



**CRSP<sup>®</sup> INDEXES**  
**US MARKET UPDATE**  
APRIL 2022



**CRSP** | CENTER FOR RESEARCH  
IN SECURITY PRICES, LLC  
An Affiliate of the University of Chicago Booth School of Business

## ABOUT CRSP



Dean Lorie and Professor Lawrence Fisher  
Established CRSP in 1960

---

As an affiliate of The University of Chicago Booth School of Business, the Center for Research in Security Prices LLC (CRSP) has been driving financial innovation since its founding in 1960.

CRSP provides market participants with the world's first and most comprehensive resource for historical security prices and returns information, offering data of the highest integrity and transparency to ensure the strongest foundation for economic forecasting, stock market research and financial analysis conducted by academic organizations, investment banks, brokerage firms, corporations and government agencies.

CRSP data has led to the transformation of the world of finance, illuminating the benefits of investments in equities, providing understanding of factors such as value, size and momentum, exploring the benefits of passive investing vs. active management, and contributing to the ongoing improvement of investor outcomes and the development of the modern financial ecosystem and investment industry.

Today, nearly 500 leading academic institutions in 35 countries rely on CRSP data for academic research and to support classroom instructions.



CRSP has been producing indexes since 1966, helping academics and practitioners understand and research the trends in the financial markets. Drawing on its expertise, CRSP designed CRSP Investable Indexes to be efficient, transparent and representative benchmarks for corresponding market segments.

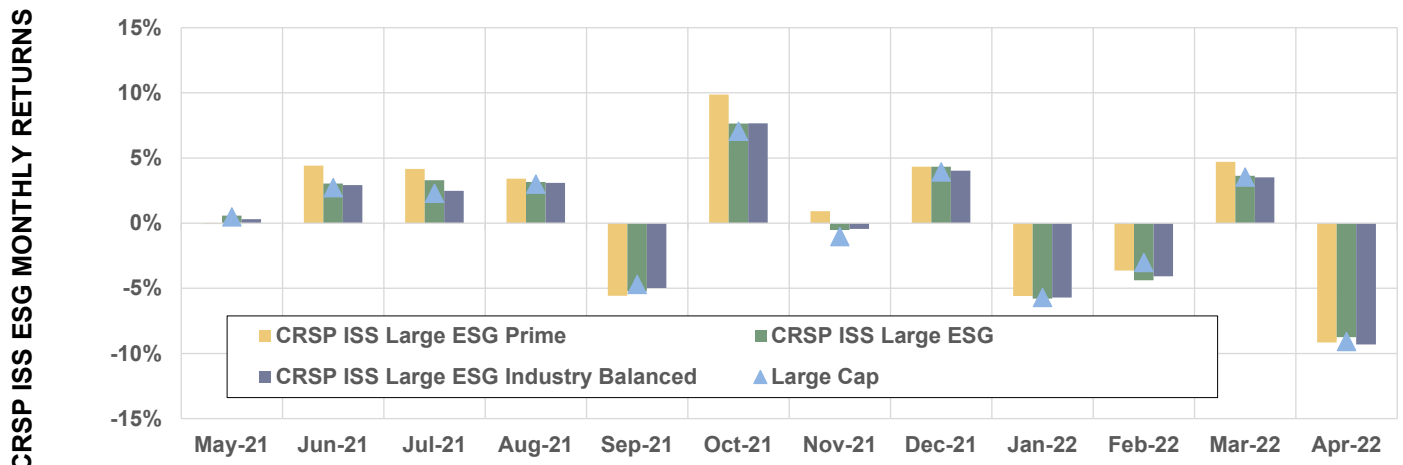
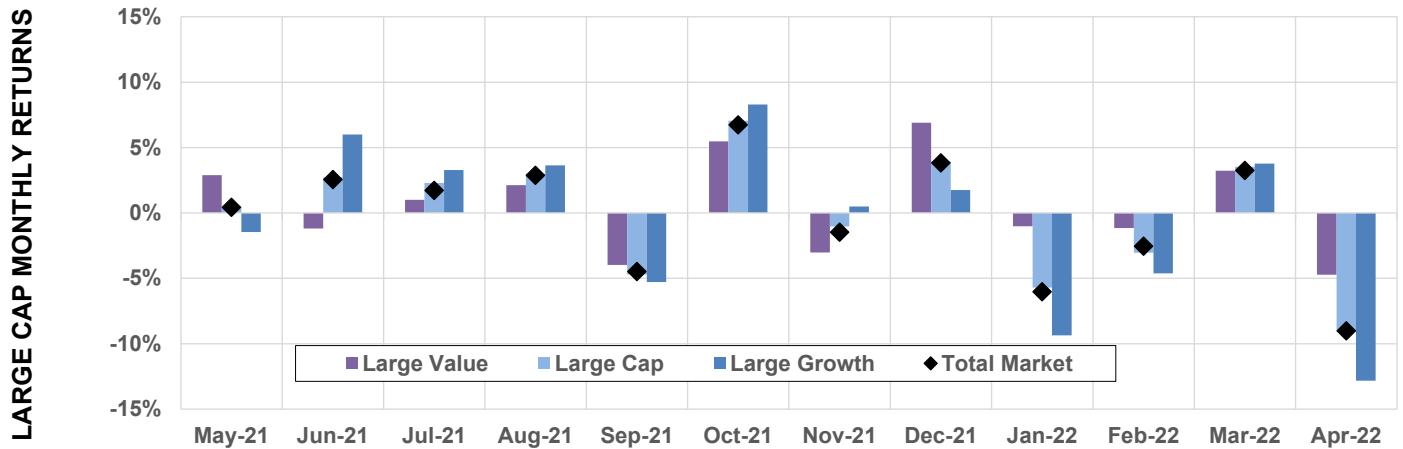


Launched in 2011, CRSP Investable Indexes are modern benchmarks that are suitable for tracking different segments of the US market, including Large and Small capitalization stocks, Value and Growth styles, as well as Industry Sectors plus ESG.

CRSP Investable Indexes blend the advancements in academic research with industry practice under the premise that an index must reflect the way that money managers actually invest.

---

# U.S. MARKET FOR THE PAST 12 MONTHS



**SECTOR INDEXES MONTHLY RETURNS**

	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22
Technology	-0.71%	7.55%	3.49%	4.83%	-6.08%	8.80%	2.48%	1.41%	-8.57%	-4.75%	2.81%	-12.93%
Telecom	1.52%	2.02%	0.10%	0.74%	-5.90%	-1.71%	-3.17%	5.72%	-6.67%	-1.65%	-0.21%	-11.82%
Health Care	0.32%	3.47%	3.46%	2.36%	-5.49%	4.25%	-4.21%	7.09%	-8.41%	-0.93%	5.14%	-6.18%
Financials	3.84%	-2.77%	-0.53%	5.25%	-1.84%	8.12%	-4.93%	2.59%	-0.88%	-1.53%	-0.21%	-10.38%
Real Estate	0.61%	2.52%	4.21%	1.78%	-5.43%	7.05%	-2.41%	9.43%	-8.29%	-3.86%	6.45%	-4.24%
Consumer Discretionary	-2.54%	2.85%	-0.34%	2.18%	-2.70%	8.47%	-0.42%	0.09%	-10.05%	-2.75%	2.94%	-12.60%
Consumer Staples	2.21%	-1.09%	1.06%	0.65%	-3.68%	2.82%	-2.13%	11.40%	0.38%	-1.00%	0.41%	2.88%
Industrials	0.95%	-0.21%	1.56%	0.60%	-5.75%	4.04%	-4.38%	6.16%	-5.31%	-3.21%	1.93%	-7.63%
Basic Materials	6.59%	-5.23%	2.44%	0.53%	-6.42%	7.64%	-1.88%	7.50%	-7.13%	2.13%	8.61%	-5.27%
Energy	6.26%	5.70%	-8.76%	-1.68%	9.05%	11.17%	-5.36%	0.97%	15.24%	7.78%	10.26%	-2.46%
Utilities	-1.84%	-1.49%	3.99%	3.58%	-5.72%	5.68%	-1.70%	8.46%	-4.06%	-1.91%	9.89%	-3.82%

Note: Data as of 4/29/2022; monthly total returns are used; CRSP US Sector Indexes monthly total returns are for constrained indexes, meaning that securities' weights within sector indexes are adjusted to comply with IRS Regulated Investment Company rules; CRSP U.S. Sector Indexes based on Enhanced FTSE ICB® (EICB) methodology are used for returns after 6/7/2020; CRSP U.S. Sector Indexes based on FTSE ICB® methodology are used for returns prior to 6/5/2020. For more details on pairing between EICB-based and ICB-based CRSP U.S. Sector Indexes refer to our [white paper](#) and [public announcement](#); Prior to 9/7/2021 the CRSP ISS ESG Indexes return series is based on a backtest

# CRSP U.S. CAP AND STYLE INDEXES PERFORMANCE

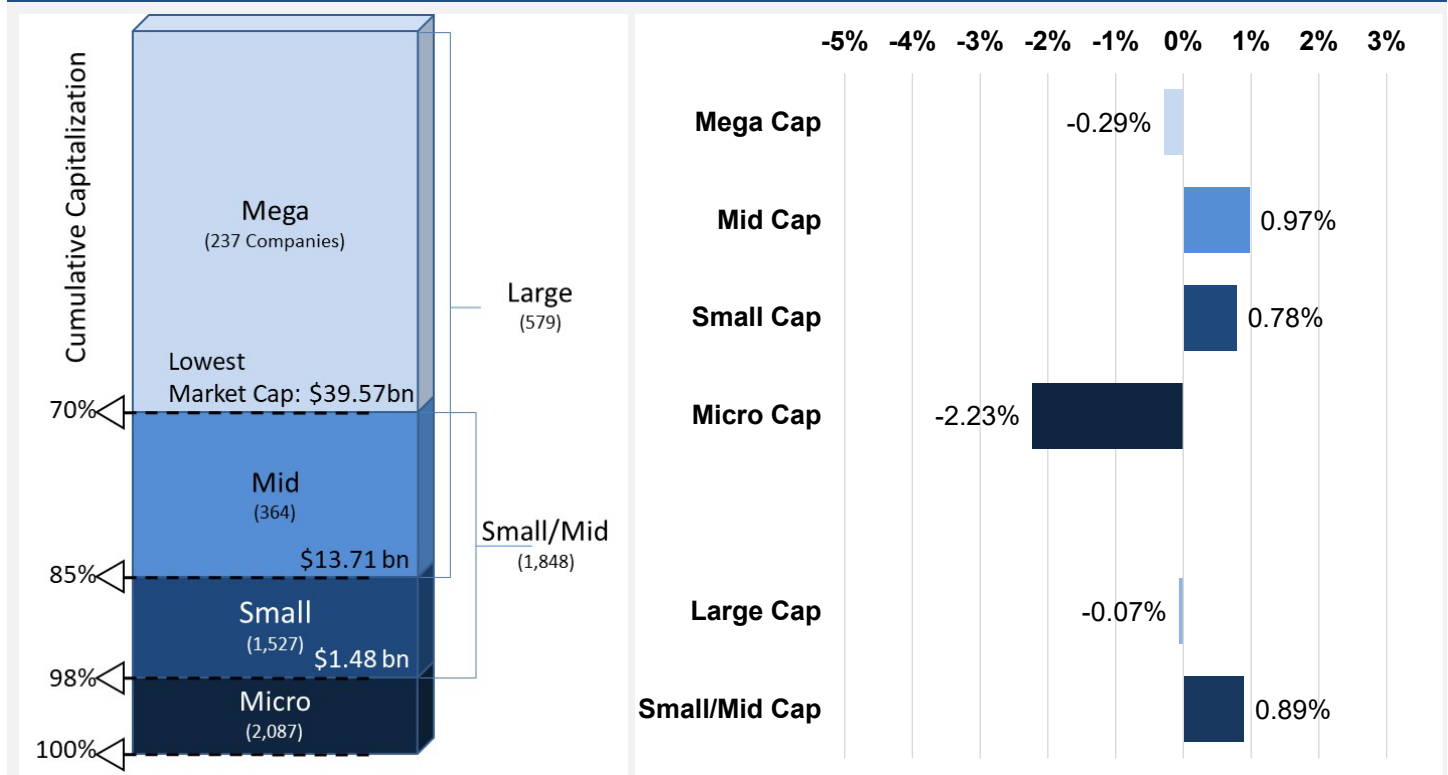
## CRSP U.S. Cap and Style Indexes Performance

Category	Index Name	Count	Float-Adjusted Market Cap (\$M)	Return for					
				1 Month	3 Months	YTD	1 Year	3 Years	5 Years
<b>Total Market</b>	CRSP U.S. Total Market	4,081	\$41,186,015	-9.02%	-8.45%	-13.97%	-3.34%	13.02%	12.98%
<b>Cap</b>	CRSP U.S. Mega Cap	237	\$29,483,810	-9.31%	-9.20%	-13.96%	-1.21%	14.19%	14.12%
	CRSP U.S. Mid Cap	364	\$6,376,593	-8.04%	-6.50%	-13.85%	-4.51%	11.13%	10.88%
	CRSP U.S. Small Cap	1,527	\$4,772,464	-8.23%	-6.08%	-13.50%	-11.20%	8.65%	9.24%
	CRSP U.S. Micro Cap	2,087	\$553,147	-11.25%	-9.98%	-19.29%	-22.54%	6.87%	7.02%
	CRSP U.S. Large Cap	579	\$35,860,404	-9.09%	-8.73%	-13.94%	-1.81%	13.71%	13.59%
	CRSP U.S. Small Mid Cap	1,848	\$11,149,058	-8.12%	-6.32%	-13.70%	-7.50%	10.02%	10.16%
<b>Value</b>	CRSP U.S. Mega Value	147	\$14,005,755	-4.85%	-3.09%	-3.91%	6.48%	11.05%	11.24%
	CRSP U.S. Mid Value	196	\$3,417,570	-4.89%	-2.32%	-4.83%	3.07%	10.86%	9.29%
	CRSP U.S. Small Value	910	\$2,876,821	-6.34%	-3.17%	-7.45%	-2.56%	9.32%	8.08%
	CRSP U.S. Large Value	343	\$17,366,101	-4.72%	-2.78%	-3.77%	5.94%	11.02%	10.95%
	CRSP U.S. Small Mid Value	1111	\$6,277,476	-5.63%	-2.48%	-5.80%	0.66%	10.20%	8.57%
<b>Growth</b>	CRSP U.S. Mega Growth	102	\$15,478,055	-12.99%	-14.15%	-21.52%	-7.48%	17.12%	16.91%
	CRSP U.S. Mid Growth	179	\$2,959,023	-11.44%	-10.93%	-22.35%	-12.02%	10.76%	12.16%
	CRSP U.S. Small Growth	719	\$1,895,643	-10.97%	-10.27%	-21.60%	-22.19%	6.46%	9.76%
	CRSP U.S. Large Growth	261	\$18,494,303	-12.83%	-13.72%	-21.80%	-8.29%	16.13%	16.14%
	CRSP U.S. Small Mid Growth	867	\$4,871,581	-11.15%	-10.90%	-22.26%	-16.41%	8.96%	11.39%

Note: Data as of 4/29/2022; returns computation is based on total returns; data for 1-, 3-, and 5-years is annualized; counts may not add up due to banding and migration, see appendix

## CRSP Breakpoints (March 2022 Ranking)

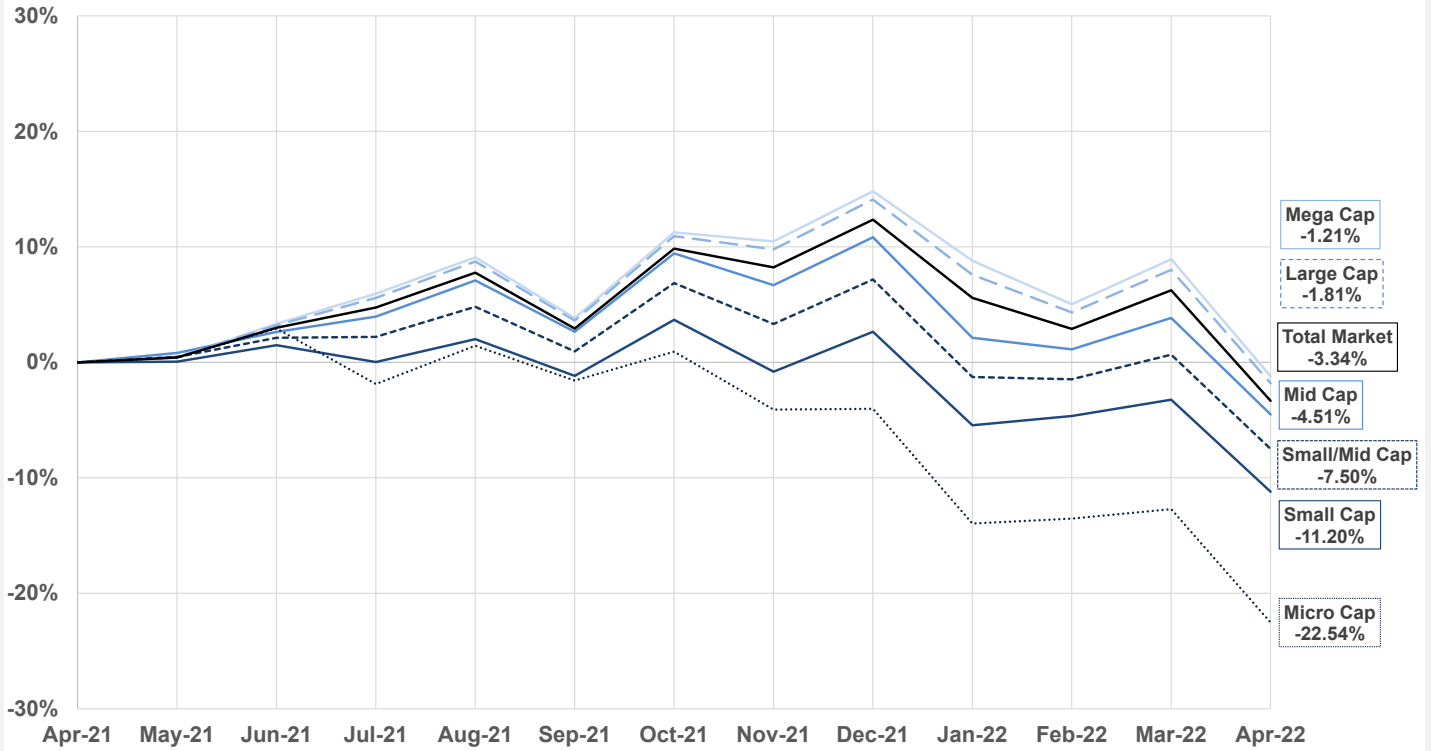
## April 2022: Performance Relative to Total Market



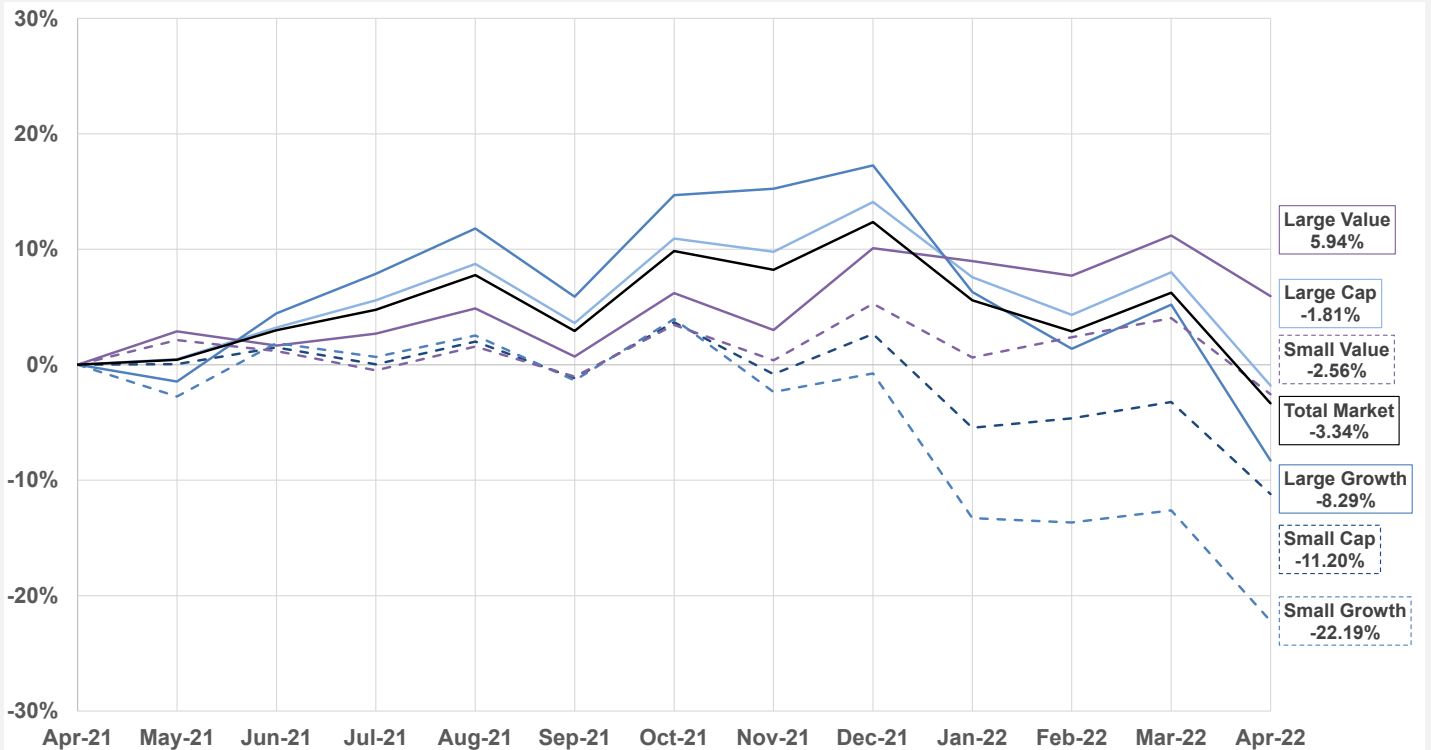
Note: Data for lowest market capitalization is based on 3/4/2022 random price date; company counts as of 4/29/2022; counts may not add up due to banding and migration, see appendix

Note: Data as of 4/29/2022; returns computation is based on total returns

## Cumulative Performance By Capitalization – Past 12 Months

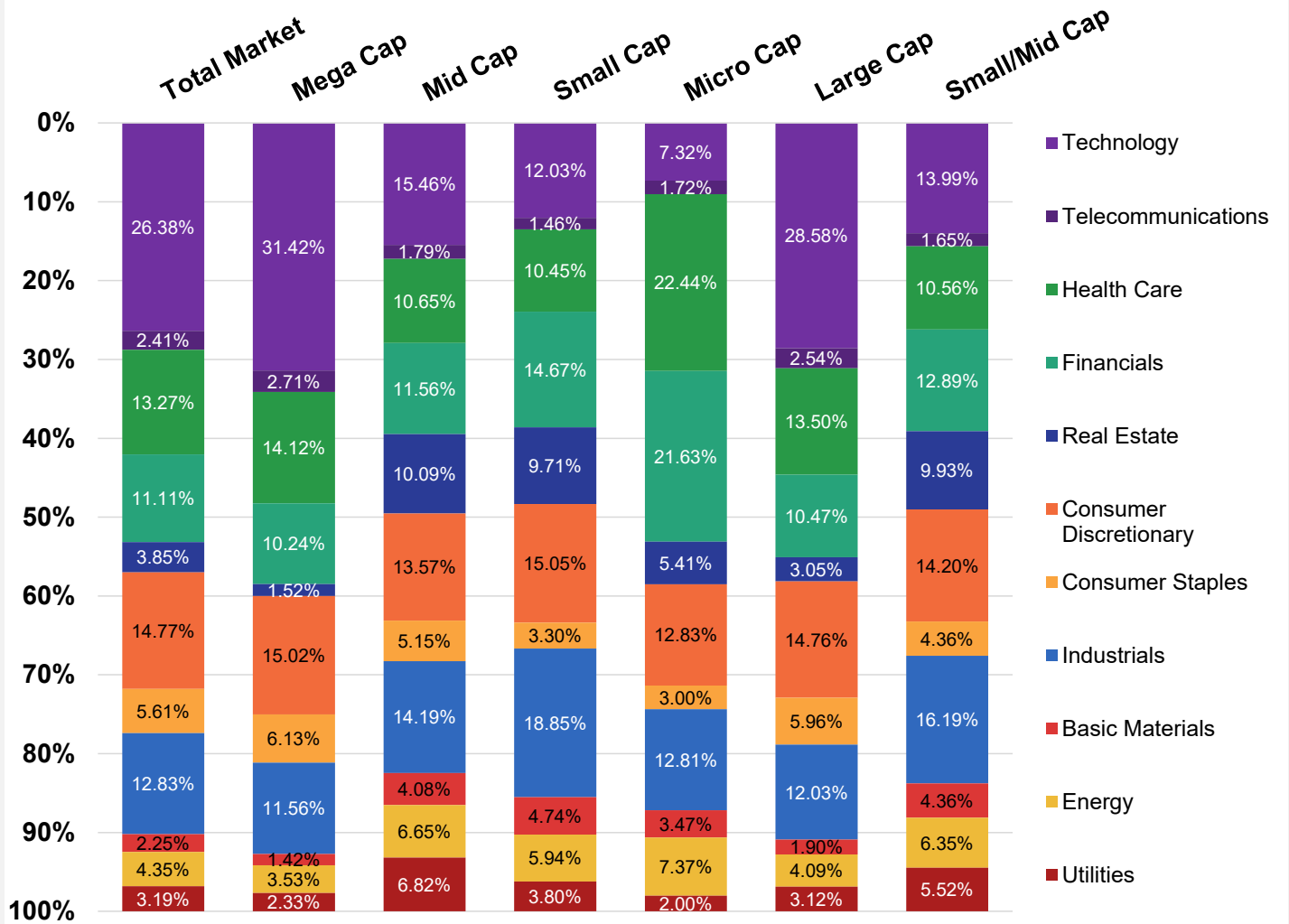


## Cumulative Performance By Style – Past 12 Months



Note: Data as of 4/29/2022; returns computation is based on total returns

## CRSP Market Cap Indexes Sector Allocation



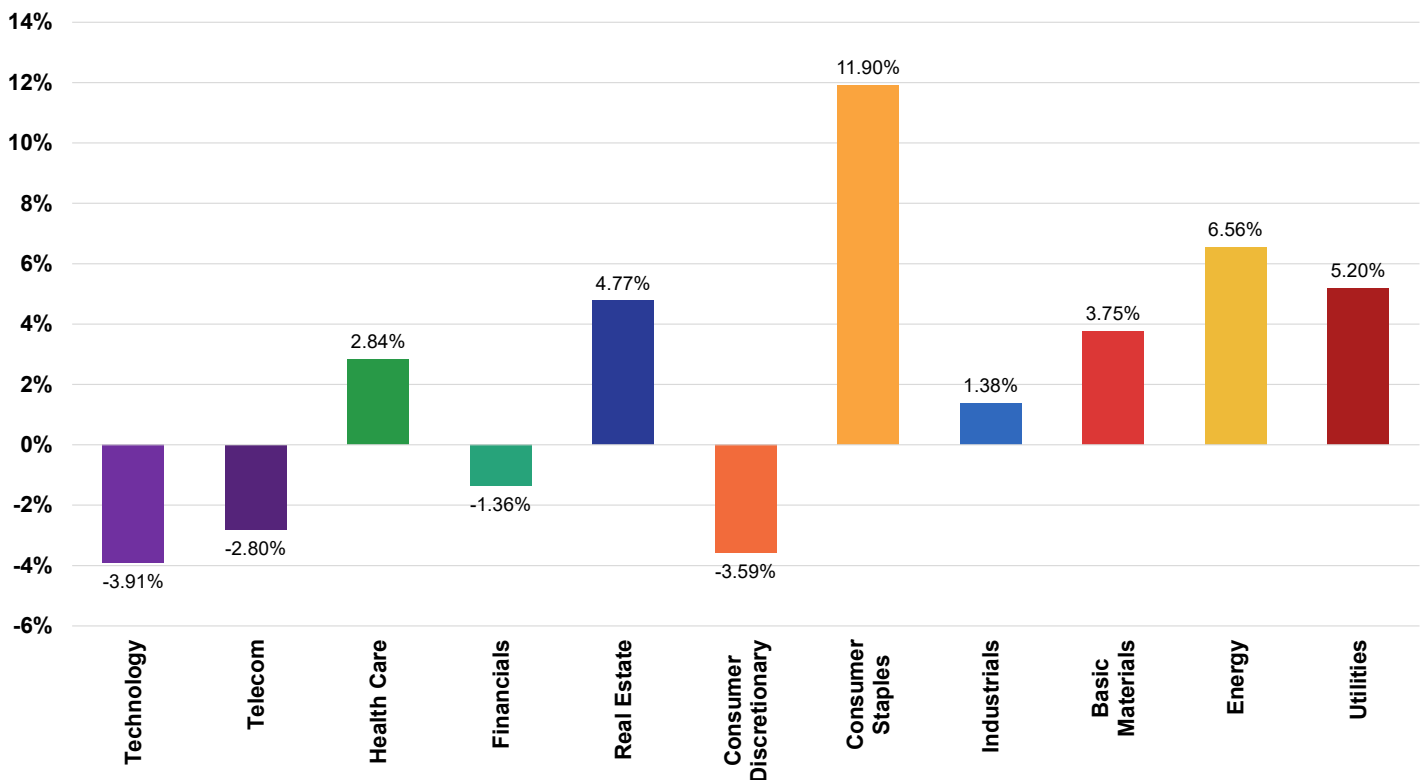
Note: Data as of 4/29/2022; Sector weights are computed using company's assignment to the industry as defined by Enhanced FTSE ICB®; sector weights are based on float-adjusted market cap weights

# CRSP U.S. SECTOR INDEXES PERFORMANCE

## CRSP U.S. Sector Indexes Performance

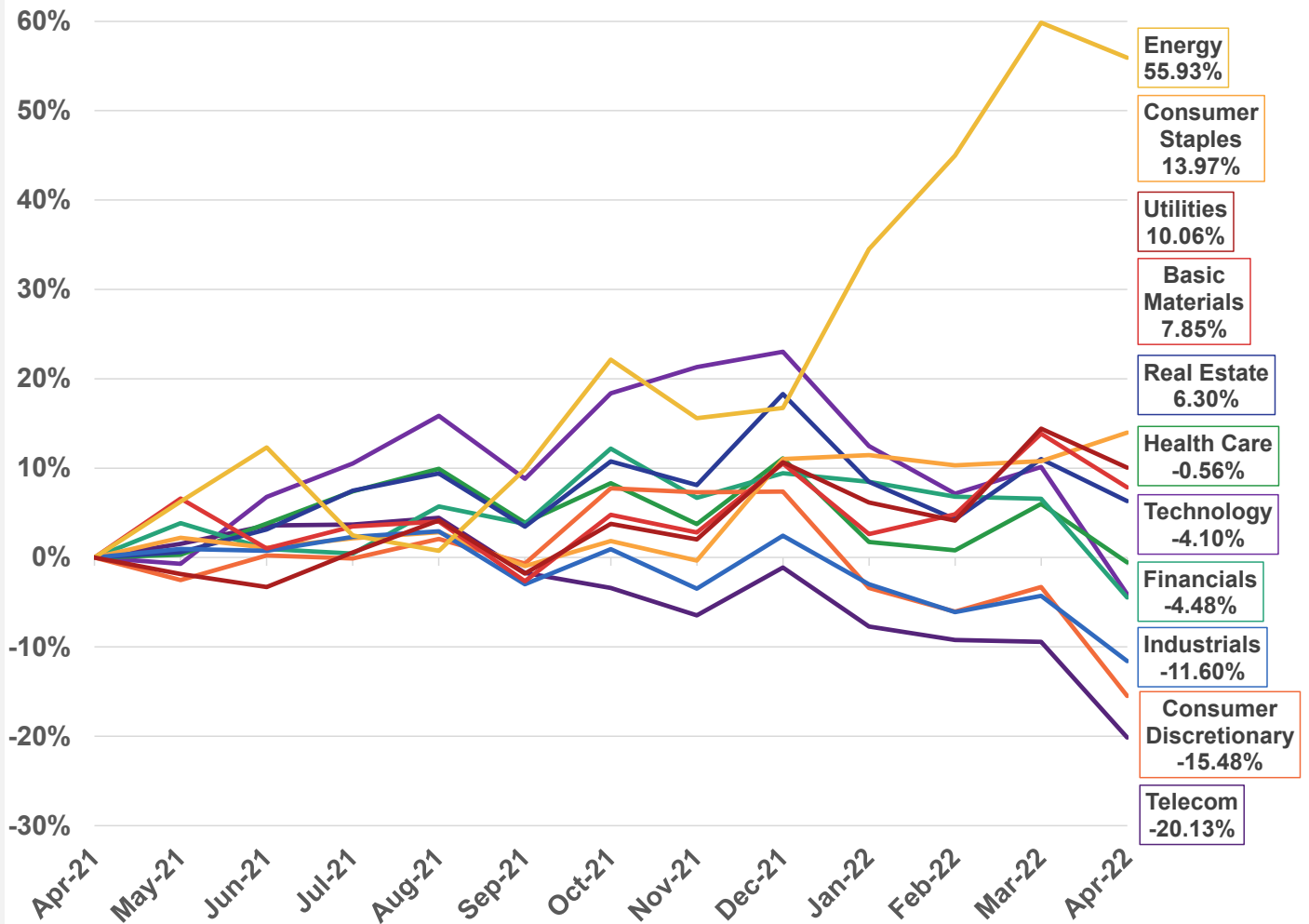
Category	Index Name	Count	Float-Adjusted Market Cap (\$M)	Return for					
				1 Month	3 Months	YTD	1 Year	3 Years	5 Years
<b>Total Market</b>	CRSP U.S. Total Market	4,081	\$41,186,015	-9.02%	-8.45%	-13.97%	-3.34%	13.02%	12.98%
<b>Sector Indexes</b>	<b>CRSP U.S. Technology</b>	<b>454</b>	<b>\$324,838</b>	<b>-12.93%</b>	<b>-14.74%</b>	<b>-22.04%</b>	<b>-4.10%</b>	<b>21.66%</b>	<b>22.19%</b>
	CRSP U.S. Technology U		\$10,863,056						
	<b>CRSP U.S. Telecommunications</b>	<b>84</b>	<b>\$101,039</b>	<b>-11.82%</b>	<b>-13.46%</b>	<b>-19.23%</b>	<b>-20.13%</b>	<b>4.85%</b>	<b>3.24%</b>
	CRSP U.S. Telecommunications U		\$991,387						
	<b>CRSP U.S. Health Care</b>	<b>976</b>	<b>\$5,462,100</b>	<b>-6.18%</b>	<b>-2.27%</b>	<b>-10.49%</b>	<b>-0.56%</b>	<b>13.29%</b>	<b>12.56%</b>
	CRSP U.S. Health Care U		\$5,462,100						
	<b>CRSP U.S. Financials</b>	<b>633</b>	<b>\$4,574,366</b>	<b>-10.38%</b>	<b>-11.94%</b>	<b>-12.71%</b>	<b>-4.48%</b>	<b>10.66%</b>	<b>11.13%</b>
	CRSP U.S. Financials U		\$4,574,366						
	<b>CRSP U.S. Real Estate</b>	<b>207</b>	<b>\$1,586,563</b>	<b>-4.24%</b>	<b>-2.01%</b>	<b>-10.13%</b>	<b>6.30%</b>	<b>9.90%</b>	<b>9.61%</b>
	CRSP U.S. Real Estate U		\$1,586,563						
	<b>CRSP U.S. Consumer Discretionary</b>	<b>587</b>	<b>\$6,082,175</b>	<b>-12.60%</b>	<b>-12.50%</b>	<b>-21.29%</b>	<b>-15.48%</b>	<b>11.25%</b>	<b>12.96%</b>
	CRSP U.S. Consumer Discretionary U		\$6,082,175						
	<b>CRSP U.S. Consumer Staples</b>	<b>162</b>	<b>\$231,154</b>	<b>2.88%</b>	<b>2.26%</b>	<b>2.65%</b>	<b>13.97%</b>	<b>14.10%</b>	<b>10.27%</b>
	CRSP U.S. Consumer Staples U		\$2,310,294						
	<b>CRSP U.S. Industrials</b>	<b>578</b>	<b>\$5,288,282</b>	<b>-7.63%</b>	<b>-8.87%</b>	<b>-13.71%</b>	<b>-11.60%</b>	<b>8.70%</b>	<b>10.48%</b>
	CRSP U.S. Industrials U		\$5,288,282						
	<b>CRSP U.S. Basic Materials</b>	<b>125</b>	<b>\$924,900</b>	<b>-5.27%</b>	<b>5.08%</b>	<b>-2.41%</b>	<b>7.85%</b>	<b>16.04%</b>	<b>11.15%</b>
	CRSP U.S. Basic Materials U		\$924,900						
<b>CRSP U.S. Energy</b>	<b>184</b>	<b>\$1,790,346</b>	<b>-2.46%</b>	<b>15.92%</b>	<b>33.59%</b>	<b>55.93%</b>	<b>9.94%</b>	<b>6.25%</b>	
CRSP U.S. Energy U		\$1,790,346							
<b>CRSP U.S. Utilities</b>	<b>91</b>	<b>\$1,312,545</b>	<b>-3.82%</b>	<b>3.68%</b>	<b>-0.53%</b>	<b>10.06%</b>	<b>9.66%</b>	<b>10.53%</b>	
CRSP U.S. Utilities U		\$1,312,545							

## April 2022: Sector Performance Relative to Total Market



Note: Data as of 4/29/2022; returns computation is based on total returns; data for 1-, 3-, and 5-years is annualized. CRSP US Sector Indexes total returns are for constrained indexes, meaning that securities' weights within sector indexes are adjusted to comply with IRS Regulated Investment Company rules. Sector indexes with "U" at the end of the name are not constrained to comply with IRS RIC rules. CRSP U.S. Sector Indexes based on Enhanced FTSE ICB® (EICB) methodology are used for returns after 6/7/2020; CRSP U.S. Sector Indexes based on FTSE ICB® methodology are used for returns prior to 6/5/2020. For more details on pairing between EICB-based and ICB-based CRSP U.S. Sector Indexes refer to our [white paper](#) and [public announcement](#)

## Cumulative Performance By Sector – Past 12 Months



Note: Data as of 4/29/2022; returns computation is based on total returns; CRSP US Sector Indexes total returns are for constrained indexes, meaning that securities' weights within sector indexes are adjusted to comply with IRS Regulated Investment Company rules. CRSP U.S. Sector Indexes based on Enhanced FTSE ICB® (EICB) methodology are used for returns after 6/7/2020; CRSP U.S. Sector Indexes based on FTSE ICB® methodology are used for returns prior to 6/5/2020. For more details on pairing between EICB-based and ICB-based CRSP U.S. Sector Indexes refer to our [white paper](#) and [public announcement](#)



# CRSP ISS U.S. LARGE CAP ESG INDEXES PERFORMANCE

To learn more about CRSP ISS ESG Indexes Suite visit our webpage: <https://www.crsp.org/crsp-iss-esg-indexes>

## CRSP ISS U.S. Large Cap ESG Indexes Performance

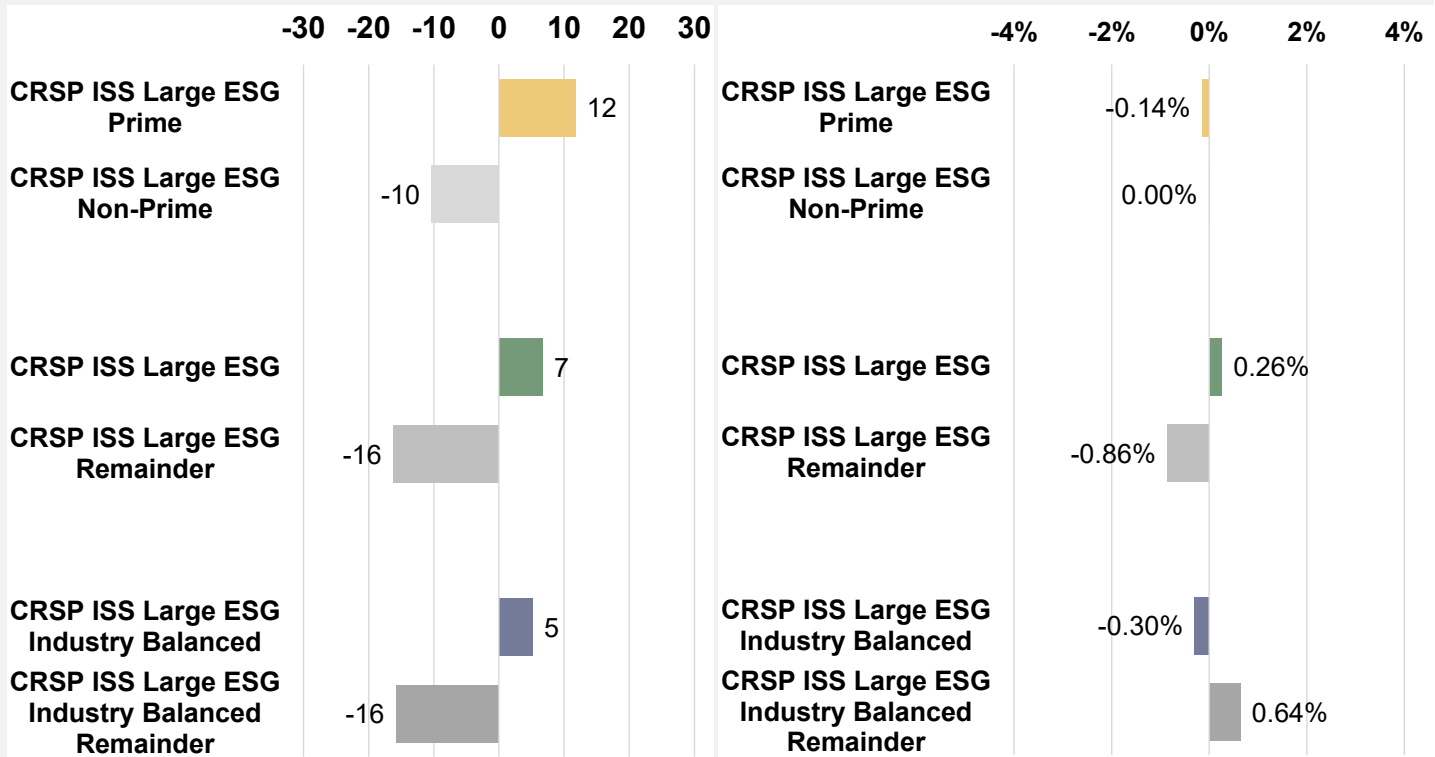
Category	Index Name	Count	Float-Adjusted Market Cap (\$M)	Return for					
				1 Month	3 Months	YTD	1 Year	3 Years	5 Years
	<b>CRSP U.S. Large Cap</b>	<b>579</b>	<b>\$35,860,404</b>	<b>-9.09%</b>	<b>-8.73%</b>	<b>-13.94%</b>	<b>-1.81%</b>	<b>13.71%</b>	<b>13.59%</b>
Prime	CRSP ISS Large ESG Prime	118	\$16,792,895	-9.16%	-8.35%	-13.46%	6.28%	21.88%	19.13%
	CRSP ISS Large ESG Non-Prime	461	\$19,067,508	-9.02%	-9.08%	-14.37%	-7.58%	9.22%	10.67%
ESG	CRSP ISS Large ESG	291	\$25,359,188	-8.75%	-9.58%	-14.81%	-0.40%	14.84%	14.32%
	CRSP ISS Large ESG Remainder	288	\$10,501,216	-9.87%	-6.57%	-11.72%	-5.17%	10.91%	11.80%
ESG Industry Balanced	CRSP ISS Large ESG Industry Balanced	294	\$26,997,096	-9.32%	-9.96%	-15.11%	-1.89%	14.01%	13.68%
	CRSP ISS Large ESG Industry Balanced Remainder	285	\$8,863,307	-8.38%	-4.96%	-10.37%	-1.64%	12.90%	13.36%

Note: Data as of 4/29/2022; returns computation is based on total returns; data for 1-, 3-, and 5-years is annualized; Prior to 9/7/2021 the CRSP ISS ESG Indexes return series is based on a backtest

For definitions of ISS Prime Indicator, ISS ESG Performance Score see Appendix. For more information on ISS ESG Methodology please visit <https://www.issgovernance.com/esg/ratings/>.

## Portfolio ISS ESG Performance Score relative to CRSP US Large Cap

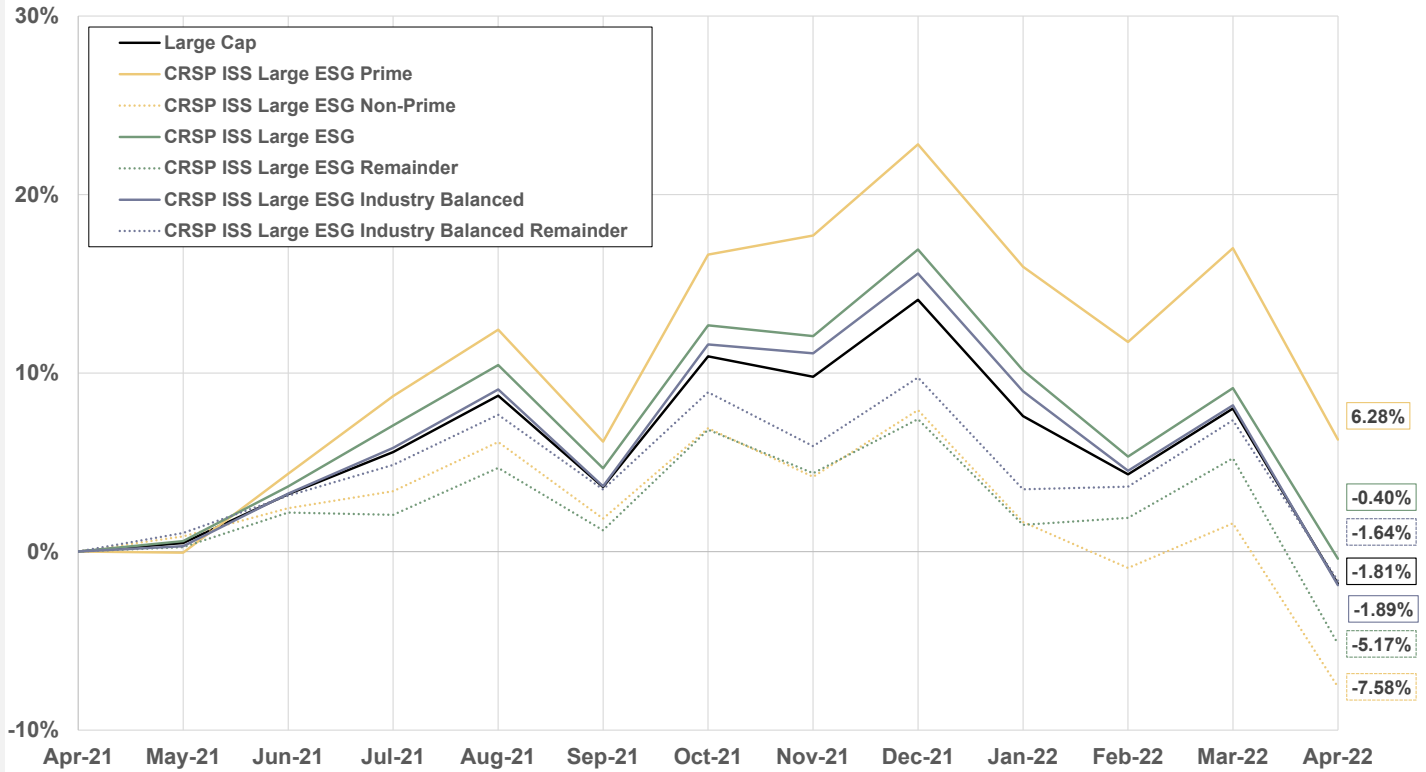
## April 2022: Performance Relative to CRSP US Large Cap



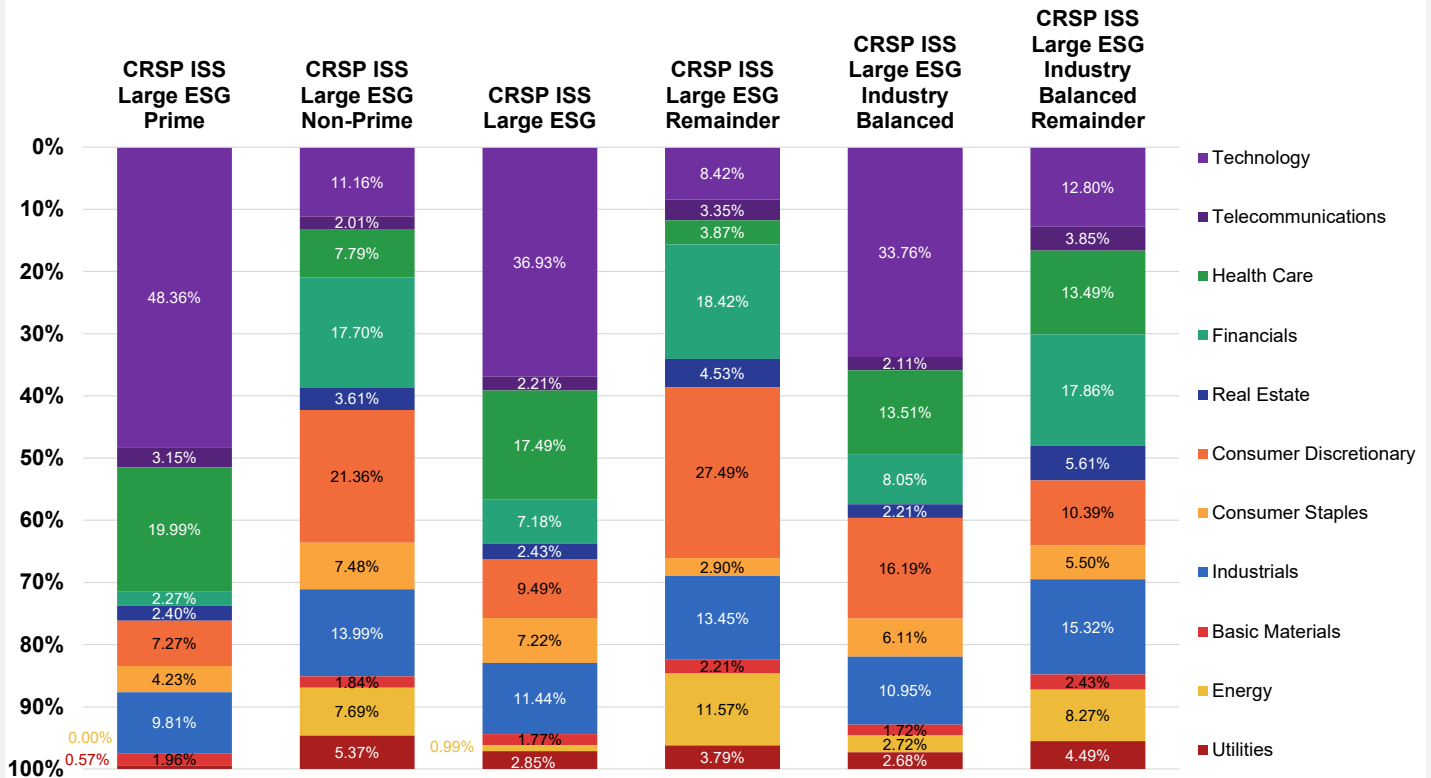
Note: Data as of 4/29/2022. Portfolio ISS ESG Performance Score is computed by weighting securities' ISS ESG Performance Score by the corresponding weight in the index

Note: Data as of 4/29/2022; returns computation is based on total returns

## Cumulative Performance For CRSP ISS ESG Indexes – Past 12 Months



## CRSP ISS ESG Indexes Sector Allocation

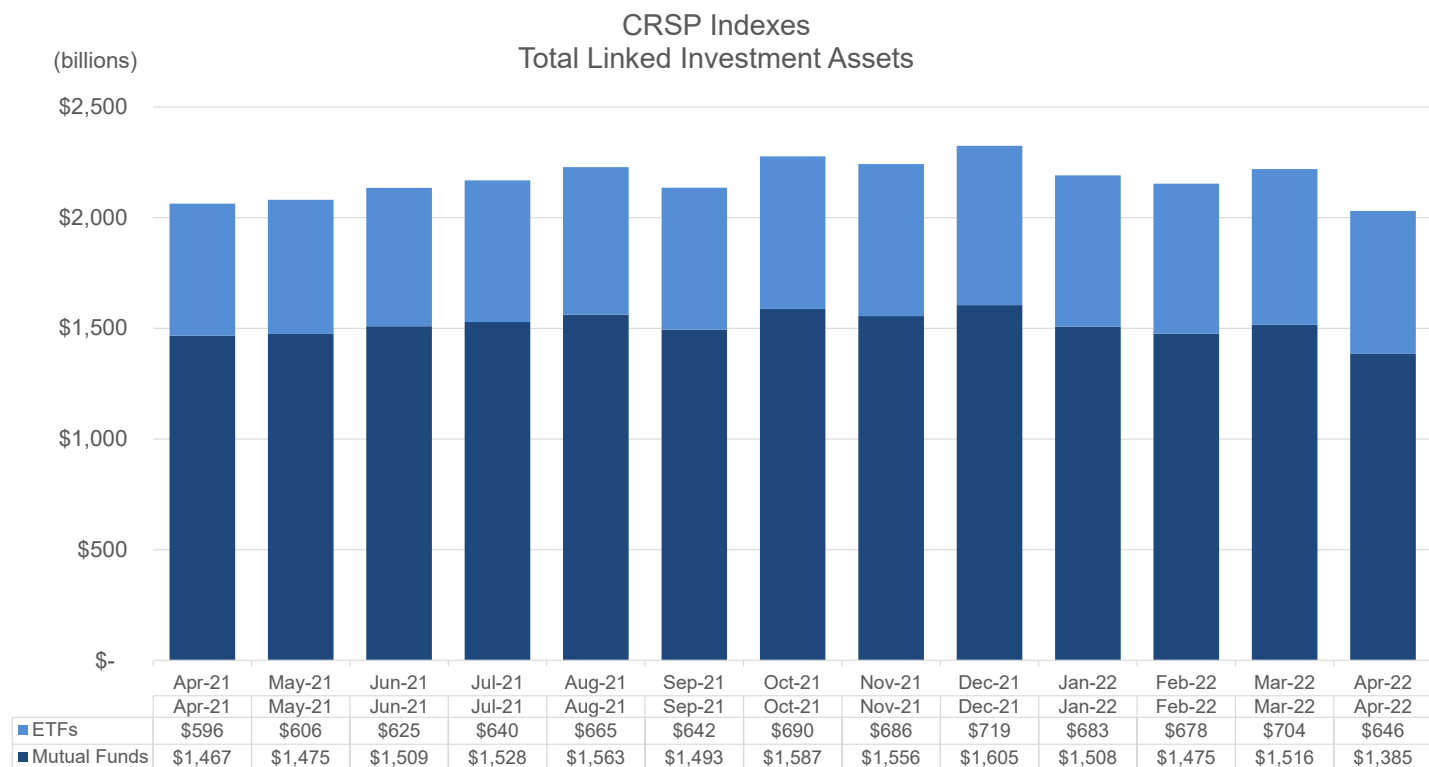


Note: Data as of 4/29/2022; returns computation is based on total returns; prior to 9/7/2021 the CRSP ISS ESG Indexes return series is based on a backtest Sector weights are computed using company's assignment to the industry as defined by Enhanced FTSE ICB®; sector weights are based on float-adjusted market cap weights

# CRSP U.S. INDEXES LINKED ASSETS

Linked Assets as of 4/29/2022

Index	Index Name (TR - Total Return, PR - Price Only Return)	Index Identifier	NASDAQ GIDS Post Date	Linked Assets (\$B) as of 4/29/22		
				ETF	Mutual Fund	Total
Total Market	CRSP US Total Market Index (TR)	CRSPTMT	12/31/2012	\$265.88		\$1,281.28
	CRSP US Total Market Index (PR)	CRSPTM1	1/18/2011		\$1,015.40	
CRSP Canadian Hedged	CRSP US Total Market Index (CAD-hedged) (TR)	CRSPTCHT	12/31/2012	\$0.63		\$0.63
	CRSP US Total Market Index (CAD-hedged) (PR)	CRSPCH1	12/31/2012			
CRSP Canadian Non-Hedged	CRSP US Total Market Total Return Index CAD (TR)	CRSPTMCT	4/15/2013	\$3.95		\$3.95
	CRSP US Total Market Total Return Index CAD (PR)	CRSPTMC1	4/15/2013			
Mega Cap	CRSP US Mega Cap Index (TR)	CRSPMET	12/31/2012	\$3.84		\$4.01
	CRSP US Mega Cap Index (PR)	CRSPME1	8/15/2011		\$0.18	
Mega Cap Growth	CRSP US Mega Cap Growth Index (TR)	CRSPMEGT	12/31/2012	\$11.44		\$11.47
	CRSP US Mega Cap Growth Index (PR)	CRSPMEG1	10/1/2012		\$0.03	
Mega Cap Value	CRSP US Mega Cap Value Index (TR)	CRSPMEVT	12/31/2012	\$5.25		\$5.37
	CRSP US Mega Cap Value Index (PR)	CRSPMEV1	10/1/2012		\$0.12	
Large Cap	CRSP US Large Cap Index (TR)	CRSPLCT	12/31/2012	\$25.04		\$37.40
	CRSP US Large Cap Index (PR)	CRSPLC1	8/15/2011		\$12.36	
Large Cap Growth	CRSP US Large Cap Growth Index (TR)	CRSPLCGT	12/31/2012	\$73.15		\$148.13
	CRSP US Large Cap Growth Index (PR)	CRSPLCG1	10/1/2012		\$74.98	
Large Cap Value	CRSP US Large Cap Value Index (TR)	CRSPLCVT	12/31/2012	\$98.35		\$145.22
	CRSP US Large Cap Value Index (PR)	CRSPLCV1	10/1/2012		\$46.87	
Mid Cap	CRSP US Mid Cap Index (TR)	CRSPMIT	12/31/2012	\$51.03		\$147.79
	CRSP US Mid Cap Index (PR)	CRSPMI1	8/15/2011		\$96.76	
Mid Cap Growth	CRSP US Mid Cap Growth Index (TR)	CRSPMIGT	12/31/2012	\$9.99		\$19.97
	CRSP US Mid Cap Growth Index (PR)	CRSPMIG1	10/1/2012		\$9.97	
Mid Cap Value	CRSP US Mid Cap Value Index (TR)	CRSPMIVT	12/31/2012	\$16.18		\$28.80
	CRSP US Mid Cap Value Index (PR)	CRSPMIV1	10/1/2012		\$12.63	
Small Cap	CRSP US Small Cap Index (TR)	CRSPSCT	12/31/2012	\$43.55		\$120.57
	CRSP US Small Cap Index (PR)	CRSPSC1	8/15/2011		\$77.02	
Small Cap Growth	CRSP US Small Cap Growth Index (TR)	CRSPSCGT	12/31/2012	\$12.84		\$28.69
	CRSP US Small Cap Growth Index (PR)	CRSPSCG1	10/1/2012		\$15.85	
Small Cap Value	CRSP US Small Cap Value Index (TR)	CRSPSCVT	12/31/2012	\$24.58		\$47.09
	CRSP US Small Cap Value Index (PR)	CRSPSCV1	10/1/2012		\$22.51	
<b>Total Linked Assets</b>				<b>\$646</b>	<b>\$1,385</b>	<b>\$2,030</b>



Note: Data as of 4/29/2022

## RECENT NEWS ABOUT CRSP

- Article: **Best value ETFs**
  - Summary: Overview of Value ETFs, including VTV, VOE, and VBR, based on CRSP US Large Cap Value, CRSP US Mid Cap Value, and CRSP US Small Cap Value Indexes, with over \$230 billion of combined linked assets
  - CRSP Products: **CRSP Investment Indexes**
  - Publication: BankRate
- Article: **Why Vanguard Total Stock Market Index Is One of the Best**
  - Summary: Overview of Vanguard's more than \$1 trillion Total Market fund based on CRSP US Total Market Index
  - CRSP Products: **CRSP Investment Indexes**
  - Publication: Morningstar
- Article: **Passive ETFs hit by billion-dollar rebalancing costs**
  - Summary: Impact of rebalancing costs
  - CRSP Products: **CRSP Investment Indexes**
  - Publication: Financial Times
- Article: **The Mutual Fund that Ate Wall Street – Based on An Index Few People Know About**
  - Summary: History of the creation of CRSP Investment Indexes
  - CRSP Products: **CRSP Investment Indexes**
  - Publication: WSJ

# SERVICES OFFERED BY CRSP

## Research Products

Academic, practitioner, and government institutions for whom data quality, accuracy and completeness are essential rely on CRSP data products. Our portfolio of stock, indexes, mutual fund, treasury, and REIT market databases is relied upon by those whose research and publications must withstand rigorous analysis for accuracy. Quantitative analysts in the commercial market depend on CRSP's historical depth and unrivaled quality in order to perform backtesting and modeling calculations. In the government sector, regulators and policy makers value CRSP's complete data sets as the basis for financial and economic research.

- **CRSP US Stock Databases**
- **CRSP 10**
- **CRSP Historical Indexes**
- **CRSP US Index History Files - Intraday**
- **CRSP/Compustat Merged Database**
- **CRSP US Treasury Database**
- **CRSP/Ziman Real Estate Database**
- **CRSP Survivor-Bias-Free US Mutual Funds**
- **CRSP Cap-Based Portfolio Index**
- **CRSP Customized Data & Media Permits**

For more information regarding CRSP Research Products, contact [subscriptions@crsp.org](mailto:subscriptions@crsp.org).

## Investment Products

Since 2011, CRSP LLC has maintained, disseminated and expanded its' proprietary investable index product line. Currently comprising over 78 capitalization-based, industry sector, ESG, and value and growth style indexes, the CRSP Market Indexes (CRSPMI) suite blends ongoing advancements in academic research with the most efficient and productive industry practices. CRSPMI continues to dedicate resources and personnel to expand its capabilities and services for providing a broad, efficient and low-cost set of performing index products and benchmarks for the entire investment community.

CRSPMI offers indexes covering the entire U.S. equities marketplace, from its flagship Total Market Index to a broad set of different cap segments (Large, Mega, Mid, Small, Micro) with Value and Growth versions of each, 11 Sector Indexes and 6 ESG Indexes. A [quick reference guide](#) provides an overview of the CRSPMI index offerings.

CRSPMI distributes its investable indexes and related constituents, corporate actions and rebalancing information to a broad community of licensed clients over multiple delivery channels, including [direct client feed](#), secure website and approved third-party redistributors.

# APPENDIX – CRSP U.S. INDEXES DESCRIPTIVE INFORMATION

## CRSP U.S. Indexes Descriptive Statistics

Category	Index Name	Count	Float-Adjusted Market Cap (\$M)	Largest Company (\$M)	Smallest Company (\$M)	Median Company (\$M)	Average Company (\$M)	Largest Company Weight (%)
<b>Total Market</b>	CRSP U.S. Total Market	4,081	\$41,186,015	\$2,444,122	\$3	\$671	\$10,092	5.93%
<b>Cap</b>	CRSP U.S. Mega Cap	237	\$29,483,810	\$2,444,122	\$598	\$64,215	\$124,404	8.29%
	CRSP U.S. Mid Cap	364	\$6,376,593	\$48,880	\$168	\$16,797	\$17,518	0.77%
	CRSP U.S. Small Cap	1,527	\$4,772,464	\$19,302	\$25	\$2,216	\$3,125	0.40%
	CRSP U.S. Micro Cap	2,087	\$553,147	\$3,012	\$3	\$117	\$265	0.54%
	CRSP U.S. Large Cap	579	\$35,860,404	\$2,444,122	\$168	\$25,960	\$61,935	6.82%
	CRSP U.S. Small Mid Cap	1,848	\$11,149,058	\$48,880	\$25	\$2,985	\$6,033	0.44%
<b>Value</b>	CRSP U.S. Mega Value	147	\$14,005,755	\$564,904	\$598	\$61,732	\$95,277	4.03%
	CRSP U.S. Mid Value	196	\$3,417,570	\$48,880	\$103	\$16,661	\$17,437	1.43%
	CRSP U.S. Small Value	910	\$2,876,821	\$19,302	\$26	\$2,137	\$3,161	0.67%
	CRSP U.S. Large Value	343	\$17,366,101	\$564,904	\$103	\$26,789	\$50,630	3.25%
	CRSP U.S. Small Mid Value	1,111	\$6,277,476	\$45,629	\$26	\$2,779	\$5,650	0.73%
<b>Growth</b>	CRSP U.S. Mega Growth	102	\$15,478,055	\$2,444,122	\$2,605	\$50,420	\$151,746	15.79%
	CRSP U.S. Mid Growth	179	\$2,959,023	\$46,950	\$103	\$15,313	\$16,531	1.59%
	CRSP U.S. Small Growth	719	\$1,895,643	\$15,095	\$25	\$1,887	\$2,636	0.80%
	CRSP U.S. Large Growth	261	\$18,494,303	\$2,444,122	\$103	\$22,713	\$70,859	13.22%
	CRSP U.S. Small Mid Growth	867	\$4,871,581	\$46,950	\$25	\$2,612	\$5,619	0.96%
<b>Prime</b>	CRSP ISS Large ESG Prime	118	\$16,792,895	\$2,444,122	\$4,876	\$54,097	\$142,313	14.55%
	CRSP ISS Large ESG Non-Prime	461	\$19,067,508	\$1,075,079	\$168	\$22,508	\$41,361	5.64%
<b>ESG</b>	CRSP ISS Large ESG	291	\$25,359,188	\$2,444,122	\$3,429	\$34,794	\$87,145	9.64%
	CRSP ISS Large ESG Remainder	288	\$10,501,216	\$1,075,079	\$168	\$19,581	\$36,463	10.24%
<b>ESG Industry Balanced</b>	CRSP ISS Large ESG Industry Balanced	294	\$26,997,096	\$2,444,122	\$3,429	\$35,223	\$91,827	9.05%
	CRSP ISS Large ESG Industry Balanced Remainder	285	\$8,863,307	\$564,904	\$168	\$18,502	\$31,099	6.37%
<b>Sector Indexes</b>	<b>CRSP U.S. Technology</b>	<b>454</b>	<b>\$324,838</b>	<b>\$64,078</b>	<b>\$3</b>	<b>\$111</b>	<b>\$716</b>	<b>19.73%</b>
	CRSP U.S. Technology U		\$10,863,056	\$2,444,122	\$3	\$1,209	\$23,927	22.50%
	<b>CRSP U.S. Telecommunications</b>	<b>84</b>	<b>\$101,039</b>	<b>\$15,213</b>	<b>\$6</b>	<b>\$500</b>	<b>\$1,203</b>	<b>15.06%</b>
	CRSP U.S. Telecommunications U		\$991,387	\$183,124	\$6	\$575	\$11,802	18.47%
	<b>CRSP U.S. Health Care</b>	<b>976</b>	<b>\$5,462,100</b>	<b>\$478,494</b>	<b>\$3</b>	<b>\$150</b>	<b>\$5,596</b>	<b>8.76%</b>
	CRSP U.S. Health Care U		\$5,462,100	\$478,494	\$3	\$150	\$5,596	8.76%
	<b>CRSP U.S. Financials</b>	<b>633</b>	<b>\$4,574,366</b>	<b>\$564,904</b>	<b>\$6</b>	<b>\$706</b>	<b>\$7,226</b>	<b>12.35%</b>
	CRSP U.S. Financials U		\$4,574,366	\$564,904	\$6	\$706	\$7,226	12.35%
	<b>CRSP U.S. Real Estate</b>	<b>207</b>	<b>\$1,586,563</b>	<b>\$118,574</b>	<b>\$13</b>	<b>\$2,173</b>	<b>\$7,665</b>	<b>7.47%</b>
	CRSP U.S. Real Estate U		\$1,586,563	\$118,574	\$13	\$2,173	\$7,665	7.47%
	<b>CRSP U.S. Consumer Discretionary</b>	<b>587</b>	<b>\$6,082,175</b>	<b>\$1,075,079</b>	<b>\$4</b>	<b>\$870</b>	<b>\$10,361</b>	<b>17.68%</b>
	CRSP U.S. Consumer Discretionary U		\$6,082,175	\$1,075,079	\$4	\$870	\$10,361	17.68%
	<b>CRSP U.S. Consumer Staples</b>	<b>162</b>	<b>\$231,154</b>	<b>\$38,502</b>	<b>\$6</b>	<b>\$119</b>	<b>\$1,427</b>	<b>16.66%</b>
	CRSP U.S. Consumer Staples U		\$2,310,294	\$384,849	\$6	\$1,005	\$14,261	16.66%
	<b>CRSP U.S. Industrials</b>	<b>578</b>	<b>\$5,288,282</b>	<b>\$353,460</b>	<b>\$6</b>	<b>\$1,216</b>	<b>\$9,149</b>	<b>6.68%</b>
	CRSP U.S. Industrials U		\$5,288,282	\$353,460	\$6	\$1,216	\$9,149	6.68%
	<b>CRSP U.S. Basic Materials</b>	<b>125</b>	<b>\$924,900</b>	<b>\$158,579</b>	<b>\$10</b>	<b>\$1,454</b>	<b>\$7,399</b>	<b>17.15%</b>
	CRSP U.S. Basic Materials U		\$924,900	\$158,579	\$10	\$1,454	\$7,399	17.15%
	<b>CRSP U.S. Energy</b>	<b>184</b>	<b>\$1,790,346</b>	<b>\$360,914</b>	<b>\$9</b>	<b>\$986</b>	<b>\$9,730</b>	<b>20.16%</b>
	CRSP U.S. Energy U		\$1,790,346	\$360,914	\$9	\$986	\$9,730	20.16%
<b>CRSP U.S. Utilities</b>	<b>91</b>	<b>\$1,312,545</b>	<b>\$139,394</b>	<b>\$10</b>	<b>\$4,269</b>	<b>\$14,424</b>	<b>10.62%</b>	
CRSP U.S. Utilities U		\$1,312,545	\$139,394	\$10	\$4,269	\$14,424	10.62%	

Note: Data as of 4/29/2022; counts may not add up due to banding and migration, see appendix; CRSP U.S. Sector Indexes are constrained indexes, meaning that securities' weights within sector indexes are adjusted to comply with IRS Regulated Investment Company (RIC) rules. Sector indexes with "U" at the end of the name are not constrained to comply with IRS RIC rules. CRSP U.S. Sector Indexes based on Enhanced FTSE ICB® (EICB) methodology are used after 6/7/2020; CRSP U.S. Sector Indexes based on FTSE ICB® methodology are used prior to 6/5/2020. For more details on pairing between EICB-based and ICB-based CRSP U.S. Sector Indexes refer to our [white paper](#) and [public announcement](#)

# APPENDIX – INDEX REFERENCE GUIDE

Index	Index Name (TR - Total Return, PR - Price Only Return)	Index Identifier	CUSIP	NASDAQ GIDS Post Date	Inception Date Open Val = 1000	Bloomberg Ticker
Total Market Index	CRSP US Total Market Index (TR)	CRSPTMT	12628H109	12/31/2012	4/1/2011	BBG003PZ7F43
	CRSP US Total Market Index (PR)	CRSPTM1	12628G101	1/18/2011	4/1/2011	BBG001DQ7123
CRSP Australian Hedged Index	CRSP US Total Market Index (AUD-hedged) (TR)	CRSPTAHT	12633D200	7/1/2015		BBG009J9GN20
	CRSP US Total Market Index (AUD-hedged) (PR)	CRSPTAH1	12633D101	7/1/2015		BBG009J9GN11
CRSP Australian Non-Hedged Index	CRSP US Total Market Total Return Index AUD (TR)	CRSPTMAT	12633D408	7/1/2015		BBG009J9GN48
	CRSP US Total Market Index AUD (PR)	CRSPTMA1	12633D309	7/1/2015		BBG009J9GN39
CRSP Canadian Hedged Index	CRSP US Total Market Index (CAD-hedged) (TR)	CRSPTCHT	12630Y108	12/31/2012		BBG003PZ7F52
	CRSP US Total Market Index (CAD-hedged) (PR)	CRSPTCH1	12628G200	12/31/2012		BBG003PZ7F34
CRSP Canadian Non-Hedged Index	CRSP US Total Market Total Return Index CAD (TR)	CRSPTMCT	12632P204	4/15/2013		BBG004MFW5W1
	CRSP US Total Market Index CAD (PR)	CRSPTMC1	12632M201	4/15/2013		BBG004MFW5V2
Mega Cap	CRSP US Mega Cap Index (TR)	CRSPMET	12631H104	12/31/2012	4/1/2011	BBG003PZ7F61
	CRSP US Mega Cap Index (PR)	CRSPME1	12627R108	8/15/2011	4/1/2011	BBG001YCYN69
Mega Cap Growth	CRSP US Mega Cap Growth Index (TR)	CRSPMEGT	12631K107	12/31/2012	9/10/2012	BBG003PZ7F70
	CRSP US Mega Cap Growth Index (PR)	CRSPMEG1	12630R103	10/1/2012	9/10/2012	BBG003PZ7DH4
Mega Cap Value	CRSP US Mega Cap Value Index (TR)	CRSPMEVT	12631L105	12/31/2012	9/10/2012	BBG003PZ7F89
	CRSP US Mega Cap Value Index (PR)	CRSPMEV1	12630T109	10/1/2012	9/10/2012	BBG003PZ7DJ2
Large Cap (Mega + Mid) Cap	CRSP US Large Cap Index (TR)	CRSPLCT	12631M103	12/31/2012	4/1/2011	BBG003PZ7F98
	CRSP US Large Cap Index (PR)	CRSPLC1	12627P102	8/15/2011	4/1/2011	BBG001YCYN50
Large Cap Growth	CRSP US Large Cap Growth Index (TR)	CRSPLCGT	12631P106	12/31/2012	9/10/2012	BBG003PZ7FB5
	CRSP US Large Cap Growth Index (PR)	CRSPLCG1	12630W102	10/1/2012	9/10/2012	BBG003PZ7DK0
Large Cap Value	CRSP US Large Cap Value Index (TR)	CRSPLCVT	12631R102	12/31/2012	9/10/2012	BBG003PZ7FC4
	CRSP US Large Cap Value Index (PR)	CRSPLCV1	12630X100	10/1/2012	9/10/2012	BBG003PZ7DL9
Mid Cap	CRSP US Mid Cap Index (TR)	CRSPMIT	12631T108	12/31/2012	4/1/2011	BBG003PZ7FD3
	CRSP US Mid Cap Index (PR)	CRSPMI1	12627W107	8/15/2011	4/1/2011	BBG001YCYN87
Mid Cap Growth	CRSP US Mid Cap Growth Index (TR)	CRSPMIGT	12628N106	12/31/2012	9/10/2012	BBG003PZ7FF1
	CRSP US Mid Cap Growth Index (PR)	CRSPMIG1	12631A109	10/1/2012	9/10/2012	BBG003PZ7DM8
Mid Cap Value	CRSP US Mid Cap Value Index (TR)	CRSPMIVT	12629L109	12/31/2012	9/10/2012	BBG003PZ7FG0
	CRSP US Mid Cap Value Index (PR)	CRSPMIV1	12631C105	10/1/2012	9/10/2012	BBG003PZ7DN7
Small-Mid Cap	CRSP US Small-Mid Cap Index (TR)	CRSPSMT	12591C103	3/10/2014	4/1/2011	BBG0069LWSJ3
	CRSP US Small-Mid Cap Index (PR)	CRSPSM1	12632T107	3/10/2014	4/1/2011	BBG0069LWSH5
Small-Mid Cap Growth	CRSP US Small-Mid Cap Growth Index (TR)	CRSPSMGT	12591P104	3/10/2014	9/10/2012	BBG0069LWSF7
	CRSP US Small-Mid Cap Growth Index (PR)	CRSPSMG1	12591M101	3/10/2014	9/10/2012	BBG0069LWSD0
Small-Mid Cap Value	CRSP US Small-Mid Cap Value Index (TR)	CRSPSMVT	12591L103	3/10/2014	9/10/2012	BBG0069LWSG6
	CRSP US Small-Mid Cap Value Index (PR)	CRSPSMV1	12591E109	3/10/2014	9/10/2012	BBG0069LWSD9
Small Cap	CRSP US Small Cap Index (TR)	CRSPSCT	12630N102	12/31/2012	4/1/2011	BBG003PZ7FH9
	CRSP US Small Cap Index (PR)	CRSPSC1	12628A104	8/15/2011	4/1/2011	BBG001YCYN83
Small Cap Growth	CRSP US Small Cap Growth Index (TR)	CRSPSCGT	12630V104	12/31/2012	9/10/2012	BBG003PZ7FJ7
	CRSP US Small Cap Growth Index (PR)	CRSPSCG1	12631E101	10/1/2012	9/10/2012	BBG003PZ7DP5
Small Cap Value	CRSP US Small Cap Value Index (TR)	CRSPSCVT	12631N101	12/31/2012	9/10/2012	BBG003PZ7FK5
	CRSP US Small Cap Value Index (PR)	CRSPSCV1	12631F108	10/1/2012	9/10/2012	BBG003PZ7DQ4
Micro Cap Index	CRSP US Micro Cap Index (TR)	CRSPMCT	12631V103	12/31/2012	4/1/2011	BBG003PZ7FL4
	CRSP US Micro Cap Index (PR)	CRSPMC1	12627T104	8/15/2011	4/1/2011	BBG001YCYN78
CRSP ISS ESG Prime	CRSP ISS US Large Cap ESG Prime Index (TR)	CLESGPT	12657Y205	9/7/2021	9/7/2021	BBG012CHZKD6
	CRSP ISS US Large Cap ESG Prime Index (PR)	CLESGP	12657Y106	9/7/2021	9/7/2021	BBG012CHZK64
CRSP ISS ESG Non-Prime	CRSP ISS US Large Cap ESG Non-Prime Index (TR)	CLESGNPT	12658A206	9/7/2021	9/7/2021	BBG012CHZKF4
	CRSP ISS US Large Cap ESG Non-Prime Index (PR)	CLESGNP	12658A107	9/7/2021	9/7/2021	BBG012CHZK73
CRSP ISS ESG	CRSP ISS US Large Cap ESG Index (TR)	CLESGT	12658D200	9/7/2021	9/7/2021	BBG012CHZKG3
	CRSP ISS US Large Cap ESG Index (PR)	CLESG	12658D101	9/7/2021	9/7/2021	BBG012CHZK82
CRSP ISS ESG Remainder	CRSP ISS US Large Cap ESG Remainder Index (TR)	CLESGRT	12658E208	9/7/2021	9/7/2021	BBG012CHZKH2
	CRSP ISS US Large Cap ESG Remainder Index (PR)	CLESGR	12658E109	9/7/2021	9/7/2021	BBG012CHZK91
CRSP ISS ESG Industry Balanced	CRSP ISS US Large Cap ESG Industry Balanced Index (TR)	CLESGBT	12658F205	9/7/2021	9/7/2021	BBG012CHZKJ0
	CRSP ISS US Large Cap ESG Industry Balanced Index (PR)	CLESGB	12658F106	9/7/2021	9/7/2021	BBG012CHZKB8
CRSP ISS ESG Industry Balanced Remainder	CRSP ISS US Large Cap ESG Industry Balanced Remainder Index (TR)	CLESGBRT	12658K204	9/7/2021	9/7/2021	BBG012CHZKK8
	CRSP ISS US Large Cap ESG Industry Balanced Remainder Index (PR)	CLESGBR	12658K105	9/7/2021	9/7/2021	BBG012CHZKC7

Index	Index Name (TR - Total Return, PR - Price Only Return)	Index Identifier	CUSIP	NASDAQ GIDS Post Date	Inception Date	
					Open Val = 1000	Bloomberg Ticker
Consumer Staples	CRSP US Consumer Staples Index (TR)	CRSPCST	12631W101	12/31/2012	2/1/2012	BBG003PZ7FM3
	CRSP US Consumer Staples Index (PR)	CRSPCS1	12630G107	7/16/2012	2/1/2012	BBG003PZ7DR3
Consumer Discretionary	CRSP US Consumer Discretionary Index (TR)	CRSPCDT	12631X109	12/31/2012	2/1/2012	BBG00VC1QCP3
	CRSP US Consumer Discretionary Index (PR)	CRSPCD1	12630J101	7/16/2012	2/1/2012	BBG00VC1Q658
Energy	CRSP US Energy Index (TR)	CRSPENT	12631Y107	12/31/2012	2/1/2012	BBG003PZ7FP0
	CRSP US Energy Index (PR)	CRSPEN1	12630A100	7/16/2012	2/1/2012	BBG003PZ7DT1
Financials	CRSP US Financials Index (TR)	CRSPFNT	12632A108	12/31/2012	2/1/2012	BBG003PZ7FQ9
	CRSP US Financials Index (PR)	CRSPFN1	12630M104	7/16/2012	2/1/2012	BBG003PZ7DV8
Health Care	CRSP US Health Care Index (TR)	CRSPHCT	12632C104	12/31/2012	2/1/2012	BBG003PZ7FR8
	CRSP US Health Care Index (PR)	CRSPHC1	12630H105	7/16/2012	2/1/2012	BBG003PZ7DW7
Industrials	CRSP US Industrials Index (TR)	CRSPIDT	12632E100	12/31/2012	2/1/2012	BBG003PZ7FS7
	CRSP US Industrials Index (PR)	CRSPID1	12630F109	7/16/2012	2/1/2012	BBG003PZ7DX6
Technology	CRSP US Technology Index (TR)	CRSPITT	12632F107	12/31/2012	2/1/2012	BBG003PZ7FT6
	CRSP US Technology Index (PR)	CRSPIT1	12630P107	7/16/2012	2/1/2012	BBG003PZ7DY5
Basic Materials	CRSP US Basic Materials Index (TR)	CRSPMTT	12632G105	12/31/2012	2/1/2012	BBG003PZ7FV3
	CRSP US Basic Materials Index (PR)	CRSPMT1	12630E102	7/16/2012	2/1/2012	BBG003PZ7DZ4
Telecommunications	CRSP US Telecommunications Index (TR)	CRSPTET	12632H103	12/31/2012	2/1/2012	BBG003PZ7FW2
	CRSP US Telecommunications Index (PR)	CRSPTE1	12630K108	7/16/2012	2/1/2012	BBG003PZ7F07
Utilities	CRSP US Utilities Index (TR)	CRSPUTT	12632J109	12/31/2012	2/1/2012	BBG003PZ7FX1
	CRSP US Utilities Index (PR)	CRSPUT1	12630L106	7/16/2012	2/1/2012	BBG003PZ7F16
Real Estate	CRSP US Real Estate Index (TR)	CRSPRET	12632K106	12/31/2012	4/1/2011	BBG003PZ7FY0
	CRSP US Real Estate Index (PR)	CRSPRE1	12627X105	8/15/2011	4/1/2011	BBG001YCYN96
Small Cap ex-Real Estate	CRSP US Small Cap ex-Real Estate Index (TR)	CRSPSXT	12632L104	12/31/2012	2/1/2012	BBG003PZ7FZ9
	CRSP US Small Cap ex-Real Estate Index (PR)	CRSPSX1	12631G106	10/1/2012	9/10/2012	BBG003PZ7F25



## APPENDIX – DEFINITIONS

**Count:** Number of companies contained within the index. A single company may have multiple securities associated with it. Counts for individual cap indexes may not add up to counts for the combined cap index due to banding and migration. For example, number of companies in Mega Cap Index plus number of companies in Mid Cap Index may not add up to number of companies in Large Cap. For more information regarding banding and migration please refer to the [CRSP Methodology](#)

**Float-Adjusted Market Cap:** represents the float-adjusted market capitalization of a company as described in the [CRSP Methodology](#). For sector indexes that had to be constrained to comply with IRS Regulated Investment Company rules, it means that the company's float adjusted market cap may have been adjusted further per our methodology.

**Median Company:** Median float-adjusted market capitalization of a company included in the index

**Average Company:** Average float-adjusted market capitalization of a company included in the index

**Returns:** total index returns are used in computations, with 1-, 3- and 5-year returns annualized

**ISS ESG Performance Score:** An ESG metric assigned by ISS based on its ISS ESG Corporate Rating, allowing direct comparisons of companies in different industries. ISS Performance Score is a numeric value between 0 and 100. See <https://www.issgovernance.com/esg/ratings/> for ISS definitions.

**ISS Prime Indicator:** A flag set by ISS for a company based on whether its ISS ESG Performance Score is at least 50. If a company meets the minimum threshold it is designated as Prime, and if not it is designated as Non-Prime. See <https://www.issgovernance.com/esg/ratings/> for ISS definitions.

**Portfolio ISS ESG Performance Score:** Portfolio ISS ESG Performance Score is computed by weighting securities' ISS ESG Performance Score by the corresponding weight in the index

## Citing CRSP

Any dissemination (including by electronic means or in any other form) of the graphs or information herein shall include an attribution to CRSP as follows. "This data and information is based on data from the Center for Research in Security Prices, LLC (CRSP), ©YYYY." YYYY being the year the database was published.

## Disclaimers

By accessing this report, you are indicating that you have read, and consent to be bound by these terms. The report is provided for informational, noncommercial purposes only, and may not be used as a basis for any financial instruments or products (including, without limitation, passively managed funds and index-linked derivative securities), or used to verify or correct data in any other compilation of data or index, or used to create any other data or index, without the prior written consent of CRSP®.

CRSP, its affiliates, its parent company, and its third party suppliers do not make any representations or guarantees regarding the accuracy of the data or information. Although the contents have been obtained from sources believed to be reliable, they are provided to your institution on an "as is" basis without warranties of any kind. With respect to this service and the contents, and to the fullest extent permitted by applicable law, CRSP, its affiliates, its parent company, and its third party suppliers hereby disclaim all express, implied and statutory warranties of any kind to the Subscriber or any third party, including, but not limited to, representations and warranties regarding accuracy, completeness, correctness, merchantability, or fitness for any particular purpose, or any representations or warranties arising from usage or custom or trade or by operation of law. CRSP, its affiliates, its parent company, and its third party suppliers, assume no responsibility for the consequences of any errors or omissions. In no event shall CRSP, its affiliates, its parent company, or its third party suppliers be liable to the Subscriber or to any third party for any loss or injury caused in whole or in part by contingencies beyond their control or negligence in procuring, compiling, or delivering any data or information. In no event shall CRSP, its affiliates, its parent company, or its third party suppliers be liable to the Subscriber or any third party for any claim arising out of or relating to CRSP-provided data or information, including, but not limited to, any decision made or action taken by your institution and any and all users affiliated with your institution based on the use of the data or information or for any types of damages (such as, but not limited to, direct, consequential, special, incidental, punitive or indirect damages), even if advised of the possibility of such damages.

All information is provided for informational purposes only. Every effort is made to ensure that all information given in this publication is accurate, but no responsibility or liability can be accepted by CRSP® nor its licensors for any errors or for any loss from use of this publication. Neither CRSP® nor any of its licensors make any claim, prediction, warranty or representation whatsoever, expressly or impliedly, either as to the results to be obtained from the use of the CRSP Indexes or the fitness or suitability of the Indexes for any particular purpose to which they might be put. The content is not an offer or recommendation to buy or sell, or a solicitation of an offer to buy or sell any security or instrument, or to participate in any particular trading strategy. Further, none of the content is intended to constitute investment advice or a recommendation to make (or refrain from making) any kind of investment decision and may not be relied on as such. The report is provided to you on an "as is" basis without warranties of any kind. CRSP® does not provide investment advice and nothing in this document should be taken as constituting financial or investment advice. CRSP® makes no representation regarding the advisability of investing in any asset. A decision to invest in any such asset should not be made in reliance on any information herein. Indexes cannot be invested in directly. Inclusion of an asset in an index is not a recommendation to buy, sell or hold that asset. The general information contained in this publication should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional. No part of this information may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise. Distribution of the CRSP® index values and the use of their indexes to create financial products require a license with CRSP® and/or its licensors.

CRSP uses various trademarks and trade names in the ordinary course of its business, including without limitation, CRSP's corporate name and logo. All other trademarks or trade names referred to in this paper are the property of their respective owners. Solely for convenience, the trademarks and trade names in this paper may be referred to without the ® and ™ symbols, but such references should not be construed as any indicator that their respective owners will not assert, to the fullest extent under applicable law, their rights thereto.

The Industry Classification Benchmark ("ICB") is owned by FTSE International Limited ("FTSE"). Neither CRSP® nor FTSE accept any liability to any person for any loss or damage arising out of any error or omission in the ICB. Past performance is no guarantee of future results. Charts and graphs are provided for illustrative purposes only. Index returns shown may not represent the results of the actual trading of investable assets. Certain returns shown may reflect back-tested performance. All performance presented prior to the index inception date is back-tested performance. Back-tested performance is not actual performance, but is hypothetical. The back-test calculations are based on the same methodology that was in effect when the index was officially launched. However, back-tested data may reflect the application of the index methodology with the benefit of hindsight, and the historic calculations of an index may change from month to month based on revisions to the underlying economic data used in the calculation of the index.

The Industry Classification Benchmark ("ICB") is a product of FTSE International Limited ("FTSE") and is licensed for use. FTSE is part of the London Stock Exchange Group plc and its applicable group undertakings (the "LSE Group"). The LSE Group includes (1) FTSE International Limited ("FTSE"), (2) Frank Russell Company ("Russell"), (3) FTSE Global Debt Capital Markets Inc. and FTSE Global Debt Capital Markets Limited (together, "FTSE Canada"), (4) MTSNext Limited ("MTSNext"), (5) Mergent, Inc. ("Mergent"), (6) FTSE Fixed Income LLC ("FTSE FI") and (7) The Yield Book Inc ("YB"). FTSE Russell® is a trading name of FTSE, Russell, FTSE Canada, MTSNext, Mergent, FTSE FI, YB. "FTSE®", "Russell®", "FTSE Russell®", "MTS®", "FTSE4Good®", "ICB®", "Mergent®", "The Yield Book®" and all other trademarks and service marks used herein (whether registered or unregistered) are trademarks and/or service marks owned or licensed by the applicable member of the LSE Group or their respective licensors and are owned, or used under license, by FTSE, Russell, MTSNext, FTSE Canada, Mergent, FTSE FI, YB. FTSE International Limited is authorized and regulated by the Financial Conduct Authority as a benchmark administrator.

ISS ESG Performance Score, ISS ESG Prime Indicator are the products of Institutional Shareholder Services Inc. (ISS) and is licensed for use. For more information please refer to the information at <https://www.issgovernance.com/>.