PE	3,966,534,857	N/A	13.95%	13.95%	49.95%	69.63 %	31.09%	26.42
2	BlackRock Co-investment Fun	284,279,844	N/A	4.87%	4.87%	42.25%	44.89%	23.10%	23.24
2 3	Ara Fund I	46,057,418	N/A	10.06%	10.06%	49.93%	74.47%	23.10 /0	23.27
	Ara Fund II	3,933,609	N/A	10.00 /0	10.00 /0	47.73 /0	/ 4.4/ /0		
4									
5	TPG Growth V	13,684,035							
6 - 6	Arctos Sports I	4,494,798		0.700/	0 700/	20.050/	40.000/	00 400/	00.00
		5,290,044,616	N/A	8.79%	8.79%	38.85%	49.99%	20.40%	22.32
	CAMBRIDGE PRIVATE EQUITY •			11.52%	11.52%	41.72%	56.87%	23.79%	20.97
	N-STATE EMERGING MANAGER	123,388,864	N/A	34.97%	34.97%	62.17%	53.53%		
	CAMBRIDGE PRIVATE EQUITY •			11.52%	11.52%	41.72%	56.87%		
l	Barings AK	32,091,466	N/A	0.00%	0.00%	0.00%	0.00%		
2	McKinley AK	91,297,398	N/A	44.26%	44.26%	85.30%	76.50%		
	L ESTATE •	5,964,064,202	N/A	4.22%	4.22%	4.76%	5.78%	1.78%	2.88
4 REA	L ESTATE CUSTOM [°] •			4.84%	4.84%	10.66%	11.65%	7.55%	7.30
5 R	E EQUITY INVESTMENTS •	4,507,332,013	N/A	2.30%	2.30%	-0.86 %	-0.05%		
5 N	ICREIF TOTAL INDEX •			3.59%	3.59%	6.58%	7.37%		
7	RE EQUITY SEPARATE ACCTS	3,653,220,181	N/A	1.81%	1.81%	-2.50%	-1.81%	-2.26 %	0.41
3	L&B Realty Advisors	1,697,975,971	N/A	1. 97 %	1. 97 %	-5.33%	-5.01%	-2.05%	0.97
9	Sentinel Real Estate	507,636,592	N/A	2.49 %	2.49 %	4.9 1%	8.32%	3.08%	0.87
)	LaSalle - United Kingdom	(94,219,836)	N/A	-20.65 %	-20.65 %	-1084.27%	-1533.59%	-42.92%	-24.78
	Lincoln Industrial	224,464,959	N/A	1 9.03 %	1 9.03 %	38.71%	42.12%	21.13%	19.42
2	CB Richard Ellis - Europe	133,802,740	N/A	2.41%	2.4 1%	-0.89 %	4.28%	-0.54%	6.72
3	CS Capital	438,120,849	N/A	1.56%	1.56%	2.88%	3.42%	1 2.90 %	12.97
1	Heitman Direct	606,498,445	N/A	-1.89%	-1.89%	-1.99%	-1.23%		
5	APF RE Direct	138,940,461	N/A	1.53%	1.53%				
5	RE EQUITY DEVELOPMENT	81,840,737	N/A						
7	Greystar Dev	81,840,737	N/A						
3	RE EQUITY FUNDS & CO-INVI	772,271,095	N/A	5.07%	5.07%	18.42%	22.24%		
2 7	HIG Europe RE II	58,547,774	N/A	6.38%	6.38%	28.30%	30.72%		
,)	Harbert Europe RE V	75,658,164	N/A	11.10%	11.10%	19.95%	27.72%		
, I	Brookfield RE III	216,113,515	N/A	1.94%	1.94%	15.59%	18.44%		
2	Realterm Log Inc	106,908,566	N/A	8.15%	8.15%	10.0770	10.11/0		
	-		-	4.9 1%	4.9 1%				
3	Clarion Gables	315,043,076 361,541,591	N/A N/A	4.91 % 3.34 %	3.34 %	9.34%	11. 93 %		
		301,341,371	N/A	3.34% 3.59%	3.34 % 3.59%	9.34 % 6.58%	7.37%		
	NCREIF TOTAL INDEX •	146 400 540	NI / A						
5	RE DEBT SEPARATE ACCTS •	146,499,540	N/A	2.98%	2.98%	6.65%	8.46 %		
7	Heitman Capital	53,026,239	N/A	2.71%	2.71%	5.76%	7.56%		
3	Mesa West	93,473,301	N/A	3.22%	3.22%	10.010/	10.000/		
>	RE DEBT FUNDS & CO-INVEST	215,042,051	N/A	3.51%	3.51%	10.21%	13.08%		
)	KAROD	215,042,051	N/A	3.51%	3.51%	10.21%	13.08%		
	EITS •	1,095,190,598	N/A	14.04%	14.04%	35.47%	37.57%	9.60 %	7.15
2 A	ASCI US REIT •			12.00%	12.00%		38.05%	10.14%	6.32
3	AEW Dom RE Securities	997,871,037	N/A	14.06%	14.06%	35.70%	0.00%	0.00%	0.00
4	Mellon MSCI US REIT	97,304,438	N/A						

	9/30/20	021 Market Value*	(A) 1 Month	(B) 3 Months	(C) FYTD	(D) CYTD	(E) 1 Year	(F) 3 Years	(G) 5 Yea
	RIVATE INCOME • RIVATE INCOME CUSTOM ⁷ •	6,192,049,525	N/A	5.66% 4.39%	5.66% 4.39%	18.33% 14.38%	21.91% 19.52%	1 0.39% 7.93%	11.66 ⁰ 7.83
7		2,867,658,876	N/A	5.90%	5.90%	23.12%	25.81%	11.61%	13.96
8	CAMBRIDGE GLOBAL PVT INFRA •		,	3.69%	3.69%	12.69%	17.86%	8.09%	7.93
9	PRIVATE INFRASTRUCTURE	2,617,667,393	N/A	5.97 %	5.97 %	24.04%			
C	CAMBRIDGE GLOBAL PVT INFRA •			3.69%	3.69%	12.69%			
1	GIP II	145,934,008	N/A	4.80%	4.80%	16.06%	15.27%	3.87%	9.21
2	Gateway IFR	55,380,214	N/A	8.97%	8.97%	16.15%	27.09%	-4.13%	0.61
3	GIP II Co-Invest 2	75,783,071	N/A	3.73%	3.73%	16.86%	16.90%	12.39%	14.67
4	LS Power III North Haven	180,902,605 35,318,584	N/A N/A	2.07% 6.51%	2.07% 6.51%	8.69% 4.39%	22.22% -35.20%	20.05% -8.21%	23.09 1.25
5 6	GIP III	263,263,605	N/A N/A	2.69 %	2.69 %	4.39% 15.81%	-33.20% 21.30%	-6 .21%	-24.69
7	GIP III Canary	112,761,433	N/A	6.36%	6.36 %	61.42 %	82.93%	8.45%	-2
, B	CIM Fund II	269,901,235	N/A	4.09%	4.09%	19.74%	25.68%	17.22%	
9	IFR Actis Energy 4	56,681,035	N/A	2.96 %	2.96 %	7.04%	8.21%	15. 67 %	
0	IFR GIP III Zenith	188,376,049	N/A	0.30%	0.30%	14.04%	22.79 %	21.74%	
I	IFR Encap FM IV	10,060,266	N/A	1.58%	1.58%	7.05%	5.74%	5.44%	
2	IFR Infrared V	54,185,506	N/A	5.66%	5.66%	11.05%	11. 59 %	0.36%	
3	IFR NHIP II Bison	44,822,857	N/A	-0.01%	-0.01%	-0.05%	-0.07%	-6.22 %	
4	IFR GIP III Stetson	13,505,769	N/A	N/A	N/A	N/A	N/A		
5	IFR EFM Moda	69,826,073	N/A	0.20%	0.20%	13.63%	13.78%		
5	North Haven India	29,079,093	N/A	2.93%	2.93%	6.50%	12.28%		
7	IFR KKR Infrastructure III IFR KKR Starlight II	112,097,424 73,076,239	N/A N/A	0.54% 1.00%	0.54% 1.00%	2.53% 32.05%	11.69% 38.99%		
3	IFR Energy Spec VIII	19,741,228	N/A	-5.10%	-5.10%	-4.86%	-10.27%		
,)	LS Power Bolt	88,292,514	N/A	24.28%	24.28%	72.32%	72.93%		
	IFR LS Power IV	223,761,280	, N/A	30.64%	30.64%	276.69%	296.07%		
2	IFR EQT IV	122,121,860	N/A	5.71%	5.71%	17.31%	1 6 .11%		
3	IFR Meridiam III	9,037,142	N/A	10.39%	1 0.39 %	0.64%	-5.49%		
1	IFR EQT IV Co-Invest	51,444,593	N/A	2.37%	2.37%	39.33 %	39.29 %		
5	IFR Peppertree VIII	54,088,305	N/A	17.70%	17.70%	21.25%	23.08%		
5	IFR NHIP III	82,811,641	N/A	2.37%	2.37%	15.52%	22.68 %		
7		86,717,434	N/A	-4.20%	-4.20%				
B	IFR KKR Teemo II	23,769,655	N/A						
7 D	Encap ETF IFR Digital II	25,736,315 20,265,893	N/A N/A						
) I	IFR EQT Infra V	7,681,990	N/A						
2		249,991,483	N/A	5.13%	5.13%	15.02%	13.88%	6.08%	7.4
3	S&P GLOBAL LISTED INFRASTRUCT	URE •		2.12%	2.12%	20.57%	22.22%	4.69%	5.2
ļ	Lazard Listed Infrastructure	249,926,859	N/A	5.14%	5.14%	15.01%	13.84%	8.29 %	11.4
5	FTSE Core Developed Infra (Hec			2.55%	2.55%	14.32%	18.12%	10.65%	9.7
ò	PRIVATE CREDIT •	1,624,648,774	N/A	6.07%	6.07%	16.64%	20.37%	8.46%	8.54
7	CAMBRIDGE PRIVATE CREDIT			5.44%	5.44%	16.94%	22.02%	7.61%	7.5
3	Crestline Credit Opportunities	218,976,917	N/A	10.19%	10.19%	13.24%	16.09%	2.33%	4.3
>	Audax III Mezzanine Debt	27,857,653 105,879,938	N/A N/A	5.86% 6.01%	5.86% 6.01%	19.84% 7.28%	14.19% 9.98%	15.19% 9.41%	11.5 10.0
)	Crestline Opps Fund Pathway Capital Mgmt - Direc	897,136,084	N/A N/A	5.82%	5.82%	18.48%	23.42%	12.92%	11.0
2	Audax IV Mezzanine Debt	22,333,264	N/A	5.50%	5.50%	12.31%	17.53%	10.78%	11.0
3	Aurelius II	233,506,405	N/A	6.10%	6.10%	21.06%	26.65%		
1	Crestline SLF II	60,437,798	Ń/A	4.32%	4.32%	14.94%	19.76%		
5	King Street Capital	8,242,411	N/A	-7.22%	-7.22%	9.08%	10.67%		
5	CL Opps Fund IV	39,406,134	N/A	2.74%	2.74%	14.32%	18.03%		
7	Ares SSG SLO III	4,989,638	N/A	2.74%	2.74%	14.32%	18.03%		
3		1,699,741,875	N/A	4.88%	4.88%	13.12%	17.82%	9.75 %	7.54
>	PRIVATE INCOME CUSTOM'			4.39%	4.39%	14.38%	19.52%	7.93%	7.8
)	American Homes 4 Rent II	156,946,078	N/A	11.29%	11.29%	21.03%	24.31%	7.83%	6.6
	Twin Creeks Timber	81,887,636	N/A	0.68%	0.68%	0.31%	0.32%	-0.47%	-0.6
2	INC Athyrium III	16,034,595	N/A	1.43%	1.43%	7.40%	14.42%	8.64%	
3	Generate Capital INC Broadriver III	29,876 64 589 357	N/A N/A	1.95% 2.75%	1.95% 2.75%	52.79% 6.57%	52.59% 8.27%	33.47% -3.49%	
4	INC Broadriver III APF ADAC	64,589,357 1,023,352,277	N/A N/A	2.75% 4.65%	2.75% 4.65%	6.57% 9.85%	8.27% 13.77%	-3.49% 8.40%	
	AFF ADAC Activate Capital	93,248,506	N/A N/A	4.65% 12.44%	4.65% 12.44%	9.85% 57.18%	101.71%	U.TU 70	
	INC OCM Power Opps V	63,185,788	N/A N/A	-5.85%	-5.85%	-4.35%	5.44%		
5	me a am i anci appa t	21,118,051	N/A	-5.65 % 14.41%	-5.65 % 14.41%	14.80%	10.80%		
5 7	TSSP Aariculture	-,,	-	2.58%	2.58%	7.68%	16.14%		
5 7 3	TSSP Agriculture Sprott Lending II	52,019,806	N/A						
5 7 3 9	TSSP Agriculture Sprott Lending II Whitehorse Liquid IV	52,019,806 27,555,939	N/A N/A	12.79%	12.79%				
6 7 8 9 0	Sprott Lending II		-		12.79% 2.89%				
5 6 7 8 9 0 1 2	Sprott Lending II Whitehorse Liquid IV	27,555,939	N/A	12.79%					

			NOTES and REFERENCES
*	Market Values	Reported market valu	es represent total fund holdings consistent with Financial Statements as of September 30,
		2021, consisting of:	
		99.14%	Alaska Permanent Fund
		0.86%	Alaska Mental Health Trust
	All Benchmarks		by name reflect the current applicable benchmark per Investment Policy or by manager
			cable). Benchmark returns greater than one month may include different or additional ring the periods referenced. These can be found in the previous Investment Policies and
		Monthly Peformance	• •
	All Returns	All returns are provide	ed by Callan LLC, are annualized for periods greater than one year, and are net of fees
		as of July 1, 2020.	ea by called the anitotized for periods greater mail one year, and are net of rees
•	Lagged Returns	For investments within	the following asset classes, returns are lagged one quarter. Composites that incorporate
			benchmarks associated are also lagged one quarter.
			Real Estate
			Private Equity and Special Opportunities
			Private Income
1	Passive Benchmark	60%	MSCI All-Country World Index IMI
	09/30/2016 to date	20%	BB Global Aggregate Index
		10%	FTSE EPRA/NAREIT Rental Index
		10%	US TIPs
2	Performance Benchmark	38.0%	MSCI ACWI IMI
	07/01/2021 to date	16.0%	Cambridge Private Equity (1 Q Lagged)
		6.8%	NCREIF Total Index (1 Q Lagged)
		6.0%	HFRI Total HFOF Universe
		5.5%	BB US Corporate
		5.5% 5.4%	BB US Aggregate Cambridge Global Private Infrastructure (1 Q Lagged)
		3.6%	Cambridge Global Private Inflasticitie (1 & Lagged) Cambridge Private Credit (1 & Lagged)
		3.0%	90 Day T-Bills
		2.0%	BB US High Yield 2% Issuer Cap
		2.0%	BB Global Treasury ex-US Hedged
		2.0%	BB US Securitized
		1.0%	BB US TIPS
		1.2%	MSCI US REIT (1 Q Lagged)
		1.0%	HFRI Risk Parity 12% Vol
		0.5%	JPM EMBI Global Diversified
		0.5%	JPM GBI-EM Global Diversified TRI
3	Total Fund Return Objective	100%	Consumer Price Index (All Urban Consumers, U.S. City Average, All Items, Unadjusted
			Index) plus 5%
4	Fixed Income Benchmark	27.5%	BB US Aggregate
	07/01/2020 to date	27.5%	BB US Corporate
		10.0%	BB US Securitized
		10.0%	BB US High Yield 2% Issuer Cap
		10.0%	BB Global Treasure ex-US Hedged BB US TIPs
		5.0% 5.0%	90 Day T-Bills
		2.5%	JPM EMBI Global Diversified
		2.5%	JPM GBI-EM Global Diversified

5 EMD Benchmark	50%	JPM EMBI Global Diversified	
09/30/2016 to dat	e 50%	JPM GBI-EM Global Diversified	
⁶ Real Estate Custom Ben	chmark 85%	NCREIF Property (1 Q Lagged)	
07/01/2020 to dat	e 15%	MSCI US REIT (1 Q Lagged)	
7 Private Income Custom	Benchmark 60%	Cambridge Global Private Infrastructure (1 Q Lagged)	
07/01/2020 to dat	e 40%	Cambridge Private Credit (1 Q Lagged)	