# **Investment Reports**

Quarterly Report – December 31, 2023

Total Assets Under Management	
Capital Markets	
Commingled Trust Fund (CTF)	
Defined Contribution Plans	
Daily Priced Investment Options	
Labor & Industries' Funds	
Permanent Funds	
Other Funds	

|--|

**Stakeholder Overview** 

Quarter Ended December 31, 2023

Labor & Industries' Funds \$19.9 B, 10.1%

Permanent Funds \$1.3 B, 0.6%

Other Funds \$2.1 B, 1.1%

\$197,257,407,378

#### WSIB invests for 39 funds:

#### 18 Retirement Funds

- 5 State Insurance Funds for injured workers
- 7 Permanent Funds
- 9 Other Funds

#### Asset Class Market Values for All Funds (\$ Billions)

Fixed Income	\$45.3
Tangible Assets	\$11.6
Real Estate	\$32.8
Public Equity	\$56.3
Private Equity	\$46.8
Innovation	\$1.9
Cash	\$2.6

# Retirement Funds (CTF, VFFRO, and Defined Contribution) \$173.9 B, 88.2%

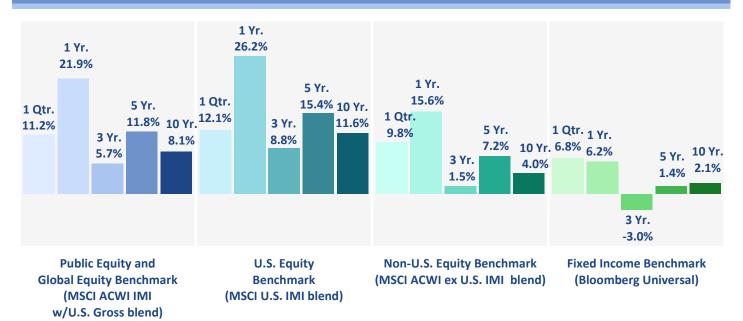
### Asset Class Overview for All Funds

Cash 1.5%		Cash 0.4%	Cook 2,0%
Innovation 1.1% Private Equity 26.9%	Public Equity 16.9% Real Estate 1.0%	Public Equity 40.5%	Cash 2.0% Public Equity 39.3%
Public Equity 28.8%			
Real Estate 18.7%	Fixed Income 82.1%	Fixed Income 59.1%	Fixed Income 58.7%
Tangible Assets 6.7%			
Fixed Income 16.3%			
Retirement Funds (CTF, VFFRO, and Defined	Labor & Industries' Funds	Permanent Funds	Other Funds

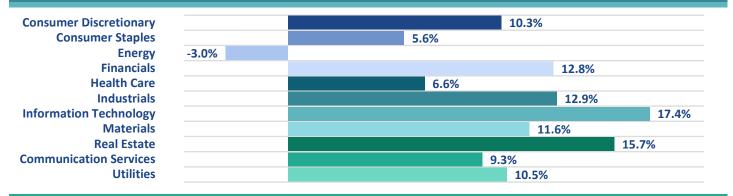
**Contribution**)

# Capital Markets





### Quarterly Industry Returns MSCI ACWI IMI



### **Capital Market Highlights**

- Global markets enjoyed a very strong quarter as the U.S. Federal Reserve (Fed) indicated that interest rate cuts could be on the horizon in 2024.
- U.S. inflation fell during the quarter from 3.7% in September to 3.4% in December.
- The MSCI Developed World IMI index returned 11.5% in the fourth quarter, bringing the 1-year return to 22.9%.
- Emerging markets trailed far behind the developed markets this quarter the MSCI Emerging Markets IMI index returned 8.0%, which brought its 1-year return to 11.7%.
- The Federal Open Market Committee kept its Target Rate Range unchanged at 5.25% to 5.50%.
- The U.S. 10-year Treasury yield decreased by 0.7% to 3.9%.
- With the fall in rates, fixed income returns were in positive territory for the quarter.
  - The Bloomberg Universal index returned 6.8% in Q4.

# CTF Allocation & Historical

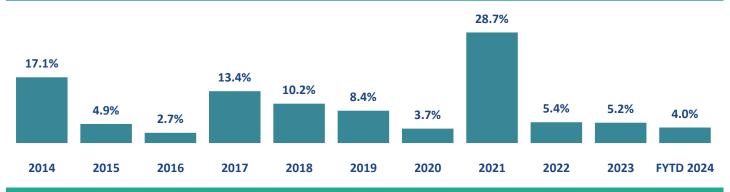
Quarter Ended December 31, 2023

**Actual Asset Allocation** 

Market Value	by Asset Class	with Overlay	Market Value Changes
\$24,339,800,062	15.1%	16.7%	
\$11,578,375,604	7.2%	7.2%	Quarter
\$32,600,381,680	20.2%	20.2%	\$5,680,330,710
\$41,279,075,354	25.6%	25.6%	
\$46,807,596,768	29.1%	29.1%	Fiscal Year
\$1,884,471,988	1.2%	1.2%	\$5,379,989,789
\$2,571,068,085	1.6%	0.1%	
\$161,060,769,540			
	\$24,339,800,062 \$11,578,375,604 \$32,600,381,680 \$41,279,075,354 \$46,807,596,768 \$1,884,471,988	\$24,339,800,062 15.1% \$11,578,375,604 7.2% \$32,600,381,680 20.2% \$41,279,075,354 25.6% \$46,807,596,768 29.1% \$1,884,471,988 1.2% \$2,571,068,085 1.6%	\$24,339,800,062       15.1%       16.7%         \$11,578,375,604       7.2%       7.2%         \$32,600,381,680       20.2%       20.2%         \$41,279,075,354       25.6%       25.6%         \$46,807,596,768       29.1%       29.1%         \$1,884,471,988       1.2%       1.2%         \$2,571,068,085       1.6%       0.1%



### Historical Annualized Returns Fiscal Years Ended June 30



#### Historical Growth of the CTF • Fiscal Years Ended June 30



Note: Page 4-9, Totals may not add up due to rounding.

<pre>/// CTF • Pefor</pre>					Quarter E	nded Decemb	oer 31, 2023	
			Qtr.	1 Year	3 Year	5 Year	10 Year	20 Year
Total Fund	\$161,060,769,540	100.0%	4.09%	9.21%	8.87%	10.89%	9.18%	8.65%
Passive Benchmark <sup>2</sup>			9.88%	16.94%	3.12%	8.77%	6.40%	6.59%
Implementation Value Ac	dded Benchmark <sup>3</sup>		3.99%	12.82%	5.76%	8.41%	7.68%	
TUCS Public Fund >\$1B N	1edian <sup>4</sup>		6.53%	12.00%	5.74%	9.24%	7.32%	
TUCS Public/Corporate Fi	und >\$1B Median <sup>4</sup>		6.82%	11.37%	4.90%	9.08%	7.08%	
Fixed Income	\$24,339,800,062	15.1%	7.23%	7.35%	-2.12%	2.63%	2.71%	4.12%
Bloomberg Universal			6.83%	6.17%	-2.97%	1.44%	2.08%	3.46%
Tangible Assets <sup>5</sup>	\$11,578,375,604	7.2%	2.10%	8.03%	10.72%	7.64%	6.51%	
CPI (Lagged One Quarter)	) + 400 bps		2.20%	7.69%	9.75%	8.04%	6.79%	
Real Estate <sup>5</sup>	\$32,600,381,680	20.2%	-2.32%	-0.62%	17.57%	14.08%	13.02%	11.28%
8% Return Over Rolling 1	0 Years						8.00%	
NCREIF (Lagged One Qua	rter)		-1.37%	-8.39%	6.04%	5.26%	7.40%	8.03%
Public Equity <sup>6</sup>	\$41,279,075,354	25.6%	11.19%	22.76%	6.38%	11.74%	8.34%	7.88%
Custom Benchmark			11.23%	21.94%	5.74%	11.81%	8.09%	7.79%
Private Equity <sup>5</sup>	\$46,807,596,768	29.1%	1.90%	6.87%	14.30%	14.28%	13.87%	13.90%
Custom Benchmark <sup>9</sup>			-2.62%	23.51%	10.17%	9.40%	10.70%	9.98%
Innovation <sup>5</sup>	\$1,884,471,988	1.2%	1.52%	8.52%	14.13%	10.88%	-2.10%	
Custom Benchmark <sup>7</sup>			1.50%	16.75%	7.12%	8.50%	5.26%	
Overlay <sup>8</sup>	\$302,396,759		0.11%	0.15%	-0.07%	0.03%	0.05%	0.05%
Cash	\$2,268,671,326	1.6%	1.40%	5.32%	2.36%	2.01%	1.39%	1.57%
90 Day T-Bills	<i>q</i> <b>1</b> ,200,07,2, <b>3</b> 20	2.073	1.39%	5.15%	2.21%	1.92%	1.28%	1.50%

Outperformed the Composite Benchmark

Underperformed the Composite Benchmark

<sup>1</sup> Performance figures are net of all non-appropriated fees.

<sup>2</sup> CTF Passive Benchmark: 69% MSCI ACWI IMI w/ U.S. Gross and 31% Bloomberg Universal and a custom historical blend.

<sup>3</sup> The Implementation Value Added Benchmark: Consists of market indices, as defined in each asset class's policy, weighted according to the asset allocation targets. This custom benchmark differs from the passive benchmark as it is not an investable benchmark due to the uninvestable premium added to certain private market benchmarks.

<sup>4</sup> TUCS returns have been adjusted to reflect fees equivalent to those incurred by the WSIB (6.5 bps over 1, 3, and 5 years and 10 bps for 10 years).

<sup>5</sup> Private market investments use the latest market value known plus cash flows that have occurred since that time. For compositing purposes their returns are calculated using monthly time-weighted returns.

<sup>6</sup> Public Equity Benchmark: MSCI ACWI IMI w/U.S. Gross and a custom historical blend.

<sup>7</sup> Innovation Benchmark: The weighted average of the underlying benchmarks for each asset/idea within the portfolio.

<sup>8</sup> To show the performance, cash and the cash held in the overlay are separated out on this page.

<sup>9</sup> Private Equity Benchmark: MSCI ACWI IMI w/U.S. Gross (Lagged One Quarter) + 300 bps and a custom historical blend.

CTF • Public Equity Performance			Quarter	Ended Decem	ber 31, 2023
Global Markets				\$12,58	8,089,069
	Qtr.	1 Year	3 Year	5 Year	10 Year
Total Global	10.39%	21.62%	6.32%	11.92%	9.21%
MSCI ACWI IMI w/ U.S. Gross	11.23%	21.94%	5.74%	11.81%	8.09%
Arrowstreet Capital	9.22%	24.53%	10.59%	15.95%	11.80%
BLS Capital	7.40%	9.58%			
GQG Partners	11.38%	20.64%			
LSV Asset Management	9.36%	16.77%			
Mawer	9.78%	21.67%			
Sands	20.23%	32.96%			
William Blair & Company	12.83%	23.90%	1.27%	13.01%	9.62%
Non-U.S. Markets				\$11,11	9,193,244
	Qtr.	1 Year	3 Year	5 Year	10 Year
Total Non-U.S. Equity	10.57%	18.78%	3.21%	7.44%	4.20%
Custom Benchmark	9.81%	15.62%	1.53%	7.18%	3.97%
Total Developed	10.64%	17.73%	4.43%	8.12%	4.59%
Custom Benchmark	10.52%	17.18%	3.73%	8.24%	4.35%
SSgA	10.65%	17.75%	4.19%	8.74%	4.85%
Total Emerging	10.37%	21.13%	0.51%	5.82%	3.13%
Custom Benchmark	8.02%	11.67%	-3.71%	4.45%	3.00%
BlackRock Trust Company EM IMI	7.61%	10.93%	-4.11%	4.09%	2.73%
Brandes Investment Partners	8.50%	25.56%	5.02%	5.33%	
GQG Partners	12.58%	31.91%	1.58%		
LSV Asset Management	12.20%	25.18%	7.61%		
U.S. Markets				\$17,56	9,764,248
	Qtr.	1 Year	3 Year	5 Year	10 Year
Total U.S. Equity	12.20%	26.38%	8.83%	14.99%	11.33%
MSCI U.S. IMI (Gross)	12.14%	26.25%	8.75%	15.36%	11.60%

BlackRock Trust Company

Outperformed the Composite Benchmark

Underperformed the Composite Benchmark

26.38%

12.20%

Developed Markets Benchmark: MSCI World ex U.S. IMI and a custom historical blend. Emerging Markets Benchmark: Emerging Markets IMI and a custom historical blend. Non-U.S. Equity Benchmark: MSCI ACWI IMI ex U.S. and a custom historical blend.

11.65%

15.41%

8.83%

CTF   Public Equity			Quarter Ended December 31, 2
Global Markets			\$12,588,089,
Arrowstreet Capital	\$4,435,589,777	35.2%	
BLS Capital	\$1,312,266,731	10.4%	
GQG Partners	\$1,927,362,702	15.3%	
SV Asset Management	\$1,683,940,084	13.4%	
Mawer	\$1,383,429,926	11.0%	
Sands	\$846,668,468	6.7%	
Villiam Blair & Company	\$987,999,633	7.8%	
Non-U.S. Markets			\$11,119,193,
Developed			
SgA	\$7,795,076,283	99.9%	
merging			
BlackRock Trust Company EM IMI	\$753,458,443	22.7%	
Brandes Investment Partners	\$708,356,606	21.4%	
GQG Partners	\$968,682,044	29.2%	
SV Asset Management	\$883,336,055	26.7%	
	\$663,330,033	20.7/0	
J.S. Markets			\$17,569,764,;
BlackRock Trust Company	\$17,569,764,248	100.0%	
	_		

Transition Accounts for Public Equity

\$23,144,353

✓✓✓ CTF ● Asset	Class Details		Quarter Ende	ed December 31, 2023
Public Equity				\$41,279,075,354
Top Ten C	Geographies by Weight		Top Ten Holdings	
United States	59.5%	Microsoft Corp.		3.6%
Japan	5.5%	Apple Inc.		3.3%
United Kingdom	4.3%	Alphabet Inc.		2.2%
France	3.2%	NVIDIA Corp.		1.8%
China	2.9%	Amazon.com Inc.		1.7%
Canada	2.6%	Meta Platforms Inc.		1.5%
India	2.4%	UnitedHealth Group	Inc	1.0%
Switzerland	2.1%	Novo Nordisk A/S		0.8%
Netherlands	2.0%	Visa Inc.		0.8%
Germany	1.9%	TotalEnergies SE		0.7%
WSIB	U.S. 59.5%		Other Developed Countries 29.0%	Emerging 11.5%
MSCI ACWI IMI w/U.S. Gross	U.S. 61.4%		Other Developed Countries 27.7%	Emerging 10.9%

**Fixed Income** 

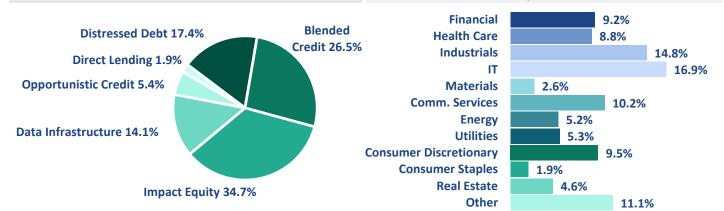
\$24,339,800,062

\$1,884,471,988

**Industry Distribution** 



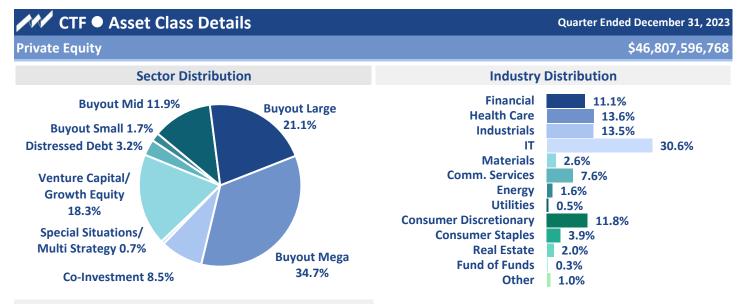
### Innovation



**Unfunded Commitments: \$886.7 Million** 

Distribution charts and unfunded commitments are lagged one quarter.

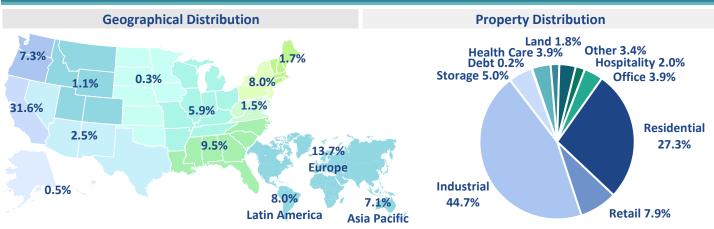
**Sector Distribution** 



**Unfunded Commitments: \$20.1 billion** 

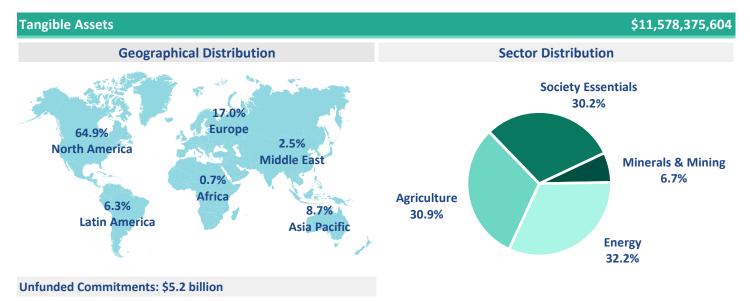
**Real Estate** 





0.6% is in loan portfolios spread across multiple U.S. regions. 0.6% is spread across multiple countries.

### Unfunded Commitments: \$10.3 billion



Distribution charts and unfunded commitments are lagged one quarter.

# ✓ Defined Contribution Plans ● Plans 3 ● TRS and SERS

## Teachers' Retirement System (TRS)

	% of Assets	Fund Options	Market Value	Quarterly Change
	64.6%	WSIB TAP	\$8,682,800,300	\$231,996,410
	0.8%	Socially Responsible Balanced	103,924,621	7,455,956
	0.2%	Retirement Maturity Strategy	30,343,311	(61,591)
	0.4%	Retirement Strategy 2010	47,869,328	137,802
	0.7%	Retirement Strategy 2015	96,253,683	4,517,333
	1.5%	Retirement Strategy 2020	206,319,663	6,820,884
	3.2%	Retirement Strategy 2025	423,541,593	18,654,780
%	3.5%	Retirement Strategy 2030	471,315,442	35,300,913
18.4%	3.0%	Retirement Strategy 2035	409,107,906	35,149,323
-	2.1%	Retirement Strategy 2040	278,026,242	26,931,022
	1.4%	Retirement Strategy 2045	186,395,520	19,298,775
	1.1%	Retirement Strategy 2050	143,510,789	15,062,211
	0.9%	Retirement Strategy 2055	121,249,604	13,317,529
	0.4%	Retirement Strategy 2060	48,991,748	6,127,180
	0.1%	Retirement Strategy 2065	10,312,284	1,883,922
	8.6%	U.S. Large Stock	1,157,429,809	111,780,679
	1.4%	U.S. Small Value Stock	194,674,728	23,306,989
	1.3%	Global Equity	179,530,619	16,546,313
	0.4%	Emerging Markets Equity	55,455,237	3,695,382
	2.0%	WSIB Bond Market	263,229,627	8,354,818
	2.5%	STIF	330,306,246	(5,843,915)
		Total	\$13,440,588,301	\$580,432,714

## School Employees' Retirement System (SERS)

	% of Assets	Fund Options	Market Value	Quarterly Change
	74.2%	WSIB TAP	\$2,196,588,383	\$61,791,263
	0.5%	Socially Responsible Balanced	14,360,175	1,167,671
	0.2%	Retirement Maturity Strategy	5,833,952	118,245
	0.4%	Retirement Strategy 2010	13,305,098	532,130
	0.8%	Retirement Strategy 2015	23,448,292	365,056
	1.7%	Retirement Strategy 2020	49,364,696	2,391,369
	3.0%	Retirement Strategy 2025	89,440,080	5,376,950
%	2.1%	Retirement Strategy 2030	62,744,160	5,634,687
16.4%	2.2%	Retirement Strategy 2035	64,165,367	6,139,619
-	1.6%	Retirement Strategy 2040	48,167,157	5,252,504
	1.4%	Retirement Strategy 2045	41,538,873	4,578,885
	1.2%	Retirement Strategy 2050	34,860,067	4,217,622
	1.1%	Retirement Strategy 2055	32,098,099	3,331,596
	0.6%	Retirement Strategy 2060	17,201,501	1,970,251
	0.1%	Retirement Strategy 2065	3,128,783	541,257
	3.9%	U.S. Large Stock	114,836,498	11,733,279
	0.7%	U.S. Small Value Stock	21,122,133	2,563,275
	0.6%	Global Equity	16,388,652	1,466,549
	0.2%	Emerging Markets Equity	4,977,205	263,979
	0.9%	WSIB Bond Market	26,050,265	1,638,025
	2.7%	STIF	78,788,406	(1,153,224)
		Total	\$2,958,407,840	\$119,920,991

Note: Totals may not add up due to rounding.

	Defined Contribution Plans  Plans 3  PERS
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Quarter Ended December 31, 2023

## Public Employees' Retirement System (PERS)

	% of Assets	Fund Options	Market Value	Quarterly Change
	60.5%	WSIB TAP	\$3,033,159,812	\$104,001,126
	1.0%	Socially Responsible Balanced	48,867,281	3,996,331
	0.2%	Retirement Maturity Strategy	11,375,108	92,212
	0.5%	Retirement Strategy 2010	23,055,301	1,247,004
	0.7%	Retirement Strategy 2015	34,158,786	988,056
	1.6%	Retirement Strategy 2020	78,504,971	3,375,505
	3.4%	Retirement Strategy 2025	168,151,890	10,076,459
8	3.3%	Retirement Strategy 2030	165,754,124	15,782,460
3.0%	3.2%	Retirement Strategy 2035	161,354,436	15,102,677
5	2.5%	Retirement Strategy 2040	125,342,833	12,251,848
	2.5%	Retirement Strategy 2045	123,058,958	12,871,051
	2.3%	Retirement Strategy 2050	114,184,620	12,334,453
	1.9%	Retirement Strategy 2055	95,930,123	10,589,185
	0.9%	Retirement Strategy 2060	44,244,851	5,648,359
	0.2%	Retirement Strategy 2065	8,600,926	1,684,088
	7.4%	U.S. Large Stock	368,713,365	40,978,190
	1.8%	U.S. Small Value Stock	88,512,106	10,545,597
	1.3%	Global Equity	65,771,754	6,435,307
	0.4%	Emerging Markets Equity	21,505,270	1,434,303
	1.3%	WSIB Bond Market	63,623,836	2,194,985
	3.4%	STIF	171,950,611	463,086
		Total	\$5,015,820,963	\$272,092,282

	<b>Defined Contribution Plans</b> • DCP and JRA
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Quarter Ended December 31, 2023

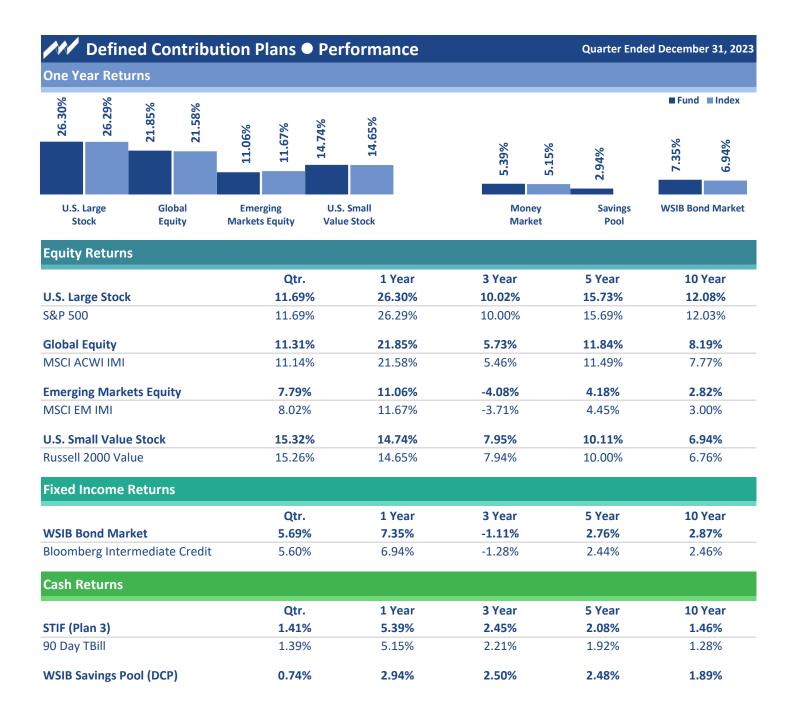
<b>Deferred Corr</b>	pensation Pr	ogram	(DCP)
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	% of Assets	Fund Options	Market Value	Quarterly Change
	3.2%	Socially Responsible Balanced	\$208,203,179	\$15,670,702
	1.0%	<b>Retirement Maturity Strategy</b>	67,986,756	668,751
	1.4%	Retirement Strategy 2010	89,979,097	2,036,004
	3.5%	Retirement Strategy 2015	231,594,404	7,143,180
	6.8%	Retirement Strategy 2020	444,288,497	18,961,489
	10.4%	Retirement Strategy 2025	683,633,530	46,652,603
%	9.6%	Retirement Strategy 2030	628,746,003	55,234,869
55.3%	7.6%	Retirement Strategy 2035	497,652,041	49,314,947
Ω.	5.1%	Retirement Strategy 2040	336,573,977	34,224,058
	3.9%	Retirement Strategy 2045	257,960,036	29,437,014
	2.6%	Retirement Strategy 2050	170,835,580	23,022,445
	1.8%	Retirement Strategy 2055	120,326,214	17,463,985
	1.2%	Retirement Strategy 2060	76,023,388	11,223,338
	0.4%	Retirement Strategy 2065	26,173,184	5,073,493
	14.6%	U.S. Large Stock	960,846,332	112,263,187
	4.4%	U.S. Small Value Stock	287,349,678	33,304,509
	3.7%	Global Equity	241,922,362	23,819,017
	1.2%	Emerging Markets Equity	76,137,268	5,179,145
	3.8%	WSIB Bond Market	247,252,254	11,597,822
	14.0%	WSIB Savings Pool	918,894,247	(18,093,160)
		Total	\$6,572,378,027	\$484,197,397

## Judicial Retirement Account (JRA)

	% of Assets	Fund Options	Market Value	Quarterly Change
	4.7%	Socially Responsible Balanced	\$371,051	\$24,612
	0.6%	Retirement Maturity Strategy	50,081	277
	3.9%	Retirement Strategy 2010	313,380	2,229
	13.2%	Retirement Strategy 2015	1,048,992	28,249
	14.8%	Retirement Strategy 2020	1,180,025	79,040
	5.5%	Retirement Strategy 2025	435,588	31,736
8	4.1%	Retirement Strategy 2030	329,492	(58,570)
42.8%	0.7%	Retirement Strategy 2035	56,362	605
4	0.0%	Retirement Strategy 2040	0	0
	0.0%	Retirement Strategy 2045	0	0
	0.0%	Retirement Strategy 2050	0	0
	0.0%	Retirement Strategy 2055	0	0
	0.0%	Retirement Strategy 2060	0	0
	0.0%	Retirement Strategy 2065	0	0
	18.5%	U.S. Large Stock	1,479,648	150,527
	4.3%	U.S. Small Value Stock	342,590	42,363
	5.8%	Global Equity	466,139	28,982
	1.4%	Emerging Markets Equity	110,983	7,490
	2.3%	WSIB Bond Market	181,675	(5,387)
	20.2%	WSIB Savings Pool	1,610,629	839
		Total	\$7,976,635	\$332,993

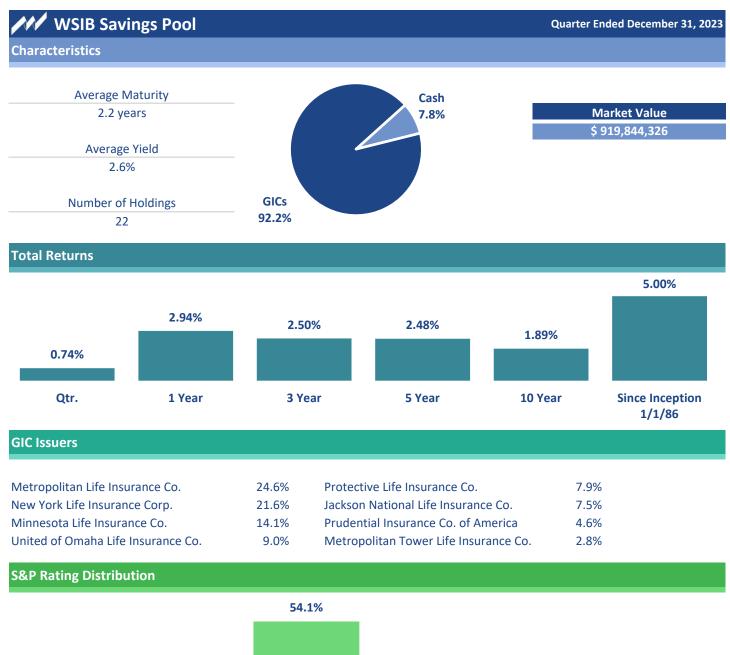
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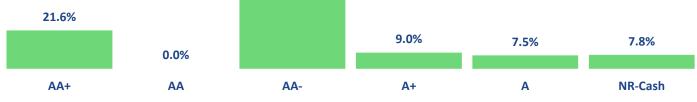


Returns shown are after manager and portfolio expenses but before the WSIB and record keeping fees.

		Performance						oer 31, 202
One Year Returns								
9.21% 16.94% 13.02% 16.84% 9.48% 9.91% 10.00%	11.51% 12.00% 12.98% 13.53%	14.15% 14.82% 15.13% 15.63%	15.56% 16.43% 16.06% 17.08%	16.65% 17.55%	17.12% 17.99%	17.10%	17.18% 17.99%	17.24% 17.99%
WSIB TAP Socially RMS 2010 Responsible Balanced	2015 2020	2025 2030	2035 2040	2045	2050	2055	2060	2065
alanced Returns								
	Qtr.	1 Year	3 Yea		5 Ye			Year
VSIB TAP Fund (Plan 3)	4.09%	9.21%	8.86	-	10.89		-	.18%
ustom Benchmark	9.88%	16.94%	3.12	%	8.77	%	6	.40%
ocially Responsible Balanced	9.51%	13.02%	4.75	-	9.14	-	-	.40%
ustom Benchmark	9.69%	16.84%	3.54	%	8.97	'%	6	.94%
etirement Maturity Strategy	5.90%	9.48%	1.93	%	5.75	%	4	.42%
omposite Index	5.87%	9.91%	1.69	%	5.38	8%	4	.05%
etirement Strategy 2010	5.92%	10.00%	2.34	%	6.73	%	5	.21%
010 Composite Index	6.08%	10.42%	1.99	-	6.21		_	.81%
etirement Strategy 2015	6.70%	11.51%	2.96	%	7.81	%	5	.93%
015 Composite Index	6.89%	12.00%	2.57	-	7.22	-	-	.48%
atirament Strategy 2020	7.33%	12.98%	3.61	0/	8.86	0/	6	.51%
etirement Strategy 2020 020 Composite Index	7.61%	13.53%	3.11	-	8.15			.03%
·								
etirement Strategy 2025 025 Composite Index	<b>7.89%</b> 8.18%	<b>14.15%</b> 14.82%	<b>4.08</b> 3.56		<b>9.47</b> 8.74	-		<b>.88%</b> .39%
025 Composite index	8.18%	14.82%	3.50	70	8.74	70	0	.39%
etirement Strategy 2030	8.18%	15.13%	4.70		10.10			.25%
030 Composite Index	8.28%	15.63%	3.98	%	9.26	%	6	.71%
etirement Strategy 2035	8.17%	15.56%	5.06	%	10.48	8%	7	.45%
035 Composite Index	8.30%	16.43%	4.42	%	9.79	%	6	.99%
etirement Strategy 2040	8.25%	16.06%	5.33	%	10.8	5%	7	.65%
040 Composite Index	8.35%	17.08%	4.70		10.23			.20%
etirement Strategy 2045	8.56%	16.65%	5.34	%	11.03	3%	7	.74%
045 Composite Index	8.58%	17.55%	4.81		10.49			.34%
etirement Strategy 2050	8.95%	17.12%	5.36	%	11.0	5%	7	.75%
050 Composite Index	9.02%	17.99%	4.89		10.56			.37%
etirement Strategy 2055 055 Composite Index	<b>8.94%</b> 9.02%	<b>17.10%</b> 17.99%	<b>5.38</b> 4.89		<b>11.0</b> 8			<b>.77%</b> .37%
etirement Strategy 2060	8.98%	17.18%	5.34		11.08			N/A
060 Composite Index	9.02%	17.99%	4.89	%	10.50	5%		N/A
etirement Strategy 2065	9.03%	17.24%	5.35	%	N//			N/A
065 Composite Index	9.02%	17.99%	4.89	%	N/#	4		N/A

### **Defined Contribution Plans**

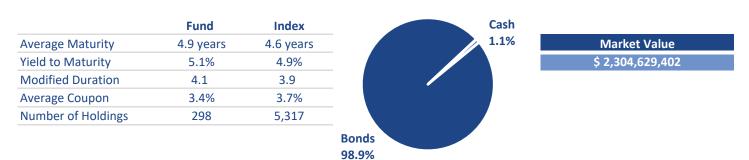




Note: Totals may not add up due to rounding.

# WSIB Bond Market Fund

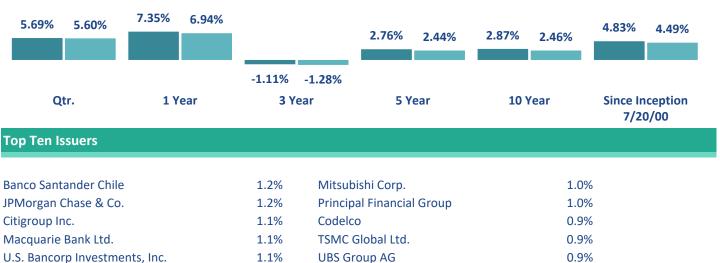
#### **Characteristics**



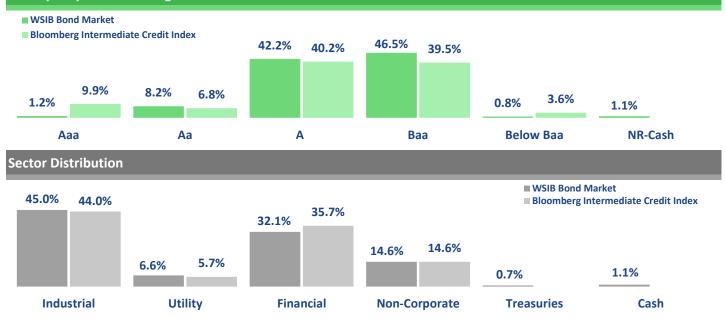
Total Returns

WSIB Bond Market





### **Moody's Equivalent Rating Distribution**



Note: Totals may not add up due to rounding.

# WSIB TIPS Fund

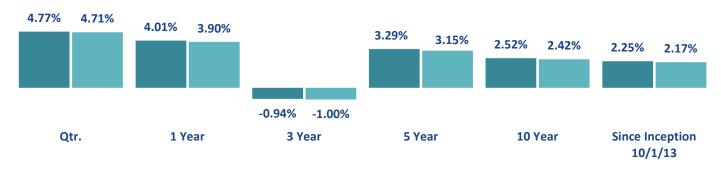
### **Characteristics**

	Fund	Index
Average Maturity	7.4 years	7.1 years
Yield to Maturity	2.0%	2.0%
Modified Duration	6.9	6.6
Average Coupon	0.8%	0.9%
Number of Holdings	43	48

### **Total Returns**

WSIB TIPS

Bloomberg TIPS Index



Labor & Industries' Funds       Quarter Ended December 31, 2023         Accident       Quarter Ended December 31, 2023					
<b>\$7,123,732,422</b> \$1,171,622,938 \$5,879,804,529 \$72,304,955	Equity 16.45%		Fixed Income 82.54%	Real Estate 1.01%	
<b>\$7,203,518,519</b> \$1,557,122,934 \$5,573,811,830 \$72,583,755	Equity 21.62%		Fixed Income 77.38%	Real Estate 1.01%	
<b>\$5,456,056,893</b> \$631,628,717 \$4,769,339,652 \$55,088,524	Equity 11.58%	Fi	ixed Income 87.41%	Real Estate 1.01%	
<b>\$112,898,187</b> \$112,898,187					
tatutory Accounting Retur	ns <sup>1</sup>				
	<b>Qtr.</b> 2.33% 2.82% 1.89% 1.13%	<b>1 Year</b> 5.86% 6.81% 5.12% 4.08%	<b>3 Year</b> 3.59% 3.52% 3.83% 2.02%	<b>5 Year</b> 5.19% 5.22% 5.06% 1.95%	
	\$7,123,732,422 \$1,171,622,938 \$5,879,804,529 \$72,304,955 \$7,203,518,519 \$1,557,122,934 \$5,573,811,830 \$72,583,755 \$5,456,056,893 \$631,628,717 \$4,769,339,652 \$55,088,524 \$112,898,187 \$112,898,187	\$7,123,732,422       Equity         \$1,171,622,938       Equity         \$5,879,804,529       16.45%         \$72,304,955       Equity         \$1,557,122,934       Equity         \$1,557,122,934       Equity         \$5,573,811,830       21.62%         \$72,583,755       Equity         \$631,628,717       Equity         \$631,628,717       \$4,769,339,652         \$55,088,524       I1.58%         \$112,898,187       \$112,898,187         \$112,898,187       Qtr.         2.33%       2.82%         1.89%       1.89%	\$7,123,732,422       Equity         \$1,171,622,938       Equity         \$5,879,804,529       16.45%         \$72,304,955       Equity         \$1,557,122,934       Equity         \$5,573,811,830       \$1.62%         \$72,583,755       Equity         \$631,628,717       Equity         \$4,769,339,652       11.58%         \$55,088,524       Fixed I         \$112,898,187       Fixed I         \$112,898,187       Fixed I         \$112,898,187       Fixed I         \$23%       5.86%         \$23%       5.86%         \$28%       6.81%         1.89%       5.12%	\$7,123,732,422 \$1,171,622,938 \$5,879,804,529 \$72,304,955       Equity 16.45%       Fixed Income 82.54%         \$7,203,518,519 \$1,557,122,934 \$5,573,811,830 \$72,583,755       Equity 21.62%       Fixed Income 77.38%         \$5,573,811,830 \$72,583,755       Equity 21.62%       Fixed Income 87.41%         \$5,573,811,830 \$72,583,755       Equity 21.62%       Fixed Income 87.41%         \$5,573,811,830 \$55,088,524       Equity 21.62%       Fixed Income 87.41%         \$51,626,056,893 \$631,628,717 \$4,769,339,652 \$55,088,524       Equity 11.58%       Fixed Income 87.41%         \$12,898,187 \$112,898,187       Equity 11.58%       Fixed Income 87.41%         \$12,898,187 \$112,898,187       Fixed Income 100.00%       9         \$2,33% \$2,82%       5.86% \$3.59% 2.82%       3.59% 3.59%	

	CMI	Target	Actual	% Difference
Accident Fund	6.61	7.00	6.90	-1.47%
Medical Aid	5.70	6.00	5.96	-0.60%
Pension Reserve	9.49	10.00	9.64	-3.60%

<sup>1</sup>Uses net income, realized and unrealized gains and losses on equity securities, and realized gains and losses on fixed income in the numerator. The denominator uses book value for fixed income securities and market value for equities. Below investment grade fixed income securities are carried at the lower of book or market value.

Labor & Industrie	Quarter Endec	l December 31, 202			
Total Returns					
	Qtr.	1 Year	3 Year	5 Year	10 Year
Accident	8.01%	9.52%	-1.24%	3.80%	3.73%
CMI	8.19%	9.60%	-1.37%	3.64%	3.52%
Medical Aid	7.62%	10.15%	-0.39%	4.26%	3.86%
CMI	7.74%	10.24%	-0.36%	4.14%	3.67%
Pension Reserve	9.63%	8.59%	-3.52%	2.97%	3.37%
CMI	10.31%	9.74%	-3.31%	2.91%	3.09%
Supplemental Pension	1.39%	4.97%	1.30%	1.86%	1.44%
CMI	N/A	N/A	N/A	N/A	N/A
Equity Returns					
	Qtr.	1 Year	3 Year	5 Year	10 Year
Accident	11.25%	21.94%	5.76%	11.81%	8.37%
Medical Aid	11.25%	21.94%	5.76%	11.83%	8.39%
Pension Reserve	11.25%	21.95%	5.76%	11.84%	8.38%
Equity Benchmark	11.23%	21.94%	5.74%	11.81%	8.33%
Fixed Income Returns					
	Qtr.	1 Year	3 Year	5 Year	10 Year
Accident	7.56%	7.18%	<b>-2.61%</b>	2.17%	2.82%
CMI	7.58%	7.14%	-2.87%	1.94%	2.54%
Medical Aid	6.82%	7.01%	-2.07%	2.14%	2.64%
CMI	6.77%	6.96%	-2.19%	1.92%	2.35%
Pension Reserve	9.59%	7.16%	-4.64%	1.77%	2.68%
CMI	10.18%	8.29%	-4.45%	1.73%	2.38%
Supplemental Pension	1.39%	4.97%	1.30%	1.86%	1.44%
CMI	N/A	N/A	N/A	N/A	N/A
Real Estate Returns					
	Qtr.	1 Year	3 Year	5 Year	10 Year
Accident	-3.20%	-0.48%	3.17%	N/A	N/A
Medical Aid	-3.06%	-0.60%	3.23%	N/A	N/A
Pension Reserve	-3.15%	-0.74%	3.22%	N/A	N/A
Real Estate Benchmark	1.47%	6.00%	6.00%	N/A	N/A

Equity Benchmark: MSCI ACWI IMI w/U.S. Gross and custom historical blends. Real Estate Benchmark: Rolling 6% across all annualized time periods.

M Permanent	Funds		Quarter Ended December 31,	202
Agricultural				
<b>Total</b> Equity Fixed Income Cash	<b>\$299,113,554</b> \$121,572,165 \$177,199,847 \$341,541	Equity 40.6%	Fixed Income 59.4%	
Normal School				
<b>Total</b> Equity Fixed Income Cash	<b>\$335,347,953</b> \$135,749,748 \$198,226,484 \$1,371,721	Equity 40.5%	Fixed Income 59.5%	
Scientific Permanent				
<b>Total</b> Equity Fixed Income Cash	<b>\$335,300,572</b> \$135,517,741 \$199,051,100 \$731,731	Equity 40.4%	Fixed Income 59.6%	
State University				
<b>Total</b> Equity Fixed Income Cash	<b>\$46,097,400</b> \$18,682,745 \$27,023,209 \$391,445	Equity 40.5%	Fixed Income 59.5%	
Common School				
<b>Total</b> Equity Fixed Income Cash	<b>\$259,037,357</b> \$104,331,132 \$152,320,668 \$2,385,557	Equity 40.3%	Fixed Income 59.7%	
American Indian Scho	olarship Endowment Fund (AIS	SEF)		
<b>Total</b> Fixed Income Cash	<b>\$327,358</b> \$304,268 \$23,090	Fi		ash .1%

Permanent Fund	Quarter Endeo	d December 31, 2			
Total Returns					
	Qtr.	1 Year	3 Year	5 Year	10 Year
Agricultural	8.82%	13.03%	1.47%	5.85%	4.99%
Custom Benchmark	8.75%	12.33%	0.81%	5.46%	4.82%
Normal School	8.82%	13.20%	1.52%	5.88%	5.00%
Custom Benchmark	8.75%	12.33%	0.81%	5.46%	4.81%
Scientific Permanent	8.81%	13.01%	1.46%	5.85%	4.99%
Custom Benchmark	8.75%	12.33%	0.81%	5.47%	4.82%
State University	8.83%	13.14%	1.52%	5.88%	5.00%
Custom Benchmark	8.75%	12.33%	0.81%	5.47%	4.81%
Common School	8.82%	13.15%	1.50%	5.86%	4.99%
Custom Benchmark	8.75%	12.33%	0.81%	5.46%	4.80%
AISEF	6.70%	5.87%	-2.65%	1.64%	2.02%
Custom Benchmark	6.82%	5.53%	-3.31%	1.01%	1.72%
Equity Returns					
	Qtr.	1 Year	3 Year	5 Year	10 Year
Agricultural	11.46%	23.66%	7.66%	12.41%	9.92%
Normal School	11.46%	23.66%	7.66%	12.41%	9.92%
cientific Permanent	11.46%	23.66%	7.66%	12.41%	9.92%
itate University	11.46%	23.66%	7.66%	12.41%	9.92%
Common School	11.46%	23.66%	7.66%	12.41%	9.92%
Custom Benchmark	11.63%	22.98%	6.78%	12.77%	10.13%
Fixed Income Returns					
	Qtr.	1 Year	3 Year	5 Year	10 Year
Agricultural	7.10%	5.96%	-2.88%	1.68%	2.08%
Normal School	7.10%	5.96%	-2.88%	1.68%	2.08%
cientific Permanent	7.10%	5.96%	-2.88%	1.68%	2.08%
itate University	7.10%	5.96%	-2.88%	1.68%	2.08%
Common School	7.10%	5.96%	-2.88%	1.68%	2.08%
AISEF	7.10%	5.96%	-2.88%	1.68%	2.08%
Bloomberg Aggregate	6.82%	5.53%	-3.31%	1.10%	1.81%
Cash Returns					
	Qtr.	1 Year	3 Year	5 Year	10 Year
AISEF	1.33%	5.01%	2.16%	1.79%	1.17%
90 Day Tbill	1.39%	5.15%	2.21%	1.92%	1.28%

Total Return Benchmarks (except AISEF): 60% Bloomberg Aggregate and 40% MSCI World IMI w/ U.S. gross and a mix of historical blends. AISEF Total Return Benchmark: 100% Bloomberg Aggregate and historical blends. Equity Benchmark: MSCI World IMI w/ U.S. Gross and historical blends.

# GET and DDETF Market Values and Performance

## **Guaranteed Education Tuition (GET)**

<b>Total</b> Equity Fixed Income Cash	<b>\$1,668,125,430</b> \$704,760,778 \$957,264,212 \$6,100,440	Equ 42.2		Fixed Income and Cash 57.8%	
	Qtr.	1 Year	3 Year	5 Year	10 Year
Total	7.95%	13.18%	1.86%	7.24%	5.39%
Passive Benchmark	7.87%	12.88%	1.67%	7.01%	5.20%
Inflation CPI + 3.25%	1.25%	6.55%	8.88%	7.34%	6.03%
Equity	11.26%	22.18%	6.07%	11.92%	8.20%
Custom Benchmark	11.23%	21.94%	5.74%	11.81%	8.09%
Fixed Income	5.69%	7.35%	-1.11%	2.78%	2.69%
Custom Benchmark	5.60%	6.94%	-1.28%	2.44%	2.43%

## Developmental Disabilities Endowment Trust Fund (DDETF)

<b>Private Total</b> Balanced Fund Cash	<b>\$100,410,952</b> \$100,401,060 \$9,892	Balanced Fund 100.0%			
<b>State Total</b> Equity Fixed Income Cash	<b>\$13,889,867</b> \$4,983,646 \$8,904,468 \$1,753	Equity 35.9%		Fixed Income and 64.1%	Cash
Total Private	Qtr. 10.02%	1 Year 17.62%	3 Year 3.76%	5 Year 9.61%	10 Year 7.73%
Balanced Fund	9.99%	17.59%	3.74%	9.61%	7.73%
Balanced Fund Benchmark	9.99%	17.69%	3.98%	9.96%	7.96%
Total State	7.62%	12.68%	1.51%	6.29%	4.38%
Inflation CPI	0.45%	3.30%	5.63%	4.09%	2.78%
State Equity	11.26%	22.78%	5.97%	11.94%	8.27%
Custom Benchmark	11.23%	21.94%	5.74%	11.81%	8.13%
State Fixed Income	5.69%	7.35%	-1.11%	2.76%	2.68%
Custom Benchmark	5.60%	6.94%	-1.28%	2.44%	2.43%

GET Benchmarks: Equity: MSCI ACWI IMI w/U.S. Gross and a historical blend, Fixed Income: Bloomberg Intermediate Credit and a historical blend. DDETF Balanced Fund benchmark: 60% CRSP U.S. Total Market Index & 40% Bloomberg U.S. Aggregate and a historical blend.

DDETF State Benchmarks: Equity: MSCI ACWI IMI w/U.S. Gross and a historical blend, Fixed Income: Bloomberg Intermediate Credit and a historical blend.

# VFFRO and LTSS Market Values and Performance

Quarter Ended December 31, 2023

Volunteer Firefighters' and Reserve Officers' Relief Fund (VFFRO)

<b>VFF Total</b> Equity Fixed Income Cash	<b>\$239,835,737</b> \$172,136,424 \$66,222,647 \$1,476,666		Equity 71.8%		Fixed Income and Cash 28.2%
<b>RO Total</b> Equity Fixed Income Cash	<b>\$3,653,326</b> \$2,621,665 \$1,008,467 \$23,195		Equity 71.8%		Fixed Income and Cash 28.2%
VFF Total	Qtr. 9.60%	1 Year 17.60%	3 Year <b>0.03%</b>	5 Year 3.52%	Since Inception 7.77%
Custom Benchmark	9.56%	17.39%	0.75%	4.67%	6.75%
VFF Equity MSCI ACWI IMI w/ U.S. Gross	<b>11.25%</b> 11.23%	<b>21.90%</b> 21.94%	<b>N/A</b>	N/A	<b>0.21%</b>
VFF Fixed Income	<b>5.69%</b>	<b>7.35%</b>	N/A	N/A	- <b>0.93%</b>
Bloomberg Intermediate Credit	5.60%	6.94%	N/A	N/A	-1.28%
RO Total	9.63%	N/A	N/A	N/A	4.11%
Custom Benchmark	9.56%	N/A	N/A	N/A	3.76%
RO Equity	11.24%	N/A	N/A	N/A	4.03%
MSCI ACWI IMI w/ U.S. Gross	11.23%	N/A	N/A	N/A	3.54%
RO Fixed Income	5.69%	N/A	N/A	N/A	4.10%
Bloomberg Intermediate Credit	5.60%	N/A	N/A	N/A	4.07%

## Long-Term Services and Supports Trust Account (LTSS)

LTSS Total	\$231, <mark>308,8</mark> 52	
Fixed Income	\$231,308,852	Fixed Income
		100.0%

Note: Per policy, LTSS performance will not be stated until the account reaches \$250 million

VFF & RO Total Fund benchmark: 30% Bloomberg Intermediate Credit & 70% MSCI ACWI IMI w/U.S. Gross and a historical blend. Since Inception for VFF: Total 7/1/92, Equity 11/23/21, Fixed Income 11/22/21. Since Inception for RO: Total, Equity, and Fixed Income 8/1/23. Since Inception for LTSS: Fixed Income 11/20/23.

M wsos			Quart	er Ended December 31, 2023
,	tunities Scholarship (WSOS	) Private and State	Match Assets (\$ Millio	ns)
Scholarship \$90 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$35 \$0 Endowment Private State	Student Supp \$60 \$30 \$0 State		ced Degrees Pathways Private State
Private Total Equity Fixed Income Cash	<b>\$57,756,116</b> \$17,103,407 \$40,582,778 \$69,932	Equity 29.6%	Fixed Incon 70.	
<b>State Match Total</b> Cash	<b>\$0</b> \$0			
Endowment				
<b>Private Total</b> Equity Fixed Income Cash	<b>\$6,824,729</b> \$5,554,752 \$1,268,579 \$1,399		Equity 81.4%	Fixed Income and Cash 18.6%
<b>State Match Total</b> Cash	<b>\$623,856</b> \$623,856			
Student Support Pathwa	ys			
<b>Private Total</b> Equity Fixed Income Cash	<b>\$26,411,755</b> \$8,531,958 \$17,762,969 \$116,829	Equity 32.3%		me and Cash 7.7%
<b>State Match Total</b> Cash	<b>\$1,862,662</b> \$1,862,662			
Advanced Degrees Pathw	vays			
<b>Private Total</b> Equity Fixed Income Cash	<b>\$463,308</b> \$153,133 \$308,324 \$1,851	Equity 33.1%		me and Cash 6.9%
<b>State Match Total</b> Cash	<b>\$365,484</b> \$365,484			

WSOS • Performance					ded December 31, 202
Total Returns					
	Qtr.	1 Year	3 Year	5 Year	Since Inception
Scholarship					
Private	7.26%	11.47%	1.03%	5.14%	4.72%
Private Benchmark	7.31%	11.38%	0.95%	5.03%	4.68%
State Match	N/A	N/A	N/A	0.47%	0.56%
State Match Benchmark	1.39%	5.15%	2.21%	1.92%	1.40%
Endowment					
Private	10.13%	18.91%	4.48%	9.32%	6.94%
Private Benchmark	10.12%	18.90%	4.44%	10.07%	7.28%
State Match	1.33%	5.01%	2.16%	1.79%	1.29%
State Match Benchmark	1.39%	5.15%	2.21%	1.92%	1.40%
Student Support Pathways					
Private	7.39%	11.64%	1.15%	N/A	3.69%
Private Benchmark	7.31%	11.38%	0.95%	N/A	3.24%
State Match	1.33%	5.01%	2.16%	N/A	1.71%
State Match Benchmark	1.39%	5.15%	2.21%	N/A	1.82%
Advanced Degrees Pathways					
Private	7.43%	11.74%	4.27%	N/A	4.03%
Private Benchmark	7.31%	11.38%	4.19%	N/A	3.97%
State Match	1.33%	5.01%	N/A	N/A	2.32%
State Match Benchmark	1.39%	5.15%	N/A	N/A	2.37%
Equity Returns					
	Qtr.	1 Year	3 Year	5 Year	Since Inception
Scholarship	11.19%	21.94%	5.75%	11.76%	8.45%
Endowment	11.19%	21.92%	5.74%	11.94%	8.44%
Student Support Pathways	11.19%	21.89%	5.71%	N/A	9.59%
Advanced Degree Pathways	11.19%	21.89%	N/A	N/A	22.81%
MSCI ACWI IMI w/ U.S. Gross	11.23%	21.94%	5.74%	11.81%	
Fixed Income Returns					
	Qtr.	1 Year	3 Year	5 Year	Since Inception
Scholarship	5.69%	7.35%	-1.11%	2.75%	2.61%
Endowment	5.69%	7.35%	-1.11%	2.76%	2.61%
Student Support Pathways	5.69%	7.35%	-1.09%	N/A	1.26%
Advanced Degree Pathways	5.69%	7.34%	N/A	N/A	6.70%
Bloomberg Intermediate Credit	5.60%	6.94%	-1.28%	2.44%	

Scholarship and Student Support Pathways Benchmarks: Private 30% MSCI ACWI IMI w/U.S. Gross & 70% Bloomberg Intermediate Credit, State Match 90 Day Tbill. Endowment Benchmarks: Private 80% MSCI ACWI IMI w/U.S. Gross & 20% Bloomberg Intermediate Credit, State Match 90 Day Tbill. Advanced Degrees Pathways Benchmarks: Private 30% MSCI ACWI IMI w/U.S. Gross & 70% Bloomberg Intermediate Credit, State Match 90 Day Tbill.

Since Inception for Scholarship and Endowment: Private 10/1/14, State Match 11/25/14.

Since Inception for Student Support Pathways: Private and State Match 11/27/19.

Since Inception for Advanced Degree Pathways: Private 10/30/20 and State Match 3/19/21.