



VERMILION RESEARCH, LLC

ETF Navigator

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Relative Strength Ranking - RSR

% Price Δ

Group or Corp	Ticker	Price	MKT Cap(MM)	Relative Strength Ranking - RSR																TRIPLE CYCLE	50 DAY	200 DAY	MACD	% Price Δ					
				04/18	04/11	04/04	03/28	03/21	03/14	03/07	02/28	02/21	02/14	02/07	01/31	01/24	01/17	01/10	12/03					12/27	1 week	1 month	3 month		
SECTORS (US)																													
EF-24	Consumer Discr.			26	25	23	26	28	28	26	23	23	12	11	5	11	9	9	8	6	6	D3	6	BF	BF	-18	-0.37%	-4.81%	-13.52%
	Consumer Discretionary Select Sector XLY	185.40	18,123	27	25	26	27	28	28	26	17	10	9	9	6	7	5	5	4	3	3	D3	3	BF	BF	-74	-2.28%	-5.84%	-18.89%
	Vanguard Consumer Discretionary ETF VCR	306.15	5,045	29	27	26	28	30	29	29	17	12	10	10	6	7	6	5	5	4	4	D3	4	BF	BF	-73	-1.93%	-6.14%	-20.30%
	iShares U.S. Home Construction ETF ITB	89.07	2,351	29	29	25	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	D3	15	BF	BF	+16	-0.19%	-6.07%	-17.90%
	Fidelity MSCI Consumer Discretionary FDIS	79.54	1,619	29	27	26	29	30	29	29	17	12	10	10	6	7	6	5	5	3	4	D3	4	BF	BF	-73	-1.90%	-6.16%	-20.26%
	SPDR S&P Homebuilders ETF XHB	90.85	1,449	29	28	26	30	30	30	30	30	30	30	30	25	29	30	30	30	29	29	D3	15	BF	BF	+15	-0.46%	-6.44%	-17.64%
	iShares U.S. Consumer Discretionary E IYC	84.51	1,225	25	22	23	25	27	27	13	9	9	8	8	7	8	7	5	6	4	5	D3	3	BF	BR	-73	-0.74%	-4.30%	-13.59%
	First Trust Consumer Discretionary Alp FXD	54.13	338	28	28	27	29	29	30	28	26	19	12	14	12	13	13	11	13	10	11	D3	5	BF	BF	+5	0.46%	-7.20%	-17.45%
	Invesco Dynamic Leisure & Entertainm PEJ	46.70	309	25	26	26	25	25	27	13	6	7	6	5	6	9	9	7	7	6	7	D3	2	BF	BR	-68	1.48%	-5.80%	-11.58%
	SPDR S&P Retail ETF XRT	66.50	263	27	27	26	29	30	30	30	30	20	22	14	15	18	11	13	10	11	11	D3	5	BF	BF	+6	0.29%	-3.43%	-14.99%
	VanEck Retail ETF RTH	221.21	230	15	10	12	17	19	19	12	3	6	4	3	1	3	4	2	5	3	4	D2	5	BF	BR	-75	-0.96%	-0.34%	-4.20%
	Invesco S&P 500 Equal Weight Consu RCD	46.70	187	26	25	22	26	26	26	13	10	12	11	13	12	13	12	11	12	9	9	D3	4	BF	BF	-69	-0.32%	-6.91%	-13.19%
	First Trust Nasdaq Food & Beverage E FTXG	23.27	36	11	8	7	14	11	9	9	27	19	30	30	30	30	30	29	28	29	29	U2	1	AR	BR	+18	0.47%	2.00%	4.22%
	iShares U.S. Consumer Focused ETF IEDI	49.69	32	19	17	18	25	27	27	13	9	11	9	10	10	13	12	10	11	9	10	D3	3	BF	BR	-73	-0.54%	-1.09%	-8.38%
	Invesco S&P SmallCap Consumer Dis PSCD	84.82	19	30	30	29	30	30	30	30	30	22	22	12	14	17	15	16	14	14	14	D3	6	BF	BF	+6	0.39%	-9.12%	-22.66%
	First Trust Nasdaq Retail ETF ISHP	34.50	7	17	16	18	16	12	7	2	2	2	1	1	1	3	3	2	2	1	1	D2	3	BF	BR	-71	0.64%	-5.87%	-4.19%
EF-25	Consumer Staples			8	7	8	15	20	19	11	14	18	27	28	27	27	27	28	24	23	22	D3	3	AR	AR	+1	1.16%	2.89%	3.08%
	Consumer Staples Select Sector SPDF XLP	81.87	15,717	4	4	7	12	11	9	6	9	11	22	22	24	25	29	28	23	21	21	D1	1	AR	AR	-7	1.89%	3.75%	6.56%
	Vanguard Consumer Staples ETF VDC	220.35	7,356	4	4	7	13	11	9	6	8	10	16	18	22	25	24	23	22	17	17	D1	1	AR	AR	-67	1.62%	4.06%	5.79%
	iShares U.S. Consumer Staples ETF IYK	71.45	1,518	3	2	3	3	6	6	4	8	10	22	29	24	30	29	29	28	25	26	U3	3	AR	AR	-6	1.61%	3.19%	10.51%
	FIDELITY COVINGTON TRUST MSCI FSTA	51.53	1,329	4	4	7	12	18	9	6	8	10	16	18	22	25	24	23	22	17	17	D1	1	AR	AR	-67	1.78%	4.16%	5.84%
	First Trust Consumer Staples AlphaDE FXG	65.08	286	11	9	9	16	23	22	13	26	19	30	30	24	30	29	29	28	26	26	U1	1	AR	BR	+15	0.91%	3.42%	2.29%
	Invesco S&P 500 Equal Weight Consu RHS	30.45	262	8	8	7	13	11	9	8	17	19	30	30	30	30	30	29	28	25	25	U2	1	AR	BR	+18	1.33%	2.10%	4.20%
	Invesco Dynamic Food & Beverage ET PBJ	46.07	95	13	11	12	20	24	25	13	17	19	22	22	19	25	24	24	19	20	19	D3	7	AF	BR	+6	1.05%	2.90%	-0.84%
	Invesco S&P SmallCap Consumer Staj PSCC	34.02	43	20	18	17	25	28	27	13	29	28	22	29	24	23	22	23	15	15	14	D3	6	BF	BF	+7	-0.90%	-0.46%	-8.87%
EF-26	Communications			22	19	21	19	17	18	8	3	2	2	1	1	1	2	1	1	1	1	D3	1	BF	BR	-18	-1.05%	-8.07%	-10.13%
	Communication Services Select Sector XLC	90.21	18,994	19	17	18	16	9	9	5	6	5	6	7	7	9	10	8	8	6	7	D2	3	BF	BR	-114	-1.16%	-7.30%	-7.10%
	Vanguard Communication Services ET VOX	138.78	3,951	25	20	23	22	11	9	8	7	7	6	7	6	8	9	6	7	6	7	D3	1	BF	BR	-113	-1.84%	-8.33%	-11.75%
	Fidelity MSCI Communication Services FCOM	52.63	1,284	25	20	23	22	19	9	8	7	7	6	6	6	8	9	6	7	6	7	D3	1	BF	BR	-113	-1.75%	-8.20%	-11.61%
	iShares U.S. Telecommunications ETF IYZ	25.75	341	17	15	16	7	8	9	5	6	7	8	9	10	8	9	7	6	5	6	D2	3	BF	BR	-39	-0.19%	-5.44%	-5.05%
	SPDR S&P Telecom ETF XTL	91.64	99	27	27	26	24	11	21	13	11	9	9	9	12	9	9	7	5	5	4	D3	3	BF	BR	-43	-0.31%	-11.06%	-15.14%
EF-27	Energy			25	27	26	14	16	20	27	21	12	17	21	21	10	1	3	15	23	28	D3	3	BF	BF	-8	3.45%	-11.15%	-18.24%
	Energy Select Sector SPDR Fund XLE	81.50	27,060	20	25	20	4	6	9	13	11	12	22	22	24	18	11	15	23	28	29	D3	3	BF	BF	-8	3.31%	-11.22%	-12.58%
	Vanguard Energy ETF VDE	113.43	6,673	21	26	21	4	7	9	13	17	16	22	22	24	16	10	13	22	28	29	D3	4	BF	BF	-26	3.55%	-11.00%	-13.93%
	SPDR S&P Oil & Gas Exploration & Pr XOP	111.93	1,836	29	30	29	19	11	26	30	29	19	22	29	24	14	9	10	20	28	30	D3	7	BF	BF	+37	4.05%	-14.30%	-22.60%
	Fidelity MSCI Energy Index ETF FENY	22.35	1,352	21	26	21	4	6	9	13	17	13	22	22	24	16	10	13	22	27	29	D3	3	BF	BF	+3	3.52%	-10.99%	-13.93%
	iShares U.S. Energy ETF IYE	43.20	1,145	20	25	20	4	6	9	13	12	13	22	22	24	18	10	14	22	28	29	D3	3	BF	BF	-26	3.40%	-10.76%	-12.91%
	United States Oil Fund LP USO	69.48	1,016	18	25	17	14	17	20	24	15	15	17	14	6	5	1	1	3	9	20	D3	2	BF	BF	-9	4.54%	-5.84%	-15.80%
	VanEck Oil Services ETF OIH	218.84	897	30	30	30	25	27	29	30	30	28	27	29	28	17	5	22	25	28	30	D3	9	BF	BF	+38	4.07%	-15.51%	-26.93%
	iShares U.S. Oil & Gas Exploration & P IEO	81.23	467	26	28	26	13	14	9	28	17	18	22	22	24	16	11	13	23	29	30	D3	7	BF	BF	+37	3.44%	-12.93%	-17.57%
	Invesco S&P 500 Equal Weight Energy RYE	71.12	432	24	27	26	7	7	9	13	11	10	17	22	23	13	8	11	20	28	29	D3	2	BF	BF	-24	3.82%	-11.99%	-16.11%
	United States Natural Gas Fund LP UNG	17.03	386	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	D1	1	BF	AR	-3	-8.59%	-18.28%	-7.14%
	First Trust Natural Gas ETF FCG	21.36	315	27	28	28	13	11	21	30	25	13	17	22	21	13	8	7	14	27	29	D3	3	BF	BF	+6	4.40%	-13.02%	-20.21%
	First Trust Energy AlphaDEX Fund FXN	14.23	274	27	29	29	17	11	24	29	25	19	21	22	24	14	9	11	20	28	29	D3	7	BF	BF	+34	4.56%	-12.72%	-20.74%

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				EF-30 Healthcare				26	26	22	24	22	23	23	28	27	29	28	24					26	29	28	28	28	29
Health Care Select Sector SPDR Fund XLV		135.49	35,080	17	16	14	14	8	9	7	11	19	22	22	24	25	30	29	29	28	29	D2	3	BF	BF	+ 19	-1.01%	-7.22%	-2.97%
Vanguard Health Care ETF	VHT	246.13	15,101	18	17	16	17	11	9	9	13	19	22	22	24	25	29	28	29	28	29	D3	1	BF	BF	+ 19	-0.80%	-7.47%	-4.46%
iShares Biotechnology ETF	IBB	118.29	5,223	27	28	26	25	23	21	13	27	19	30	29	24	25	30	29	29	28	29	D3	5	BF	BF	+ 18	1.14%	-11.45%	-10.75%
SPDR S&P BIOTECH ETF	XBI	75.93	4,748	29	30	29	29	28	27	30	30	30	30	30	30	30	30	30	29	28	29	D3	17	BF	BF	+ 16	2.15%	-12.84%	-13.68%
iShares U.S. Medical Devices ETF	IHI	56.93	4,330	18	17	17	17	18	9	7	6	7	9	9	9	10	11	11	16	14	16	D2	4	BF	BR	- 67	0.80%	-4.50%	-7.89%
iShares U.S. Healthcare ETF	IYH	56.33	2,898	19	17	16	17	15	9	9	13	19	22	22	24	25	29	28	29	28	29	D3	1	BF	BF	+ 19	-1.02%	-7.87%	-4.77%
Fidelity MSCI Health Care Index ETF	FHLC	63.45	2,497	18	17	16	17	15	9	9	17	19	22	22	24	25	29	28	29	28	29	D3	1	BF	BF	+ 19	-0.67%	-7.56%	-4.47%
First Trust NYSE Arca Biotechnology Itr FBT	FBT	152.24	990	25	25	19	21	20	16	9	5	6	15	9	4	7	14	6	18	20	18	D3	1	BF	BF	- 45	0.14%	-9.25%	-11.99%
First Trust Health Care AlphaDEX Func FXH	FXH	96.22	866	24	22	18	22	11	22	13	27	19	22	22	19	23	24	23	28	25	26	D3	6	BF	BF	+ 16	-0.89%	-7.72%	-10.94%
Invesco S&P 500 Equal Weight Health RYH	RYH	27.45	727	22	19	17	19	11	9	10	17	19	30	22	20	23	24	24	29	27	29	D3	4	BF	BF	+ 19	-1.19%	-7.85%	-9.94%
iShares U.S. Healthcare Providers ETF IHF	IHF	50.18	637	15	1	6	11	15	9	13	29	30	22	30	24	25	30	30	30	30	30	U3	2	BF	BF	+ 20	-8.10%	-3.57%	0.73%
VanEck Pharmaceutical ETF	PPH	83.98	595	17	19	13	8	6	7	5	8	19	30	29	24	30	30	29	29	28	29	D2	2	BF	BF	- 5	2.40%	-8.82%	-0.99%
VanEck Biotech ETF	BBH	144.52	330	25	25	19	20	19	16	17	23	25	30	29	28	30	29	30	29	30	29	D3	4	BF	BF	+ 22	0.14%	-10.78%	-8.64%
Invesco Dynamic Pharmaceuticals ETF PJP	PJP	77.35	231	21	24	16	16	9	9	12	18	22	21	22	25	28	25	23	25	27	D3	3	BF	BF	- 8	1.22%	-9.27%	-6.08%	
Invesco Dynamic Biotechnology & Gen PBE	PBE	59.03	212	27	27	23	25	11	22	25	29	19	22	29	23	24	24	19	23	25	25	D3	9	BF	BF	+ 12	1.37%	-10.86%	-12.73%
SPDR S&P Health Care Equipment ET XHE	XHE	75.43	162	29	28	26	27	28	27	27	27	24	20	11	5	6	10	6	12	17	14	D3	4	BF	BF	- 64	-0.19%	-9.05%	-18.39%
Invesco S&P SmallCap Health Care E1 PSCH	PSCH	39.27	145	27	27	21	26	27	28	28	29	19	12	15	12	17	23	18	22	21	20	D3	6	BF	BF	+ 5	-0.18%	-8.00%	-13.57%
SPDR S&P Pharmaceuticals ETF	XPH	38.42	138	27	28	23	23	11	9	10	17	19	30	22	19	20	23	24	23	23	21	D3	4	BF	BF	- 37	2.02%	-12.44%	-11.84%
Invesco DWA Healthcare Momentum E PTH	PTH	37.32	101	26	27	26	28	27	29	30	30	30	20	29	29	30	30	30	30	30	30	D3	6	BF	BF	- 7	1.83%	-7.60%	-7.00%
SPDR S&P Health Care Services ETF XHS	XHS	94.20	86	13	4	7	7	8	9	9	10	10	11	14	10	13	18	19	27	27	28	D2	1	BF	BR	- 12	-2.70%	-2.80%	-2.17%
ALPS Medical Breakthroughs ETF	SBIO	26.48	76	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	30	29	D3	16	BF	BF	- 68	4.83%	-13.32%	-14.47%
Virtus LifeSci Biotech Products ETF	BBP	53.94	19	27	28	25	20	20	21	24	27	19	26	29	26	21	29	28	26	27	27	D3	5	BF	BF	- 7	1.99%	-11.48%	-10.32%
First Trust Nasdaq Pharmaceuticals E1 FTXH	FTXH	24.36	13	26	27	18	17	8	7	6	13	19	30	29	24	25	29	26	28	26	28	D3	3	BF	BF	- 2	1.33%	-13.24%	-9.19%
Virtus LifeSci Biotech Clinical Trials ETI BBC	BBC	16.64	10	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	D3	18	BF	BF	- 68	5.98%	-14.88%	-23.77%
Loncar Cancer Immunotherapy ETF	CNCR	9.07	7	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	D3	8	BF	BF	- 8	1.93%	-14.90%	-22.26%
EF-31 Materials				16	16	20	17	20	17	20	26	26	24	25	26	25	25	29	29	29	29	D3	4	BF	BF	- 3	1.19%	-3.18%	-3.79%
iShares Silver Trust	SLV	29.55	14,744	4	3	10	1	2	1	2	17	3	8	8	13	21	21	12	24	28	26	D1	1	AR	AR	- 3	1.23%	-1.57%	7.03%
Sprott Physical Gold and Silver Trust U CEF	CEF	29.35	5,710	1	1	1	1	1	1	1	4	2	4	2	4	11	11	2	16	20	19	U3	14	AR	AR	+ 13	2.55%	6.34%	17.68%
Materials Select Sector SPDR Fund	XLB	80.75	4,835	20	21	21	23	24	23	13	27	29	22	29	24	25	27	30	30	29	29	D3	4	BF	BF	+ 16	0.31%	-5.43%	-8.15%
Vanguard Materials ETF	VAW	178.07	2,336	22	23	24	25	26	24	13	28	29	22	29	24	25	24	30	30	28	29	D3	5	BF	BF	+ 15	0.32%	-5.51%	-9.11%
SPDR S&P Metals & Mining ETF	XME	54.73	1,461	22	25	29	26	27	26	30	30	30	22	29	30	25	24	29	29	30	30	D3	10	BF	BF	+ 14	1.73%	-4.54%	-9.17%
iShares U.S. Basic Materials ETF	IYM	127.08	470	20	20	22	21	23	21	13	27	28	22	30	24	25	27	30	30	30	30	D3	4	BF	BF	+ 17	0.67%	-5.68%	-7.23%
Fidelity MSCI Materials Index ETF	FMAT	45.64	395	22	23	23	25	26	25	25	28	29	22	29	24	25	24	30	30	28	29	D3	5	BF	BF	+ 15	0.37%	-5.41%	-9.18%
Sprott Gold Miners ETF	SGDM	42.88	385	1	1	1	1	1	1	1	1	2	2	1	6	16	23	20	28	29	29	U3	7	AR	AR	+ 2	3.30%	17.32%	45.60%
First Trust Materials AlphaDEX Fund	FXZ	51.14	202	27	28	29	28	28	27	29	30	30	30	30	30	30	29	30	30	30	30	D3	17	BF	BF	+ 41	0.69%	-8.23%	-14.66%
Invesco S&P 500 Equal Weight Materie RTM	RTM	29.43	167	27	27	26	27	28	27	29	30	30	30	30	29	25	24	30	30	29	29	D3	15	BF	BF	+ 16	0.04%	-7.07%	-13.69%
Invesco DWA Basic Materials Momenti PYZ	PYZ	79.67	45	26	27	27	26	27	26	28	29	30	22	29	24	23	20	28	29	28	29	D3	10	BF	BF	+ 13	1.01%	-6.75%	-13.39%
Invesco S&P SmallCap Materials ETF	PSCM	60.82	11	30	30	30	30	30	29	29	30	30	30	30	30	25	28	30	29	28	29	D3	10	BF	BF	+ 14	2.05%	-10.27%	-18.72%
EF-32 Manufacturing				23	22	26	25	26	26	26	23	27	16	8	5	3	4	6	5	7	5	D3	6	BF	BR	- 19	-0.31%	-5.26%	-12.70%
Industrial Select Sector SPDR Fund	XLI	125.30	18,341	19	18	22	21	11	21	13	17	19	20	16	14	13	14	16	18	15	16	D3	6	BF	BR	- 72	-0.29%	-4.96%	-8.76%
iShares U.S. Aerospace & Defense ET ITA	ITA	149.55	6,102	12	8	18	7	6	8	13	9	19	17	12	11	13	15	17	19	15	16	D2	3	BF	AR	- 72	0.30%	-3.35%	-1.20%
Vanguard Industrials ETF	VIS	236.90	4,729	21	20	25	25	25	25	13	17	19	22	16	14	13	13	15	17	15	16	D3	6	BF	BF	- 72	-0.17%	-5.03%	-10.83%
Invesco Aerospace & Defense ETF	PPA	115.80	4,501	13	10	18	15	11	9	13	17	28	22	14	12	13	12	13	15	13	13	D3	5	AF	AR	- 75	0.35%	-1.42%	-3.06%

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