

Fiscal Year 2024 Investment Performance (unaudited)

SOUTH DAKOTA RETIREMENT SYSTEM SOUTH DAKOTA INVESTMENT COUNCIL

AUGUST 20, 2024

Capital Markets Benchmark Return and Market Index Components

		1st qtr	2nd qtr	3rd qtr	4th qtr	FY 2024
Capital Markets Benchmark		-3.3%	10.4%	4.7%	1.8%	13.8%
Benchmark Components	<u>Weights</u>					
Public Equity Public Equity Benchmark (MSCI AC IMI 3/4 + MSCI IMI US 1/4)	56%	-3.2%	11.3%	8.7%	2.9%	20.5%
Real Estate MSCI REITS	12%	-7.0%	16.0%	-0.3%	0.1%	7.6%
High Yield Debt FTSE High Yield	7 %	0.7%	6.9%	1.5%	1.2%	10.6%
Investment Grade Debt FTSE US Broad Investment Grade	23%	-3.2%	6.8%	-0.8%	0.1%	2.7%
Cash FTSE 3 mo Treasury bills	2%	1.4%	1.4%	1.4%	1.4%	5.6%
Time weighted rate-of-return						

Time weighted rate-of-return



Actual to Benchmark Allocation Comparison June 30, 2024

	Actual Asset	Benchmark Asset		Permissible
	Allocation	<u>Allocation</u>	<u>Difference</u>	<u>Range</u>
Public Equity	21%	56%	-35%	20% to 75%
Real Estate - Core/REITS	0%	12%	-12%	0% to 20%
High Yield Corporate Debt	4%	7%	-3%	0% to 15%
Investment Grade Debt	13%	23%	-10%	13% to 60%
Cash	37%	2%	35%	0% to 45%
Private Equity	11%	0%	11%	0% to 12%
Opportunistic Real Estate	12%	0%	12%	0% to 15%
High Yield Real Estate Debt	0%	0%	0%	0% to 10%
Hedge Fund	1%	0%	1%	0% to 5%
Other Categories	0%	0%	0%	0% to 5%
Equity Like Risk	50.3%	70%	-19.7%	40% to 85%



SDRS Performance Attribution Fiscal Year 2024

SDRS Total Fund Return	6.02%	Portfolio Added Value (Alpha)	
Capital Markets Benchmark Return	13.81%	Public Equity	-0.66%
Difference	7.79%	Investment Grade Debt	0.01%
		Cash	-0.07%
Primary Asset Allocation		High Yield Debt	-0.19%
Equity-Like Risk	-3.74%	Real Estate	-2.06%
Bond-Like Risk	-0.33%	Private Equity	-1.42%
Cash-Like Risk	1.64%	Hedge Fund	-0.03%
Total Primary Asset Allocation	-2.43%	Short S&P 500 Futures	-0.41%
		Total Portfolio Added Value (Alpha)	-4.82%
Secondary Asset Allocation			
High Yield Debt	0.03%	Total Explained Difference	-7.59%
Real Estate	-0.36%		
Total Secondary Asset Allocation	-0.34%	Other - interperiod trading/rounding	-0.19%
Total Asset Allocation	-2.77%	Total Difference	-7.79%



SDRS Performance Attribution History

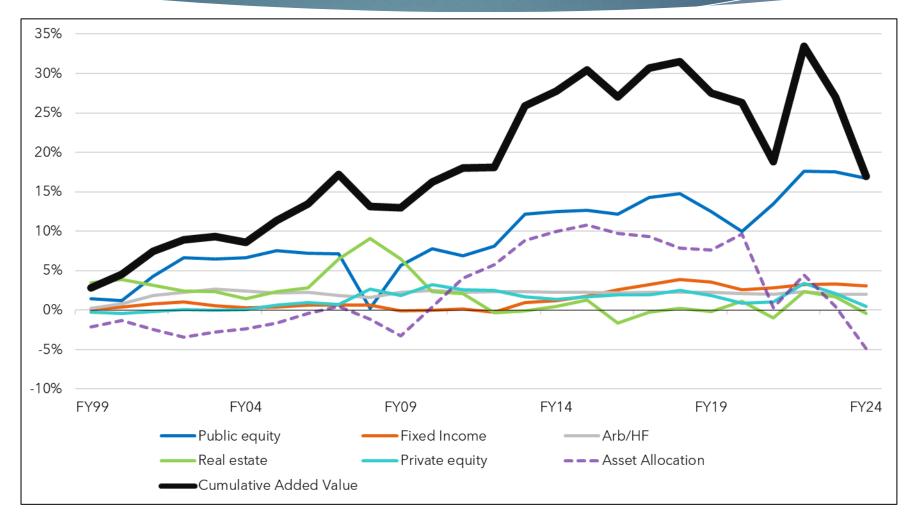
	FY 2024	FY 2023	FY 2022	FY 2021	FY 2020	5 yr Ann	<u>10 yr Ann</u>	20 yr Ann	26 yr Ann
SDRS Total Return*	6.02%	5.84%	-0.69%	22.03%	1.59%	6.68%	6.40%	7.88%	7.49%
Capital Markets Return	13.81%	10.65%	-13.02%	27.97%	2.52%	7.52%	6.85%	7.16%	6.69%
Difference	-7.79%	-4.82%	12.33%	-5.94%	-0.93%	-0.85%	-0.45%	0.72%	0.80%
SDRS Total Return (Net)	6.02%	5.84%	-0.69%	22.03%	1.59%	6.68%	6.40%	7.67%	7.28%
Capital Markets Return**	<u>13.81%</u>	10.65%	<u>-13.02%</u>	27.97%	2.52%	7.52%	6.85%	<u>7.17%</u>	6.56%
Difference	-7.79%	-4.82%	12.33%	-5.94%	-0.93%	-0.85%	-0.45%	0.50%	0.72%
Primary Asset Allocation									
Equity Like Risk	-3.74%	-3.35%	2.52%	-6.90%	2.38%	-1.89%	-1.24%	-0.34%	-0.24%
Bond Like Risk	-0.33%	0.04%	1.19%	0.02%	-0.75%	0.03%	-0.10%	-0.18%	-0.17%
Cash Like Risk	<u>1.64%</u>	<u>1.04%</u>	0.05%	0.02%	0.37%	0.62%	0.41%	0.21%	<u>0.15%</u>
Total Primary Asset Alloc	-2.43%	-2.27%	3.76%	-6.86%	2.00%	-1.23%	-0.93%	-0.32%	-0.26%
Secondary Asset Allocation									
High Yield Debt	0.03%	0.00%	0.02%	-0.02%	-0.13%	-0.02%	0.03%	0.13%	0.11%
Real Estate	<u>-0.36%</u>	<u>-0.62%</u>	0.24%	<u>-0.01%</u>	<u>-0.37%</u>	<u>-0.23%</u>	<u>-0.01%</u>	<u>-0.04%</u>	<u>-0.09%</u>
Total Secondary Asset Alloc	-0.34%	-0.63%	0.26%	-0.03%	-0.50%	-0.26%	0.05%	0.11%	-0.01%
Total Asset Allocation	-2.77%	-2.90%	4.02%	-6.89%	1.50%	-1.49%	-0.88%	-0.21%	-0.27%
Portfolio Added Value									
Public Equity	-0.66%	-0.13%	3.68%	3.17%	-2.22%	0.74%	0.37%	0.45%	0.60%
Investment Grade Debt	0.01%	-0.08%	0.08%	-0.17%	0.06%	-0.02%	0.00%	0.05%	0.05%
Cash	-0.07%	0.10%	0.02%	-0.01%	-0.06%	0.00%	0.00%	0.00%	0.00%
High Yield Debt	-0.19%	0.00%	0.32%	0.42%	-0.90%	-0.07%	0.19%	0.08%	0.05%
Real Estate	-2.06%	-0.69%	3.35%	-2.02%	1.25%	-0.06%	-0.10%	-0.10%	-0.15%
Private Equity	-1.42%	-1.28%	2.32%	0.18%	-0.92%	-0.23%	-0.07%	0.03%	0.03%
Hedge Fund	-0.03%	-0.27%	0.29%	-0.05%	-0.14%	-0.04%	-0.02%	0.00%	0.00%
Short S & P 500 Futures	<u>-0.41%</u>	<u>-0.15%</u>	<u>-1.50%</u>	<u>0.16%</u>	<u>-0.60%</u>	<u>-0.50%</u>	<u>-0.47%</u>	<u>-0.25%</u>	<u>-0.22%</u>
Total Portfolio Alpha difference	-4.82%		8.56%		-3.53%		-0.10%	0.25%	0.45%
Other	-0.19%	0.57%	-0.25%	-0.73%	1.10%	0.83%	0.53%	0.46%	0.54%
Total Difference * Net FY 2014-24 Gross pre-FY 2014	-7.79%	-4.82%	12.33%	-5.94%	-0.93%	-0.85%	-0.45%	0.50%	0.72%

^{*} Net FY 2014-24, Gross pre-FY 2014



^{**} Net applies current benchmark methodology to pre-FY 2014

Many Pistons Contribute Cumulative Added Value by Source





Comparison to Peer Universes

Annualized Returns

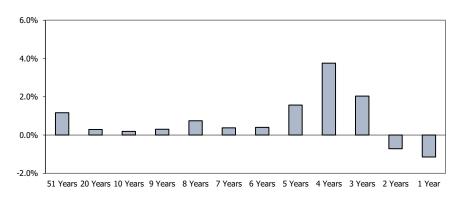
	1 Year	3 Year	5 Year	10 Year	30 Year
SDRS (net)	6.02%	3.67%	6.68%	6.40%	8.60%
SDRS (gross)	6.47%	4.10%	7.10%	6.79%	8.96%
State Fund (net) - PRELIMINARY	9.26%	3.98%	8.50%	7.60%	8.00%
Wilshire TUCS (gross)	10.50%	3.20%	7.57%	6.97%	n/a



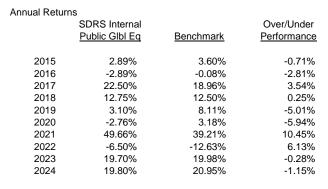
Internal Public Global Equity Return Comparison

Annualized Over/Under SDRS Internal Public Glbl Eq Benchmark **Performance** 51 Years 11.68% 10.51% 1.17% 20 Years 9.51% 9.21% 0.29% 10 Years 10.75% 10.56% 0.20% 9 Years 11.66% 11.36% 0.31% 13.63% 8 Years 12.88% 0.75% 7 Years 12.41% 12.03% 0.38% 6 Years 12.36% 11.95% 0.40% 5 Years 14.31% 12.74% 1.57% 4 Years 19.02% 15.26% 3.76% 3 Years 10.27% 8.24% 2.04% 2 Years 19.75% 20.47% -0.71% 1 Year 20.95% -1.15% 19.80%

SDRS Internal Public Global Equity Over/Under Performance Chart



SDRS Internal Public Global Equity Over/Under Performance Chart

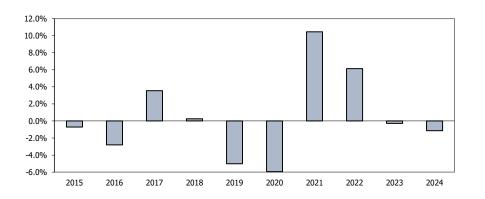


^{*} Equity - Composite History

1973 - 1991 is domestic equity only

1992 - 2004 is a combined domestic and international composite

2005 - 2024 internal public global equity (small/mid, gem and high quality not included)



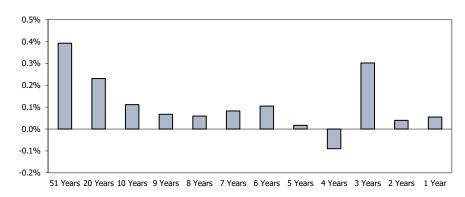


Internal Investment Grade Debt Return Comparison

Annualized

	SDRS IG Debt	<u>Benchmark</u>	Over/Under Performance
51 Years	7.03%	6.64%	0.39%
20 Years	3.54%	3.31%	0.23%
10 Years	1.46%	1.35%	0.11%
9 Years	1.36%	1.29%	0.07%
8 Years	0.78%	0.72%	0.06%
7 Years	0.95%	0.87%	0.08%
6 Years	1.19%	1.09%	0.10%
5 Years	-0.21%	-0.23%	0.02%
4 Years	-2.49%	-2.40%	-0.09%
3 Years	-2.82%	-3.12%	0.30%
2 Years	0.86%	0.83%	0.04%
1 Year	2.71%	2.66%	0.05%

SDRS Investment Grade Debt Over/Under Performance Chart



Annual Returns

	SDRS IG Debt	Benchmark	Over/Under Performance
0045	0.000/	4.070/	0.540/
2015	2.38%	1.87%	0.51%
2016	6.12%	5.98%	0.14%
2017	-0.39%	-0.28%	-0.11%
2018	-0.49%	-0.45%	-0.05%
2019	8.49%	7.91%	0.58%
2020	9.46%	8.96%	0.49%
2021	-1.50%	-0.21%	-1.29%
2022	-9.78%	-10.55%	0.77%
2023	-0.95%	-0.97%	0.02%
2024	2.71%	2.66%	0.05%

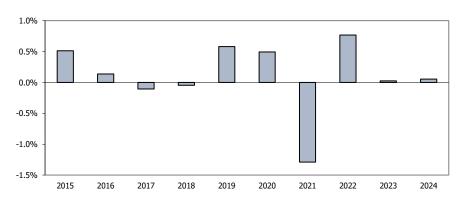
^{*} Fixed Income - History

1973 - 2006 is investment grade & high yield managed together

2007 - 2010 is 80% investment grade portfolio + 20% high yield portfolio

2011 - 2024 is investment grade portfolio only

SDRS Investment Grade Debt Over/Under Performance Chart



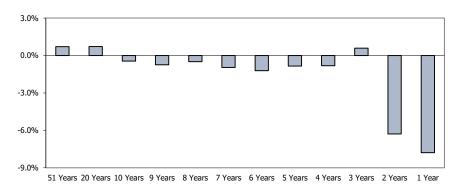


Total Fund Return Comparison

Annualized

		SDRS	
	SDRS	Capital Markets	Over/Under
	Total Fund	<u>Benchmark</u>	Performance
51 Years	9.89%	9.17%	0.71%
20 Years	7.88%	7.16%	0.72%
10 Years	6.40%	6.85%	-0.45%
9 Years	6.65%	7.39%	-0.74%
8 Years	7.47%	7.97%	-0.50%
7 Years	6.60%	7.55%	-0.95%
6 Years	6.37%	7.59%	-1.21%
5 Years	6.68%	7.52%	-0.85%
4 Years	7.99%	8.81%	-0.82%
3 Years	3.67%	3.08%	0.59%
2 Years	5.93%	12.22%	-6.29%
1 Year	6.02%	13.81%	-7.79%

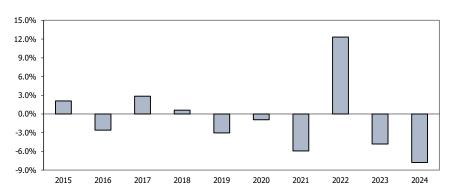
SDRS Total Fund Over/Under Performance Chart



Annual Returns

		SDRS	
	SDRS	Capital Markets	Over/Under
	Total Fund	<u>Benchmark</u>	<u>Performance</u>
2015	4.18%	2.09%	2.09%
2016	0.30%	2.88%	-2.59%
2017	13.81%	10.96%	2.85%
2018	7.94%	7.33%	0.61%
2019	4.88%	7.91%	-3.03%
2020	1.59%	2.52%	-0.93%
2021	22.03%	27.97%	-5.94%
2022	-0.69%	-13.02%	12.33%
2023	5.84%	10.65%	-4.82%
2024	6.02%	13.81%	-7.79%

SDRS Total Fund Over/Under Performance Chart



^{2014 - 2024} is net-of-fee.



^{*} Total Fund Return History

^{1973 - 2013} is gross-of-fee