





### U.S. MARKET FOR THE PAST 12 MONTHS



Note: Data as of 02/28/2021; 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 6/30/2020; CRSP U.S. Sector Indexes based on FTSE ICB® methodology are used for returns prior to 6/30/2020. 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 U.S. INDEXES PERFORMANCE**

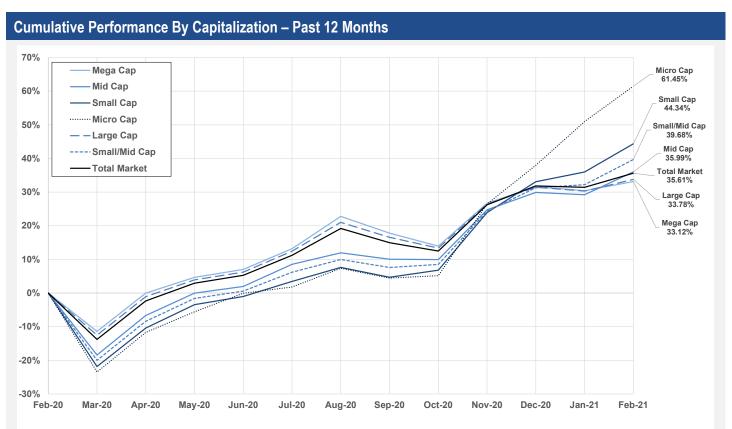
CRSP U.S. Cap and Style Indexes Performance										
		Float-Adjusted Return for					rn for	or		
Category	Index Name	Count	Market Cap (\$M)	1 Month	3 Months	YTD	1 Year	3 Years	5 Years	
Total Market	CRSP U.S. Total Market	3,588	\$39,195,631	3.18%	7.44%	2.85%	35.61%	15.05%	17.46%	
	CRSP U.S. Mega Cap	231	\$27,106,275	2.09%	5.10%	1.13%	33.12%	15.15%	17.70%	
	CRSP U.S. Mid Cap	337	\$6,154,739	5.25%	9.02%	4.70%	35.99%	13.74%	15.85%	
	CRSP U.S. Small Cap	1,400	\$5,230,416	6.14%	16.50%	8.47%	44.34%	14.76%	17.08%	
Сар	CRSP U.S. Micro Cap	1,731	\$704,202	6.94%	27.69%	17.02%	61.45%	17.21%	19.95%	
	CRSP U.S. Large Cap	546	\$33,261,014	2.66%	5.80%	1.77%	33.78%	14.96%	17.42%	
	CRSP U.S. Small Mid Cap	1,704	\$11,385,154	5.66%	12.35%	6.40%	39.68%	14.23%	16.43%	
	CRSP U.S. Mega Value	141	\$12,175,888	4.39%	7.38%	3.47%	20.56%	8.46%	12.80%	
	CRSP U.S. Mid Value	190	\$2,996,874	7.42%	10.98%	7.23%	24.99%	7.62%	12.04%	
Value	CRSP U.S. Small Value	903	\$2,872,451	8.76%	18.45%	11.05%	35.37%	9.20%	13.19%	
	CRSP U.S. Large Value	316	\$14,942,531	5.05%	7.97%	4.22%	21.25%	8.18%	12.75%	
	CRSP U.S. Small Mid Value	1085	\$5,821,146	7.80%	14.32%	8.84%	29.45%	8.18%	12.34%	
	CRSP U.S. Mega Growth	98	\$14,930,387	0.28%	3.30%	-0.70%	44.68%	21.49%	22.45%	
	CRSP U.S. Mid Growth	160	\$3,157,864	3.28%	7.20%	2.41%	46.34%	19.73%	19.52%	
Growth	CRSP U.S. Small Growth	594	\$2,357,965	3.12%	14.24%	5.48%	53.82%	21.13%	21.51%	
	CRSP U.S. Large Growth	252	\$18.318.483	0.79%	4.08%	-0.14%	45.27%	21.45%	21.92%	
	CRSP U.S. Small Mid Growth	736	\$5,564,008	3.51%	10.36%	3.96%	49.76%	20.52%	20.65%	

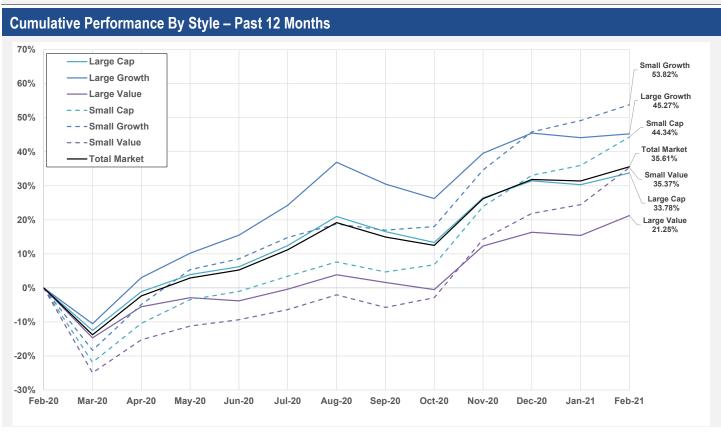
Note: Data as of 02/28/2021; returns computation is based on total returns; data for 1-, 3-, and 5-years is annualized; counts may not add up due to banding and migration, see appendix



Note: Data for lowest market capitalization is as of 12/2/2020 ranking; company counts as of 02/28/2021; counts may not add up due to banding and migration, see appendix

Note: Data as of 02/28/2021; returns computation is based on total returns



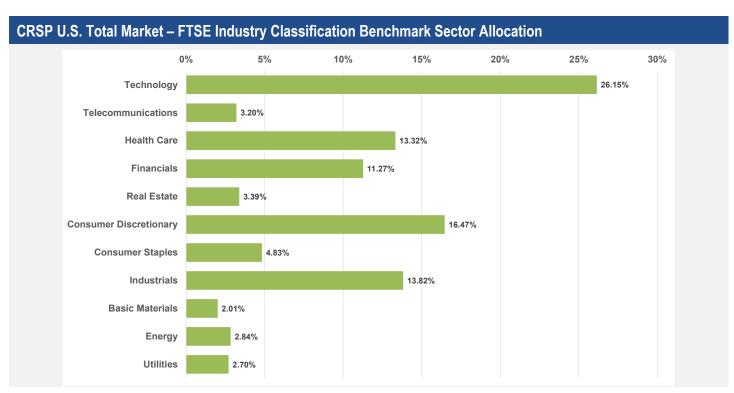


Note: Data as of 02/28/2021; returns computation is based on total returns

## **CRSP U.S. SECTORS PERFORMANCE**

CKOP	U.S. Sector Indexes Performa	nce								
<b>.</b> .			Float-Adjusted	Return for						
Category	Index Name	Count	Market Cap (\$M)	1 Month	3 Months	YTD	1 Year	3 Years	5 Years	
Total Market	CRSP U.S. Total Market	3,588	\$39,195,631	3.18%	7.44%	2.85%	35.61%	15.05%	17.46%	
	CRSP U.S. Technology CRSP U.S. Technology Unconstrained	387	<b>\$1,032,209</b> \$10,250,482	1.76%	8.52%	2.97%	58.76%	27.80%	30.38%	
	CRSP U.S. Telecommunications CRSP U.S. Telecommunications Unconstrain	<b>86</b> ied	<b>\$131,172</b> \$1,255,975	2.11%	5.77%	2.51%	33.90%	13.44%	10.02%	
Sector Indexes	CRSP U.S. Health Care CRSP U.S. Health Care Unconstrained	763	<b>\$5,223,704</b> \$5,223,704	-1.60%	5.11%	0.83%	30.41%	14.72%	15.50%	
	CRSP U.S. Financials CRSP U.S. Financials Unconstrained	627	<b>\$4,418,623</b> \$4,418,623	11.26%	16.95%	9.77%	27.40%	10.61%	16.49%	
	CRSP U.S. Real Estate CRSP U.S. Real Estate Unconstrained	212	<b>\$1,327,063</b> \$1,327,063	3.34%	6.47%	3.20%	6.83%	11.83%	8.92%	
	CRSP U.S. Consumer Discretionary CRSP U.S. Consumer Discretionary Unconst	<b>512</b> rained	<b>\$6,458,363</b> \$6,458,363	1.52%	7.76%	1.87%	54.34%	20.42%	19.57%	
	CRSP U.S. Consumer Staples CRSP U.S. Consumer Staples Unconstrained	<b>132</b>	<b>\$1,892,240</b> \$1,892,240	-0.73%	-1.60%	-4.24%	16.93%	8.00%	8.56%	
	CRSP U.S. Industrials CRSP U.S. Industrials Unconstrained	503	<b>\$5,411,655</b> \$5,411,655	7.66%	6.56%	3.05%	33.87%	12.93%	17.60%	
	CRSP U.S. Basic Materials CRSP U.S. Basic Materials Unconstrained	118	<b>\$132,611</b> \$786,674	6.46%	7.38%	3.30%	45.11%	6.98%	13.97%	
	CRSP U.S. Energy CRSP U.S. Energy Unconstrained	160	<b>\$1,111,360</b> \$1,111,360	18.85%	34.37%	26.61%	18.63%	-5.07%	0.839	
	CRSP U.S. Utilities CRSP U.S. Utilities Unconstrained	88	<b>\$1,059,492</b> \$1,059,492	-5.19%	-5.66%	-6.51%	-2.18%	9.85%	9.029	

Note: Data as of 02/28/2021; 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 6/30/2020; CRSP U.S. Sector Indexes based on FTSE ICB® methodology are used for returns prior to 6/30/2020. For more details on pairing between EICB-based and ICB-based CRSP U.S. Sector Indexes refer to our white paper and public announcement.



Note: Data as of 02/28/2021; Sector weights are computed using company's assignment to the industry as defined by Enhanced FTSE ICB®

# **CRSP U.S. INDEXES LINKED ASSET VALUES**

	Index Name	Index	NASDAQ GIDS -	Linked AUMs (\$M) as of Feb-2021		
Index	(TR - Total Return, PR - Price Only Return)	Identifier	Post Date	ETF	Mutual Fund	Total
Total Market	CRSP US Total Market Index (TR)	CRSPTMT	12/31/2012	\$213,024		\$1,197,709
	CRSP US Total Market Index (PR)	CRSPTM1	1/18/2011		\$984,685	+ ., ,
CRSP Australian Hedged	CRSP US Total Market Index (AUD-hedged) (TR)	CRSPTAHT	7/1/2015			
	CRSP US Total Market Index (AUD-hedged) (PR)	CRSPTAH1	7/1/2015			
CRSP Australian Non-Hedged	CRSP US Total Market Total Return Index AUD (TR)	CRSPTMAT	7/1/2015			
	CRSP US Total Market Total Return Index AUD (PR)  CRSP US Total Market Index (CAD-hedged) (TR)	CRSPTMA1 CRSPTCHT	7/1/2015 12/31/2012	<b>¢672</b>		
CRSP Canadian Hedged	CRSP US Total Market Index (CAD-hedged) (PR)	CRSPTCH1	12/31/2012	\$673		\$673
	CRSP US Total Market Total Return Index CAD (TR)	CRSPTMCT	4/15/2013	\$2,683		
CRSP Canadian Non-Hedged	CRSP US Total Market Total Return Index CAD (PR)	CRSPTMC1	4/15/2013	Ψ2,003		\$2,683
	CRSP US Mega Cap Index (TR)	CRSPMET	12/31/2012	\$3,377		
Mega Cap	CRSP US Mega Cap Index (PR)	CRSPME1	8/15/2011	ψυ,υτι	\$178	\$3,555
	CRSP US Mega Cap Growth Index (TR)	CRSPMEGT	12/31/2012	\$9,808		
Mega Cap Growth	CRSP US Mega Cap Growth Index (PR)	CRSPMEG1	10/1/2012	40,000	\$34	\$9,841
	CRSP US Mega Cap Value Index (TR)	CRSPMEVT	12/31/2012	\$3,729	·	****
Mega Cap Value	CRSP US Mega Cap Value Index (PR)	CRSPMEV1	10/1/2012	, .,	\$129	\$3,858
Large Cap	CRSP US Large Cap Index (TR)	CRSPLCT	12/31/2012	\$21,889		<b>\$00.500</b>
(Mega + Mid)*	CRSP US Large Cap Index (PR)	CRSPLC1	8/15/2011		\$11,632	\$33,522
Largo Can Growth*	CRSP US Large Cap Growth Index (TR)	CRSPLCGT	12/31/2012	\$67,615		¢1/// 727
Large Cap Growth*	CRSP US Large Cap Growth Index (PR)	CRSPLCG1	10/1/2012		\$77,122	\$144,737
Large Cap Value*	CRSP US Large Cap Value Index (TR)	CRSPLCVT	12/31/2012	\$66,511		\$104,782
Laigo Cap Value	CRSP US Large Cap Value Index (PR)	CRSPLCV1	10/1/2012		\$38,271	ψ104,762
Mid Cap	CRSP US Mid Cap Index (TR)	CRSPMIT	12/31/2012	\$44,137		\$141,437
	CRSP US Mid Cap Index (PR)	CRSPMI1	8/15/2011		\$97,300	ψ. Γι,ποι
Mid Cap Growth	CRSP US Mid Cap Growth Index (TR)	CRSPMIGT	12/31/2012	\$10,347		\$21,494
	CRSP US Mid Cap Growth Index (PR)	CRSPMIG1	10/1/2012		\$11,147	<del></del>
Mid Cap Value	CRSP US Mid Cap Value Index (TR)	CRSPMIVT	12/31/2012	\$12,157		\$22,989
•	CRSP US Mid Cap Value Index (PR)	CRSPMIV1	10/1/2012		\$10,832	
Small-Mid Cap	CRSP US Small-Mid Cap Index (TR)	CRSPSMT	3/10/2014			
	CRSP US Small-Mid Cap Index (PR)	CRSPSM1	3/10/2014 3/10/2014			
Small-Mid Cap Growth	CRSP US Small-Mid Cap Growth Index (TR) CRSP US Small-Mid Cap Growth Index (PR)	CRSPSMGT CRSPSMG1	3/10/2014			
	CRSP US Small-Mid Cap Value Index (TR)	CRSPSMVT	3/10/2014			
Small-Mid Cap Value	CRSP US Small-Mid Cap Value Index (TK)	CRSPSMV1	3/10/2014			
	CRSP US Small Cap Index (TR)	CRSPSCT	12/31/2012	\$42,346		
Small Cap	CRSP US Small Cap Index (PR)	CRSPSC1	8/15/2011	Ψ42,340	\$84,473	\$126,819
	CRSP US Small Cap Growth Index (TR)	CRSPSCGT	12/31/2012	\$15,463	ψο-1,-110	
Small Cap Growth	CRSP US Small Cap Growth Index (PR)	CRSPSCG1	10/1/2012	Ψ10,400	\$21,355	\$36,818
	CRSP US Small Cap Value Index (TR)	CRSPSCVT	12/31/2012	\$21,158	<del>-</del>	
Small Cap Value	CRSP US Small Cap Value Index (PR)	CRSPSCV1	10/1/2012	4=.,	\$20,334	\$41,492
	CRSP US Micro Cap Index (TR)	CRSPMCT	12/31/2012			
Micro Cap Index	CRSP US Micro Cap Index (PR)	CRSPMC1	8/15/2011			
	CRSP US Consumer Staples Index (TR)	CRSPCST	12/31/2012			
Consumer Staples Sector	CRSP US Consumer Staples Index (PR)	CRSPCS1	7/16/2012			
0	CRSP US Consumer Discretionary Index (TR)	CRSPCDT	12/31/2012			
Consumer Discretionary Sector	CRSP US Consumer Discretionary Index (PR)	CRSPCD1	7/16/2012			
Energy Sector	CRSP US Energy Index (TR)	CRSPENT	12/31/2012			
Lifergy Sector	CRSP US Energy Index (PR)	CRSPEN1	7/16/2012			
Financials Sector	CRSP US Financials Index (TR)	CRSPFNT	12/31/2012			
	CRSP US Financials Index (PR)	CRSPFN1	7/16/2012			
Health Care Sector	CRSP US Health Care Index (TR)	CRSPHCT	12/31/2012			
	CRSP US Health Care Index (PR)	CRSPHC1	7/16/2012			
Industrials Sector	CRSP US Industrials Index (TR)	CRSPIDT	12/31/2012			
	CRSP US Industrials Index (PR)	CRSPID1	7/16/2012			
Technology Sector	CRSP US Technology Index (TR)	CRSPITT	12/31/2012			
	CRSP US Technology Index (PR)	CRSPIT1	7/16/2012			
Basic Materials Sector	CRSP US Basic Materials Index (TR)	CRSPMTT	12/31/2012			
	CRSP US Basic Materials Index (PR)	CRSPMT1 CRSPTET	7/16/2012			
Telecommunications Sector	CRSP US Telecommunications Index (TR)		12/31/2012			
	CRSP US Telecommunications Index (PR)	CRSPTE1	7/16/2012			
Utilities Sector	CRSP US Utilities Index (TR)	CRSPUTT	12/31/2012			
	CRSP US Utilities Index (PR) CRSP US Real Estate Index (TR)	CRSPUT1 CRSPRET	7/16/2012 12/31/2012			
		CHOPKET	12/31/2012			
Real Estate Index Sector	` '	CRSPRF1	8/15/2011			
	CRSP US Real Estate Index (PR)	CRSPRE1 CRSPSXT	8/15/2011 12/31/2012			
Real Estate Index Sector  Small Cap ex-Real Estate	` '	CRSPRE1 CRSPSXT CRSPSX1	8/15/2011 12/31/2012 10/1/2012			

Note: Data as of 02/28/2021; Linked assets values are in millions of USD

### RECENT RESEARCH PAPERS USING CRSP DATA

- Paper: The Smart Beta Mirage
  - Summary: The paper documents and explains the sharp performance deterioration of smart beta indexes
    after the corresponding smart beta ETFs are launched for investment.
  - o CRSP Databases Used: CRSP US Stock Databases, CRSP US Indexes
  - o Authors: Shiyang Huang, Yang Song, Hong Xiang
- Paper: Do Institutional Investors Mitigate Social Costs of Privatization? Evidence from Prisons
  - Summary: The paper finds that privatization is associated with an increase in prisoner suicides by up to 39%.
     However, institutional investors of public companies managing private prisons decrease suicide rates by one third.
  - CRSP Databases Used: CRSP US Stock Databases, CRSP MFDB
  - Author: Eyub Yegen
- Paper: Investor Returns on the Life Cycle of SPACs
  - Summary: The paper documents the recent evolution of the economic structure of SPACs toward a more sustainable equilibrium. The paper shows that SPAC sponsors, on average, forfeit more than 30% of their compensation and transfer most of it to other investors as inducements to provide cash to complete a merger.
  - CRSP Databases Used: CRSP US Stock Databases, CRSP US Indexes
  - Authors: Minmo Gahng, Jay R. Ritter, Donghang Zhang

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Since 2013, CRSP LLC has maintained, disseminated and expanded its' proprietary investable index product line. Currently comprising over 66 capitalization-based, industry sector 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, as well as 11 Sector Indexes. A **quick reference guide** provides an overview of the CRSPMI index offerings.

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## APPENDIX - CRSP U.S. INDEXES DESCRIPTIVE INFORMATION

			Float-Adjusted	Largest Company	Smallest	Median	Average	Largest Company
Category	Index Name	Count	Market Cap (\$M)	(\$M)	Company (\$M)	Company (\$M)	Company (\$M)	Weight (%)
otal Market	CRSP U.S. Total Market	3,588	\$39,195,631	\$1,855,475	\$4	\$1,129	\$10,924	4.73%
	CRSP U.S. Mega Cap	231	\$27,106,275	\$1,855,475	\$2,521	\$61,915	\$117,343	6.85%
	CRSP U.S. Mid Cap	337	\$6,154,739	\$61,290	\$1,366	\$16,994	\$18,263	1.00%
	CRSP U.S. Small Cap	1,400	\$5,230,416	\$23,999	\$57	\$2,895	\$3,736	0.46%
Сар	CRSP U.S. Micro Cap	1,731	\$704,202	\$5,328	\$4	\$213	\$407	0.76%
	CRSP U.S. Large Cap	546	\$33,261,014	\$1,855,475	\$1,366	\$26,583	\$60,918	5.58%
	CRSP U.S. Small Mid Cap	1,704	\$11,385,154	\$61,290	\$57	\$3,647	\$6,681	0.54%
	CRSP U.S. Mega Value	141	\$12,175,888	\$448,604	\$2,521	\$54,975	\$86,354	3.68%
	CRSP U.S. Mid Value	190	\$2,996,874	\$49,267	\$782	\$15,451	\$15,773	1.64%
Value	CRSP U.S. Small Value	903	\$2,872,451	\$16,560	\$57	\$2,323	\$3,181	0.58%
	CRSP U.S. Large Value	316	\$14,942,531	\$448,604	\$782	\$23,758	\$47,286	3.00%
	CRSP U.S. Small Mid Value	1,085	\$5,821,146	\$49,267	\$57	\$2,936	\$5,365	0.85%
	CRSP U.S. Mega Growth	98	\$14,930,387	\$1,855,475	\$3,107	\$65,103	\$152,351	12.43%
Growth	CRSP U.S. Mid Growth	160	\$3,157,864	\$61,290	\$782	\$18,510	\$19,737	1.94%
	CRSP U.S. Small Growth	594	\$2,357,965	\$23,999	\$77	\$3,015	\$3,970	1.02%
	CRSP U.S. Large Growth	252	\$18,318,483	\$1,855,475	\$782	\$28,100	\$72,692	10.13%
	CRSP U.S. Small Mid Growth	736	\$5,564,008	\$61,290	\$77	\$3,996	\$7,560	1.10%
	CRSP U.S. Technology	387	\$1,032,209	\$180,649	\$9	\$356	\$2,667	17.50%
	CRSP U.S. Technology Unconstrained		\$10,250,482	\$1,855,475	\$9	\$2,310	\$26,487	18.10%
	CRSP U.S. Telecommunications	86	\$131,172	\$19,991	\$18	\$601	\$1,525	15.24%
	CRSP U.S. Telecommunications Unconstrained		\$1,255,975	\$240,713	\$18	\$668	\$14,604	19.17%
	CRSP U.S. Health Care	763	\$5,223,704	\$417,153	\$10	\$528	\$6,846	7.99%
	CRSP U.S. Health Care Unconstrained CRSP U.S. Financials	627	\$5,223,704	\$417,153	\$10	\$528 <b>\$752</b>	\$6,846	7.99% <b>10.15%</b>
	CRSP U.S. Financials CRSP U.S. Financials Unconstrained	627	<b>\$4,418,623</b> \$4,418,623	<b>\$448,604</b> \$448,604	<b>\$4</b> \$4	\$7 <b>52</b> \$752	<b>\$7,047</b> \$7,047	10.15% 10.15%
	CRSP U.S. Real Estate	212	\$1,327,063	\$96,008	\$5	\$2,041	\$6,260	7.23%
	CRSP U.S. Real Estate Unconstrained	212	\$1,327,063	\$96,008	\$5	\$2,041	\$6,260 \$6.260	7.23%
Sector	CRSP U.S. Consumer Discretionary	512	\$6,458,363	\$1,319,099	\$ <b>5</b>	\$1,582	\$12,614	20.42%
Indexes	CRSP U.S. Consumer Discretionary Unconstrain		\$6,458,363	\$1,319,099	<b>\$5</b>	\$1,582 \$1,582	\$12,614	20.42%
	CRSP U.S. Consumer Staples	132	\$1,892,240	\$306,306	\$8	\$1,684	\$14,335	16.19%
	CRSP U.S. Consumer Staples Unconstrained	.02	\$1,892,240	\$306,306	\$8	\$1,684	\$14,335	16.19%
	CRSP U.S. Industrials	503	\$5,411,655	\$359,445	\$6	\$1,859	\$10,759	6.64%
	CRSP U.S. Industrials Unconstrained		\$5,411,655	\$359,445	\$6	\$1,859	\$10,759	6.64%
	CRSP U.S. Basic Materials	118	\$132,611	\$21,239	\$17	\$346	\$1,124	16.02%
	CRSP U.S. Basic Materials Unconstrained		\$786,674	\$128,061	\$20	\$1,966	\$6,667	16.28%
	CRSP U.S. Energy	160	\$1,111,360	\$229,889	\$17	\$694	\$6,946	20.69%
	CRSP U.S. Energy Unconstrained		\$1,111,360	\$229,889	\$17	\$694	\$6,946	20.69%
	CRSP U.S. Utilities	88	\$1,059,492	\$143,953	\$41	\$3,771	\$12,040	13.59%
	CRSP U.S. Utilities Unconstrained		\$1,059,492	\$143,953	\$41	\$3,771	\$12,040	13.59%

Note: Data as of 02/28/2021; 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 6/30/2020; CRSP U.S. Sector Indexes based on FTSE ICB® methodology are used prior to 6/30/2020. 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 - 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

#### **About CRSP**

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