

TAA THRASHER ANALYTICS

MARCH 12, 2023



WEEKLY RESEARCH & ANALYSIS

BY ANDREW THRASHER, CMT

SUMMARY OF MODELS

| | Current | Wkly Change |
|-------------------------|---------|-------------|
| Maestro Model | -.4 | Decreasing |
| Volatility Risk Trigger | 24 | Decreasing |
| Risk Appetite Ratios | .54 | Decreasing |
| S&P 500 Long-Term Trend | Down | Decreasing |

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Volatility

Equities

Maestro Model

Sector Sentiment

Sectors & Commodity

Sentiment

Trend Models

| Sector Rotation: March | |
|------------------------|------|
| Financials | XLFX |
| Energy | XLE |
| Industrials | XLI |

| Maestro Model | |
|------------------|-----------|
| Trend / Momentum | -4 |
| Sentiment / VIX | -1 |
| Breadth | -1 |
| Economic | 3 |
| Total | -4 |

(Breadth is weighted double in model)

| Index & Sector | | |
|----------------|----------|------------|
| | Up Trend | Down Trend |
| SPX | | X |
| QQQ | | X |
| XLFX | | X |
| XLFX | | X |
| XLK | X | |
| XLV | | X |
| XLU | | X |
| XLP | | X |
| XLI | X | |
| XLRE | | X |
| XLE | X | |
| XLB | | X |

| Daily Sentiment Index | | |
|-----------------------|-----------|----------|
| | % Bullish | 5-day MA |
| S&P 500 | 18% | 33% |
| Nasdaq 100 | 25% | 40% |
| Nikkei | 53% | 63% |
| VIX | 40% | 26% |
| 10yr Treasury | 43% | 29% |
| 5yr Treasury | 37% | 26% |
| CRB Index | 52% | 54% |
| Crude Oil | 36% | 39% |
| Gold | 56% | 50% |
| U.S. Dollar | 55% | 61% |
| Bitcoin | 27% | 37% |

*Green<25% Red>80%

source: trade-futures.com

Brief Summary:

Let me begin by saying, I'm not covering or discussing the Silicon Valley Bank collapse. Barrels of ink have already been spilt by those that know the topic and even more digital ink has been spilled by those that don't. My focus is on price activity and so that's where my attention lies.

With that, we had quite a bit of change over the last week! Indices lost their 'up trend' status and risk happened fast as we moved into the end of the week. VIX has risen nearly ten points intraday and key price levels for the SPX were lost. The gains for the year have nearly all been given back and more than half of stocks have moved below their December lows.

We have potential for a short-term wash out with less than 10% of stocks above the 20-day moving average, but evidence is building against the bull thesis as we get an increase in 90% down days and a breakdown in the breadth data.

This week we'll get the CPI and retail sales reports. This market has been entirely focused on inflation and what will or won't the Fed do next. the SVB headlines will of course take some spotlight but I still believe what the Fed is most concerned with is getting inflation under control, especially after the auxiliary reports (The ISM Price Paid Index for example) coming in above expectations.

VOLATILITY: VRT



The VIX moved higher last week, finishing at a multi-week high. Volatility has now expanded by about 10 points intraday (almost reading 29 on Friday) since the VRT signal.

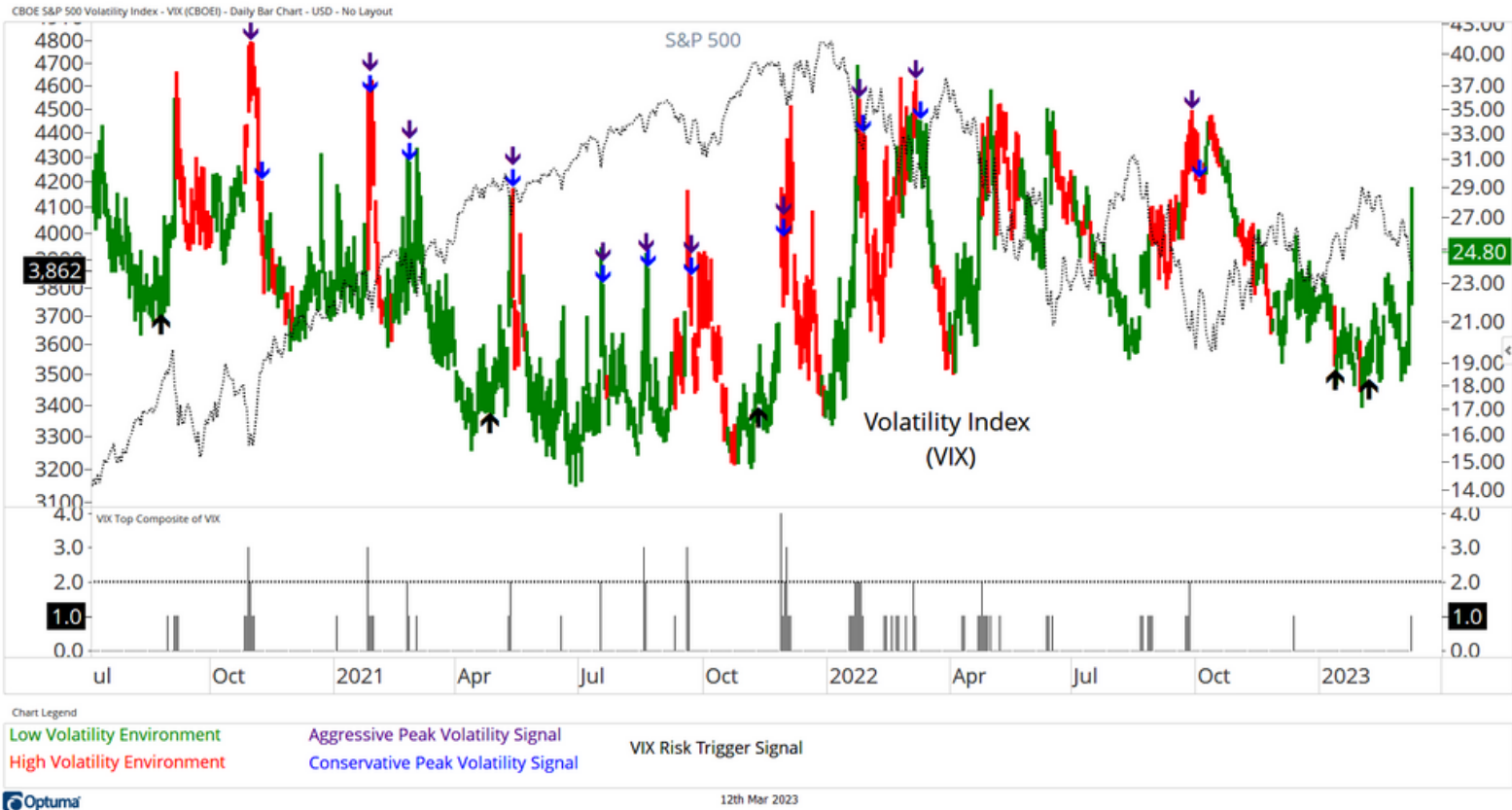


CBOE S&P 500 Volatility Index - VIX (CBOE) - Daily Line Chart - USD - No Layout



VOLATILITY: TOP & ENVIRONMENT

VIX peaked out intraday on Friday just under 29. We didn't get enough change in the Top Composite signals to suggest a possible Aggressive Peak, with one signal firing on Friday. We'll see if that changes as we move into a new week and the market focuses on the SVB news and CPI report.



VOLATILITY - CURVE



9-day volatility has moved to a premium to the rest of the curve and is at the 50th percentile. Spot/1-month vol pulled back from its intraday high on Friday, dropping just below 6-, 12- and 3-month volatility.



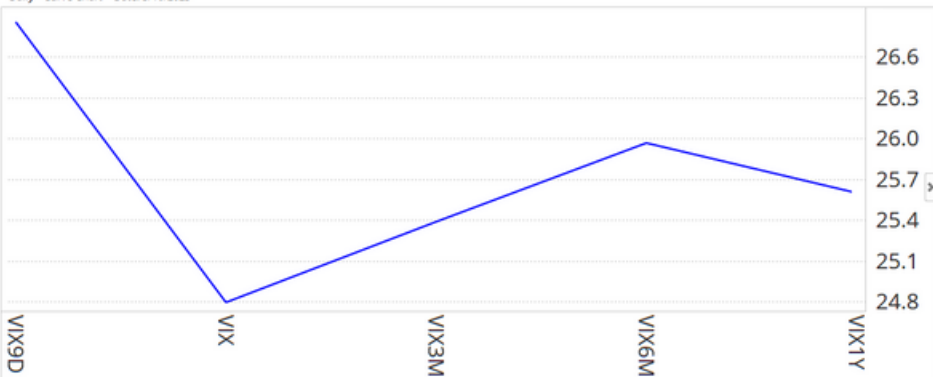
Daily - Watch List - No Layout

| Name | Last | 1yr %Tile |
|--|-------|-----------|
| CBOE S&P 500 Short Term Volatility Index | 26.86 | 0.5008 |
| CBOE S&P 500 Volatility Index | 24.80 | 0.4105 |
| CBOE S&P 500 3-Month Volatility Index | 25.39 | 0.3594 |
| CBOE Mid-Term Volatility Index | 25.97 | 0.3383 |
| CBOE S&P 500 One-Year Volatility Index | 25.60 | 0.2599 |

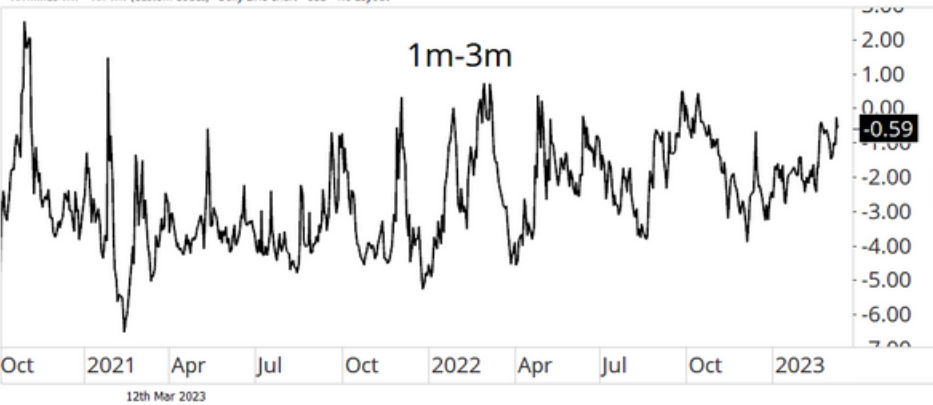
CBOE S&P 500 Short Term Volatility Index - VIX9D (CBOE) - Daily Line Chart - USD - No Layout



Daily - Curve Chart Date: 3/10/2023



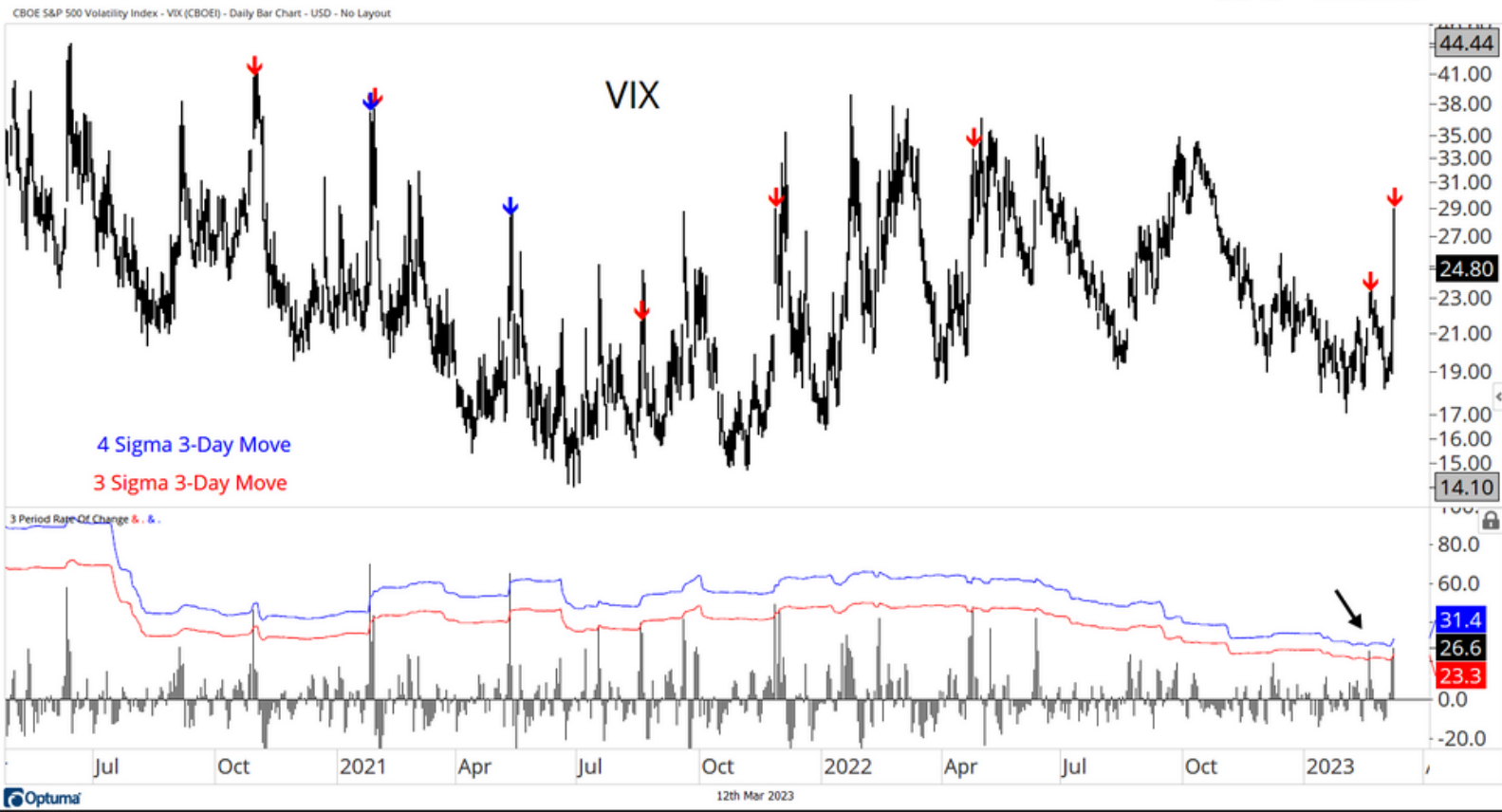
VIX Minus VIXV - VIX-VIXV (Custom Codes) - Daily Line Chart - USD - No Layout



VOLATILITY - 3-SIGMA MOVE

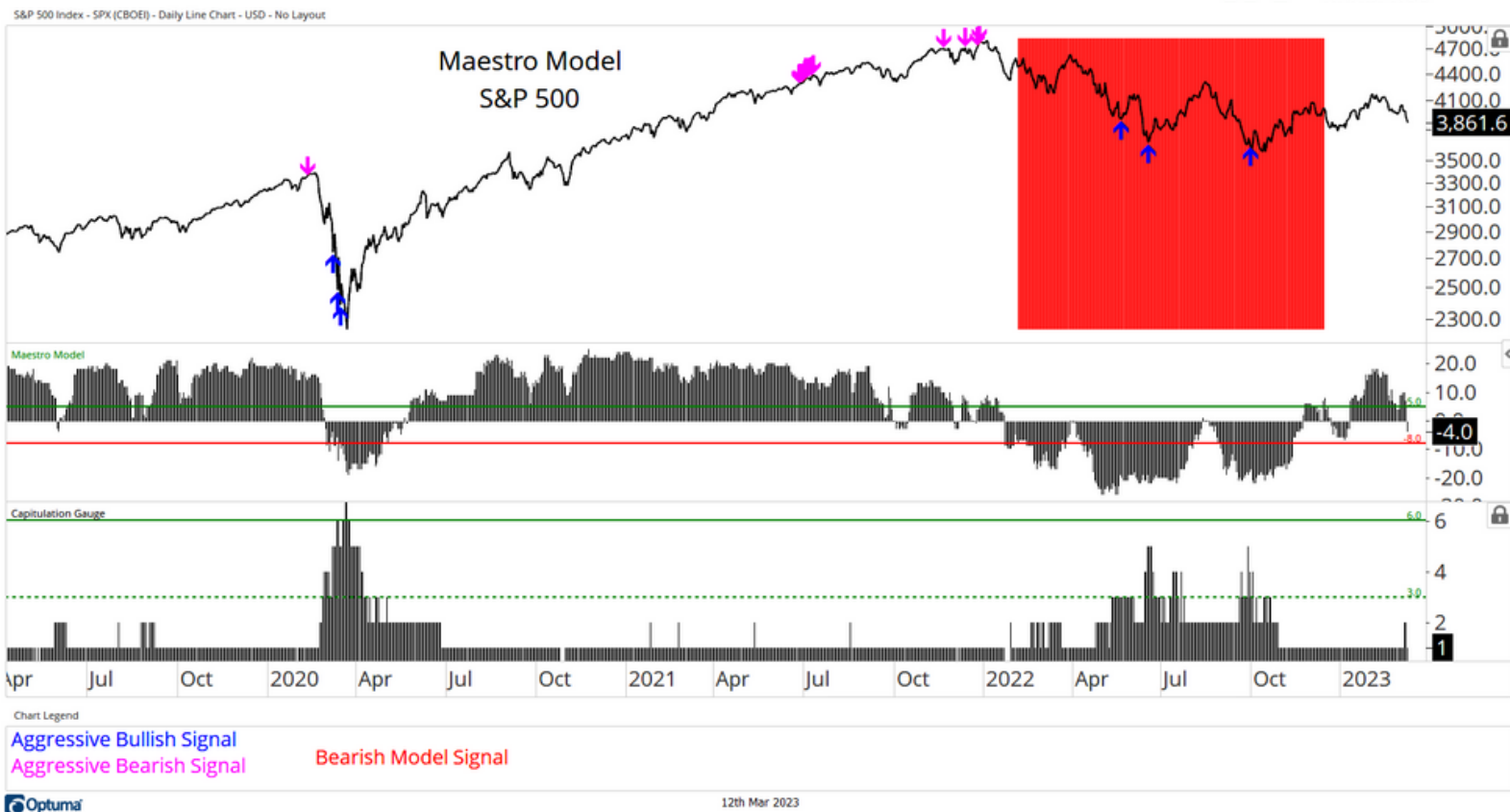


By Friday we had another 3-sigma move in the VIX following the last brief pop in volatility that exhausted at 23. We never got a 4-sigma move in 2022, will we see one in 2023? It's possible.



Please be sure to check out the Maestro Model Summary PDF in the Archive on the website.

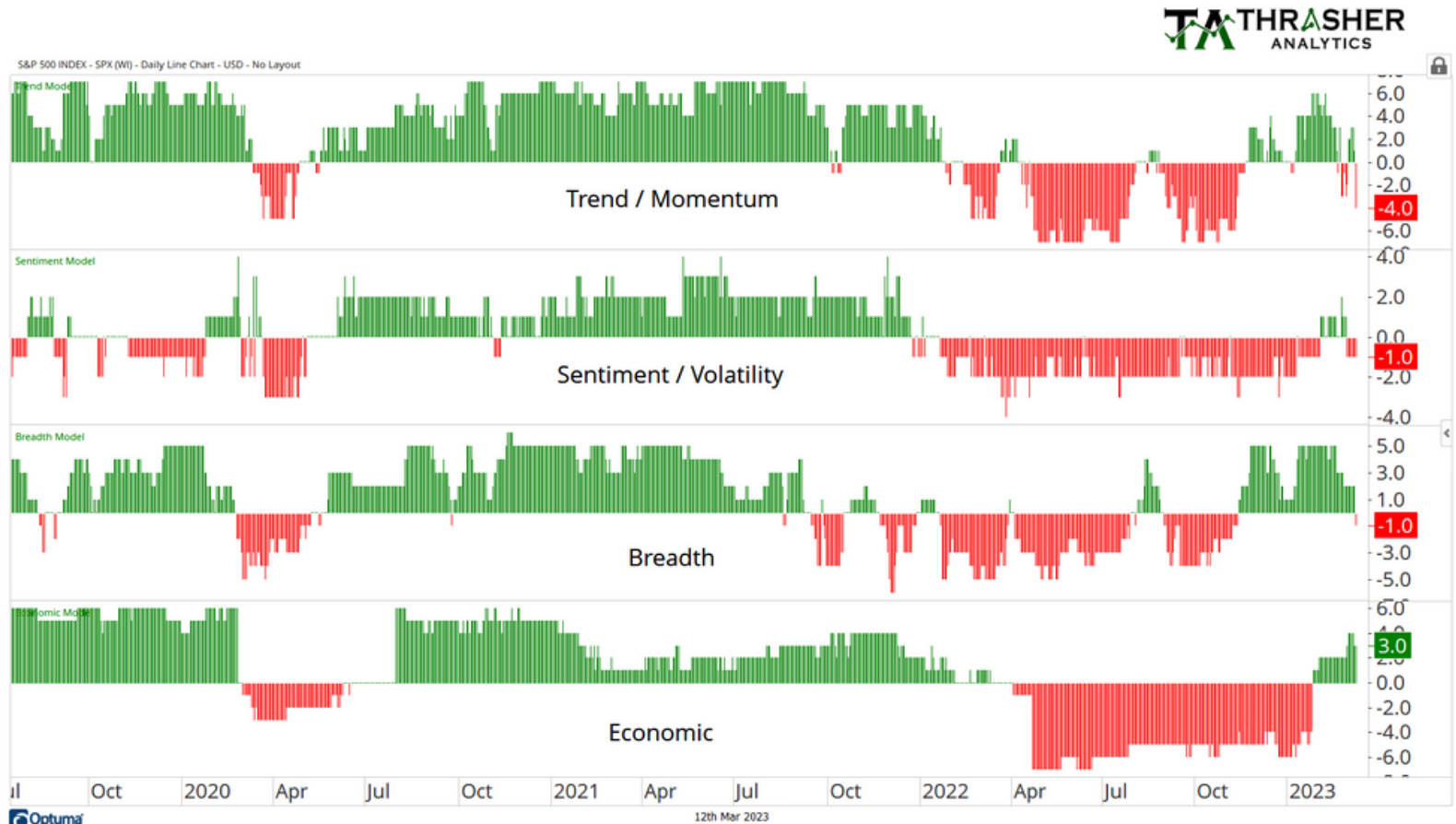
The Maestro Model moved negative to -4 on Friday. Some big changes after the large drop in stocks last week. Trend fell 6 points and breadth dropped 3. The Adaptive Trend Model (different than the trend category in the Maestro Model) also went negative for S&P 500 (and Nasdaq 100 and many of the individual sectors). The Capitulation Gauge ticked up to +2 on Thursday but actually fell back to +1 on Friday, not hitting the levels needed to give us a potential Aggressive Bullish Signal.



MAESTRO MODEL - CATEGORIES



Trend/Momentum is now at a multi-week low and Breadth ends its multi-week run of being positive. Sentiment had gone negative coming into last week and remains negative throughout the week.



SENTIMENT SCORE



Several bullish sentiment signals last week, one for XLF and XLRE and the recent signal for XLP marked the most recent swing low in relative performance as it was the best performing sector on the week and the only sector to see its sentiment score increase last week.



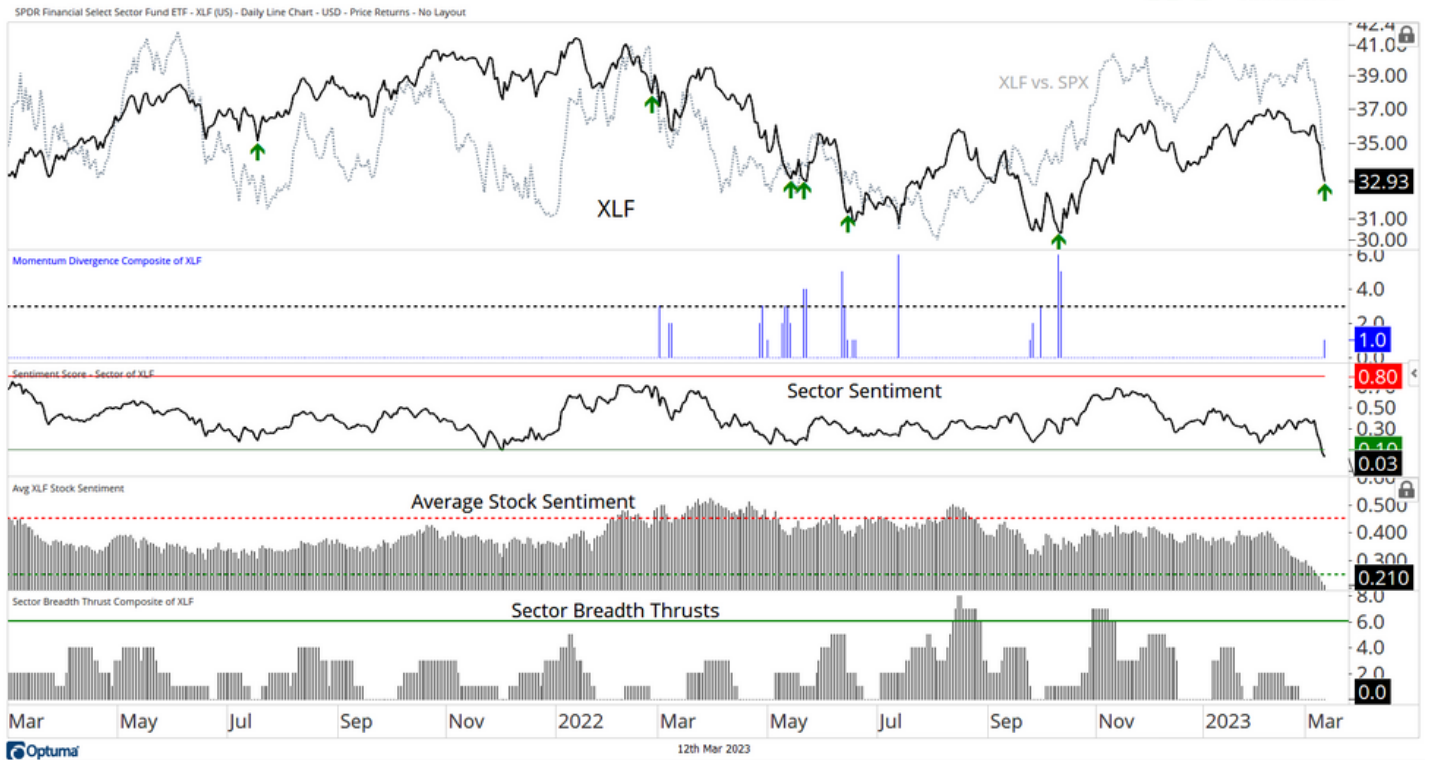
Daily - Watch List - No Layout

| Sector | Ticker | Sector Sentiment | Change in Score | 1W Perf | 1M Perf | 3M Perf |
|--|--------|------------------|-----------------|---------|---------|---------|
| SPDR Technology Select Sector Fund ETF | XLK | 0.41 | -0.16 | -3.12% | -3.28% | 3.71% |
| SPDR Communication Services Select Sector ETF | XLC | 0.37 | -0.14 | -4.57% | -4.91% | 5.70% |
| SPDR Industrial Select Sector Fund ETF | XLI | 0.34 | -0.13 | -4.50% | -3.07% | -0.07% |
| SPDR Materials Select Sector Fund ETF | XLB | 0.26 | -0.23 | -7.59% | -4.69% | -3.46% |
| SPDR Utilities Select Sector Fund ETF | XLU | 0.19 | 0.00 | -2.76% | -4.86% | -9.05% |
| SPDR Consumer Discretionary Select Sector Fund | XLY | 0.15 | -0.22 | -5.54% | -6.72% | -0.88% |
| SPDR Consumer Staples Select Sector Fund ETF | XLP | 0.14 | 0.04 | -1.97% | -2.55% | -6.30% |
| SPDR Energy Select Sector Fund ETF | XLE | 0.12 | -0.10 | -5.31% | -8.40% | -0.06% |
| SPDR Financial Select Sector Fund ETF | XLF | 0.03 | -0.32 | -8.50% | -9.76% | -4.63% |
| SPDR Real Estate Select Sector Fund ETF | XLRE | 0.02 | -0.12 | -6.84% | -10.02% | -5.74% |
| SPDR Health Care Select Sector Fund ETF | XLV | -0.11 | -0.14 | -3.89% | -6.29% | -10.02% |

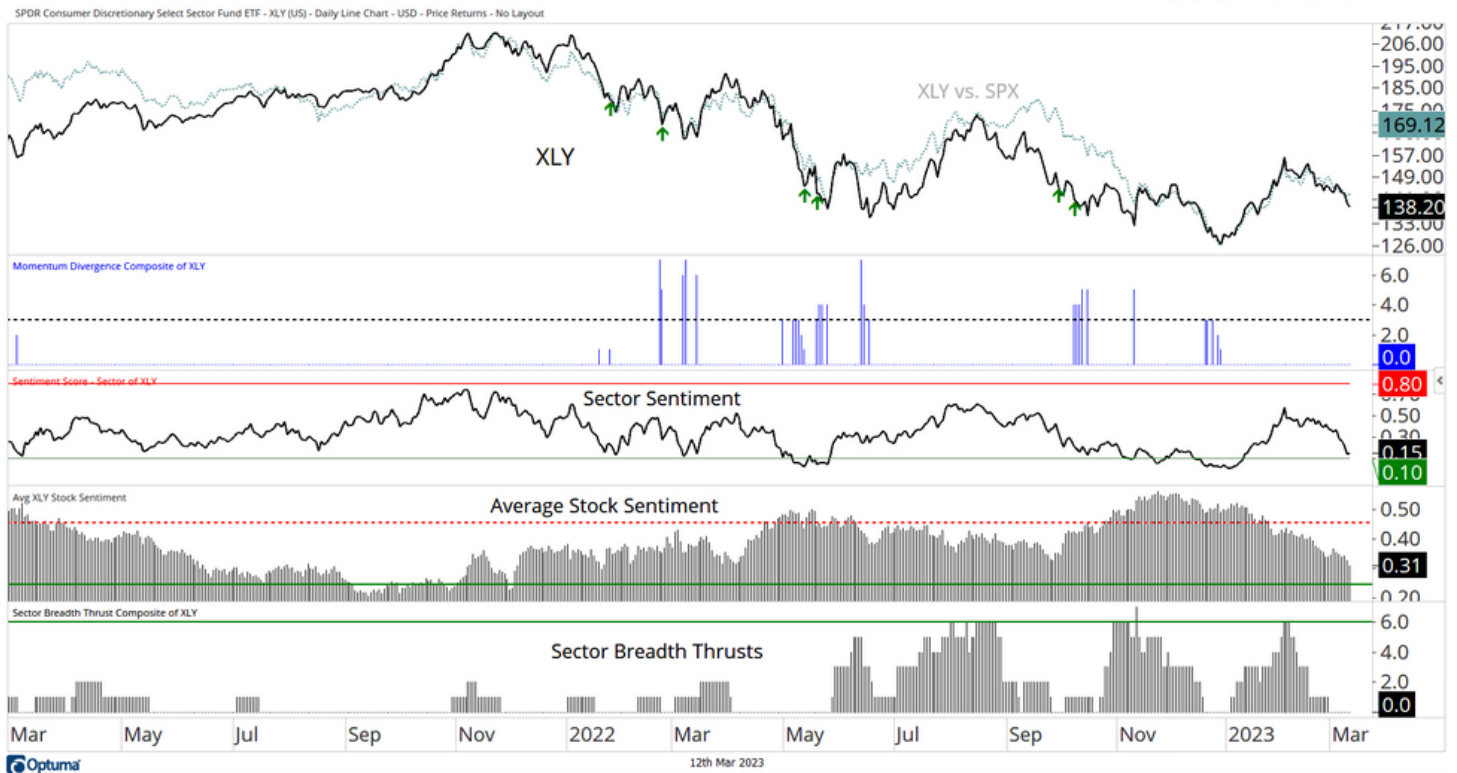
SENTIMENT SCORE: XLF & XLY



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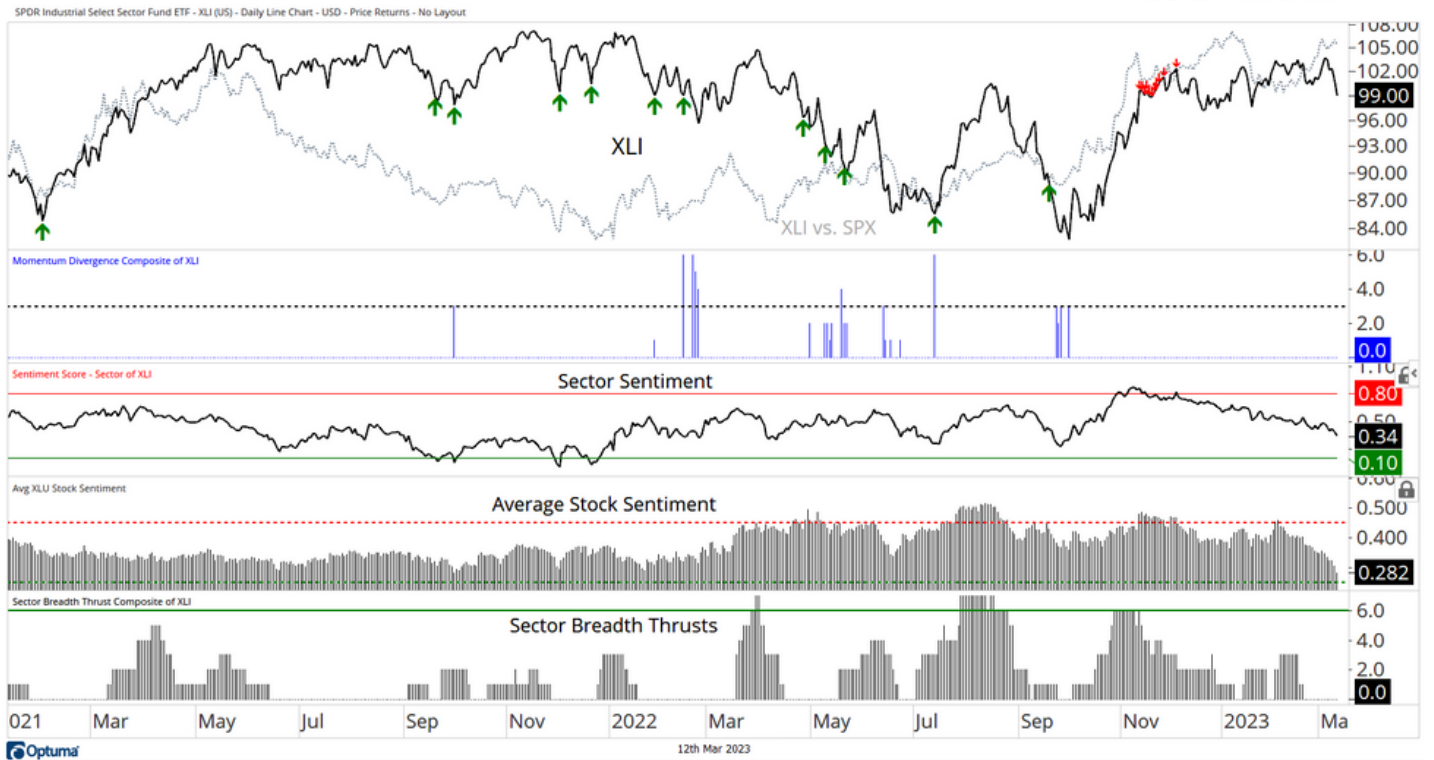
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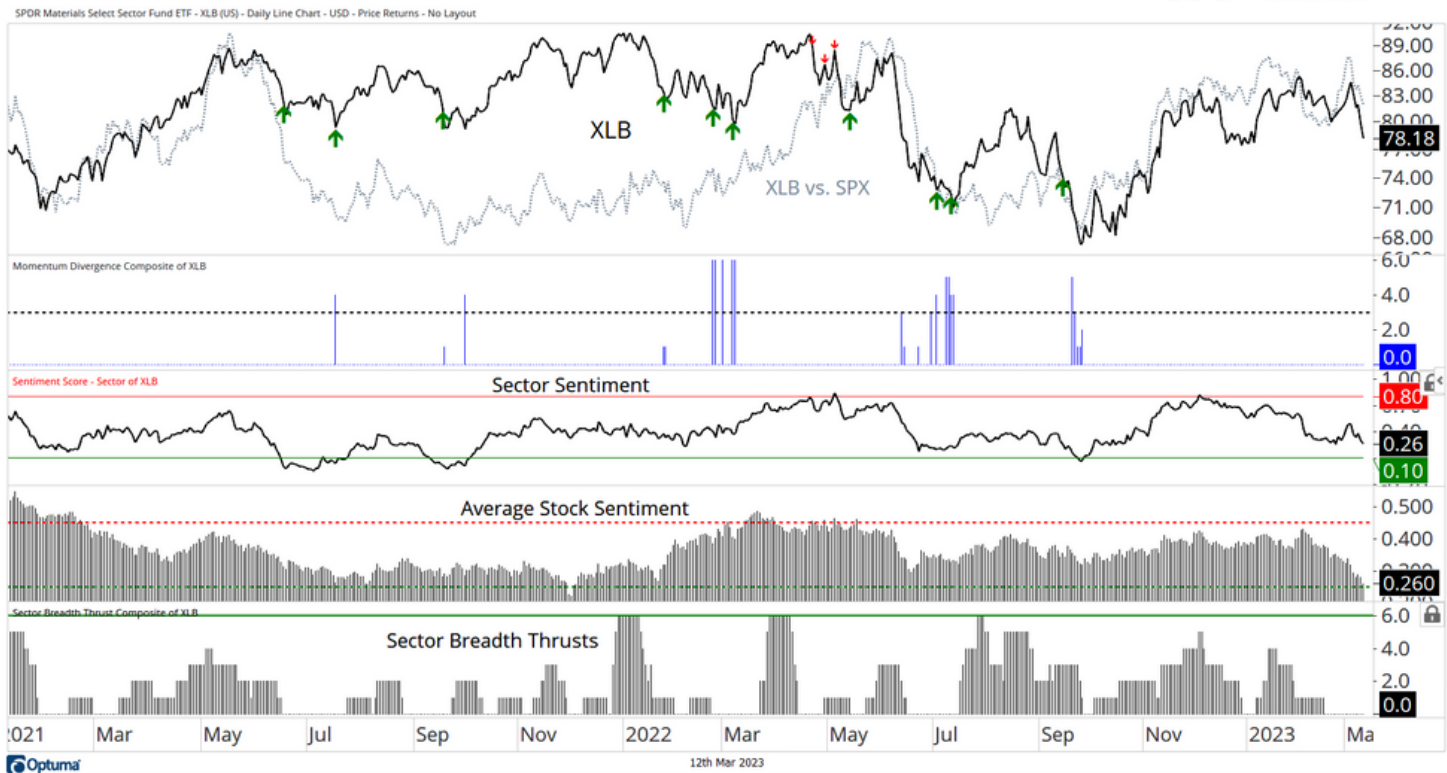
SENTIMENT SCORE: XLI & XLB



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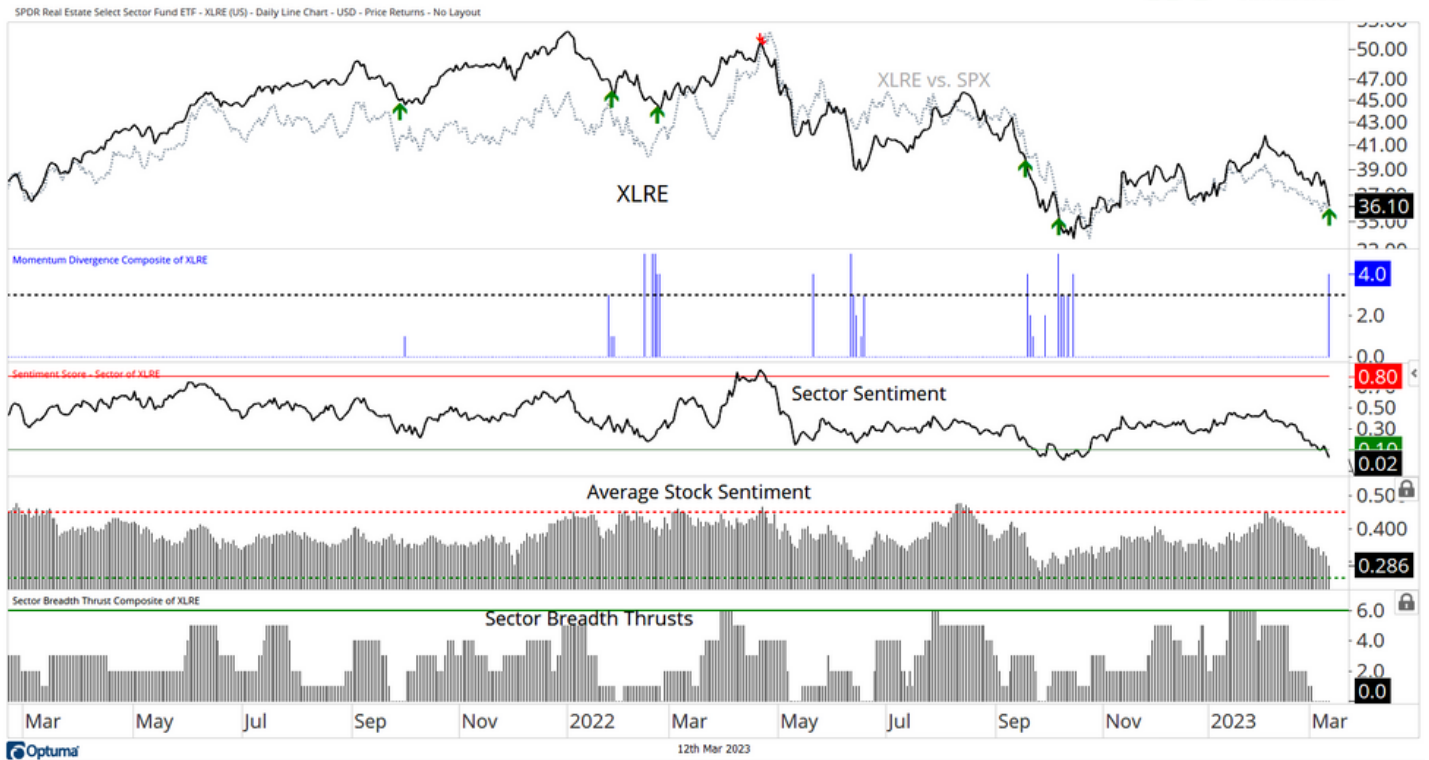
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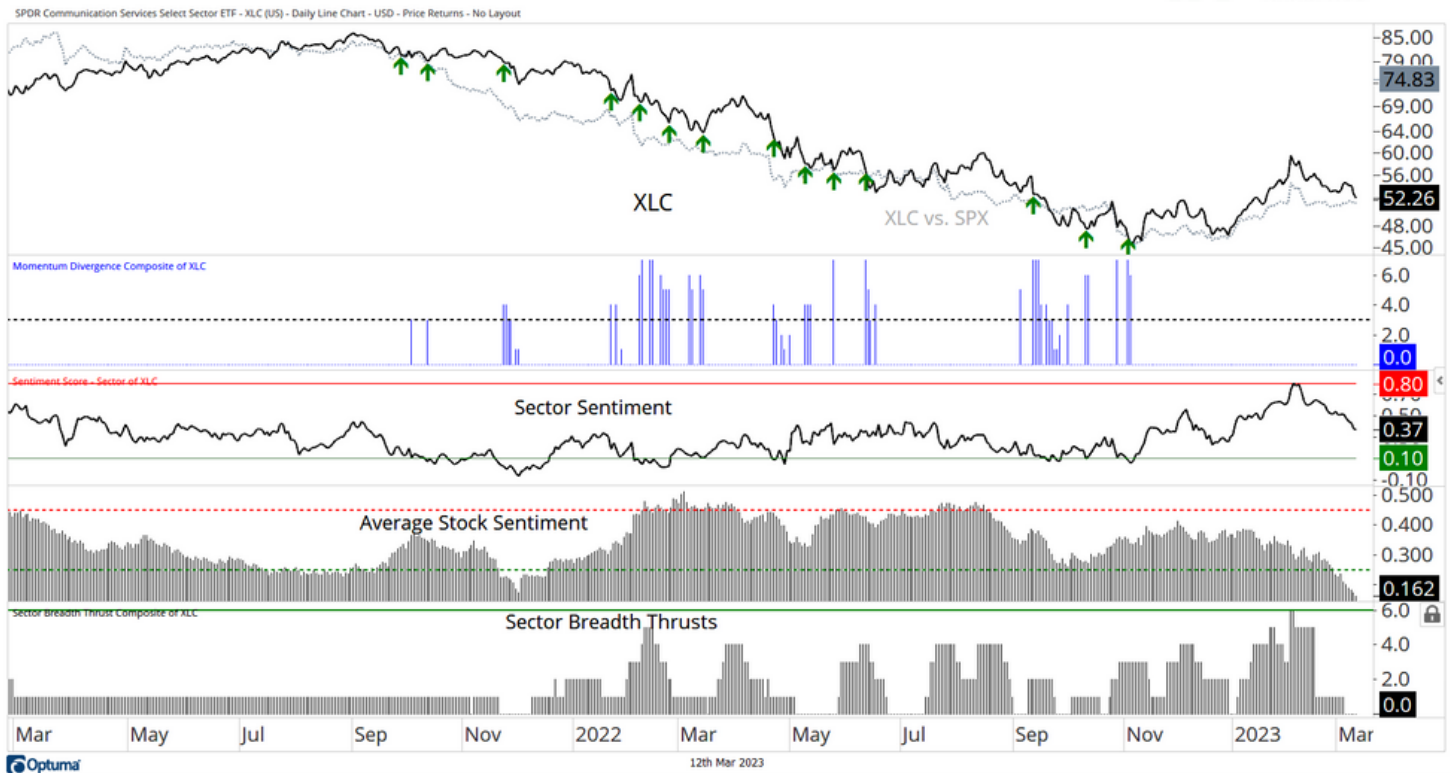
SENTIMENT SCORE: XLRE & XLC



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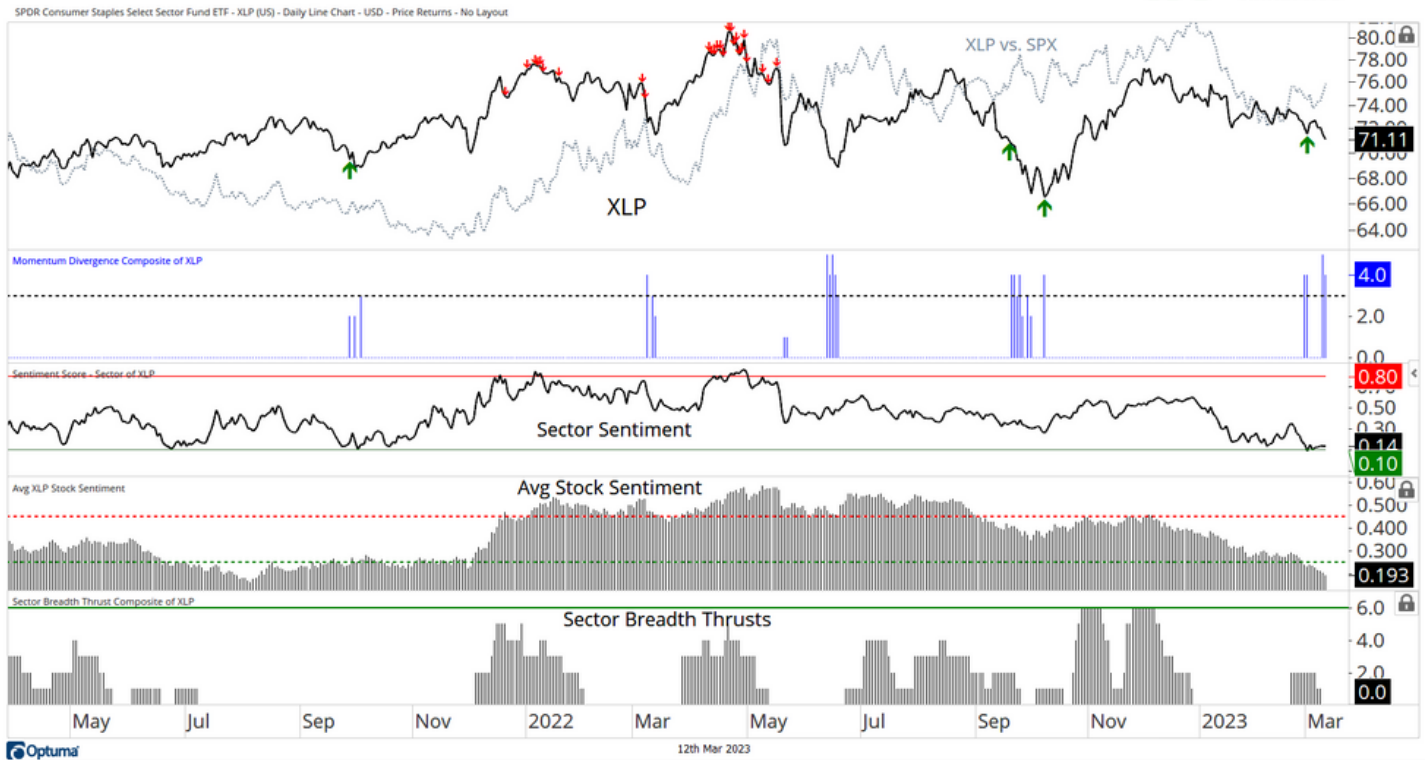
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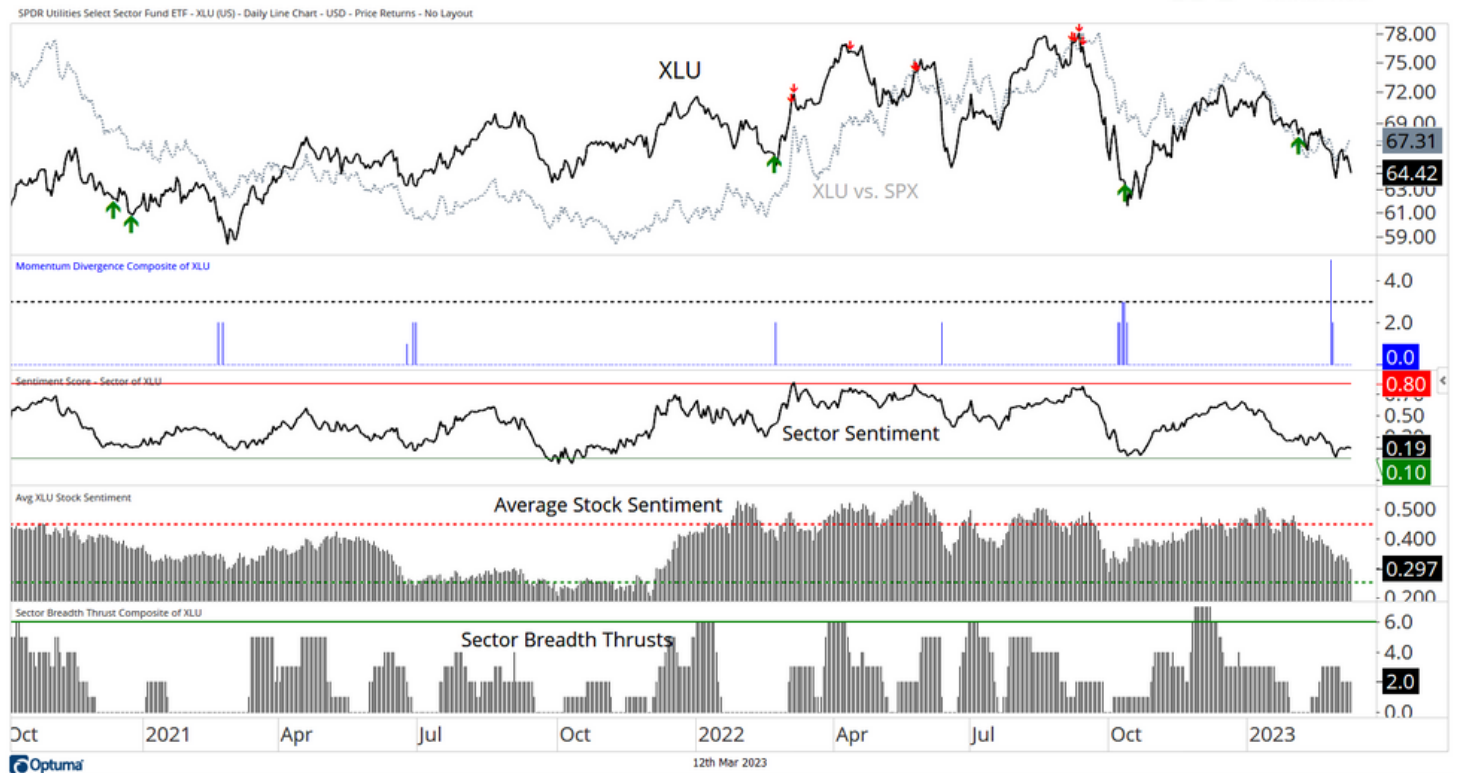
SENTIMENT SCORE: XLP & XLU



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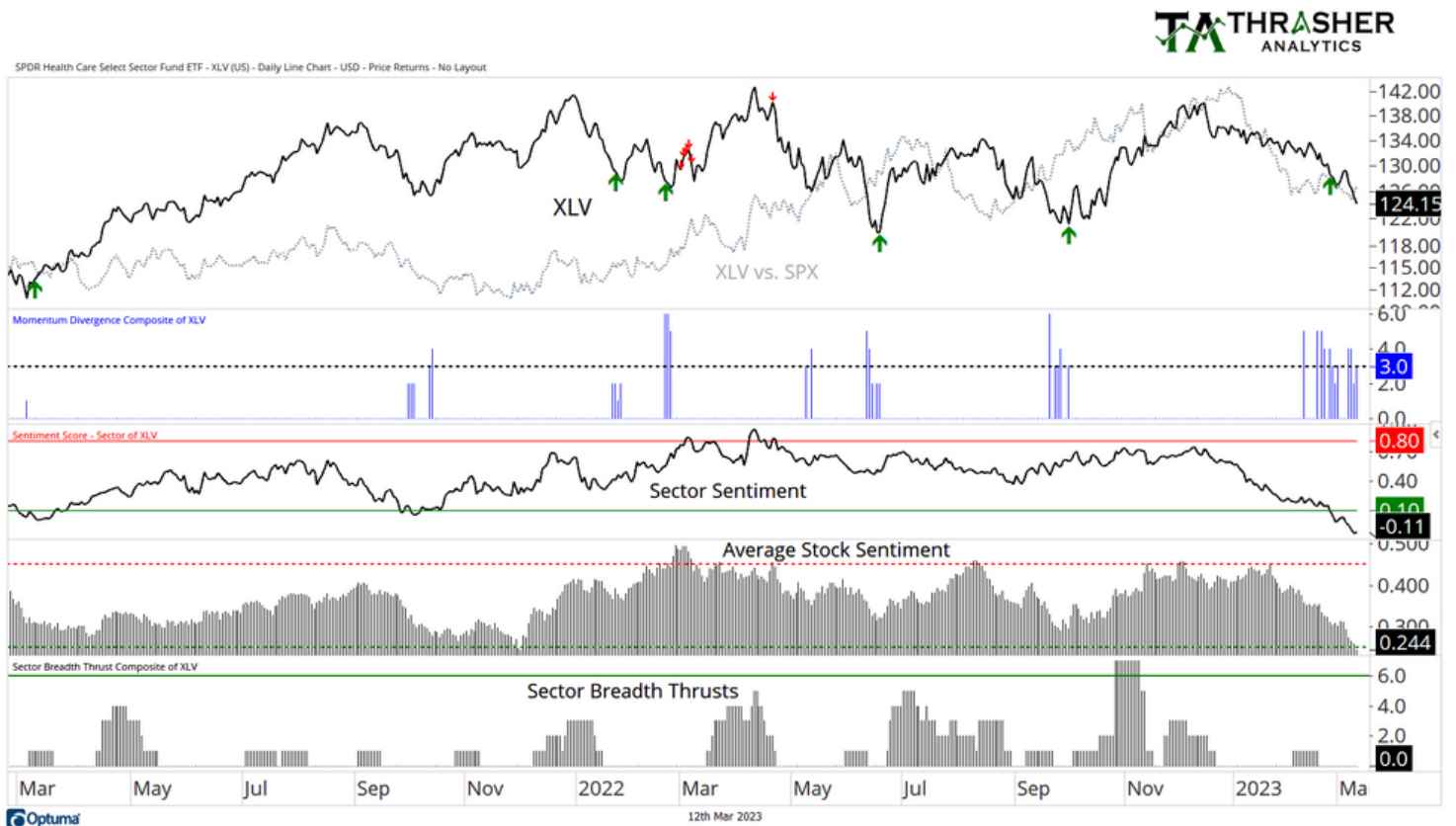
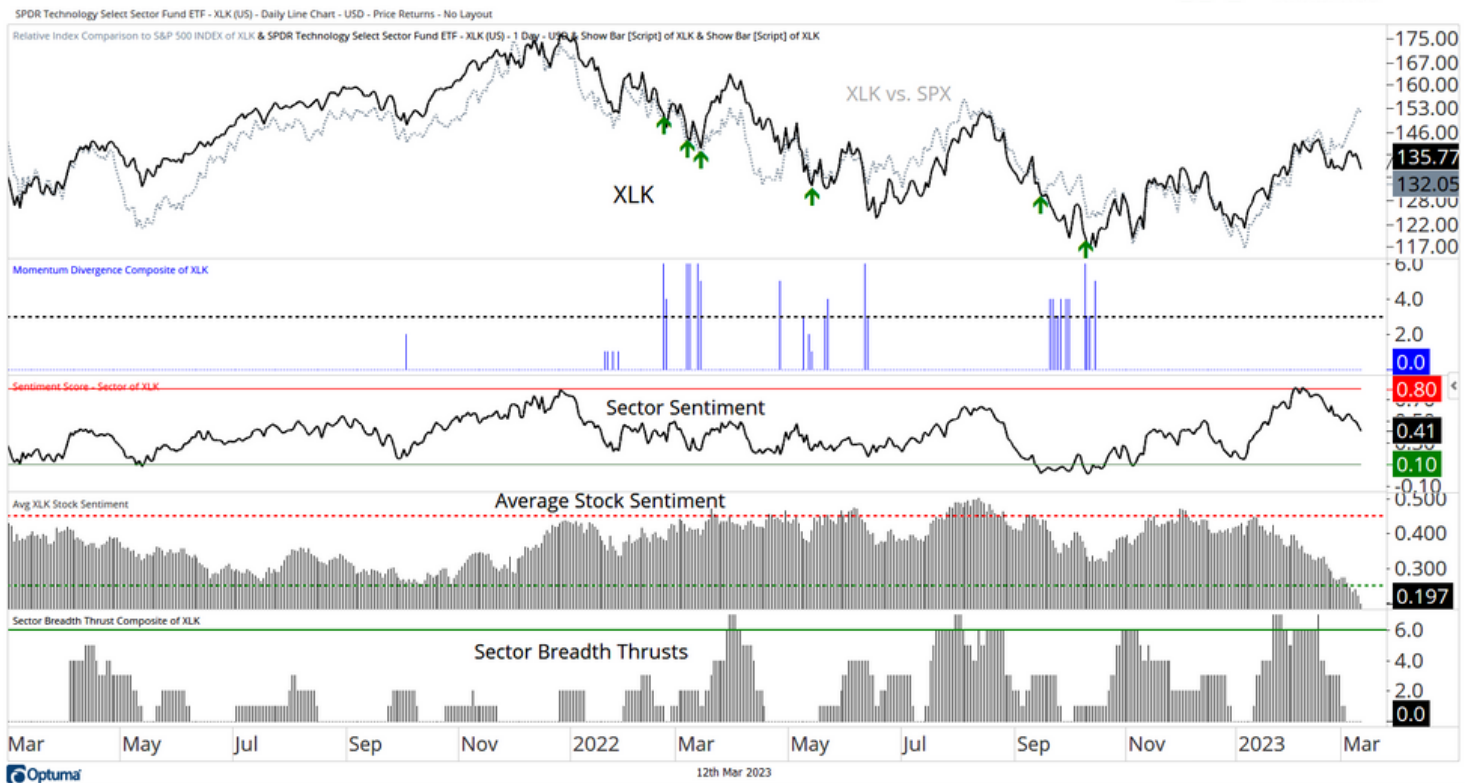
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SENTIMENT SCORE: XLK & XLV



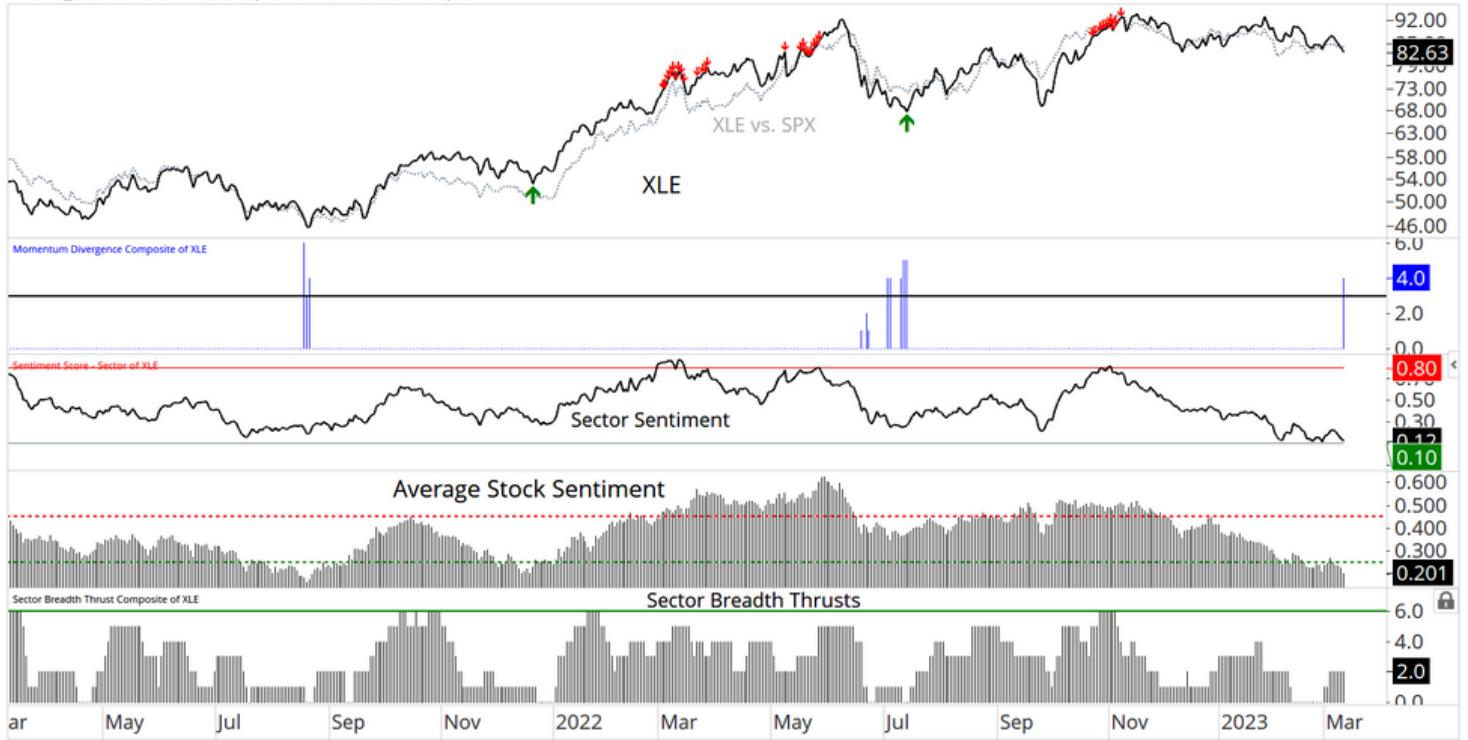
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SENTIMENT SCORE: XLE



SPDR Energy Select Sector Fund ETF - XLE (US) - Daily Line Chart - USD - Price Returns - No Layout



12th Mar 2023

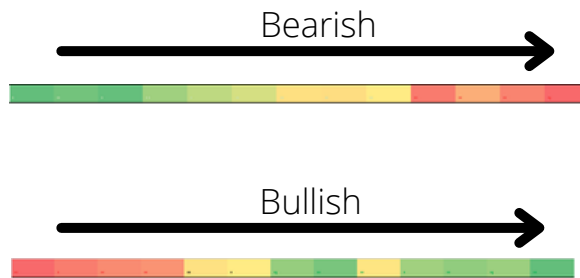
RISK APPETITE RATIO



Below is a table of 17 gauges of risk appetite such as offense vs. defense sectors, foreign markets vs. domestic, small vs. large cap, lumber vs gold, high beta vs. broad market, high yield debt vs. Treasury debt, etc. The table shows each ratio's 1-year percentile going back the last 35 trading days. As the data improves, it turns green and as it declines it becomes red.

The average Risk Appetite Ratio percentile is at the 54th percentile.

| Risk Metric | -35 | -34 | -33 | -32 | -31 | -30 | -29 | -28 | -27 | -26 | -25 | -24 | -23 | -22 | -21 | -20 | -19 | -18 | -17 | -16 | -15 | -14 | -13 | -12 | -11 | -10 | -9 | -8 | -7 | -6 | -5 | -4 | -3 | -2 | -1 | Current |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|
| Emerging Market vs. SPX | 0.72 | 0.71 | 0.69 | 0.69 | 0.70 | 0.69 | 0.66 | 0.63 | 0.56 | 0.48 | 0.45 | 0.41 | 0.38 | 0.42 | 0.47 | 0.42 | 0.41 | 0.40 | 0.36 | 0.41 | 0.38 | 0.41 | 0.40 | 0.40 | 0.42 | 0.43 | 0.41 | 0.53 | 0.51 | 0.48 | 0.46 | 0.45 | 0.46 | 0.44 | 0.49 | |
| EAFE vs. SPX | 1.00 | 0.94 | 0.89 | 0.89 | 0.93 | 0.87 | 0.84 | 0.88 | 0.82 | 0.81 | 0.72 | 0.73 | 0.70 | 0.68 | 0.70 | 0.77 | 0.73 | 0.72 | 0.73 | 0.68 | 0.74 | 0.77 | 0.82 | 0.80 | 0.80 | 0.76 | 0.81 | 0.79 | 0.85 | 0.81 | 0.80 | 0.78 | 0.77 | 0.80 | 0.87 | 0.89 |
| HY Debt vs. Treasury | 0.59 | 0.66 | 0.67 | 0.62 | 0.61 | 0.64 | 0.64 | 0.63 | 0.63 | 0.62 | 0.63 | 0.65 | 0.65 | 0.70 | 0.66 | 0.67 | 0.69 | 0.67 | 0.67 | 0.70 | 0.73 | 0.71 | 0.73 | 0.72 | 0.72 | 0.74 | 0.76 | 0.73 | 0.75 | 0.79 | 0.74 | 0.77 | 0.72 | 0.69 | 0.65 | 0.52 |
| Home Construction vs. SPX | 0.91 | 0.94 | 0.94 | 0.97 | 0.97 | 0.94 | 0.96 | 0.94 | 1.00 | 1.00 | 1.00 | 0.95 | 0.92 | 0.91 | 0.87 | 0.89 | 0.89 | 0.93 | 0.90 | 0.91 | 0.91 | 0.86 | 0.79 | 0.82 | 0.85 | 0.86 | 0.87 | 0.90 | 0.87 | 0.87 | 0.88 | 0.83 | 0.86 | 0.90 | 0.94 | 0.92 |
| Offense vs. Defense Sectors | 0.32 | 0.38 | 0.43 | 0.44 | 0.45 | 0.53 | 0.57 | 0.52 | 0.55 | 0.57 | 0.56 | 0.63 | 0.60 | 0.66 | 0.66 | 0.67 | 0.62 | 0.63 | 0.68 | 0.70 | 0.67 | 0.63 | 0.57 | 0.59 | 0.63 | 0.63 | 0.69 | 0.74 | 0.77 | 0.75 | 0.79 | 0.76 | 0.76 | 0.76 | 0.70 | 0.66 |
| Broker-Dealer vs. SPX | 0.88 | 0.82 | 0.81 | 0.81 | 0.84 | 0.81 | 0.75 | 0.83 | 0.83 | 0.81 | 0.71 | 0.81 | 0.85 | 0.83 | 0.90 | 0.87 | 0.89 | 0.86 | 0.87 | 0.87 | 0.92 | 0.93 | 0.96 | 0.94 | 0.90 | 0.98 | 0.92 | 0.92 | 0.93 | 0.88 | 0.87 | 0.83 | 0.82 | 0.84 | 0.67 | 0.46 |
| S&P Growth vs. S&P Value | 0.07 | 0.08 | 0.08 | 0.08 | 0.07 | 0.09 | 0.10 | 0.07 | 0.08 | 0.08 | 0.05 | 0.09 | 0.09 | 0.12 | 0.11 | 0.12 | 0.12 | 0.11 | 0.13 | 0.13 | 0.11 | 0.10 | 0.11 | 0.11 | 0.13 | 0.12 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 | 0.14 | 0.15 | 0.16 | 0.18 | 0.19 |
| Semiconductor vs. SPX | 0.58 | 0.63 | 0.77 | 0.74 | 0.74 | 0.77 | 0.74 | 0.69 | 0.69 | 0.83 | 0.86 | 0.83 | 0.79 | 0.85 | 0.82 | 0.87 | 0.81 | 0.82 | 0.91 | 0.90 | 0.85 | 0.82 | 0.77 | 0.76 | 0.88 | 0.85 | 0.88 | 0.92 | 0.94 | 0.95 | 0.94 | 0.90 | 0.91 | 1.00 | 1.00 | 0.99 |
| Consumer Disc. Vs. Staples | 0.46 | 0.50 | 0.54 | 0.53 | 0.53 | 0.58 | 0.61 | 0.57 | 0.61 | 0.65 | 0.74 | 0.68 | 0.64 | 0.68 | 0.66 | 0.67 | 0.61 | 0.65 | 0.70 | 0.72 | 0.69 | 0.71 | 0.61 | 0.63 | 0.62 | 0.59 | 0.61 | 0.64 | 0.65 | 0.64 | 0.69 | 0.66 | 0.65 | 0.65 | 0.59 | 0.55 |
| Small Cap vs. Utilities | 0.40 | 0.44 | 0.48 | 0.45 | 0.51 | 0.52 | 0.54 | 0.50 | 0.56 | 0.61 | 0.67 | 0.73 | 0.64 | 0.67 | 0.68 | 0.68 | 0.61 | 0.63 | 0.65 | 0.66 | 0.65 | 0.70 | 0.66 | 0.69 | 0.74 | 0.70 | 0.77 | 0.85 | 0.91 | 0.85 | 0.91 | 0.82 | 0.84 | 0.81 | 0.71 | 0.66 |
| Transports vs. Utilities | 0.55 | 0.58 | 0.63 | 0.58 | 0.56 | 0.54 | 0.59 | 0.52 | 0.61 | 0.73 | 0.83 | 0.88 | 0.82 | 0.86 | 0.90 | 0.88 | 0.80 | 0.81 | 0.88 | 0.87 | 0.85 | 0.79 | 0.73 | 0.72 | 0.78 | 0.77 | 0.94 | 0.87 | 0.96 | 0.97 | 0.93 | 0.88 | 0.90 | 0.89 | 0.86 | 0.82 |
| Equal Weight vs. Cap Weight | 0.94 | 0.92 | 0.93 | 0.92 | 0.94 | 0.90 | 0.90 | 0.92 | 0.95 | 0.94 | 0.90 | 0.87 | 0.86 | 0.81 | 0.82 | 0.82 | 0.83 | 0.82 | 0.80 | 0.82 | 0.85 | 0.86 | 0.84 | 0.84 | 0.82 | 0.84 | 0.82 | 0.83 | 0.85 | 0.85 | 0.83 | 0.75 | 0.74 | 0.75 | 0.70 | 0.68 |
| Small cap vs. Large Cap | 0.79 | 0.77 | 0.77 | 0.76 | 0.79 | 0.73 | 0.77 | 0.75 | 0.85 | 0.91 | 0.96 | 1.00 | 0.91 | 0.85 | 0.81 | 0.74 | 0.74 | 0.74 | 0.74 | 0.82 | 0.86 | 0.92 | 0.81 | 0.86 | 0.88 | 0.89 | 0.89 | 0.93 | 0.99 | 0.93 | 0.91 | 0.74 | 0.78 | 0.77 | 0.67 | 0.51 |
| Equities vs. VIX | 0.60 | 0.67 | 0.69 | 0.73 | 0.74 | 0.79 | 0.81 | 0.68 | 0.74 | 0.88 | 0.83 | 0.85 | 0.75 | 0.83 | 0.74 | 0.65 | 0.66 | 0.69 | 0.80 | 0.88 | 0.69 | 0.69 | 0.49 | 0.52 | 0.59 | 0.55 | 0.60 | 0.61 | 0.61 | 0.69 | 0.80 | 0.79 | 0.69 | 0.73 | 0.48 | 0.35 |
| Aussie Dollar vs. Yen | 0.52 | 0.61 | 0.59 | 0.60 | 0.64 | 0.62 | 0.61 | 0.59 | 0.60 | 0.54 | 0.52 | 0.55 | 0.55 | 0.53 | 0.54 | 0.52 | 0.59 | 0.64 | 0.62 | 0.56 | 0.57 | 0.60 | 0.59 | 0.54 | 0.50 | 0.51 | 0.51 | 0.50 | 0.52 | 0.46 | 0.41 | 0.34 | 0.22 | 0.24 | 0.17 | 0.08 |
| Lumber vs. Gold | 0.08 | 0.08 | 0.08 | 0.10 | 0.10 | 0.13 | 0.13 | 0.16 | 0.16 | 0.14 | 0.15 | 0.15 | 0.14 | 0.12 | 0.11 | 0.09 | 0.08 | 0.07 | 0.06 | 0.07 | 0.05 | 0.05 | 0.04 | 0.04 | 0.06 | 0.07 | 0.07 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.02 |
| Copper vs. Gold | 0.48 | 0.49 | 0.50 | 0.48 | 0.46 | 0.50 | 0.47 | 0.46 | 0.47 | 0.36 | 0.36 | 0.43 | 0.40 | 0.43 | 0.39 | 0.46 | 0.40 | 0.47 | 0.48 | 0.47 | 0.56 | 0.54 | 0.66 | 0.63 | 0.54 | 0.47 | 0.50 | 0.56 | 0.60 | 0.54 | 0.51 | 0.53 | 0.51 | 0.56 | 0.53 | 0.46 |
| AVERAGE | 0.58 | 0.60 | 0.62 | 0.61 | 0.62 | 0.63 | 0.63 | 0.61 | 0.63 | 0.65 | 0.65 | 0.66 | 0.63 | 0.64 | 0.63 | 0.64 | 0.62 | 0.63 | 0.65 | 0.65 | 0.65 | 0.65 | 0.62 | 0.62 | 0.64 | 0.63 | 0.65 | 0.67 | 0.70 | 0.69 | 0.68 | 0.65 | 0.64 | 0.65 | 0.60 | 0.54 |



RISK APPETITE RATIO



The average risk appetite ratio dropped last week to the 54th percentile.



The S&P 500 wasn't able to breakout and hold above key resistance and now has followed that up with a break of support. We finished last week back under the 200-day moving average. That frustrates many traders were overly reliant on extremely small sample size data studies about how the market rips higher after going above the 200-day MA for X number of days. Those that share those results haven't seen the study on the Dow, which shows much less impressive results on a larger sampling of data. Back to the SPX, the next level of interest will be the December low now that the Index has essentially given back all of its YTD gains. 3800 is get a lot of attention and after that it'll be the 200-week MA once again that will the battlefield for buyers and sellers.

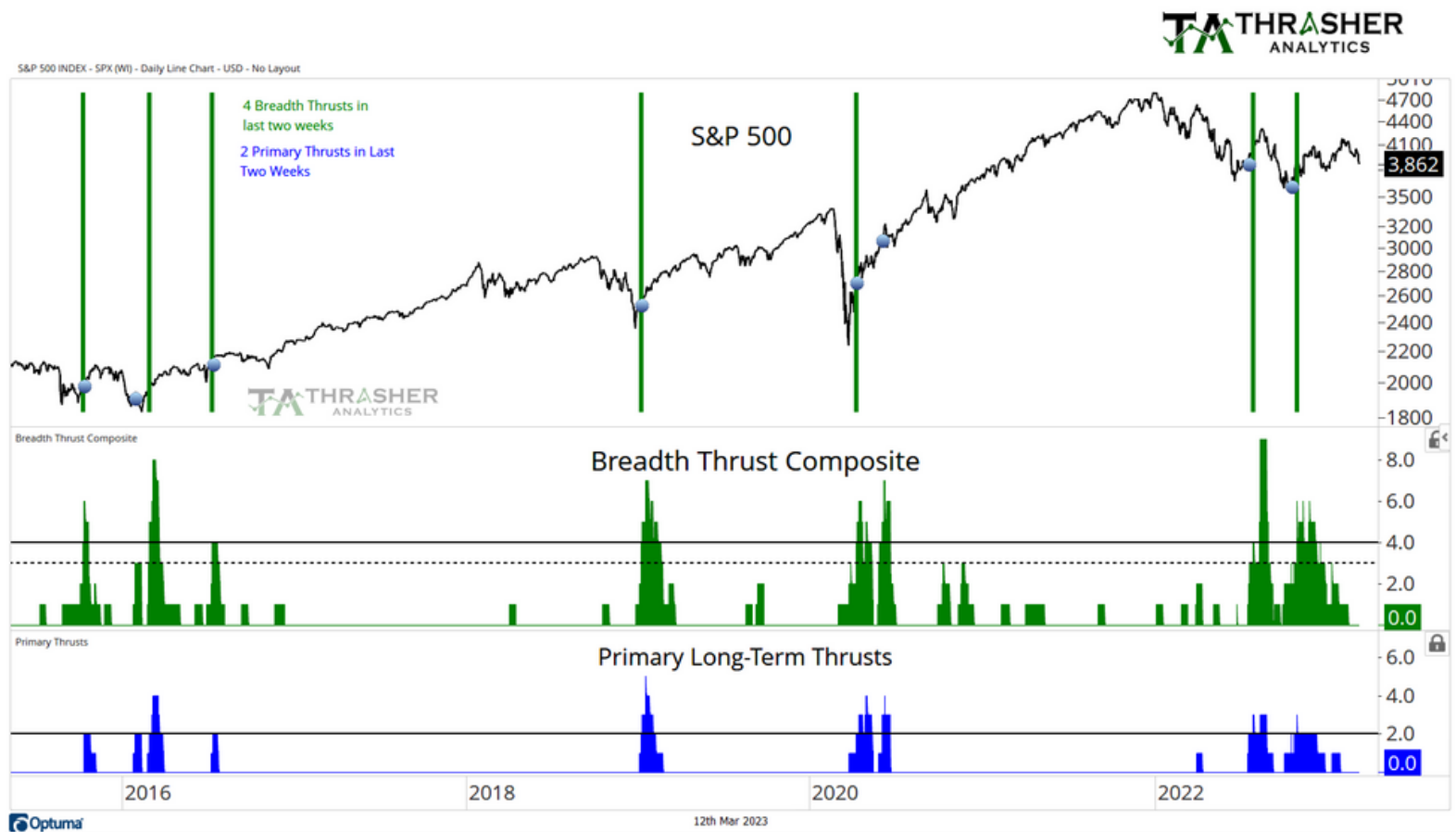


EQUITIES - BREADTH THRUSTS



I've added an add'l section of the breadth thrust composite chart, titled Primary Long-Term Thrusts. These are the handful of thrusts that are in the original composite that have the best track record and only have the highest bar to clear to signal. The original composite is still what 'feeds' the breadth category of the Maestro Model.

Thrust count sits at 0.



EQUITIES - BREADTH



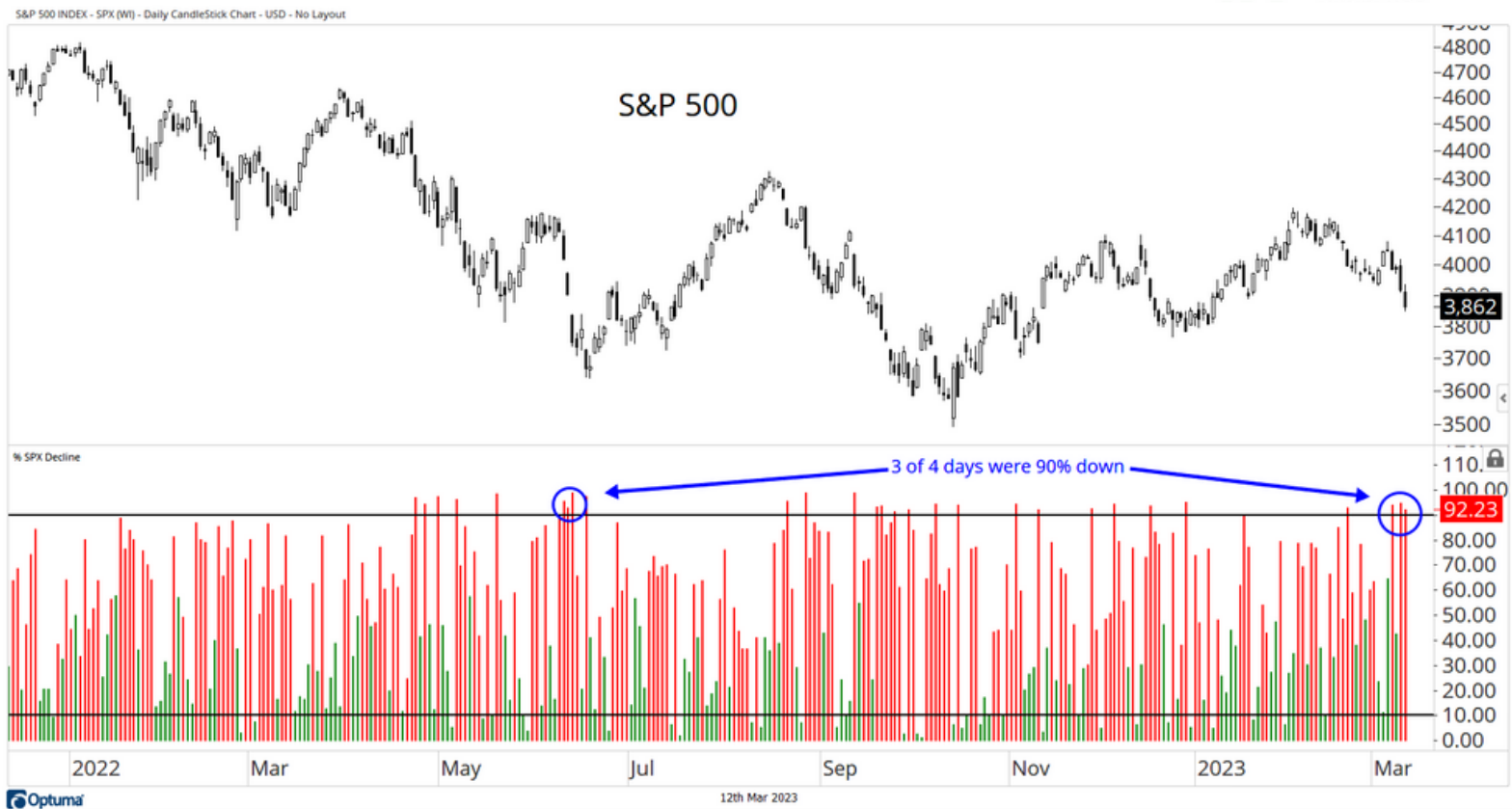
Below is a table showing the changes in breadth data over the last 35 days. This provides insight into whether bullish or bearish data is improving or declining.

| | 35 Days Ago | 30 Days Ago | 25 Days Ago | 20 Days Ago | 15 Days Ago | 10 Days Ago | 5 Days Ago | Current |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|---------|
| Moving Average Breadth | | | | | | | | |
| S&P 500 % above 200-day MA | 52.3 | 65.0 | 75.8 | 65.0 | 66.0 | 57.1 | 59.8 | 41.2 |
| Nasdaq 100 % above 200-day MA | 49.5 | 58.4 | 75.2 | 66.3 | 71.3 | 55.4 | 63.4 | 48.5 |
| S&P 500 % above 50-day MA | 47.7 | 72.6 | 74.0 | 62.2 | 63.8 | 43.3 | 51.1 | 16.3 |
| Nasdaq 100 % above 50-day MA | 42.6 | 72.3 | 73.3 | 64.4 | 71.3 | 48.5 | 55.4 | 31.7 |
| S&P 500 % above 20-day MA | 54.7 | 75.5 | 73.4 | 48.7 | 43.9 | 17.9 | 38.6 | 6.4 |
| Nasdaq 100 % above 20-day MA | 56.4 | 78.2 | 80.2 | 54.5 | 57.4 | 22.8 | 46.5 | 11.9 |
| Bullish Breadth | | | | | | | | |
| S&P 500 % RSI(14) > 70 | 1.2 | 9.9 | 26.6 | 4.0 | 2.4 | 0.2 | 3.2 | 0.2 |
| Nasdaq 100 % RSI(14) > 70 | 2.0 | 14.9 | 37.6 | 3.0 | 3.0 | 2.0 | 4.0 | 0.0 |
| S&P 400 % New 52 week highs | 0.3 | 4.8 | 17.0 | 4.1 | 6.1 | 1.5 | 3.7 | 0.3 |
| S&P 600 % New 52 week highs | 0.2 | 4.4 | 12.2 | 2.4 | 2.9 | 1.0 | 4.6 | 0.0 |
| S&P 500 % New 52 week highs | 0.2 | 4.0 | 6.6 | 3.8 | 2.0 | 0.8 | 4.4 | 0.4 |
| Nasdaq 100 % New 52 week highs | 0.0 | 5.0 | 5.0 | 3.0 | 4.0 | 1.0 | 4.0 | 1.0 |
| S&P 500 % New 6 month highs | 0.6 | 9.2 | 21.9 | 6.8 | 3.0 | 0.8 | 5.8 | 0.2 |
| Nasdaq 100 % New 6 month highs | 0.0 | 9.9 | 19.8 | 5.9 | 6.9 | 1.0 | 6.9 | 0.0 |
| Bearish Bearish | | | | | | | | |
| S&P 500 % RSI(14) < 30 | 3.0 | 1.4 | 0.8 | 1.4 | 1.2 | 3.6 | 1.6 | 22.3 |
| Nasdaq 100 % RSI(14) < 30 | 2.0 | 1.0 | 4.0 | 3.0 | 2.0 | 5.0 | 1.0 | 7.9 |
| S&P 400 % New 52 week lows | 0.0 | 0.3 | 0.0 | 0.3 | 0.3 | 1.0 | 0.7 | 9.5 |
| S&P 600 % New 52 week lows | 0.7 | 0.7 | 0.2 | 0.3 | 0.2 | 1.5 | 0.7 | 11.8 |
| S&P 500 % New 52 week lows | 0.6 | 0.0 | 0.2 | 0.2 | 0.2 | 2.4 | 0.4 | 8.2 |
| Nasdaq 100 % New 52 week lows | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 1.0 | 0.0 | 3.0 |
| S&P 500 % New 6 month lows | 1.4 | 0.0 | 0.2 | 0.4 | 0.4 | 3.0 | 0.4 | 10.7 |
| Nasdaq 100 % New 6 month lows | 2.0 | 0.0 | 1.0 | 2.0 | 0.0 | 3.0 | 0.0 | 5.0 |

EQUITIES - 90% DOWN DAYS



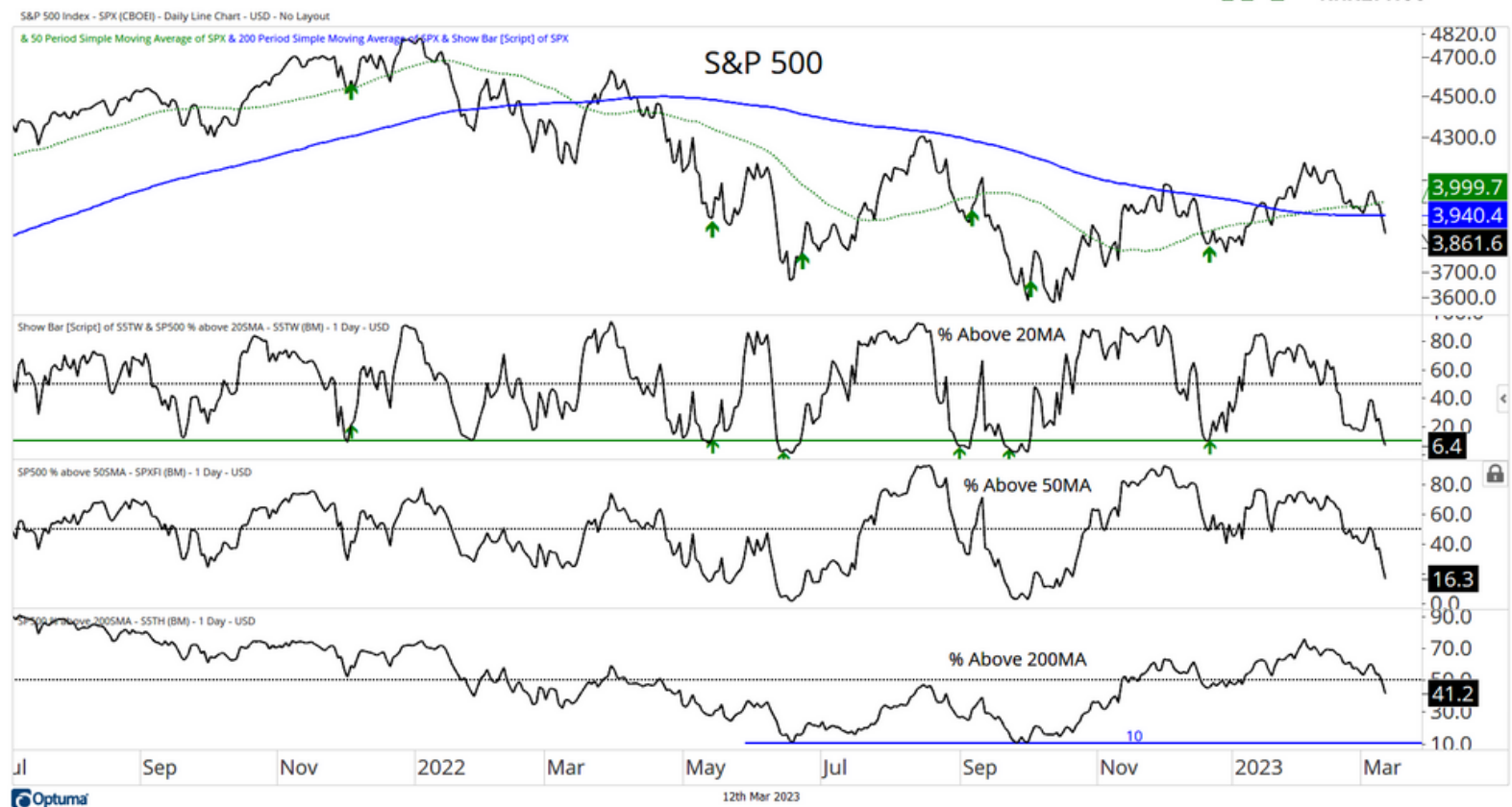
The S&P 500 has now seen three out of four days with 90% of stocks declining. We haven't seen that strong of downside pressure since June of last year. This degree of selling can be hard to sustain. In June the market declined for a few more days before being followed by a multi-week rally that exhausted in August. Those arguing we're in a brand-new bull market will have a hard time explaining this any 90% down days. For instance, in 2009 we didn't see 2 (much less 3 out of 4) days in one week with 90% down days until July and they didn't cluster like this until April 2010.



EQUITIES - MA BREADTH



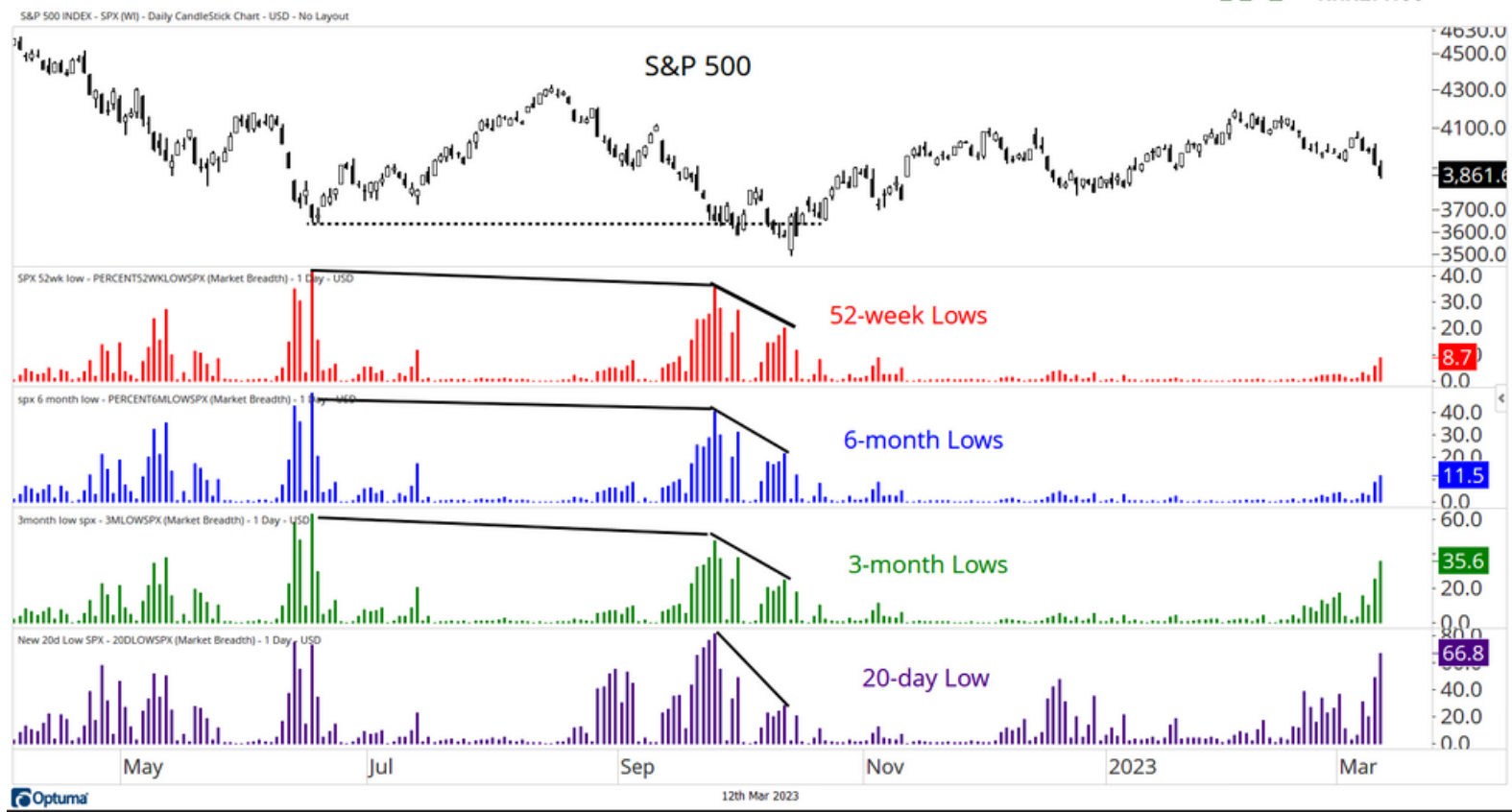
By Friday, only 6.4% of large cap stocks were still above the 20-day moving average. During the downturn last year, when we saw this percentage rise above 10%, it had been followed by a continued short-term rally. These rallies often failed in 2022, but it's something to keep an eye on if we do see stocks strength this week, bulls may try to jump at the chance to bid this market higher and strength these breadth figures.



EQUITIES - NEW LOWS



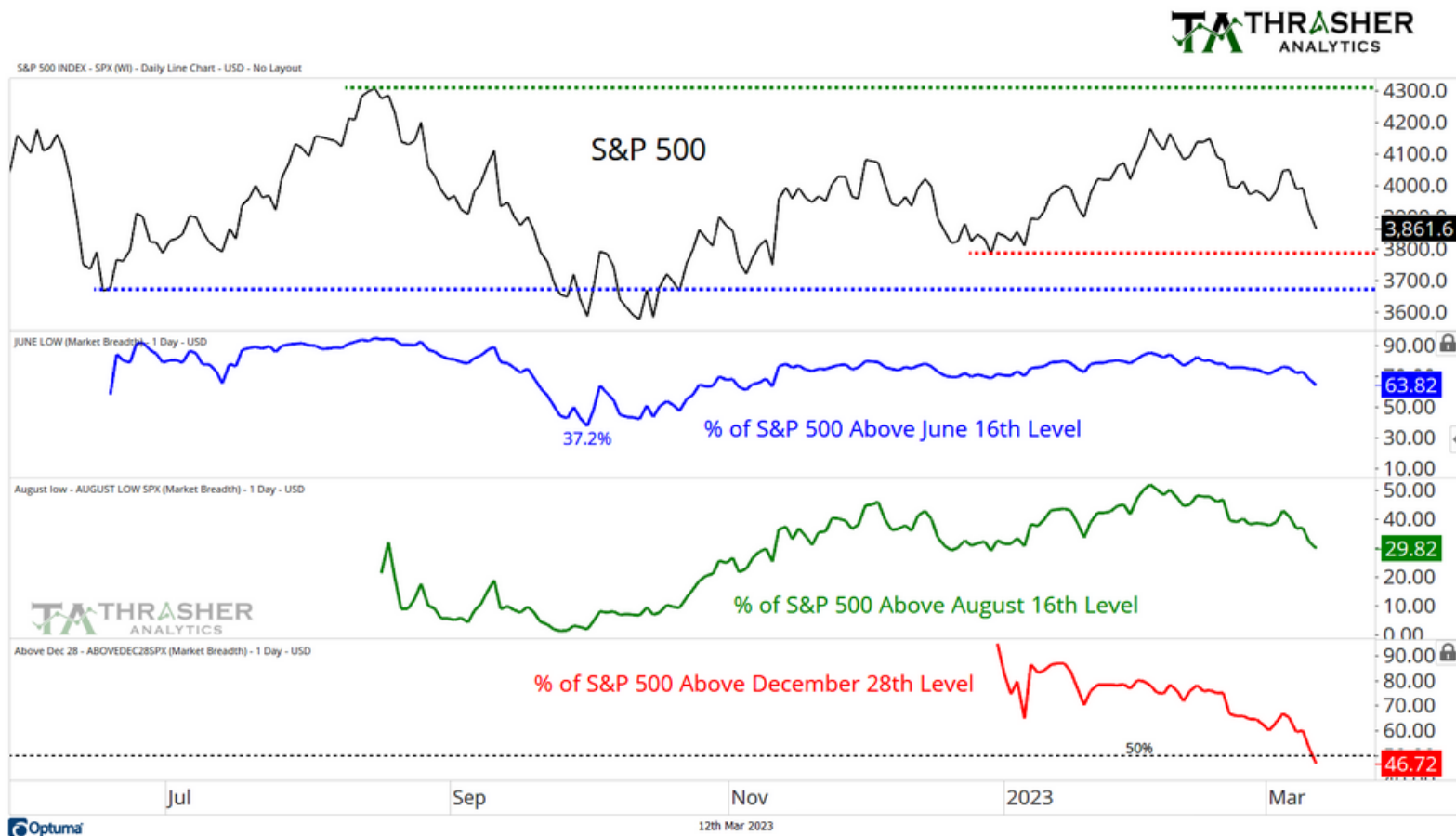
Last week I noted that we hadn't seen a pick-up in 20-day lows and that it was a bullish development. Well, that didn't last long, as Friday saw 66.8% of large cap stocks hit a new 20-day low. New multi-month highs in new lows across timeframes. Markets are now at risk for bearish distribution as these new low lists expand.



EQUITIES - DECEMBER LOW



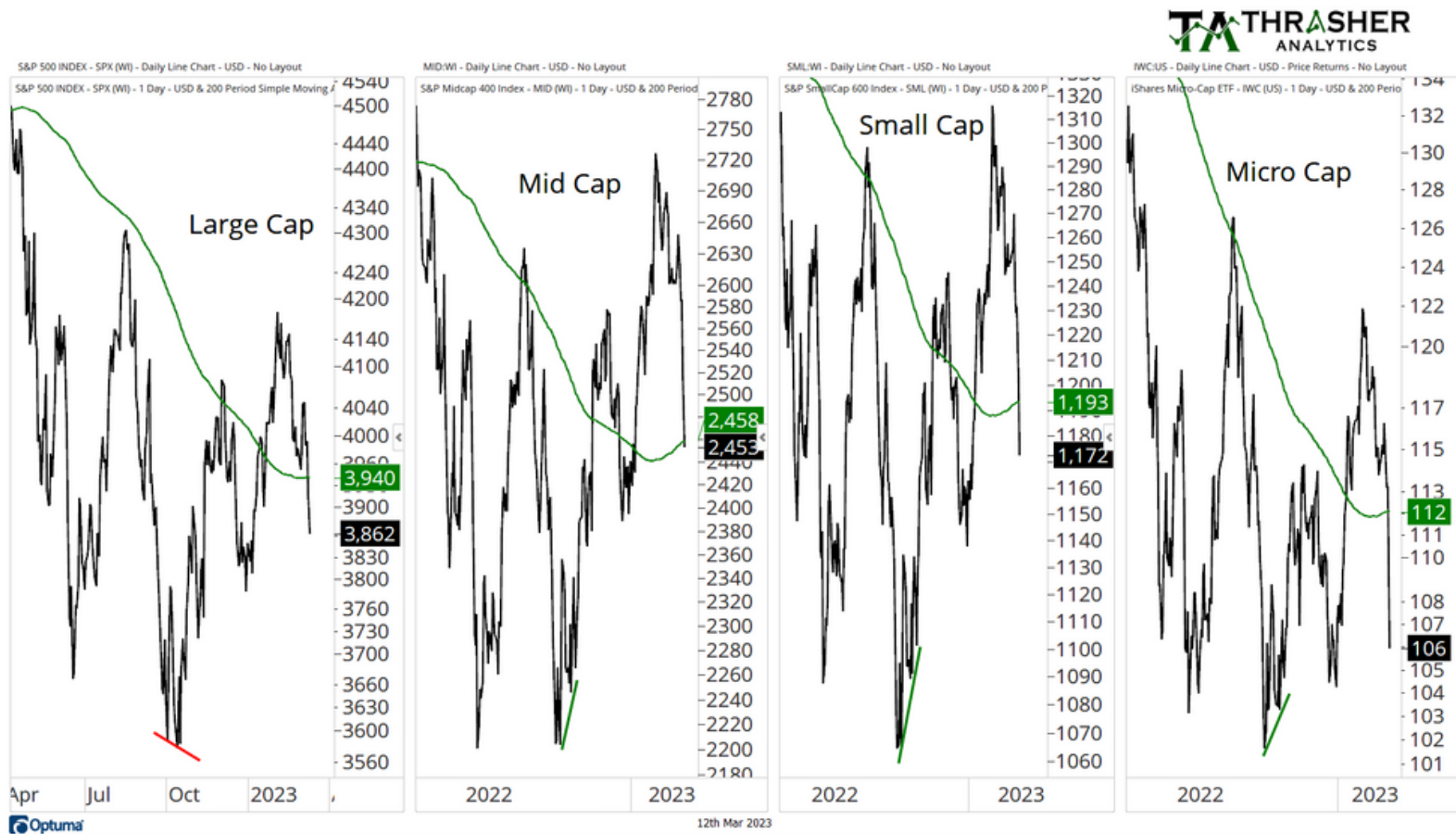
I noted earlier that the December low will be the next key price level for potential support. There's major risk we don't see that level hold as we already have the majority of stocks trading below the December 28th level. Just 46.7% of large cap stocks are trading above their respective 12/28 price, not a good sign for the index.



EQUITY - ASSET SIZE



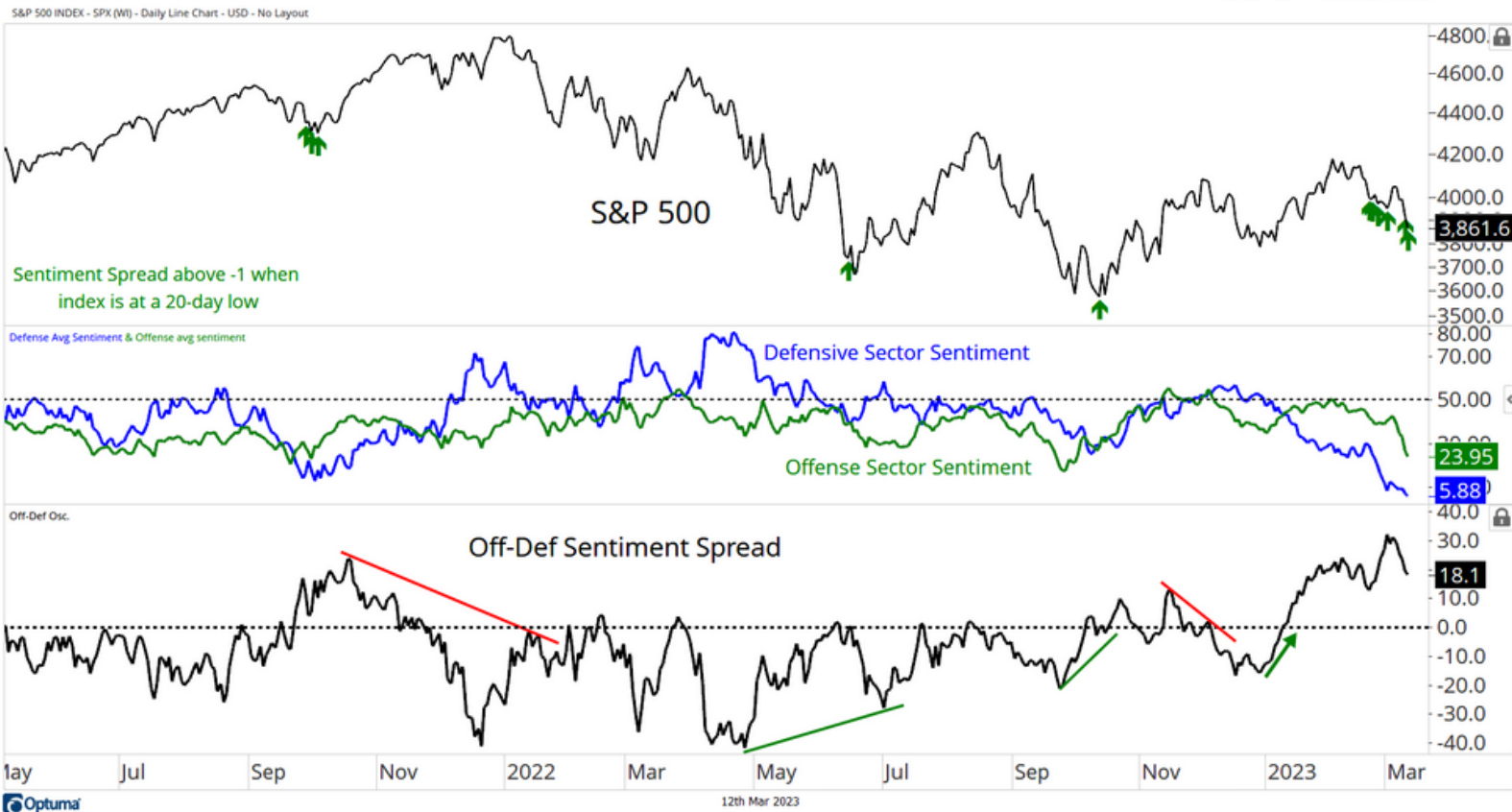
It's now just the large cap stocks that saw breaks of key price levels. Across asset sizes the 200-day moving average failed to hold last week's decline.



EQUITIES - SECTOR SENTIMENT



The Sentiment Spread is still positive but has come down as both defensive and offense sentiment declines. Defensive sentiment has cratered but note the recent bullish sentiment signals for defense sectors like XLV, XLP, and XLRE.



ETF FUND FLOW



Below is a look at fund flows for major bond and equity ETFs. Data is through Thursday of last week.



Daily - ETF Flows - Fund Flows Layout

| Name | Ticker | Net Flows YTD | Net Flows 3 Month | Net Flows 1 Month | 1 Month Flow % of AUM |
|--|--------|-----------------|-------------------|-------------------|-----------------------|
| - Bond ETFs | | | | | |
| IShares 10-20 Year Treasury Bond ETF | TLH | 2,371,303,816 | 2,595,284,763 | 956,831,688 | 11.45% |
| IShares 20+ Year Treasury Bond ETF | TLT | 3,893,232,003 | 2,598,712,493 | 1,516,931,466 | 4.85% |
| IShares 7-10 Year Treasury Bond ETF | IEF | 650,799,798 | 602,565,078 | 692,712,984 | 2.96% |
| IShares TIPS Bond ETF | TIP | -1,269,728,083 | -2,292,264,431 | -501,037,502 | -2.30% |
| IShares 3-7 Year Treasury Bond ETF | IEI | 372,828,107 | 348,818,152 | -397,654,995 | -3.30% |
| IShares 1-3 Year Treasury Bond ETF | SHY | -1,242,712,028 | -1,129,166,716 | -867,243,756 | -3.32% |
| IShares iBoxx \$ Investment Grade Corporate Bond ETF | LQD | -2,347,856,299 | -4,008,300,791 | -4,822,847,462 | -14.62% |
| - SPDR Equity ETFs | | | | | |
| SPDR Energy Select Sector Fund ETF | XLE | 543,818,257 | 230,531,140 | 956,444,635 | 2.41% |
| SPDR Industrial Select Sector Fund ETF | XLI | 661,782,005 | 528,450,599 | 288,263,847 | 2.00% |
| SPDR Consumer Staples Select Sector Fund ETF | XLP | -406,844,675 | -387,197,055 | -75,193,117 | -0.46% |
| SPDR Materials Select Sector Fund ETF | XLB | 387,648,141 | 409,486,442 | -44,210,474 | -0.77% |
| SPDR Financial Select Sector Fund ETF | XLF | 440,013,528 | 280,433,971 | -348,257,621 | -1.12% |
| SPDR Communication Services Select Sector ETF | XLC | 119,296,821 | -54,844,411 | -125,573,019 | -1.42% |
| SPDR Health Care Select Sector Fund ETF | XLV | -1,166,344,421 | -761,578,270 | -564,455,971 | -1.50% |
| SPDR Consumer Discretionary Select Sector Fund ETF | XLY | -194,084,058 | -426,062,065 | -292,856,526 | -2.18% |
| SPDR S&P 500 ETF | SPY | -12,059,942,155 | -10,696,101,639 | -10,109,261,298 | -2.86% |
| SPDR Technology Select Sector Fund ETF | XLK | -2,270,139,861 | -2,074,929,235 | -1,256,906,269 | -3.14% |
| SPDR Utilities Select Sector Fund ETF | XLU | -690,065,410 | -706,348,076 | -553,920,165 | -3.83% |
| SPDR Real Estate Select Sector Fund ETF | XLRE | -311,975,074 | -173,944,264 | -310,550,350 | -6.66% |

SECTOR PERFORMANCE



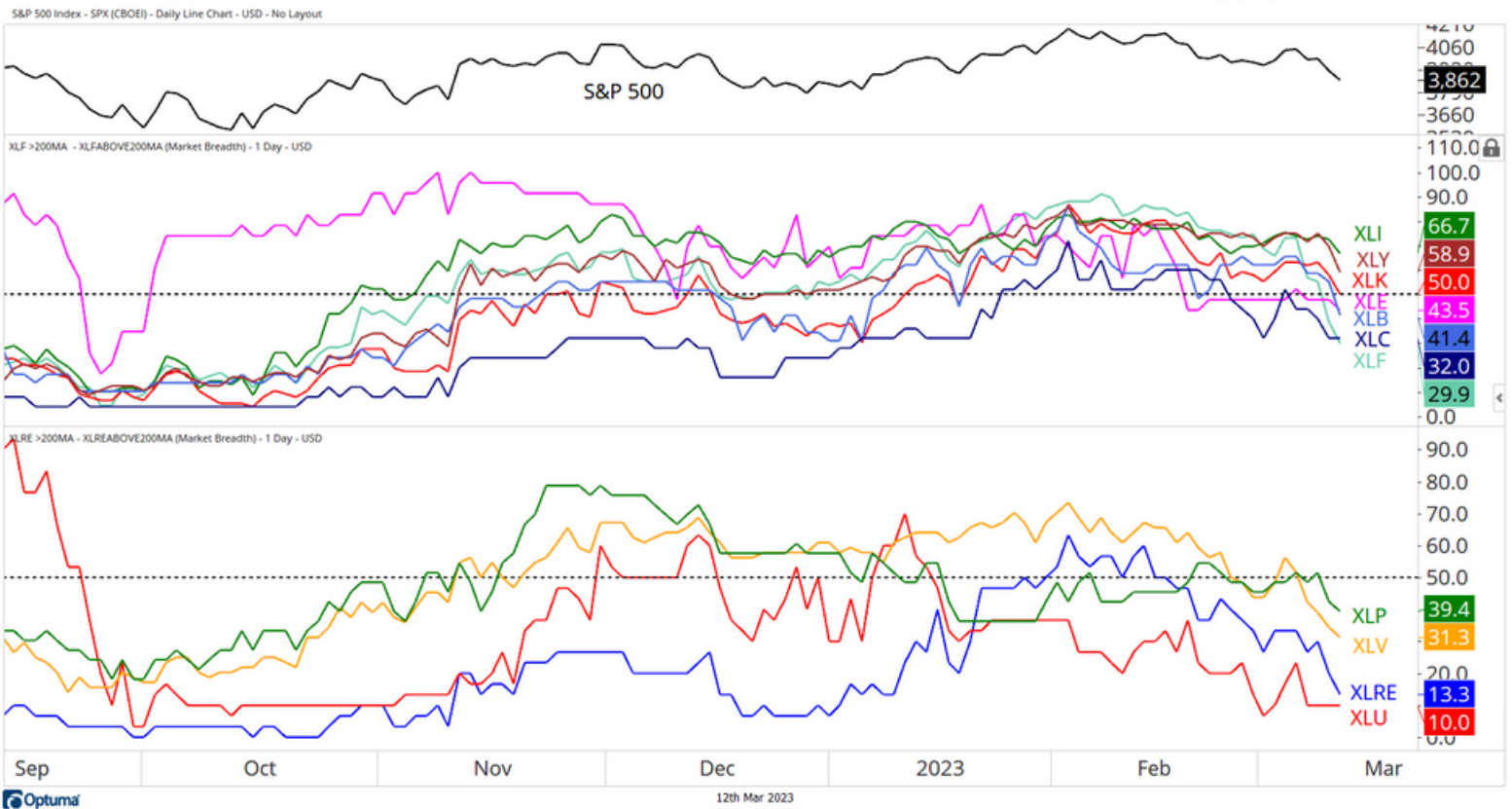
Daily - Performance - No Layout

| - TickerName | | 2023 | YTD Rel% to SPX | 1W %▼ | 1M % | 3M% | 6M% | % from 52Wk High | % from 52Wk Low | % From 20MA | % From 50MA | % From 200MA |
|--------------|--|------------|-----------------|--------|-------------|---------|---------|------------------|-----------------|-------------|-------------|--------------|
| - Index | | AVG: 1.52% | | | AVG: 15.00% | | | AVG: 11.65% | | AVG: -3.79% | | |
| NDY | NASDAQ 100 Index | 8.14% | -10.53% | -3.75% | -3.86% | 2.31% | -6.02% | 22.50% | 13.31% | -3.04% | -0.48% | -0.61% |
| DJI | Dow Jones Industrial Average | -3.73% | 8.38% | -4.44% | -5.79% | -4.68% | -0.75% | 10.09% | 11.33% | -3.87% | -4.69% | -1.49% |
| SPX | S&P 500 INDEX | 0.58% | 0.00% | -4.55% | -5.60% | -1.85% | -5.06% | 16.73% | 10.60% | -3.93% | -3.45% | -2.00% |
| MID | S&P Midcap 400 Index | 0.91% | 6.51% | -7.39% | -7.07% | -0.69% | -1.82% | 11.81% | 12.20% | -6.16% | -5.13% | -0.22% |
| SML | S&P SmallCap 600 Index | 1.28% | 3.23% | -7.67% | -7.36% | -1.20% | -1.79% | 13.86% | 10.82% | -6.31% | -5.22% | -1.74% |
| - Sectors | | AVG: 8.39% | | | AVG: 17.80% | | | AVG: 13.47% | | AVG: -4.24% | | |
| XLP | SPDR Consumer Staples Select Sector Fund ETF | -4.61% | 13.82% | -1.97% | -2.55% | -6.30% | -3.88% | 12.58% | 7.46% | -2.11% | -3.03% | -2.59% |
| XLU | SPDR Utilities Select Sector Fund ETF | -8.62% | 11.08% | -2.76% | -4.86% | -9.05% | -16.75% | 17.64% | 6.74% | -3.12% | -5.86% | -8.12% |
| XLK | SPDR Technology Select Sector Fund ETF | 9.10% | -3.62% | -3.12% | -3.28% | 3.71% | -1.04% | 17.04% | 20.18% | -2.32% | 0.70% | 2.21% |
| XLV | SPDR Health Care Select Sector Fund ETF | -8.61% | 8.76% | -3.89% | -6.29% | -10.02% | -4.87% | 13.44% | 4.55% | -3.89% | -5.97% | -4.88% |
| XLI | SPDR Industrial Select Sector Fund ETF | 0.80% | 15.48% | -4.50% | -3.07% | -0.07% | 3.89% | 5.92% | 19.64% | -2.79% | -2.12% | 4.13% |
| XLC | SPDR Communication Services Select Sector ETF | 8.90% | -16.96% | -4.57% | -4.91% | 5.70% | -6.04% | 26.98% | 16.50% | -3.75% | -2.34% | -1.57% |
| XLE | SPDR Energy Select Sector Fund ETF | -5.53% | 83.76% | -5.31% | -8.40% | -0.06% | 2.52% | 12.75% | 26.19% | -3.88% | -5.39% | -0.28% |
| XLV | SPDR Consumer Discretionary Select Sector Fund | 7.00% | -16.57% | -5.54% | -6.72% | -0.88% | -15.98% | 28.09% | 9.68% | -5.38% | -3.14% | -5.74% |
| XLRE | SPDR Real Estate Select Sector Fund ETF | -2.25% | -14.00% | -6.84% | -10.02% | -5.74% | -16.12% | 29.17% | 8.98% | -6.63% | -7.40% | -8.99% |
| XLB | SPDR Materials Select Sector Fund ETF | 0.64% | 6.49% | -7.59% | -4.69% | -3.46% | 0.14% | 14.55% | 16.95% | -4.34% | -4.47% | 0.19% |
| XLFI | SPDR Financial Select Sector Fund ETF | -3.71% | 4.08% | -8.50% | -9.76% | -4.63% | -4.16% | 17.69% | 11.29% | -7.64% | -7.68% | -2.97% |

SECTOR - BREADTH 200-MA



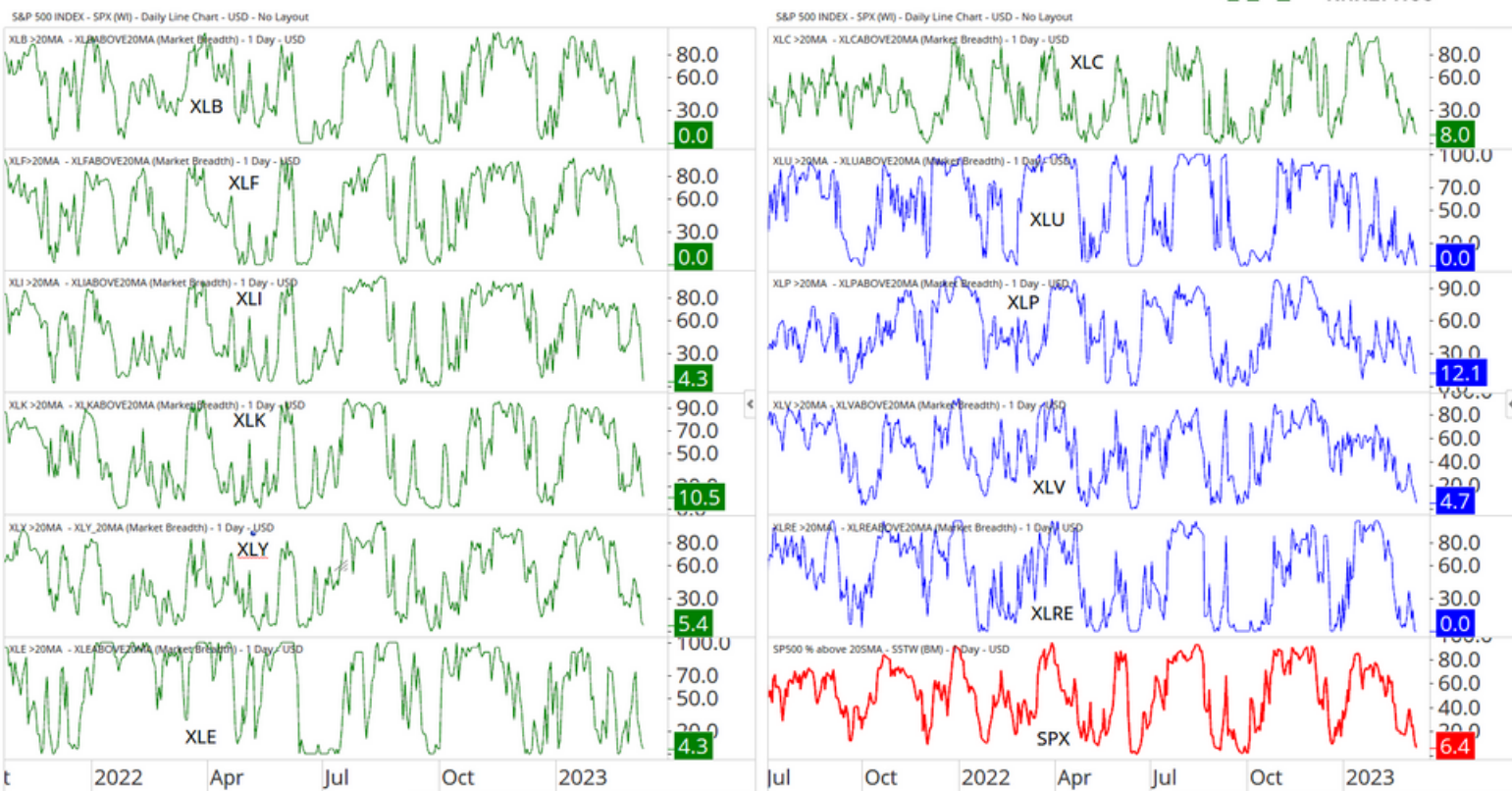
Big change in XLF, which had the most stocks above the 200-day MA in Feb. and the third most to start this month and now has the fewest of all the offense sectors.



SECTOR - BREADTH



There's now several sectors with no stocks remaining above the 20-day moving average. Including XLB, XLF, XLU, and XLRE.



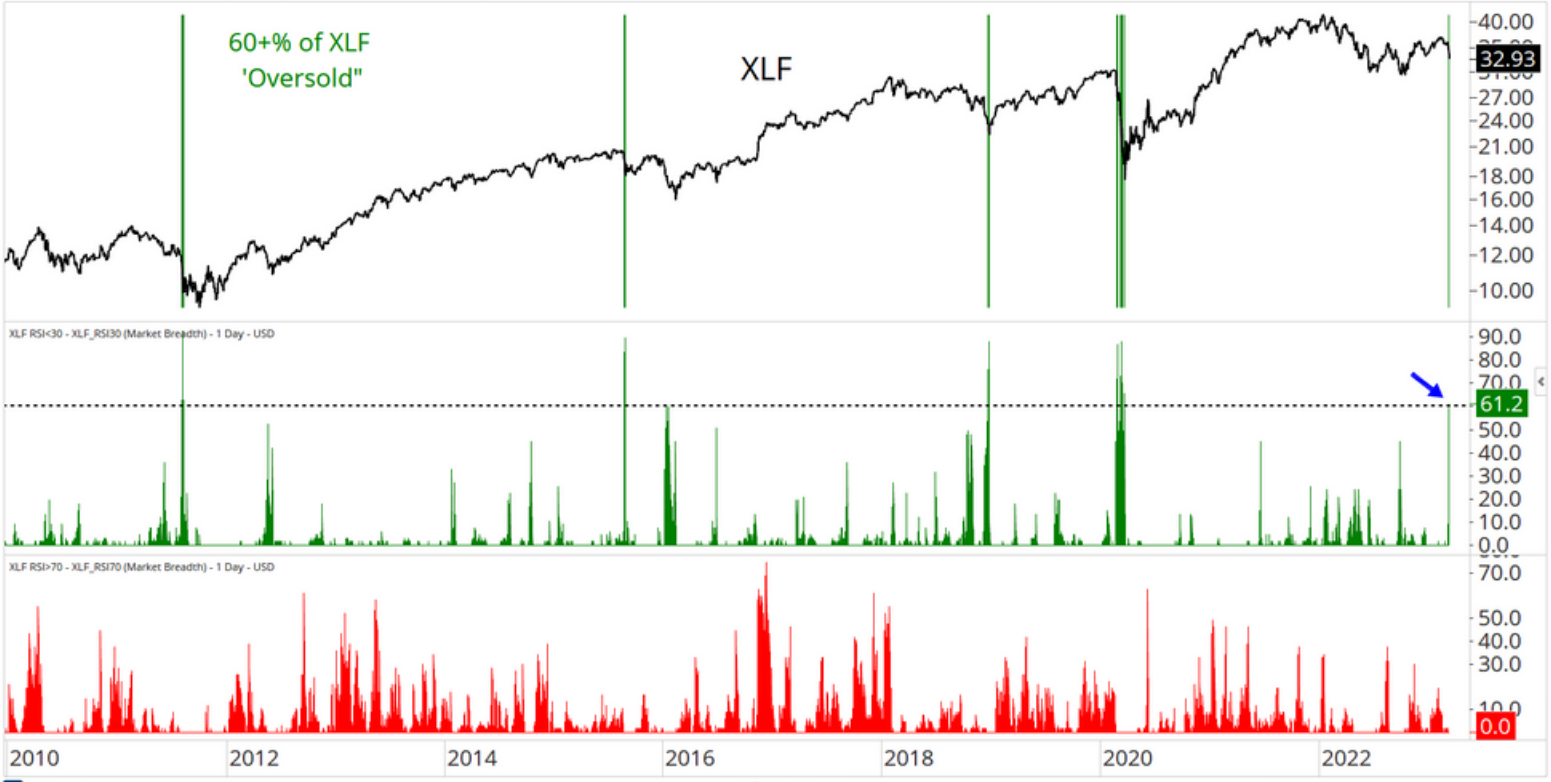
SECTOR - XLF "OVERSOLD"



On Friday, 61% of the stocks in XLF had an RSI under 30, the most since the Covid Crash and only the fifth time there's been more than 60% 'oversold' since 2010.



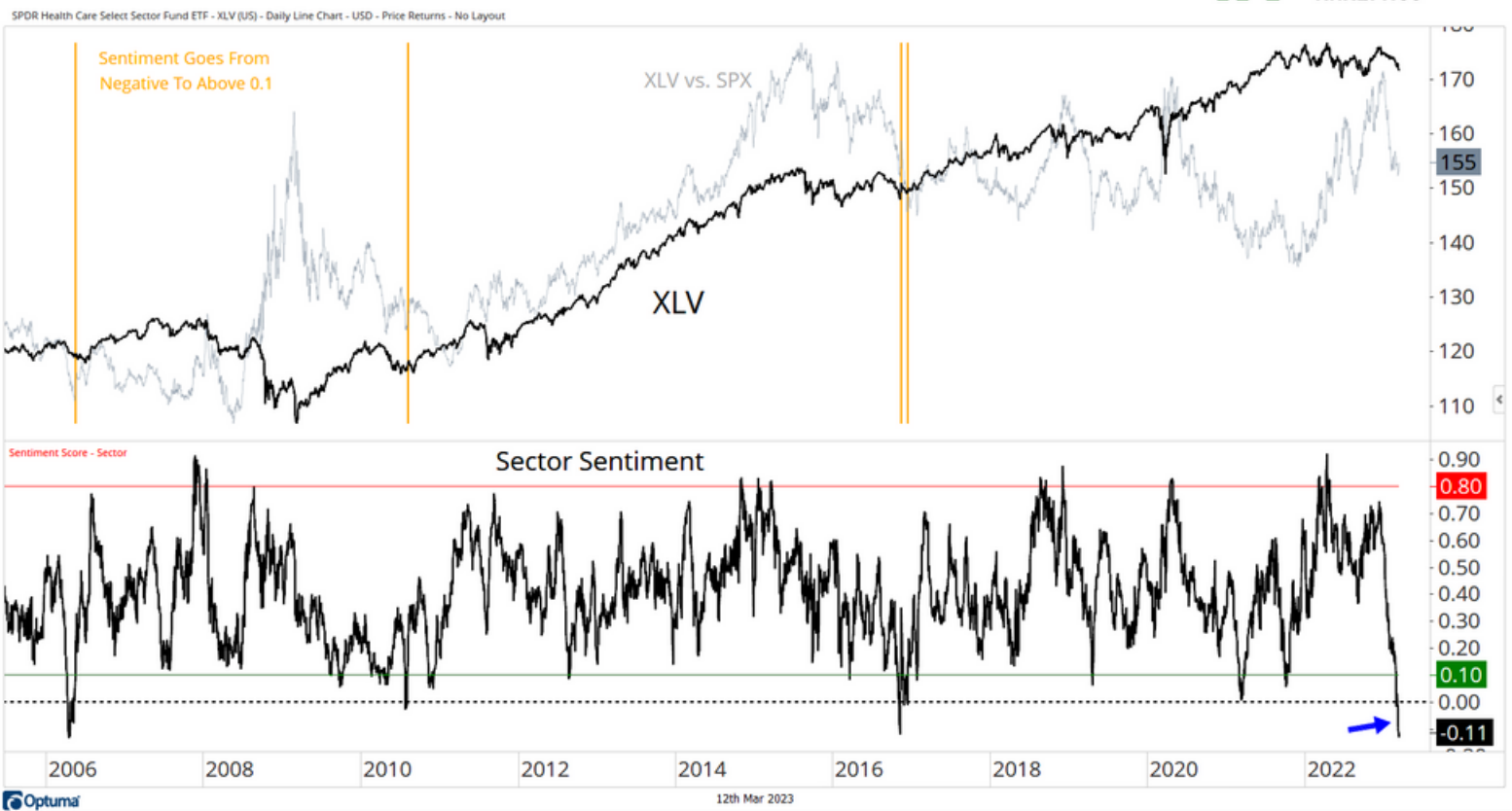
SPDR Financial Select Sector Fund ETF - XLF (US) - Daily Line Chart - USD - Price Returns - No Layout



SECTOR - XLV SENTIMENT



I've mentioned before how sentiment for health care has been totally blown out. We now have a negative sentiment score for XLV. Since 2006, we've had a negative sentiment score for this sector just a handful of times and by the time it strengthened and went from negative to above 0.1, the sector saw a strong rally. At the current -0.11, there's a lot of work to be done to get back to +0.1 but I'm watching this sector closely as the sentiment rarely has been this bearish and may offer an opportunity should that change.



FOREX - U.S. DOLLAR



While stocks sold off last week, we didn't see a rally in the dollar. Instead, we saw the noted level of resistance I've been discussing hold and the dollar failed to get a durable breakout. With the retail sales and CPI data being released this week, the dollar could get the juice needed to make a major move in either direction and could be a good 'tell' for what's in store for stocks.



US Dollar Index - DXY (W) - Daily Bar Chart - USD - No Layout



DAILY SENTIMENT INDEX



Daily - Watch List - No Layout

| Code | % Bullish ^ | 5-day MA | History |
|-----------------------|-------------|----------|---------|
| Palladium DSI | 15 | 16 | |
| Corn DSI | 15 | 15 | |
| Wheat DSI | 17 | 14 | |
| SPX DSI | 18 | 33 | |
| Nasdaq DSI | 25 | 40 | |
| Natural Gas DSI | 26 | 33 | |
| Bitcoin DSI | 27 | 37 | |
| Lean Hog DSI | 34 | 24 | |
| Crude Oil DSI | 36 | 39 | |
| SYR DSI | 37 | 26 | |
| Silver DSI | 38 | 36 | |
| Platinum DSI | 38 | 37 | |
| Cotton DSI | 38 | 49 | |
| Yen DSI | 39 | 29 | |
| EuroDollar DSI | 39 | 31 | |
| VIX DSI | 40 | 26 | |
| Swiss Franc DSI | 40 | 25 | |
| Australian Dollar DSI | 40 | 39 | |

Daily - Watch List - No Layout

| Code | % Bullish | 5-day MA | History |
|------------------------|-----------|----------|---------|
| 10Y DSI | 43 | 29 | |
| Euro DSI | 44 | 40 | |
| Heating Oil DSI | 45 | 49 | |
| Lumber DSI | 46 | 43 | |
| Soybean DSI | 49 | 53 | |
| CRB Index DSI | 52 | 54 | |
| Nikkei DSI | 53 | 63 | |
| British Pound DSI | 53 | 48 | |
| US Dollar DSI | 55 | 61 | |
| Gold DSI | 56 | 50 | |
| New Zealand Dollar DSI | 59 | 57 | |
| Cocoa DSI | 60 | 68 | |
| Copper DSI | 61 | 65 | |
| Coffee DSI | 62 | 64 | |
| Cattle DSI | 66 | 73 | |
| Mexican Peso DSI | 69 | 80 | |
| Gasoline DSI | 69 | 73 | |
| Sugar DSI | 79 | 79 | |
| Orange Juice DSI | 84 | 79 | |

Source: trade-futures.com

DAILY SENTIMENT INDEX



DAILY SENTIMENT INDEX

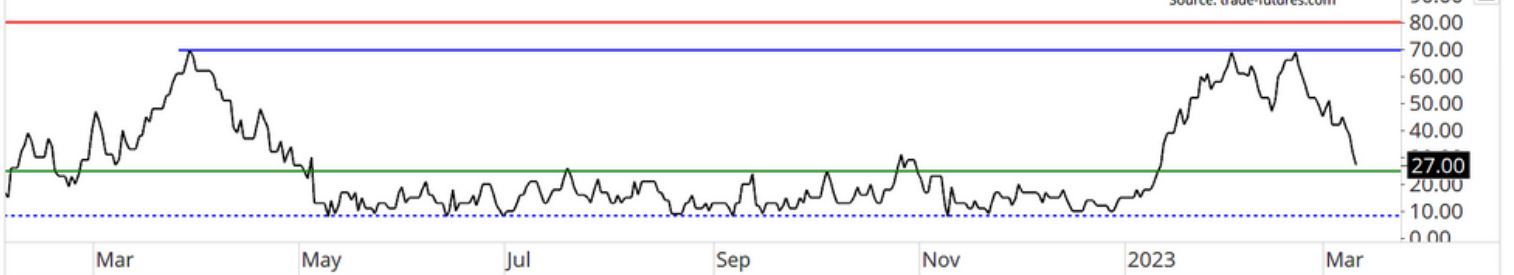


Bitcoin/United States dollar - BTCUSD (CW) - Daily Line Chart - USD - No Layout - Data from Cryptowatch



Bitcoin DSI (DSI) - 1 Day - USD

Source: trade-futures.com



12th Mar 2023

DAILY SENTIMENT INDEX



Crude Oil Light Sweet NYMEX - OILSW (W) - Daily Line Chart - USD - No Layout



12th Mar 2023

DAILY SENTIMENT INDEX



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ANALYTICS

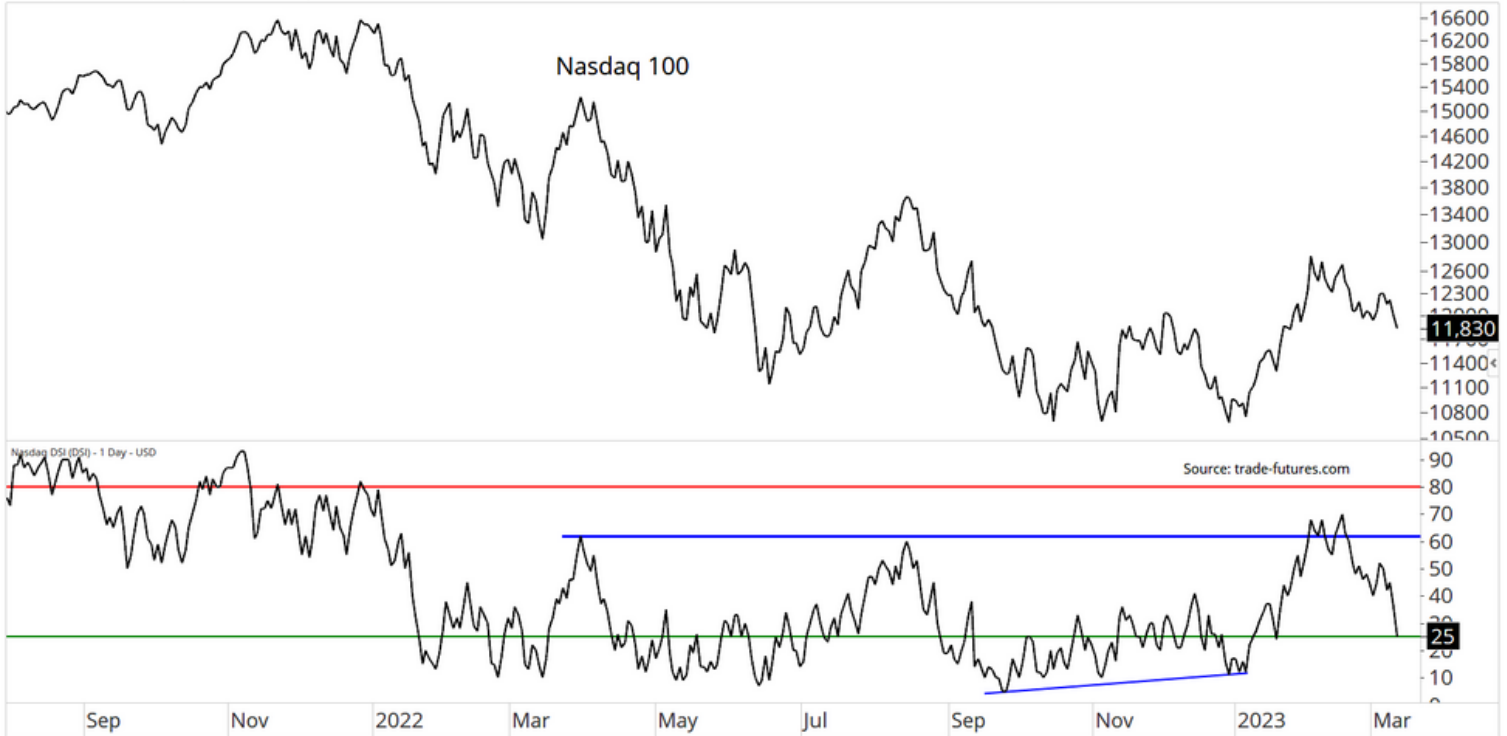
Gold Futures - GC25spot (AFUT) - Daily Line Chart - USD - No Layout



DAILY SENTIMENT INDEX



NASDAQ 100 Index - NDY (W1) - Daily Line Chart - USD - No Layout



12th Mar 2023

DAILY SENTIMENT INDEX



S&P 500 Index - SPX (CBOE) - Daily Line Chart - USD - No Layout



Optima

12th Mar 2023

DAILY SENTIMENT INDEX



U.S. Dollar Index - DIXSpot (AFUT) - Daily Line Chart - USD - No Layout



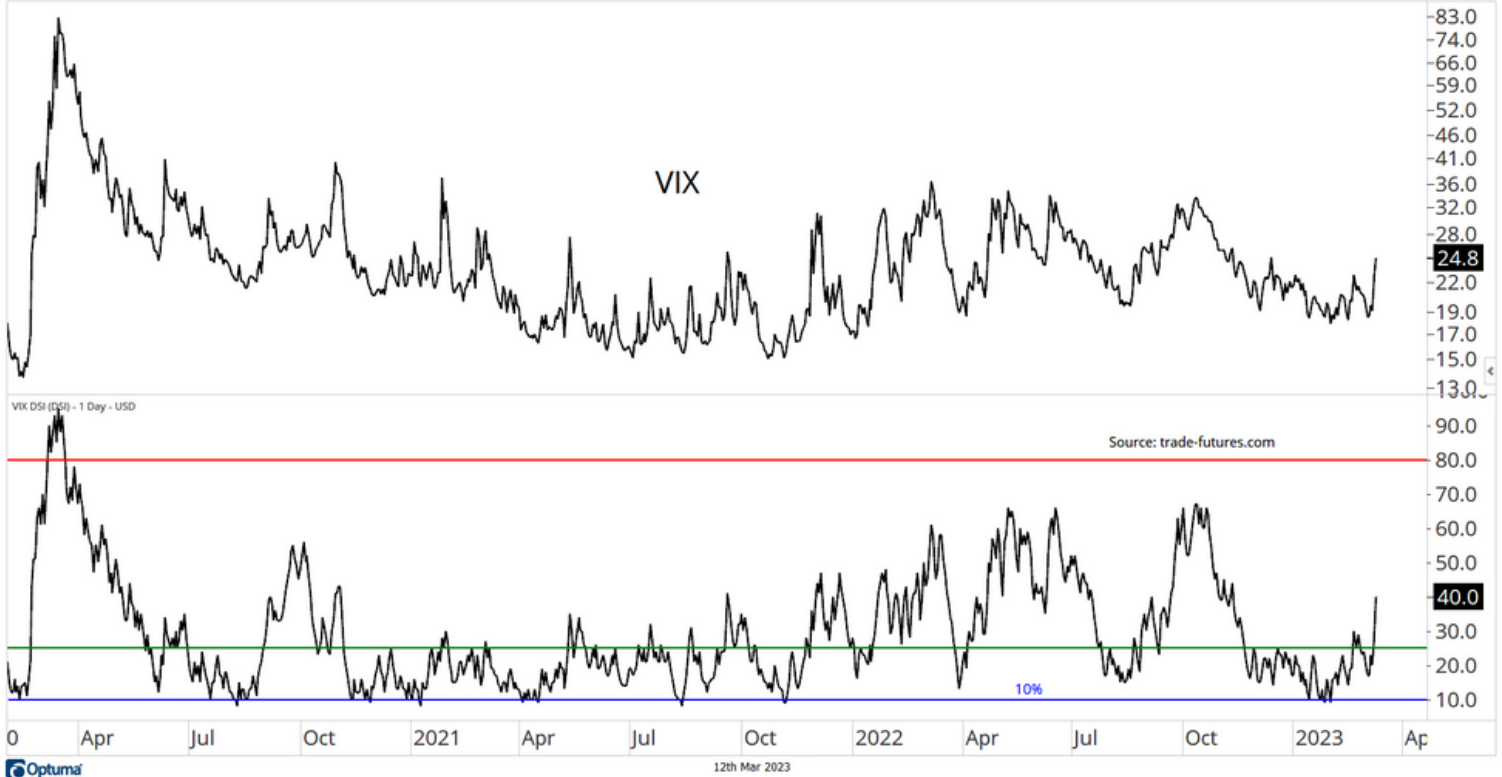
Optima

12th Mar 2023

DAILY SENTIMENT INDEX



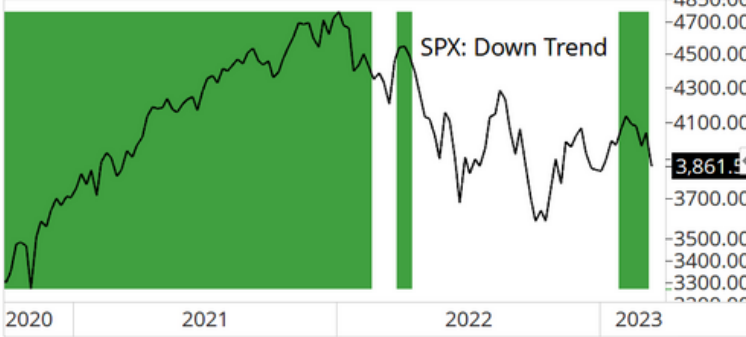
CBOE S&P 500 Volatility Index - VIX (CBOE) - Daily Line Chart - USD - No Layout



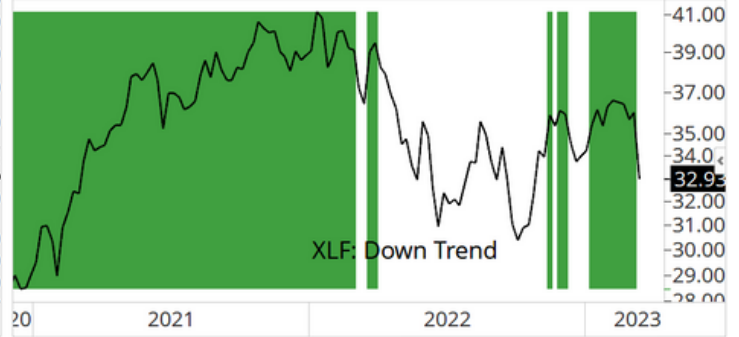
TREND MODELS



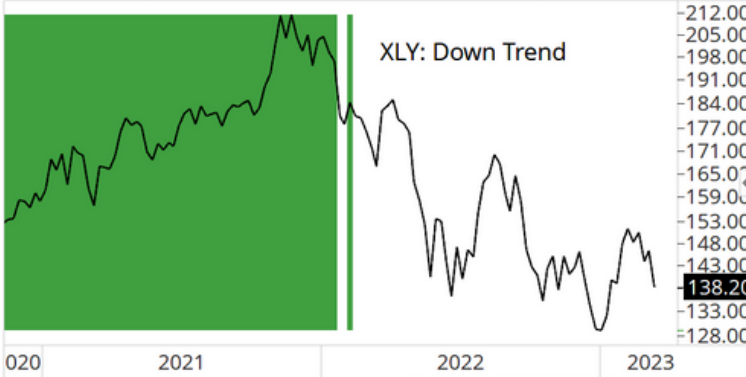
S&P 500 INDEX - SPX (W) - Weekly Line Chart - USD - No Layout



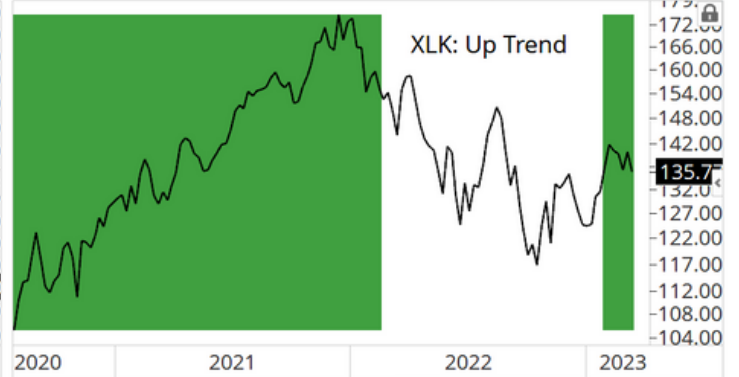
SPDR Financial Select Sector Fund ETF - XLF (US) - Weekly Line Chart - USD - Price Returns - No Layout



SPDR Consumer Discretionary Select Sector Fund ETF - XLY (US) - Weekly Line Chart - USD - Price Returns - No Layout



SPDR Technology Select Sector Fund ETF - XLK (US) - Weekly Line Chart - USD - Price Returns - No Layout

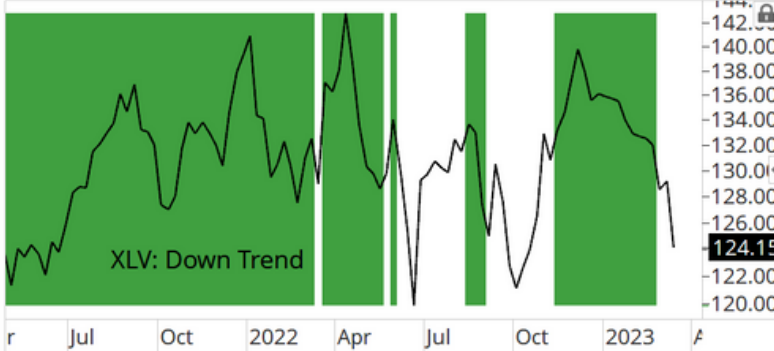


11th Mar 2023

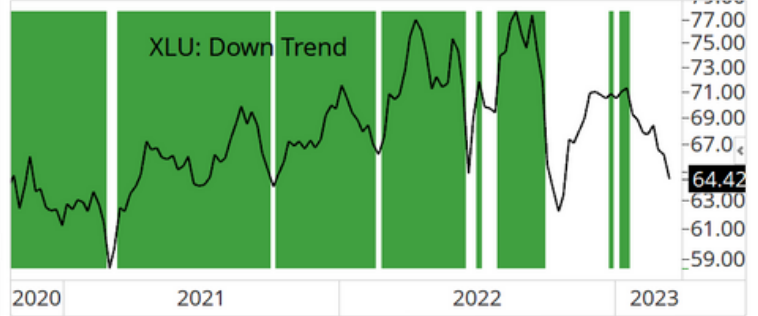
TREND MODELS



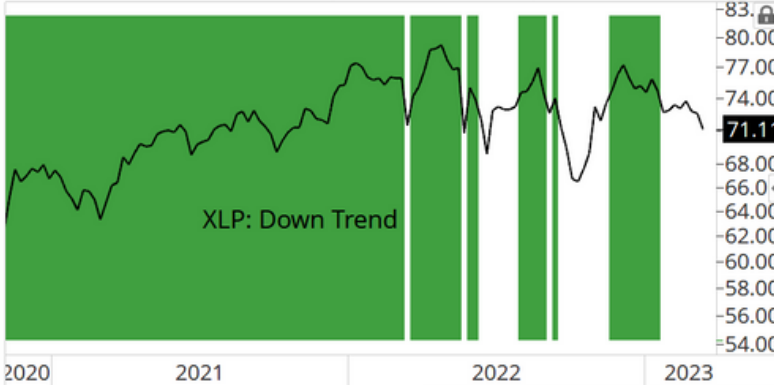
SPDR Health Care Select Sector Fund ETF - XLV (US) - Weekly Line Chart - USD - Price Returns - No Layout



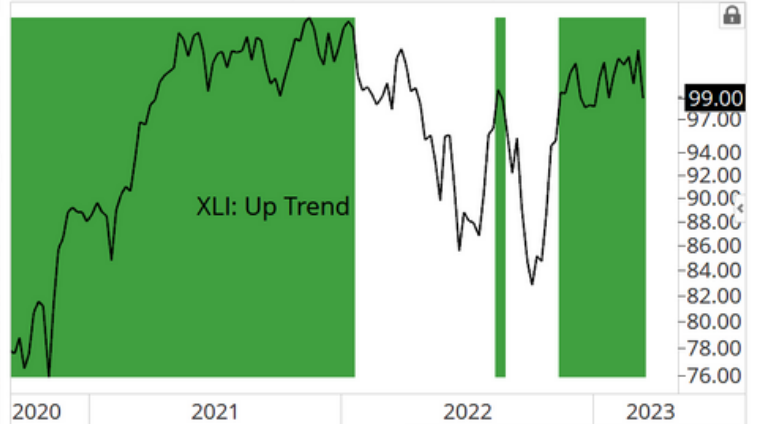
SPDR Utilities Select Sector Fund ETF - XLU (US) - Weekly Line Chart - USD - Price Returns - No Layout



SPDR Consumer Staples Select Sector Fund ETF - XLP (US) - Weekly Line Chart - USD - Price Returns - No Layout



SPDR Industrial Select Sector Fund ETF - XLI (US) - Weekly Line Chart - USD - Price Returns - No Layout

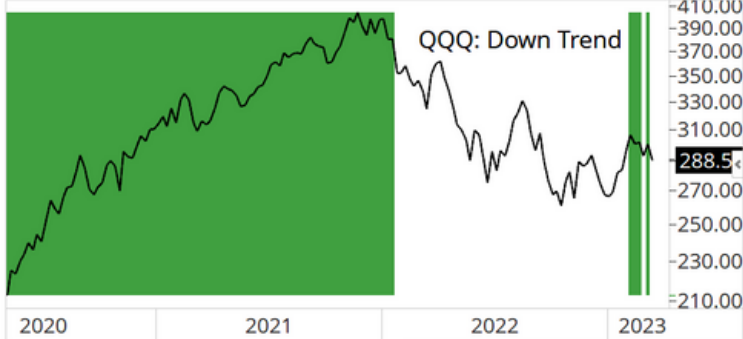


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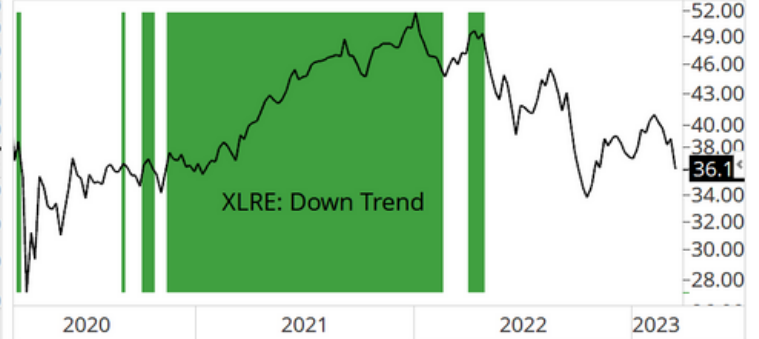
TREND MODELS



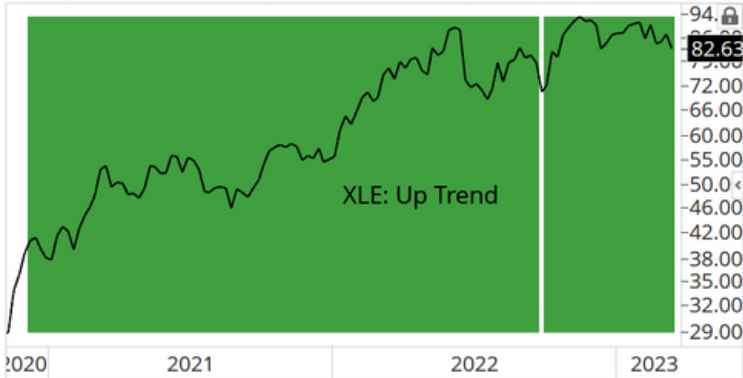
Invesco QQQ Trust - QQQ (US) - Weekly Line Chart - USD - Price Returns - No Layout



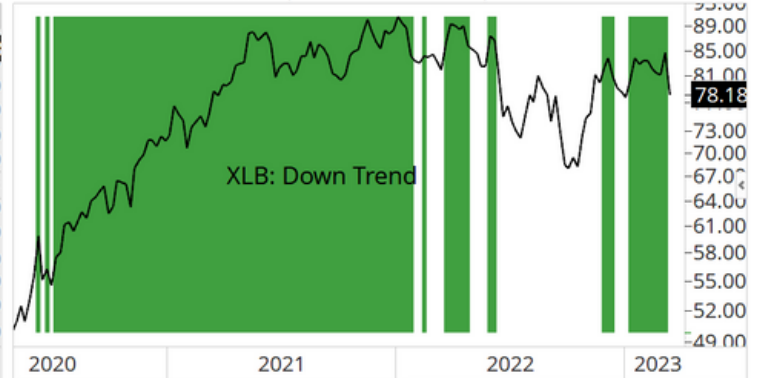
SPDR Real Estate Select Sector Fund ETF - XLRE (US) - Weekly Line Chart - USD - Price Returns - No Layout



SPDR Energy Select Sector Fund ETF - XLE (US) - Weekly Line Chart - USD - Price Returns - No Layout



SPDR Materials Select Sector Fund ETF - XLB (US) - Weekly Line Chart - USD - Price Returns - No Layout



11th Mar 2023

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