



Investment Performance FY 2022

Trust Funds

South Dakota Investment Council

August 23, 2022

Capital Markets Benchmark Return and Market Index Components

	<u>1st qtr</u>	<u>2nd qtr</u>	<u>3rd qtr</u>	<u>4th qtr</u>	<u>FY 2022</u>
Capital Markets Benchmark	-0.2%	5.2%	-5.2%	-12.1%	-12.6%
<u>Benchmark Components</u>					
	<u>Weights</u>				
<i>Public Equity</i>	51%				
Public Equity Benchmark (MSCI AC IMI 3/4 + MSCI IMI US 1/4)	-0.8%	6.9%	-5.4%	-16.1%	-15.9%
<i>Real Estate</i>	10%				
MSCI REITS	1.0%	16.3%	-4.1%	-16.9%	-6.4%
<i>High Yield Debt</i>	7%				
FTSE High Yield	0.9%	0.7%	-4.4%	-9.9%	-12.4%
<i>Investment Grade Debt</i>	30%				
FTSE US Broad Investment Grade	0.0%	0.0%	-6.0%	-4.8%	-10.6%
<i>Cash</i>	2%				
FTSE 3 mo Treasury bills	0.0%	0.0%	0.0%	0.1%	0.2%

Time weighted rate-of-return

Actual to Benchmark Allocation Comparison - June 30, 2021

	<u>Actual Asset Allocation</u>	<u>Benchmark Asset Allocation</u>	<u>Difference</u>	<u>Permissible Range</u>
Public Equity	22%	51%	-29%	75% to 18%
Real Estate REIT/Core	0%	10%	-10%	20% to 2%
High Yield Corporate Debt	4%	7%	-3%	15% to 0%
Investment Grade Debt	14%	30%	-16%	50% to 13%
Cash	41%	2%	39%	50% to 0%
Private Equity	8%	0%	8%	11% to 0%
Opportunistic Real Estate	10%	0%	10%	14% to 0%
High Yield Real Estate Debt	1%	0%	1%	10% to 0%
US Treasury TIPS	0%	0%	0%	10% to 0%
Commodity	0%	0%	0%	5% to 0%
Equity Like Risk	45%	63%	-18%	77% to 36%

Total Portfolio Performance Attribution Dakota Cement Trust to CMB

DCT Total Fund Return	-1.67%
Capital Markets Benchmark Return	<u>-12.62%</u>
Difference	<u>10.95%</u>

Primary Asset Allocation

Equity-Like Risk	2.23%
Bond-Like Risk	1.75%
Cash-Like Risk	<u>0.06%</u>
Total Primary Asset Allocation	4.04%

Secondary Asset Allocation

Global Equity	N/A
Investment Grade Debt	N/A
Cash	N/A
REITS / Core	-1.03%
High Yield Corporate Debt	0.01%
High Yield Corporate Debt-Internal	N/A
High Yield Real Estate Debt	0.02%
High Yield RE Debt aggressive	-0.01%
Real Estate Opportunistic	1.21%
Private Equity	N/A
Hedge Fund	N/A
Short S&P 500 Futures	<u>N/A</u>
Total Secondary Asset Allocation	0.20%

Total Asset Allocation	4.24%
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Portfolio Added Value (Alpha)

Global Equity	1.85%
Investment Grade Debt	0.14%
Cash	0.00%
REITS / Core	N/A
High Yield Corporate Debt	0.14%
High Yield Distressed aggressive	N/A
High Yield Real Estate Debt	-0.02%
High Yield RE Debt aggressive	0.05%
Real Estate Opportunistic	3.19%
Private Equity	1.84%
Hedge Fund	N/A
Short S&P 500 Futures	<u>N/A</u>
Total Portfolio Added Value (Alpha)	7.17%

Total Explained Difference	11.42%
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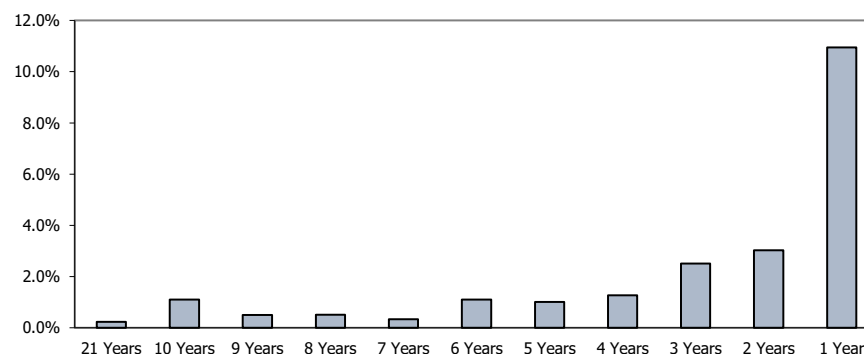
Other - interperiod trading/rounding	<u>-0.47%</u>
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Total Difference	<u>10.95%</u>
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Dakota Cement Trust Total Fund Return Comparison

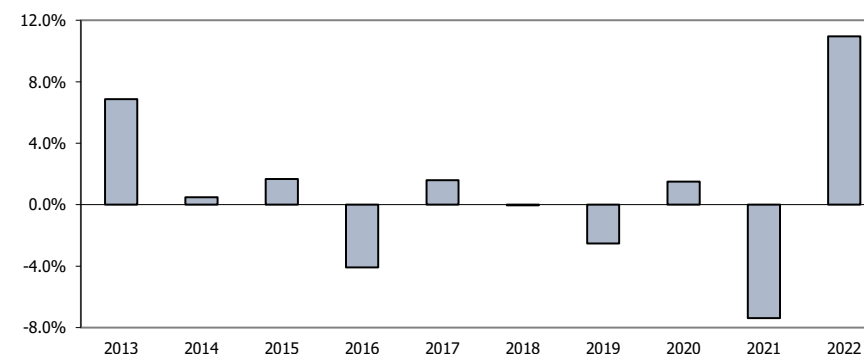
Annualized	DCT Total Fund	DCT Capital Markets Benchmark	Over/Under Performance
21 Years	6.91%	6.67%	0.23%
10 Years	8.15%	7.04%	1.10%
9 Years	7.13%	6.63%	0.50%
8 Years	6.04%	5.53%	0.50%
7 Years	6.25%	5.92%	0.33%
6 Years	7.29%	6.19%	1.10%
5 Years	6.46%	5.45%	1.01%
4 Years	6.38%	5.11%	1.27%
3 Years	6.50%	3.99%	2.51%
2 Years	7.50%	4.47%	3.03%
1 Year	-1.67%	-12.62%	10.95%

DCT Total Fund Over/Under Performance Chart



Annual Returns	DCT Total Fund	DCT Capital Markets Benchmark	Over/Under Performance
2013	17.76%	10.89%	6.87%
2014	16.25%	15.77%	0.49%
2015	4.56%	2.89%	1.67%
2016	0.21%	4.30%	-4.08%
2017	11.55%	9.96%	1.59%
2018	6.78%	6.82%	-0.04%
2019	6.03%	8.56%	-2.53%
2020	4.53%	3.03%	1.50%
2021	17.52%	24.91%	-7.39%
2022	-1.67%	-12.62%	10.95%

DCT Total Fund Over/Under Performance Chart



* Total Fund Return History
2002 - 2013 is gross-of-fee
2014 - 2022 is net-of-fee

Total Portfolio Performance Attribution Education Enhancement Trust to CMB

EET Total Fund Return	-1.54%
Capital Markets Benchmark Return	<u>-12.39%</u>
Difference	<u>10.85%</u>

Primary Asset Allocation	
Equity-Like Risk	2.22%
Bond-Like Risk	1.81%
Cash-Like Risk	<u>0.06%</u>
Total Primary Asset Allocation	4.09%

Secondary Asset Allocation	
Global Equity	N/A
Investment Grade Debt	N/A
Cash	N/A
REITS / Core	-1.03%
Tax-Exempt Debt	-0.02%
High Yield Corporate Debt	0.02%
High Yield Distressed aggressive	N/A
High Yield Real Estate Debt	0.03%
High Yield RE Debt aggressive	-0.01%
Real Estate Opportunistic	1.17%
Private Equity	N/A
Hedge Fund	N/A
Short S&P 500 Futures	<u>N/A</u>
Total Secondary Asset Allocation	0.15%

Total Asset Allocation	4.24%
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Portfolio Added Value (Alpha)	
Global Equity	1.97%
Investment Grade Debt	0.09%
Cash	0.00%
REITS / Core	N/A
Tax-Exempt Debt	0.08%
High Yield Corporate Debt	0.05%
High Yield Distressed aggressive	N/A
High Yield Real Estate Debt	-0.01%
High Yield RE Debt aggressive	0.04%
Real Estate Opportunistic	3.03%
Private Equity	1.68%
Hedge Fund	N/A
Short S&P 500 Futures	<u>N/A</u>
Total Portfolio Added Value (Alpha)	6.92%

Total Explained Difference	11.16%
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Other - interperiod trading/rounding	<u>-0.31%</u>
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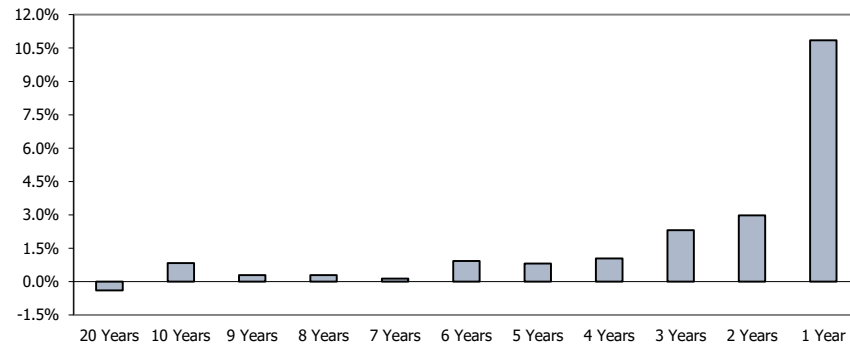
Total Difference	<u>10.85%</u>
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Education Enhancement Trust Total Fund Return Comparison

Annualized

	EET Total Fund	EET Capital Markets Benchmark	Over/Under Performance
20 Years	6.47%	6.87%	-0.40%
10 Years	7.95%	7.12%	0.83%
9 Years	6.95%	6.66%	0.29%
8 Years	5.86%	5.56%	0.29%
7 Years	6.08%	5.95%	0.13%
6 Years	7.15%	6.22%	0.93%
5 Years	6.29%	5.48%	0.81%
4 Years	6.16%	5.12%	1.04%
3 Years	6.35%	4.04%	2.31%
2 Years	7.72%	4.74%	2.98%
1 Year	-1.54%	-12.39%	10.85%

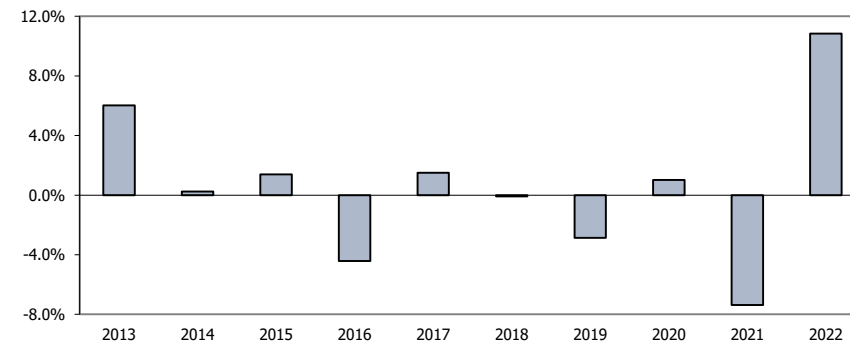
EET Total Fund Over/Under Performance Chart



Annual Returns

	EET Total Fund	EET Capital Markets Benchmark	Over/Under Performance
2013	17.32%	11.30%	6.02%
2014	16.13%	15.88%	0.24%
2015	4.31%	2.92%	1.39%
2016	-0.09%	4.33%	-4.42%
2017	11.52%	10.01%	1.51%
2018	6.82%	6.90%	-0.09%
2019	5.60%	8.46%	-2.86%
2020	3.67%	2.65%	1.02%
2021	17.85%	25.21%	-7.37%
2022	-1.54%	-12.39%	10.85%

EET Total Fund Over/Under Performance Chart



* Total Fund Return History
 2003 - 2013 is gross-of-fee
 2014 - 2022 is net-of-fee

Total Portfolio Performance Attribution Health Care Trust to CMB

HCT Total Fund Return	-2.52%
Capital Markets Benchmark Return	<u>-12.62%</u>
Difference	<u>10.10%</u>

Primary Asset Allocation

Equity-Like Risk	2.30%
Bond-Like Risk	1.75%
Cash-Like Risk	<u>0.06%</u>
Total Primary Asset Allocation	4.11%

Secondary Asset Allocation

Global Equity	N/A
Investment Grade Debt	N/A
Cash	N/A
REITS / Core	-1.03%
High Yield Corporate Debt	0.01%
High Yield Corporate Debt-Internal	N/A
High Yield Real Estate Debt	0.02%
High Yield RE Debt aggressive	-0.01%
Real Estate Opportunistic	1.22%
Private Equity	N/A
Hedge Fund	N/A
Short S&P 500 Futures	<u>N/A</u>
Total Secondary Asset Allocation	0.21%

Total Asset Allocation	4.32%
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Portfolio Added Value (Alpha)

Global Equity	2.04%
Investment Grade Debt	0.12%
Cash	0.00%
REITS / Core	N/A
High Yield Corporate Debt	0.05%
High Yield Distressed aggressive	N/A
High Yield Real Estate Debt	0.02%
High Yield RE Debt aggressive	0.04%
Real Estate Opportunistic	2.43%
Private Equity	1.44%
Hedge Fund	N/A
Short S&P 500 Futures	<u>N/A</u>

Total Portfolio Added Value (Alpha)	6.14%
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Total Explained Difference	10.46%
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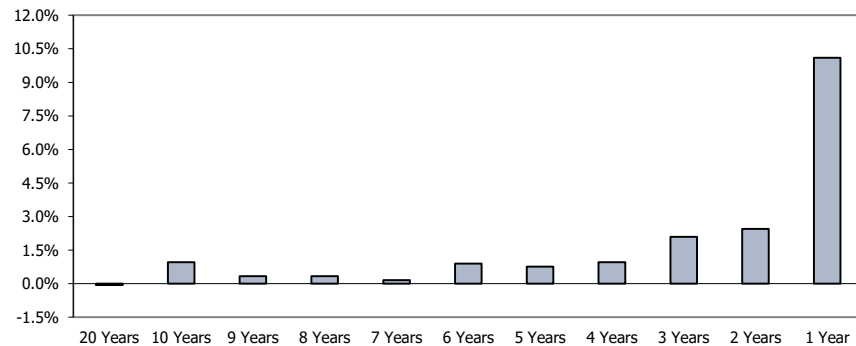
Other - interperiod trading/rounding	<u>-0.36%</u>
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Total Difference	<u>10.10%</u>
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Health Care Trust Total Fund Return Comparison

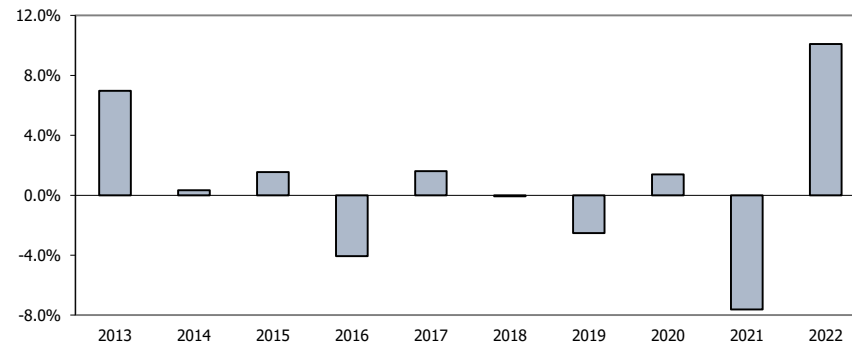
Annualized	HCT Total Fund	HCT Capital Markets Benchmark	Over/Under Performance
20 Years	6.85%	6.91%	-0.06%
10 Years	8.00%	7.04%	0.96%
9 Years	6.96%	6.63%	0.34%
8 Years	5.87%	5.53%	0.34%
7 Years	6.08%	5.92%	0.16%
6 Years	7.09%	6.19%	0.89%
5 Years	6.21%	5.45%	0.76%
4 Years	6.07%	5.11%	0.96%
3 Years	6.08%	3.99%	2.10%
2 Years	6.92%	4.47%	2.45%
1 Year	-2.52%	-12.62%	10.10%

HCT Total Fund Over/Under Performance Chart



Annual Returns	HCT Total Fund	HCT Capital Markets Benchmark	Over/Under Performance
2013	17.86%	10.89%	6.97%
2014	16.11%	15.77%	0.34%
2015	4.43%	2.89%	1.54%
2016	0.23%	4.30%	-4.07%
2017	11.58%	9.96%	1.62%
2018	6.76%	6.82%	-0.06%
2019	6.03%	8.56%	-2.53%
2020	4.43%	3.03%	1.40%
2021	17.28%	24.91%	-7.62%
2022	-2.52%	-12.62%	10.10%

HCT Total Fund Over/Under Performance Chart



* Total Fund Return History
2003 - 2013 is gross-of-fee
2014 - 2022 is net-of-fee

Total Portfolio Performance Attribution School & Public Lands to CMB

SPL Total Fund Return	-1.77%
Capital Markets Benchmark Return	<u>-12.62%</u>
Difference	<u>10.85%</u>

Primary Asset Allocation

Equity-Like Risk	2.27%
Bond-Like Risk	1.81%
Cash-Like Risk	<u>0.06%</u>
Total Primary Asset Allocation	4.14%

Secondary Asset Allocation

Global Equity	N/A
Investment Grade Debt	N/A
Cash	N/A
REITS / Core	-1.03%
High Yield Corporate Debt	0.01%
High Yield Distressed aggressive	N/A
High Yield Real Estate Debt	0.02%
High Yield RE Debt aggressive	-0.01%
Real Estate Opportunistic	1.15%
Private Equity	N/A
Hedge Fund	N/A
Short S&P 500 Futures	<u>N/A</u>
Total Secondary Asset Allocation	0.15%

Total Asset Allocation **4.29%**

Portfolio Added Value (Alpha)

Global Equity	1.98%
Investment Grade Debt	0.14%
Cash	0.00%
REITS / Core	N/A
High Yield Corporate Debt	0.05%
High Yield Distressed aggressive	N/A
High Yield Real Estate Debt	-0.01%
High Yield RE Debt aggressive	0.04%
Real Estate Opportunistic	3.00%
Private Equity	1.64%
Hedge Fund	N/A
Short S&P 500 Futures	N/A
Total Portfolio Added Value (Alpha)	6.84%

Total Explained Difference **11.13%**

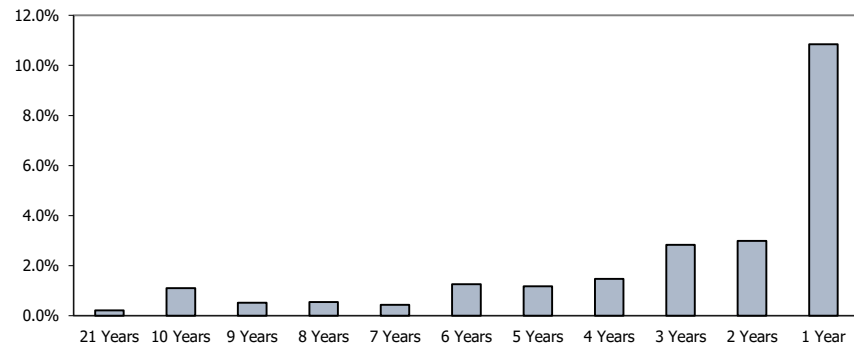
Other - interperiod trading/rounding -0.28%

Total Difference **10.85%**

School & Public Lands Total Fund Return Comparison

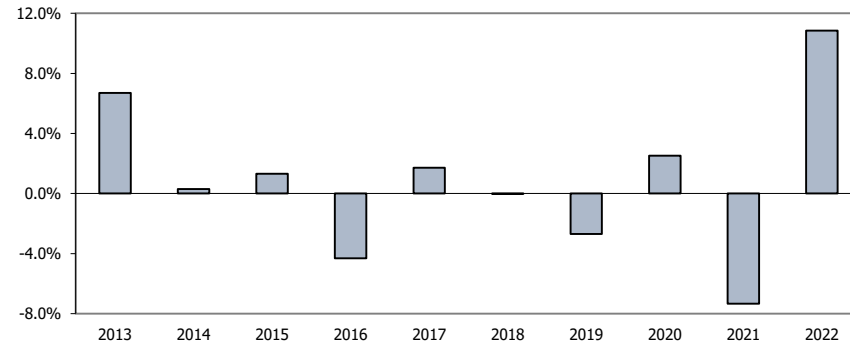
Annualized	SPL Total Fund	SPL Capital Markets Benchmark	Over/Under Performance
21 Years	6.71%	6.50%	0.21%
10 Years	8.15%	7.04%	1.10%
9 Years	7.15%	6.63%	0.52%
8 Years	6.08%	5.53%	0.55%
7 Years	6.35%	5.92%	0.43%
6 Years	7.45%	6.19%	1.26%
5 Years	6.63%	5.45%	1.17%
4 Years	6.58%	5.11%	1.47%
3 Years	6.82%	3.99%	2.83%
2 Years	7.46%	4.47%	2.99%
1 Year	-1.77%	-12.62%	10.85%

SPL Total Fund Over/Under Performance Chart



Annual Returns	SPL Total Fund	SPL Capital Markets Benchmark	Over/Under Performance
2013	17.58%	10.89%	6.70%
2014	16.07%	15.77%	0.30%
2015	4.20%	2.89%	1.31%
2016	-0.01%	4.30%	-4.31%
2017	11.68%	9.96%	1.72%
2018	6.80%	6.82%	-0.02%
2019	5.87%	8.56%	-2.69%
2020	5.55%	3.03%	2.52%
2021	17.56%	24.91%	-7.34%
2022	-1.77%	-12.62%	10.85%

SPL Total Fund Over/Under Performance Chart



* Total Fund Return History
2002 - 2013 is gross-of-fee
2014 - 2022 is net-of-fee