CRSP MARKET INDEXES US MARKET UPDATE DECEMBER 2023



ABOUT CRSP



CENTER FOR RESEARCH IN SECURITY PRICES

An Affiliate of the University of Chicago

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.

For over 60 years, CRSP has been the premier provider of the world's first and most comprehensive resource for historical security prices and returns information, offering scholars and market participants 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.

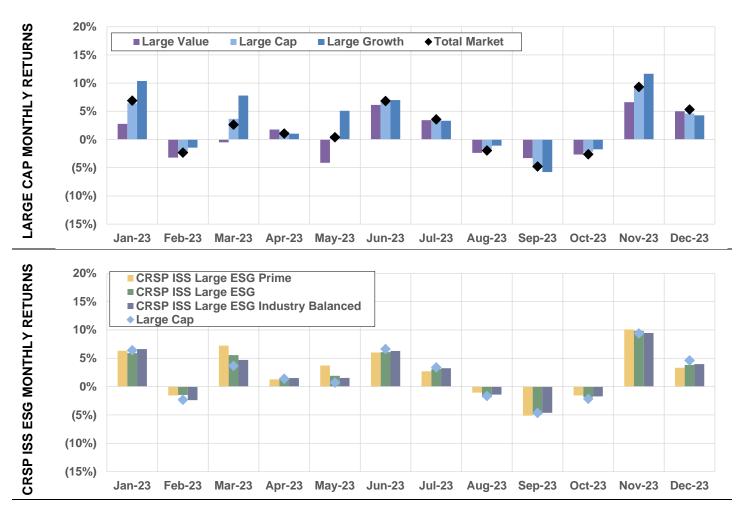
Today, more than 600 leading academic institutions in 35 countries rely on CRSP data for academic research and to support classroom instructions.

CRSP Research Products

CRSP[°] MARKET INDEXES

CRSP has been producing indexes since 1966, helping academics and practitioners understand and research the trends in the financial markets. Drawing on this expertise, in 2011 CRSP designed and launched the CRSP Market Indexes (CRSPMI) product line to provide a comprehensive suite of efficient, transparent and representative benchmarks covering the entire U.S. equity marketplace.

The CRSPMI products are anchored by the flagship CRSP Total Market Index (CRSPTM1), which provides investors with a consistently holistic and representative benchmark for the entire qualifying U.S. equity market. Building from this, the CRSPMI suite further expands to offer investors a wide selection of market capitalization indexes (Micro, Small, Mid, Large, Mega) supplemented with a broad offering of Value and Growth styles, Sectors, and ESG benchmarks.



U.S. MARKET FOR THE PAST 12 MONTHS

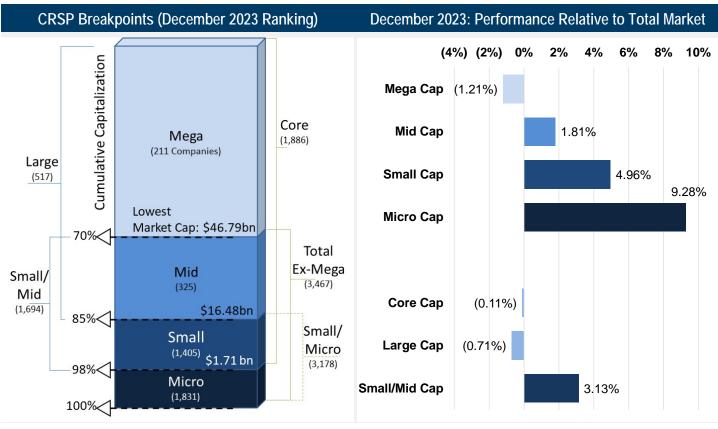
RNS	Technology	11.41%	0.66%	10.67%	(0.21%)	10.77%	6.16%	4.27%	(2.34%)	(6.05%)	(0.93%)	12.87%	4.59%
2	Media & Communications	8.55%	(3.92%)	1.46%	(2.63%)	(2.42%)	4.99%	0.71%	3.86%	(5.86%)	(1.68%)	8.45%	6.03%
REI	Healthcare	(0.75%)	(4.54%)	1.99%	3.22%	(3.85%)	4.18%	0.88%	(0.94%)	(3.75%)	(3.90%)	5.72%	5.57%
Z	Financials	7.17%	(2.00%)	(10.06%)	2.36%	(4.07%)	6.74%	6.93%	(3.40%)	(2.89%)	(3.01%)	11.35%	6.57%
HLN	Real Estate & REITs	10.22%	(6.00%)	(2.12%)	0.52%	(3.82%)	5.74%	2.07%	(3.31%)	(7.23%)	(3.51%)	11.82%	9.26%
MON	Consumer Discretionary	14.87%	(2.60%)	2.25%	(0.72%)	0.85%	10.55%	2.98%	(2.55%)	(5.95%)	(4.42%)	10.49%	6.57%
S	Consumer Staples	(1.97%)	(2.38%)	3.35%	3.84%	(5.82%)	3.39%	2.13%	(3.84%)	(3.90%)	(2.10%)	4.44%	2.88%
INDEXE	Industrials	6.43%	(1.74%)	0.05%	(0.50%)	(2.87%)	10.35%	3.09%	(1.52%)	(5.34%)	(3.57%)	9.33%	8.06%
ND	Materials	11.41%	(2.64%)	(1.64%)	(1.42%)	(7.34%)	10.89%	3.94%	(3.53%)	(4.96%)	(3.95%)	9.35%	5.89%
OR	Energy	2.87%	(6.79%)	(0.85%)	1.60%	(8.93%)	7.22%	7.94%	1.33%	2.13%	(5.44%)	(1.18%)	(0.02%)
SECT	Utilities	(1.36%)	(5.14%)	4.64%	1.69%	(5.22%)	2.16%	1.63%	(5.97%)	(5.39%)	0.35%	5.40%	2.73%
S		Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23

Note: Data as of 12/29/2023; 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; after 9/5/2023, CRSP U.S. Sector Indexes use ICE's Uniform Entity Sectors classification system; CRSP U.S. Sector Indexes were based on Enhanced ICB (EICB) methodology between 6/7/2020 and 9/5/2023

CRSP U.S. CAP AND STYLE INDEXES PERFORMANCE

CRSP U.S. Cap and Style Indexes Performance Index Ticker Float-Adjusted Market Cap (\$M) Return for Category Index Name Coun 1 Month 3 Months YTD 1 Year 3 Years 5 Years 10 Years Total CRSP U.S. Total Market CRSPTMT 3.659 \$46.363.253 5.32% 12.14% 25.98% 25.98% 8.44% 15.08% 11.44% Market CRSPMET \$33.624.026 4.12% 12.45% CRSP U.S. Mega Cap 211 11.88% 29.72% 29.72% 9.87% 16.21% CRSP U.S. Mid Cap 325 7.13% CRSPMIT \$6,920,620 12.27% 15.98% 15.98% 5.50% 12.73% 9.44% CRSP U.S. Small Cap CRSPSCT 1.405 \$5,243,792 10.28% 13.41% 18.09% 18.09% 4.61% 11.66% 8.41% CRSP U.S. Micro Cap CRSPMCT 1.831 \$574.816 14.60% 14.39% 9.14% 9.14% (1.78%)7.92% 6.04% Сар CRSP U.S. Core Cap CRSPXMT 5.22% 12.11% 26.21% 26.21% 11.52% 1,886 \$45.788.437 8.59% 15.19% CRSP U.S. Large Cap CRSPLCT \$40,544,645 15.64% 11.95% 4.61% 11.95% 27.28% 27.28% 9.12% 517 CRSP U.S. Total Market ex-Mega Cap CRSP U.S. Small/Mid Cap CRSPXET 3,467 \$12,739,227 8.72% 12.83% 16.50% 16.50% 4.76% 12.03% 8.82% CRSPSMT \$12,164,411 8.45% 12.76% 5.11% 1,694 16.88% 16.88% 12.25% CRSPMST 10.69% 11.25% 8.15% CRSP U.S. Small/Micro Cap 3,178 \$5,818,607 13.50% 17.12% 17.12% 3.90% CRSP U.S. Mega Value CRSPMEVT 138 \$14,850,239 4.64% 8.53% 9.10% 9.10% 10.76% 11.86% 9.97% CRSP U.S. Mid Value CRSPMIVT 195 \$3,699,753 6.51% 11.52% 9.78% 9.78% 9.24% 11.34% 8.53% CRSP U.S. Small Value 10.46% CRSPSCVT 11.84% 838 \$2.965.884 9.82% 13.63% 15.91% 15.91% 8.50% Value CRSP U.S. Core Value CRSPXMVT 1.199 \$21.573.485 5.69% 9.66% 10.09% 10.60% 11.80% 9.61% 10.09% \$18,694,746 CRSP U.S. Large Value CRSPLCVT 339 5.02% 9.01% 9.17% 9.17% 10.61% 11.74% 9.75% CRSP U.S. Small/Mid Value CRSPSMVT 1,040 \$6,758,610 7.83% 12.43% 12.10% 12.10% 9.75% 11.52% CRSP U.S. Mega Growth CRSPMEGT 81 \$11,353,226 3.71% 14.56% 51.67% 51.67% 9.04% 20.28% 14.82% CRSP U.S. Mid Growth CRSPMIGT 146 \$3.220.867 7.83% 13.13% 23.20% 23.20% 1.86% 13.75% 10.17% CRSP U.S. Small Growth CRSPSCGT 632 \$2,277,908 10.88% 13.12% 21.28% 21.28% (2.83%) 10.51% 7.82% Growth CRSP U.S. Core Growth CRSPXMGT 803 \$24.214.952 4.81% 14.28% 44.22% 44.22% 6.67% 18.33% 13.33% CRSPLCGT CRSPSMGT CRSP U.S. Large Growth \$21,849,900 202 4.28% 14.42% 46.86% 46.86% 7.73% 19.21% 14.02% CRSP U.S. Small/Mid Growth 9.24% 23.31% 729 \$5,405,801 13.17% 23.31% 0.10% 12.50%

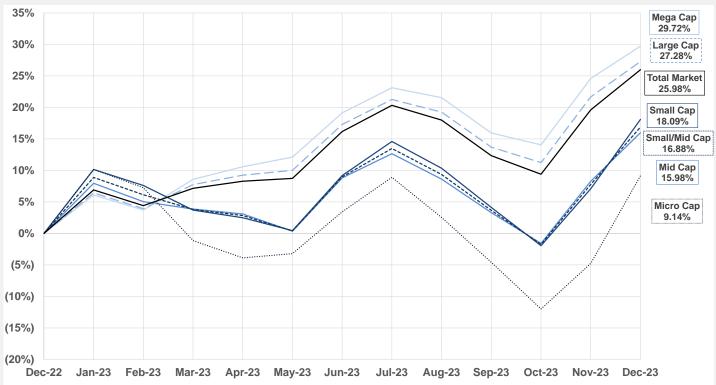
Note: Data as of 12/29/2023; returns computation is based on total returns; data for 1-, 3-, 5-, and 10-years is annualized; counts may not add up due to banding and migration, see appendix; CRSP U.S. Mega Growth securities' weights within are adjusted to comply with IRS Regulated Investment Company rules; CRSP U.S. Core Cap, Core Value, Core Growth, Total Market ex-Mega Cap and Small/Micro Cap data is based on backtest prior to 12/4/2023.

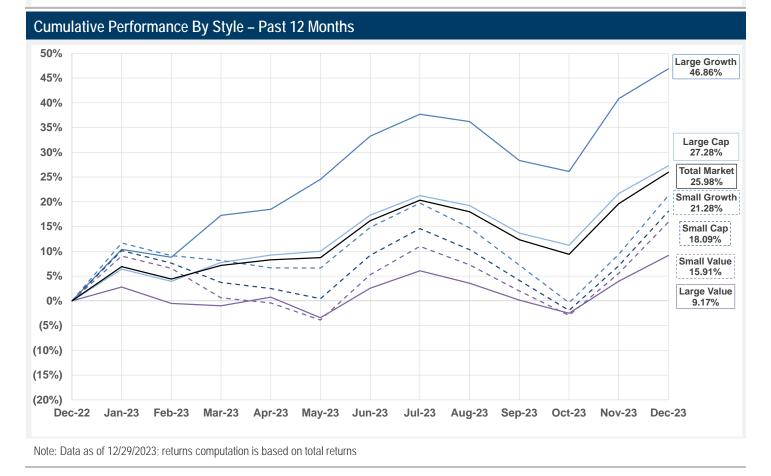


Note: Data for lowest market capitalization is based on 12/1/2023 random price date; company counts as of 12/29/2023; counts may not add up due to banding and migration, see appendix

Note: Data as of 12/29/2023; returns computation is based on total returns









CRSP Market Cap Indexes Sector Allocation

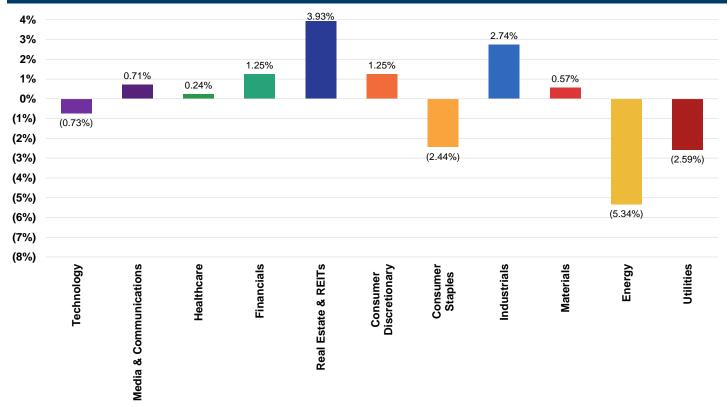
Note: Data as of 12/29/2023; Sector weights are computed using company's assignment to the industry as defined by ICE's Uniform Entity Sectors classification system; sector weights are based on float-adjusted market cap weights

CRSP U.S. SECTOR INDEXES PERFORMANCE

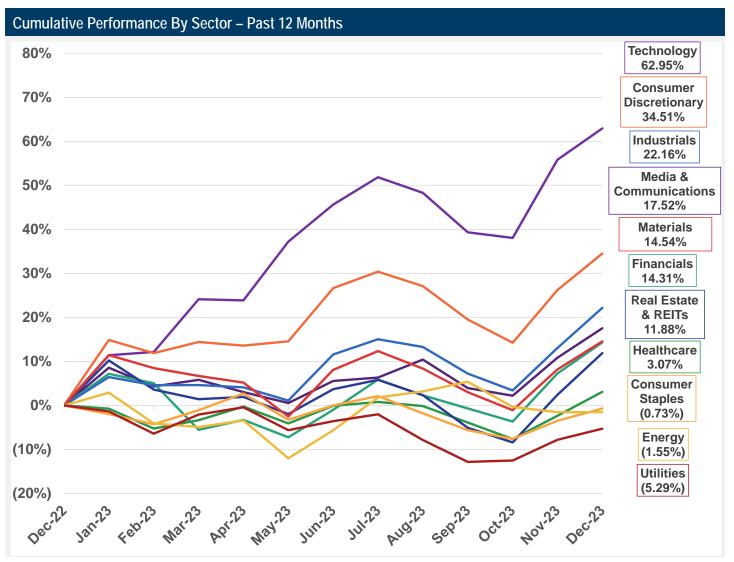
CRSP U.S. Sector Indexes Performance

		Index		Float-Adjusted				Return for			
Category	Index Name	Ticker	Count	Market Cap (\$M)	1 Month	3 Months	YTD	1 Year	3 Years	5 Years	10 Years
Total Market	CRSP U.S. Total Market	CRSPTMT	3,659	\$46,363,253	5.32%	12.14%	25.98%	25.98%	8.44%	15.08%	11.44%
	CRSP U.S. Technology CRSP U.S. Technology Unconstrained	CRSPITT	465	\$1,246,164 \$12,429,163	4.59%	16.96%	62.95%	62.95%	12.67%	25.54%	19.70%
	CRSP U.S. Media & Communications CRSP U.S. Media & Communications Unconst	CRSPTET rained	144	\$364,129 \$3,634,184	6.03%	13.06%	17.52%	17.52%	(1.46%)	6.52%	5.02%
	CRSP U.S. Health Care CRSP U.S. Healthcare Unconstrained	CRSPHCT	797	\$5,841,510 \$5,841,510	5.57%	7.26%	3.07%	3.07%	4.54%	10.48%	10.94%
	CRSP U.S. Financials CRSP U.S. Financials Unconstrained	CRSPFNT	625	\$6,317,401 \$6,317,401	6.57%	15.09%	14.31%	14.31%	10.64%	13.16%	10.52%
	CRSP U.S. Real Estate & REITs CRSP U.S. Real Estate & REITs Unconstraine	CRSPRET d	195	\$1,417,665 \$1,417,665	9.26%	17.89%	11.88%	11.88%	4.48%	7.44%	8.13%
Sector Indexes	CRSP U.S. Consumer Discretionary CRSP U.S. Consumer Discretionary Unconstra	CRSPCDT ained	396	\$535,259 \$5,343,354	6.57%	12.54%	34.51%	34.51%	1.16%	12.84%	11.12%
	CRSP U.S. Consumer Staples CRSP U.S. Consumer Staples Unconstrained	CRSPCST	144	\$231,612 \$2,312,345	2.88%	5.18%	(0.73%)	(0.73%)	6.14%	11.49%	8.04%
	CRSP U.S. Industrials CRSP U.S. Industrials Unconstrained	CRSPIDT	518	\$4,937,332 \$4,937,332	8.06%	13.93%	22.16%	22.16%	7.15%	14.21%	10.45%
	CRSP U.S. Materials CRSP U.S. Materials Unconstrained	CRSPMTT	148	\$1,228,975 \$1,228,975	5.89%	11.22%	14.54%	14.54%	10.20%	13.66%	7.92%
	CRSP U.S. Energy CRSP U.S. Energy Unconstrained	CRSPENT	156	\$1,841,033 \$1,841,033	(0.02%)	(6.58%)	(1.55%)	(1.55%)	32.94%	12.70%	2.39%
	CRSP U.S. Utilities CRSP U.S. Utilities Unconstrained	CRSPUTT	71	\$1,060,291 \$1,060,291	2.73%	8.66%	(5.29%)	(5.29%)	4.25%	7.38%	9.11%

December 2023: Sector Performance Relative to Total Market



Note: Data as of 12/29/2023; returns computation is based on total returns; data for 1-, 3-, 5-, and 10-years is annualized. 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; after 9/5/2023, CRSP U.S. Sector Indexes use ICE's Uniform Entity Sectors classification system; CRSP U.S. Sector Indexes were based on Enhanced ICB (EICB) methodology between 6/7/2020 and 9/5/2023; CRSP U.S. Sector Indexes were based on ICB methodology prior to 6/5/2020



Note: Data as of 12/29/2023; returns computation is based on total returns; 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; after 9/5/2023, CRSP U.S. Sector Indexes use ICE's Uniform Entity Sectors classification system; CRSP U.S. Sector Indexes were based on Enhanced ICB (EICB) methodology between 6/7/2020 and 9/5/2023

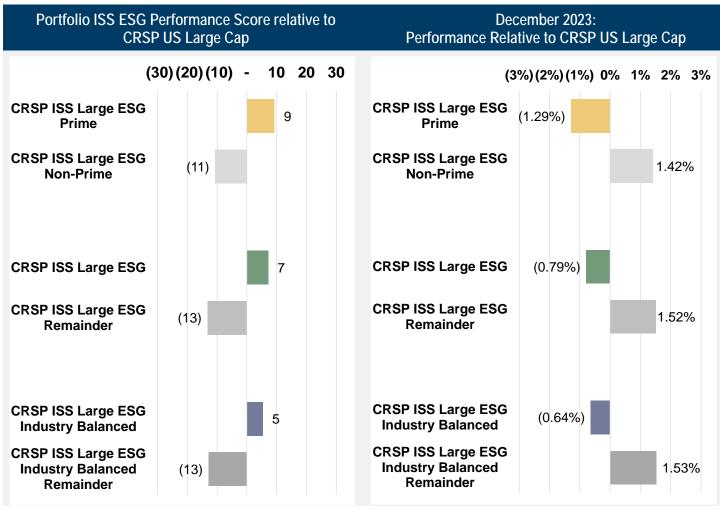
CRSP ISS U.S. LARGE CAP ESG INDEXES PERFORMANCE

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

CRSP	ISS U.S. Large Cap ESG Ir	ndexes Per	formar	ice						
0-1	to do a Norma	Index	0	Float-Adjusted	4 Month	2 Mantha	VTD	Return for	2 Vaara	E Vaara
Category	Index Name	Ticker	Count	Market Cap (\$M)	1 Month	3 Months	YTD	1 Year	3 Years	5 Years
	CRSP U.S. Large Cap	CRSPLCT	517	\$40,544,645	4.61%	11.95%	27.28%	27.28%	9.12%	15.64%
Prime	CRSP ISS Large ESG Prime	CLESGPT	172	\$21,687,350	3.32%	11.97%	34.95%	34.95%	11.95%	20.54%
Fille	CRSP ISS Large ESG Non-Prime	CLESGNPT	345	\$18,857,296	6.03%	11.92%	20.42%	20.42%	6.75%	12.64%
500	CRSP ISS Large ESG	CLESGT	258	\$26,297,178	3.82%	11.93%	30.19%	30.19%	9.69%	16.38%
ESG	CRSP ISS Large ESG Remainder	CLESGRT	259	\$14,247,467	6.13%	11.98%	21.64%	21.64%	7.88%	13.93%
ESG	CRSP ISS Large ESG Industry Balanced	CLESGBT	261	\$28,601,472	3.97%	11.84%	29.60%	29.60%	9.09%	15.75%
Industry Balanced	CRSP ISS Large ESG Industry Balanced Remainder	CLESGBRT	256	\$11,943,173	6.14%	12.19%	21.61%	21.61%	9.31%	15.44%

Note: Data as of 12/29/2023; 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

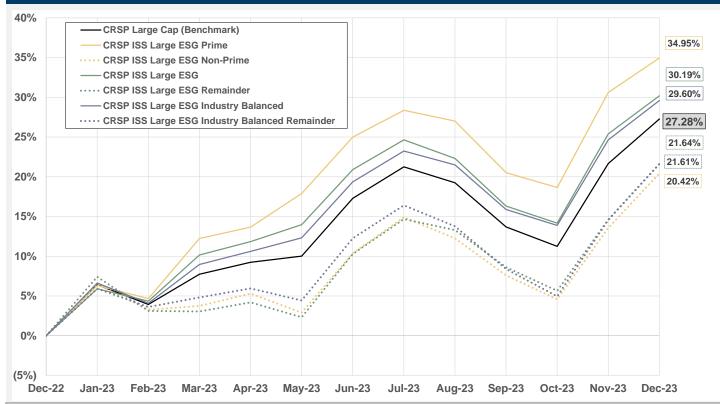
For definitions of ISS Prime Indicator, ISS ESG Performance Score see Appendix. For more information on ISS ESG Methodology please visit <u>https://www.issgovernance.com/esg/ratings/</u>.



Note: Data as of 12/29/2023. 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 12/29/2023; returns computation is based on total returns

Cumulative Performance For CRSP ISS ESG Indexes – Past 12 Months



CRSP ISS ESG Indexes Sector Allocation **CRSP ISS CRSP ISS** Large ESG **CRSP ISS CRSP ISS CRSP ISS** Industry Large ESG Large ESG Large ESG Large ESG **CRSP ISS** Industry Balanced Prime Non-Prime Large ESG Remainder Balanced Remainder 0% Technology 7.86% 1.65% Healthcare 10% 8.79% 8.68% Media & 20% Communications 46.98% 3.22% Financials 30% Real Estate & REITs 40% 2.29% 2.82% 4.17% Consumer Discretionary 50% 10.88% 22.74% 18.80% Consumer Staples 19.87% 60% 8.53% Industrials 7.54% 4.80% 70% 8.57% 6.05% 1.75% Materials 2.55% 8.02% 6.44% 80% 5.42% 2.15% 4 81% 2.629 5.17% 5 38% Energy 2 61% 90% 3.12% 10.63% 8.26% 6.73% Utilities 100%^{0.39%} 4.39% 2.64 3.89% 3.49% 1.90%

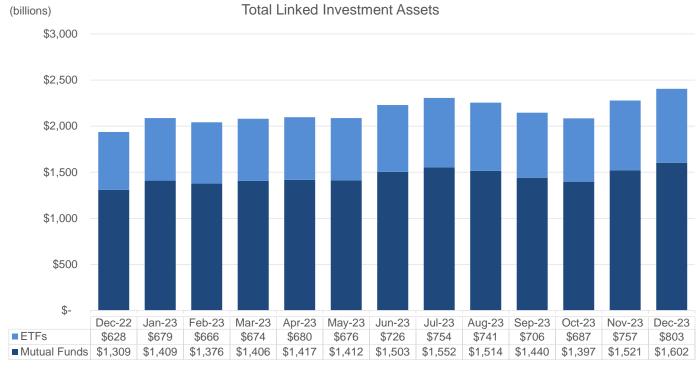
Note: Data as of 12/29/2023; returns computation is based on total returns; Sector weights are computed using company's assignment to the industry as defined by ICE's Uniform Entity Sectors classification system; sector weights are based on float-adjusted market cap weights

Page 10 of 18

CRSP U.S. INDEXES LINKED ASSETS

Linked Assets as of 12/29/2023

				Linked	Assets (\$B) as of	12/29/23
Index	Index Name (TR - Total Return, PR - Price Only Return)	Index Identifier	NASDAQ GIDS Post Date	ETF	Mutual Fund	Total
otal Market	CRSP US Total Market Index (TR)	CRSPTMT	12/31/2012	\$347.72		\$1,541.7
	CRSP US Total Market Index (PR)	CRSPTM1	1/18/2011		\$1,194.05	\$1,541.7
RSP Canadian Hedged	CRSP US Total Market Index (CAD-hedged) (TR)	CRSPTCHT	12/31/2012	\$0.64		\$0.6
RSP Canadian neuged	CRSP US Total Market Index (CAD-hedged) (PR)	CRSPTCH1	12/31/2012			\$U.C
RSP Canadian Non-Hedged	CRSP US Total Market Total Return Index CAD (TR)	CRSPTMCT	4/15/2013	\$5.18		\$5. ⁻
RSP Canadian Non-Hedged	CRSP US Total Market Total Return Index CAD (PR)	CRSPTMC1	4/15/2013			\$ 0.
	CRSP US Mega Cap Index (TR)	CRSPMET	12/31/2012	\$4.74		¢4.
lega Cap	CRSP US Mega Cap Index (PR)	CRSPME1	8/15/2011		\$0.19	\$4.
lawa Oan Onewith	CRSP US Mega Cap Growth Index (TR)	CRSPMEGT	12/31/2012	\$16.40		¢4.0
lega Cap Growth	CRSP US Mega Cap Growth Index (PR)	CRSPMEG1	10/1/2012		\$0.03	\$16.
la ma Oam Malua	CRSP US Mega Cap Value Index (TR)	CRSPMEVT	12/31/2012	\$6.51		* *
lega Cap Value	CRSP US Mega Cap Value Index (PR)	CRSPMEV1	10/1/2012		\$0.12	\$6.
	CRSP US Large Cap Index (TR)	CRSPLCT	12/31/2012	\$30.81		A 45
arge Cap	CRSP US Large Cap Index (PR)	CRSPLC1	8/15/2011		\$14.62	\$45.
0 0 1	CRSP US Large Cap Growth Index (TR)	CRSPLCGT	12/31/2012	\$104.46		* ***
arge Cap Growth	CRSP US Large Cap Growth Index (PR)	CRSPLCG1	10/1/2012		\$96.07	\$200.
	CRSP US Large Cap Value Index (TR)	CRSPLCVT	12/31/2012	\$106.04		A455
arge Cap Value	CRSP US Large Cap Value Index (PR)	CRSPLCV1	10/1/2012	2 \$4		\$155.
	CRSP US Mid Cap Index (TR)	CRSPMIT	12/31/2012	\$59.37		6450
lid Cap	CRSP US Mid Cap Index (PR)	CRSPMI1	8/15/2011		\$98.64	\$158.
	CRSP US Mid Cap Growth Index (TR)	CRSPMIGT	12/31/2012	\$11.86		
lid Cap Growth	CRSP US Mid Cap Growth Index (PR)	CRSPMIG1	10/1/2012		\$11.15	\$23.
	CRSP US Mid Cap Value Index (TR)	CRSPMIVT	12/31/2012	\$16.32		
lid Cap Value	CRSP US Mid Cap Value Index (PR)	CRSPMIV1	10/1/2012		\$12.01	\$28
	CRSP US Small Cap Index (TR)	CRSPSCT	12/31/2012	\$50.44		
mall Cap	CRSP US Small Cap Index (PR)	CRSPSC1	8/15/2011		\$83.29	\$133.
well Ore Orewith	CRSP US Small Cap Growth Index (TR)	CRSPSCGT	12/31/2012	\$15.55		
mall Cap Growth	CRSP US Small Cap Growth Index (PR)	CRSPSCG1	10/1/2012		\$16.85	\$32.
	CRSP US Small Cap Value Index (TR)	CRSPSCVT	12/31/2012	\$27.03	·	*
mall Cap Value	CRSP US Small Cap Value Index (PR)	CRSPSCV1	10/1/2012		\$25.10	\$52.
		To	tal Linked Assets	\$803	\$1,602	\$2,4



CRSP Indexes

Note: Data as of 12/29/2023

SERVICES OFFERED BY CRSP

CRSP RESEARCH DATA 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.

- <u>CRSP US Stock Databases</u>
- <u>CRSP 10</u>
- <u>CRSP Historical Indexes</u>
- <u>CRSPMI Intraday</u>
- <u>CRSP/Compustat Merged Database</u>
- <u>CRSP US Treasury Database</u>
- <u>CRSP/Ziman Real Estate Database</u>
- <u>CRSP Survivor-Bias-Free US Mutual Funds</u>
- <u>CRSP Cap-Based Portfolio Index</u>
- <u>CRSPMI 2013 Historical Indexes</u>

For more information regarding CRSP Research Products, contact <u>subscriptions@crsp.org</u>.

CRSP MARKET INDEXES (CRSPMI)

Since 2011, CRSP LLC has maintained, disseminated and expanded its' CRSPMI proprietary investable index product line. Currently comprising over 78 capitalization-based, industry sector, value and growth style, and ESG indexes, the 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 CRSP Total Market Index (CRSPTM1) to a broad set of different cap segments (Mega, Large, Mid, Small, Micro) with Value and Growth versions of each, 11 Sector Indexes and 6 ESG Indexes. A <u>guick reference guide</u> 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.

For more information regarding CRSP Market Indexes, contact indexes@crsp.org.

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 Compan Weight (%)
otal Market	CRSP U.S. Total Market	3,659	\$46,363,253	\$2,844,653	\$1	\$880	\$12,671	6.14%
	CRSP U.S. Mega Cap	211	\$33,624,026	\$2,844,653	\$9,405	\$78,309	\$159,356	8.46%
	CRSP U.S. Mid Cap	325	\$6,920,620	\$59,310	\$1,205	\$19,385	\$21,294	0.86%
	CRSP U.S. Small Cap	1,405	\$5,243,792	\$20,592	\$5	\$2,792	\$3,732	0.39%
Сар	CRSP U.S. Micro Cap	1,831	\$574,816	\$3,644	\$1	\$153	\$314	0.63%
	CRSP U.S. Core Cap	1,886	\$45,788,437	\$2,844,653	\$5	\$4,343	\$24,278	6.21%
	CRSP U.S. Large Cap	517	\$40,544,645	\$2,844,653	\$1,205	\$32,981	\$78,423	7.02%
	CRSP U.S. Total Market ex-Mega Cap	3,467	\$12,739,227	\$59,310	\$1	\$726	\$3,674	0.47%
	CRSP U.S. Small/Mid Cap	1,694	\$12,164,411	\$59,310	\$5	\$3,539	\$7,181	0.49%
	CRSP U.S. Small/Micro Cap	3,178	\$5,818,607	\$20,592	\$1	\$562	\$1,831	0.35%
	CRSP U.S. Mega Value	138	\$14,850,239	\$652,799	\$17,632	\$71,078	\$107,610	4.40%
	CRSP U.S. Mid Value	195	\$3,699,753	\$51,078	\$964	\$17,983	\$18,973	1.38%
	CRSP U.S. Small Value	838	\$2,965,884	\$20,592	\$5	\$2,717	\$3,539	0.69%
Value	CRSP U.S. Core Value	1,199	\$21,573,485	\$652,799	\$5	\$4,074	\$17,993	3.03%
	CRSP U.S. Large Value	339	\$18,694,746	\$652,799	\$964	\$28,107	\$55,147	3.49%
	CRSP U.S. Small/Mid Value	1,040	\$6,758,610	\$51,963	\$5	\$3,298	\$6,499	0.77%
	CRSP U.S. Mega Growth	81	\$11,353,226	\$1,683,837	\$9,405	\$50,681	\$140,163	14.83%
	CRSP U.S. Mid Growth	146	\$3,220,867	\$59,310	\$964	\$19,714	\$22,061	1.84%
	CRSP U.S. Small Growth	632	\$2,277,908	\$19,820	\$17	\$2,461	\$3,604	0.87%
Growth								
	CRSP U.S. Core Growth	803	\$24,214,952	\$2,844,653	\$17	\$3,746	\$30,156	11.75%
	CRSP U.S. Large Growth	202	\$21,849,900	\$2,844,653	\$964	\$32,912	\$108,168	13.02%
	CRSP U.S. Small/Mid Growth	729	\$5,405,801	\$59,310	\$17	\$3,497	\$7,415	1.10%
Prime	CRSP ISS Large ESG Prime	172	\$21,687,350	\$2,844,653	\$2,507	\$40,910	\$126,089	13.12%
1 mile	CRSP ISS Large ESG Non-Prime	345	\$18,857,296	\$1,413,137	\$1,205	\$29,121	\$54,659	7.49%
ESG	CRSP ISS Large ESG	258	\$26,297,178	\$2,844,653	\$2,507	\$38,038	\$101,927	10.82%
230	CRSP ISS Large ESG Remainder	259	\$14,247,467	\$1,413,137	\$1,205	\$27,370	\$55,010	9.92%
ESG	CRSP ISS Large ESG Industry Balanced	261	\$28,601,472	\$2,844,653	\$2,507	\$39,328	\$109,584	9.95%
ndustry Balanced	CRSP ISS Large ESG Industry Balanced Remainder	256	\$11,943,173	\$1,413,137	\$1,205	\$25,314	\$46,653	11.83%
	CRSP U.S. Technology	465	\$1,246,164	\$271,099	\$3	\$340	\$2,680	21.75%
	CRSP U.S. Technology Unconstrained		\$12,429,163	\$2,844,653	\$3	\$1,133	\$26,729	22.89%
	CRSP U.S. Media & Communications	144	\$364,129	\$82,281	\$3	\$571	\$2,529	22.60%
	CRSP U.S. Media & Communications Uncons	strained	\$3,634,184	\$1,512,486	\$3	\$571	\$25,237	41.62%
	CRSP U.S. Health Care	797	\$5,841,510	\$498,033	\$2	\$247	\$7,329	8.53%
	CRSP U.S. Healthcare Unconstrained		\$5,841,510	\$498,033	\$2	\$247	\$7,329	8.53%
	CRSP U.S. Financials	625	\$6,317,401	\$652,799	\$3	\$879	\$10,108	10.33%
	CRSP U.S. Financials Unconstrained		\$6,317,401	\$652,799	\$3	\$879	\$10,108	10.33%
	CRSP U.S. Real Estate & REITs	195	\$1,417,665	\$123,151	\$3	\$1,735	\$7,270	8.69%
	CRSP U.S. Real Estate & REITs Unconstrain		\$1,417,665	\$123,151	\$3	\$1,735	\$7,270	8.69%
Sector	CRSP U.S. Consumer Discretionary	396	\$535,259	\$118,556	\$2	\$159	\$1,352	22.15%
ndexes	CRSP U.S. Consumer Discretionary Unconstr		\$5,343,354	\$1,413,137	\$2	\$924	\$13,493	26.45%
	CRSP U.S. Consumer Staples	144	\$231,612	\$33,084	\$1	\$219	\$1,608	14.28%
	CRSP U.S. Consumer Staples Unconstrained		\$2,312,345	\$345,378	\$1	\$1,341	\$16,058	14.94%
	CRSP U.S. Industrials	518	\$4,937,332	\$220,235	\$3	\$1,760	\$9,532	4.46%
	CRSP U.S. Industrials Unconstrained		\$4,937,332	\$220,235	\$3	\$1,760	\$9,532	4.46%
	CRSP U.S. Materials	148	\$1,228,975	\$199,149	\$2	\$2,165	\$8,304	16.20%
	CRSP U.S. Materials Unconstrained		\$1,228,975	\$199,149	\$2	\$2,165	\$8,304	16.20%
	CRSP U.S. Energy	156	\$1,841,033	\$400,533	\$7	\$1,053	\$11,801	21.76%
	CRSP U.S. Energy Unconstrained	74	\$1,841,033	\$400,533	\$7	\$1,053	\$11,801	21.76%
	CRSP U.S. Utilities	71	\$1,060,291	\$122,920	\$23	\$4,607	\$14,934	11.59%
	CRSP U.S. Utilities Unconstrained		\$1,060,291	\$122,920	\$23	\$4,607	\$14,934	11.59%

Note: Data as of 12/29/2023; counts may not add up due to banding and migration, see appendix; CRSP U.S. Mega Cap Growth and 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 "Unconstrained" at the end of the name are not constrained to comply with IRS RIC rules. After 9/5/2023, CRSP U.S. Sector Indexes use ICE's Uniform Entity Sectors classification system

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
Total Market Index	CRSP US Total Market Index (TR)	CRSPTMT	12628H109	12/31/2012	
	CRSP US Total Market Index (PR) CRSP US Total Market Index (AUD-hedged) (TR)	CRSPTM1 CRSPTAHT	12628G101 12633D200	1/18/2011 7/1/2015	4/1/2011
	CRSP US Total Market Index (AUD-hedged) (TR)	CRSPTAH1	12633D101	7/1/2015	
	CRSP US Total Market Total Return Index AUD (TR)	CRSPTMAT	12633D408	7/1/2015	
Index	CRSP US Total Market Index AUD (PR)	CRSPTMA1	12633D309	7/1/2015	
CRSP Canadian Hedged Index	CRSP US Total Market Index (CAD-hedged) (TR)	CRSPTCHT	12630Y108	12/31/2012	
CRSP Canadian Non-Hedged	CRSP US Total Market Index (CAD-hedged) (PR) CRSP US Total Market Total Return Index CAD (TR)	CRSPTCH1 CRSPTMCT	12628G200 12632P204	<u>12/31/2012</u> 4/15/2013	
Index	CRSP US Total Market Index CAD (PR)	CRSPTMC1	12632M201	4/15/2013	
	CRSP US Core Cap Index (TR)	CRSPXMT	12666H102	12/4/2023	
(Mega + Mid + Small)	CRSP US Core Cap Index (PR)	CRSPXM1	12666H201	12/4/2023	4/1/2011
Core Growth	CRSP US Core Cap Growth Index (TR)	CRSPXMGT	12671U106	12/4/2023	9/10/2012
	CRSP US Core Cap Growth Index (PR)	CRSPXMG1	12671U205	12/4/2023	
	CRSP US Core Cap Value Index (TR) CRSP US Core Cap Value Index (PR)	CRSPXMVT CRSPXMV1	12671T109 12671T208	12/4/2023 12/4/2023	9/10/2012 9/10/2012
	CRSP US Mega Cap Index (TR)	CRSPMET	12631H104	12/31/2012	
	CRSP US Mega Cap Index (PR)	CRSPME1	12627R108	8/15/2011	4/1/2011
	CRSP US Mega Cap Growth Index (TR)	CRSPMEGT	12631K107	12/31/2012	9/10/2012
mega Cap Growth	CRSP US Mega Cap Growth Index (PR)	CRSPMEG1	12630R103	10/1/2012	
	CRSP US Mega Cap Value Index (TR)	CRSPMEVT	12631L105	12/31/2012	
U	CRSP US Mega Cap Value Index (PR) CRSP US Large Cap Index (TR)	CRSPMEV1	12630T109	10/1/2012	
Large Cap (Mega + Mid)	CRSP US Large Cap Index (TR) CRSP US Large Cap Index (PR)	CRSPLCT CRSPLC1	12631M103 12627P102	12/31/2012 8/15/2011	4/1/2011 4/1/2011
	CRSP US Large Cap Growth Index (TR)	CRSPLCGT	12631P106	12/31/2012	9/10/2012
Large Cap Growth	CRSP US Large Cap Growth Index (PR)	CRSPLCG1	12630W102	10/1/2012	9/10/2012
Large Cap Value	CRSP US Large Cap Value Index (TR)	CRSPLCVT	12631R102	12/31/2012	
5 .	CRSP US Large Cap Value Index (PR)	CRSPLCV1	12630X100	10/1/2012	9/10/2012
Mid Cap	CRSP US Mid Cap Index (TR)	CRSPMIT	12631T108	12/31/2012	
	CRSP US Mid Cap Index (PR)	CRSPMI1	12627W107	8/15/2011	4/1/2011
Mid Cap Growth	CRSP US Mid Cap Growth Index (TR)	CRSPMIGT	12628N106	12/31/2012	
	CRSP US Mid Cap Growth Index (PR) CRSP US Mid Cap Value Index (TR)	CRSPMIG1 CRSPMIVT	12631A109 12629L109	10/1/2012	
	CRSP US Mid Cap Value Index (PR)	CRSPMIV1	12631C105	10/1/2012	
	CRSP US Small-Mid Cap Index (TR)	CRSPSMT	12591C103	3/10/2014	4/1/2011
	CRSP US Small-Mid Cap Index (PR)	CRSPSM1	12632T107	3/10/2014	4/1/2011
	CRSP US Small-Mid Cap Growth Index (TR)	CRSPSMGT	12591P104	3/10/2014	9/10/2012
•	CRSP US Small-Mid Cap Growth Index (PR)	CRSPSMG1	12591M101	3/10/2014	
	CRSP US Small-Mid Cap Value Index (TR)	CRSPSMVT	12591L103	3/10/2014	9/10/2012
	CRSP US Small-Mid Cap Value Index (PR) CRSP US Small Cap Index (TR)	CRSPSMV1 CRSPSCT	12591E109 12630N102	3/10/2014 12/31/2012	
	CRSP US Small Cap Index (PR)	CRSPSC1	12628A104	8/15/2012	4/1/2011
	CRSP US Small Cap Growth Index (TR)	CRSPSCGT	12630V104	12/31/2012	9/10/2012
	CRSP US Small Cap Growth Index (PR)	CRSPSCG1	12631E101	10/1/2012	9/10/2012
	CRSP US Small Cap Value Index (TR)	CRSPSCVT	12631N101	12/31/2012	9/10/2012
•	CRSP US Small Cap Value Index (PR)	CRSPSCV1	12631F108	10/1/2012	
	CRSP US Micro Cap Index (TR)	CRSPMCT	12631V103	12/31/2012	4/1/2011
	CRSP US Micro Cap Index (PR)	CRSPMC1	12627T104	8/15/2011	4/1/2011
ex-Mega Cap	CRSP US Total Market ex-Mega Cap Index (TR) CRSP US Total Market ex-Mega Cap Index (PR)	CRSPXET CRSPXE1	12666J108 12666J207	12/4/2023 12/4/2023	4/1/2011 4/1/2011
	CRSP US Small-Micro Cap Index (TR)	CRSPMST	12671M104	12/4/2023	4/1/2011
Small-Micro Cap	CRSP US Small-Micro Cap Index (PR)	CRSPMS1	12671M203	12/4/2023	4/1/2011
CRSP ISS ESG Prime	CRSP ISS US Large Cap ESG Prime Index (TR)	CLESGPT	12657Y205	9/7/2021	9/7/2021
CRSP 133 ESG Phille	CRSP ISS US Large Cap ESG Prime Index (PR)	CLESGP	12657Y106	9/7/2021	9/7/2021
LESPISS ESG Non-Prime	CRSP ISS US Large Cap ESG Non-Prime Index (TR)	CLESGNPT	12658A206	9/7/2021	9/7/2021
	CRSP ISS US Large Cap ESG Non-Prime Index (PR)	CLESGNP	12658A107	9/7/2021	9/7/2021
	CRSP ISS US Large Cap ESG Index (TR)	CLESGT	12658D200	9/7/2021	9/7/2021
	CRSP ISS US Large Cap ESG Index (PR) CRSP ISS US Large Cap ESG Remainder Index (TR)	CLESG CLESGRT	12658D101 12658E208	9/7/2021 9/7/2021	9/7/2021 9/7/2021
	CRSP ISS US Large Cap ESG Remainder Index (PR)	CLESGR	12658E109	9/7/2021	9/7/2021
	CRSP ISS US Large Cap ESG Industry Balanced Index				
CRSP ISS ESG Industry	(TR)	CLESGBT	12658F205	9/7/2021	9/7/2021
	CRSP ISS US Large Cap ESG Industry Balanced Index	CLESGB	12658F106	9/7/2021	9/7/2021
	(PR)	522000	120001100	5/1/2021	3/1/2021
	CRSP ISS US Large Cap ESG Industry Balanced	CLESGBRT	12658K204	9/7/2021	9/7/2021
CRSP ISS ESG Industry	Remainder Index (TR)				
	CRSP ISS US Large Cap ESG Industry Balanced	CLESGBR	12658K105	9/7/2021	

Index	Index Name (TR - Total Return, PR - Price Only Return)	Index Identifier	CUSIP	NASDAQ GIDS Post Date	Inception Date Open Val = 1000
Consumer Staples	CRSP US Consumer Staples Index (TR)	CRSPCST	12631W101	12/31/2012	2/1/2012
	CRSP US Consumer Staples Index (PR)	CRSPCS1	12630G107	7/16/2012	2/1/2012
Consumer Discretionary	CRSP US Consumer Discretionary Index (TR)	CRSPCDT	12631X109	12/31/2012	2/1/2012
concurrent Discretionary	CRSP US Consumer Discretionary Index (PR)	CRSPCD1	12630J101	7/16/2012	2/1/2012
Energy	CRSP US Energy Index (TR)	CRSPENT	12631Y107	12/31/2012	2/1/2012
Licity	CRSP US Energy Index (PR)	CRSPEN1	12630A100	7/16/2012	2/1/2012
Financials	CRSP US Financials Index (TR)	CRSPFNT	12632A108	12/31/2012	2/1/2012
T Inanciais	CRSP US Financials Index (PR)	CRSPFN1	12630M104	7/16/2012	2/1/2012
Healthcare	CRSP US Healthcare Index (TR)	CRSPHCT	12632C104	12/31/2012	2/1/2012
Healthcare	CRSP US Healthcare Index (PR)	CRSPHC1	12630H105	7/16/2012	2/1/2012
Industrials	CRSP US Industrials Index (TR)	CRSPIDT	12632E100	12/31/2012	2/1/2012
Industrials	CRSP US Industrials Index (PR)	CRSPID1	12630F109	7/16/2012	2/1/2012
Technology	CRSP US Technology Index (TR)	CRSPITT	12632F107	12/31/2012	2/1/2012
Technology	CRSP US Technology Index (PR)	CRSPIT1	12630P107	7/16/2012	2/1/2012
Materials	CRSP US Materials Index (TR)	CRSPMTT	12632G105	12/31/2012	2/1/2012
Waterials	CRSP US Materials Index (PR)	CRSPMT1	12630E102	7/16/2012	2/1/2012
Media & Communications	CRSP US Media & Communications Index (TR)	CRSPTET	12632H103	12/31/2012	2/1/2012
	CRSP US Media & Communications Index (PR)	CRSPTE1	12630K108	7/16/2012	2/1/2012
Utilities	CRSP US Utilities Index (TR)	CRSPUTT	12632J109	12/31/2012	2/1/2012
ounties	CRSP US Utilities Index (PR)	CRSPUT1	12630L106	7/16/2012	2/1/2012
Real Estate & REITs	CRSP US Real Estate & REITs Index (TR)	CRSPRET	12632K106	12/31/2012	4/1/2011
Real Estate & REITS	CRSP US Real Estate & REITs Index (PR)	CRSPRE1	12627X105	8/15/2011	4/1/2011
Small Cap ex-Real Estate	CRSP US Small Cap ex-Real Estate Index (TR)	CRSPSXT	12632L104	12/31/2012	2/1/2012
Sman Oap ex-Near Estate	CRSP US Small Cap ex-Real Estate Index (PR)	CRSPSX1	12631G106	10/1/2012	9/10/2012

APPENDIX – LIST OF ETFS/MUTUAL FUNDS USING CRSP INDEXES

ETFS

Index Infor	rmation		Fund Information
Name	Ticker	Ticker	URL
Mega Cap	CRSPMET	MGC	https://investor.vanguard.com/investment-products/etfs/profile/mgc
Mega Cap Growth	CRSPMEGT	MGK	https://investor.vanguard.com/investment-products/etfs/profile/mgk
Mega Cap Value	CRSPMEVT	MGV	https://investor.vanguard.com/investment-products/etfs/profile/mgv
Large Cap	CRSPLCT	VV	https://investor.vanguard.com/investment-products/etfs/profile/vv
Large Cap Growth	CRSPLCGT	VUG	https://investor.vanguard.com/investment-products/etfs/profile/vug
Large Cap Value	CRSPLCVT	VTV	https://investor.vanguard.com/investment-products/etfs/profile/vtv
Mid Cap	CRSPMIT	VO	https://investor.vanguard.com/investment-products/etfs/profile/vo
Mid Cap Growth	CRSPMIGT	VOT	https://investor.vanguard.com/investment-products/etfs/profile/vot
Mid Cap Value	CRSPMIVT	VOE	https://investor.vanguard.com/investment-products/etfs/profile/voe
Small Cap	CRSPSCT	VB	https://investor.vanguard.com/investment-products/etfs/profile/vb
Small Cap Growth	CRSPSCGT	VBK	https://investor.vanguard.com/investment-products/etfs/profile/vbk
Small Cap Value	CRSPSCVT	VBR	https://investor.vanguard.com/investment-products/etfs/profile/vbr
Total Market	CRSPTMT	VTI	https://investor.vanguard.com/investment-products/etfs/profile/vti
Canadian Hedged*	CRSPTCHT	VUS	https://www.vanguard.ca/en/advisor/products/products-group/etfs/VUS
Canadian Non- Hedged*	CRSPTMCT	VUN	https://www.vanguard.ca/en/advisor/products/products-group/etfs/VUN

MUTUAL FUNDS

Index Infor Name	mation Ticker	Ticker	Fund Information URL
Mega Cap	CRSPME1	VMCTX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vmctx
Mega Cap Growth	CRSPMEG1	VMGAX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vmgax
Mega Cap Value	CRSPMEV1	VMVLX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vmvlx
Large Cap	CRSPLC1	VLCAX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vlcax
Large Cap Growth	CRSPLCG1	VIGAX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vigax
Large Cap Value	CRSPLCV1	VIVIX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vivix
Mid Cap	CRSPMI1	VVAMCIV	https://advisors.vanguard.com/investments/products/0288/vanguard-variable- insurance-fund-mid-cap-index-portfolio
Mid Cap	CRSPMI1	VIMAX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vimax
Mid Cap Growth	CRSPMIG1	VMGMX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vmgmx
Mid Cap Value	CRSPMIV1	VMVAX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vmvax
Small Cap	CRSPSC1	VSMAX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vsmax
Small Cap Growth	CRSPSCG1	VSGAX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vsgax
Small Cap Value	CRSPSCV1	VSIAX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vsiax
Total Market Total Market Total Market	CRSPTM1 CRSPTM1 CRSPTM1	VBIAX VITPX VTSMX	https://investor.vanguard.com/investment-products/mutual-funds/profile/vbiax https://investor.vanguard.com/investment-products/mutual-funds/profile/vitpx https://institutional.vanguard.com/investments/product-details/fund/0585

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 <u>CRSP</u> <u>Methodology</u>.

Float-Adjusted Market Cap: represents the float-adjusted market capitalization of a company as described in the <u>CRSP</u> <u>Methodology</u>. 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

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