



Model Score: 58.0
Daily Change: -3.0
Stance: Risk-On
Last Investment: SPY, 539.62, 2024-06-12

ast Investment: SPY, 539.62, 2024-06-12 Last Updated: 2024-06-27 18:16 Model v1.04 (April 29, 2024)

June 27, 2024

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Ratio Spread Short to Medium Term Summary



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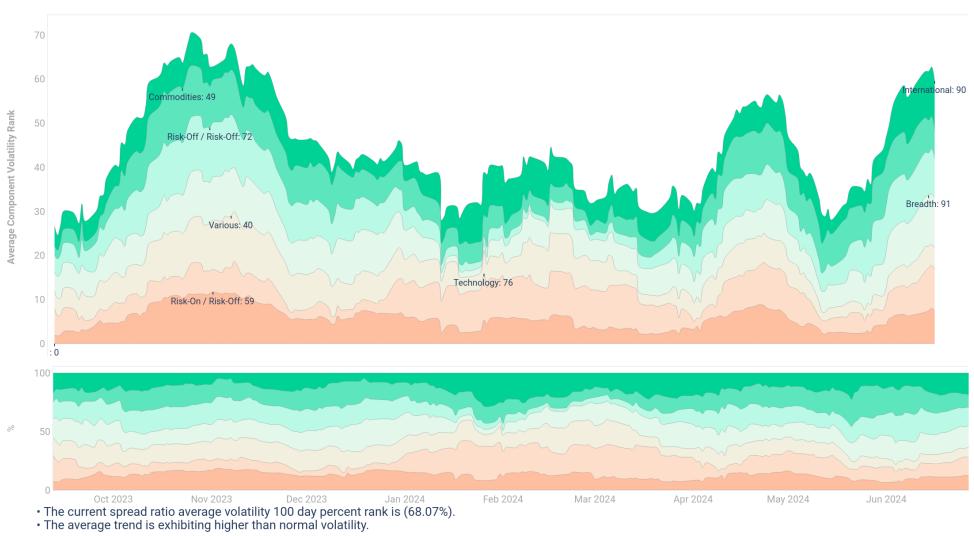
Ratio Spread Medium to Longer Term Summary



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Risk-On / Risk-Off Volatility Attributions





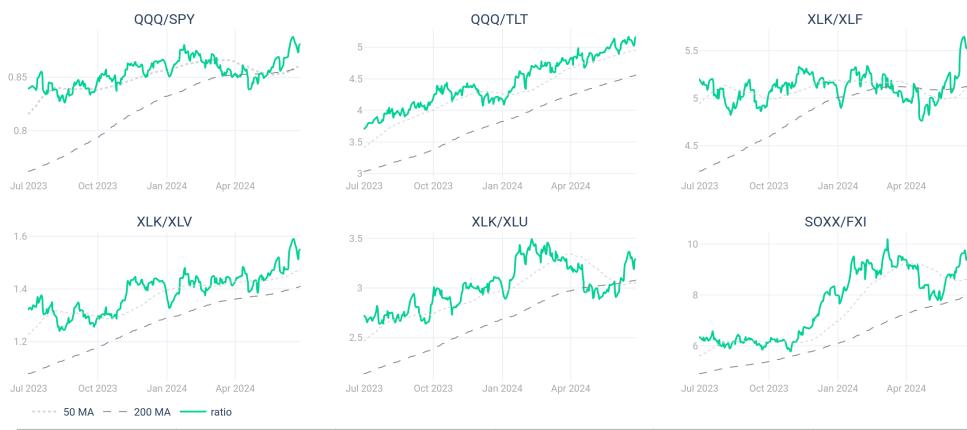
Risk-On to Risk-Off Ratios



Ratio	Return Rank	Volatility Rank	Z-Score 20	Z-Score 50	Z-Score 200
SPY/GLD	18	81	0.93	1.51	0.73
SPY/TLT	31	55	1.02	1.2	1.5
SPY/IEF	36	20	1.31	1.49	1.63
XIY/XLP	88	46	2.14	2.43	-0.01
HYG/LQD	38	95	0.29	-0.69	0.62
SPHB/SPLV	69	56	0.65	0.42	0.49



Technology Ratios



Ratio	Return Rank	Volatility Rank	Z-Score 20	Z-Score 50	Z-Score 200
QQQ/SPY	54	96	0.8	1.49	2.08
QQQ/TLT	39	29	1.18	1.54	1.81
XLK/XLF	53	98	0.72	1.5	2.44
XLK/XLV	59	98	0.69	1.43	2.04
XLK/XLU	45	99	0.79	1.67	1.01
SOXX/FXI	82	34	0.66	1.4	1.12



Equal Weight to Cap Weight



Ratio	Return Rank	Volatility Rank	Z-Score 20	Z-Score 50	Z-Score 200
RSP/SPY	48	98	-1.19	-1.78	-2.95
QQQE/QQQ	46	97	-1.1	-1.65	-2.84
RSPT/XLK	89	100	-0.59	-1.41	-1.59
RSPS/XLP	11	73	-1.48	-1.55	-2.87
RSPF/XLF	68	83	0.8	-0.65	-1.48
RSPU/XLU	62	95	1.06	-0.46	-1.58



Risk-off to Risk-off



Ratio	Return Rank	Volatility Rank	Z-Score 20	Z-Score 50	Z-Score 200
GLD/TLT	73	52	-0.46	-1.27	0.81
GLD/XLP	91	79	-0.08	-0.79	0.66
GLD/SPLV	88	79	-0.11	-0.81	0.97
TLT/BIL	63	74	0.33	1.13	0.26
TLT/SHY	62	74	0.34	1.15	0.42
TLT/IEF	62	74	0.35	1.16	0.46



International Ratios



Ratio	Return Rank	Volatility Rank	Z-Score 20	Z-Score 50	Z-Score 200
FEZ/EWJ	28	98	-1.69	-1.22	0.64
SPY/EWJ	30	98	0.63	1.42	2.71
EWG/EWU	99	100	0.13	-0.46	-0.33
EWG/EWJ	53	79	-0.96	-0.42	0.73
EEM/SPY	44	72	-1.16	-1.5	-1.37
VEU/SPY	54	96	-1.11	-1.98	-2.35



Various



Ratio	Return Rank	Volatility Rank	Z-Score 20	Z-Score 50	Z-Score 200
IWM/LQD	80	33	0.03	-0.6	0.59
IWM/SPY	87	60	-0.68	-1.55	-2.33
ACWI/GLD	14	73	0.77	1.28	0.17
SPY/VTI	15	70	0.79	1.55	2.51
VTI/SHY	60	2	1.14	1.38	1.53
SPY/VXX	54	1	1.51	1.33	1.9



Commodities



Ratio	Return Rank	Volatility Rank	Z-Score 20	Z-Score 50	Z-Score 200
SPY/DBC	33	30	0.57	1.27	1.28
WOOD/GLD	46	26	-1.05	-0.73	-1.59
CPER/GLD	4	14	-2.16	-1.73	-0.56
USO/TLT	69	81	1.33	0.29	0.39
DBE/DBA	87	57	1.98	2.04	-0.4
SLV/DBB	74	84	-0.96	0.41	1.29



This report is for informational purposes only and should not be considered as investment advice. RiskDials is not liable for any decisions or actions based on the information provided in this report.

Appendix

Ratio Spread Summary Scatterplots

There are two ratio spread summary scatter plot pages. The first page compares the short term trend to the medium term trend via a 20 day Z-Score (standard deviations from the 20 day moving average) compared to the 50 day Z-Score. The second compares the medium term trend (50 day Z-Score) to the long term trend (200 day Z-Score).

The Quadrants

The quadrants are color coded to identify the regime a ratio is priced in. The South West quadrant denotes the most bearish quadrant - on both of the Z-scores being compared it implies they are likely both below their respective moving averages. For example if we are looking at the short to medium term comparison and a ratio falls in the bottom left most quadrant, it would imply the ratio is both below the 20-day and 50-day moving averages.

Similarily, the North-East Quadrant would indicate the most bullish quadrant, on both timeframes being compared the ratios are trading over their respective moving averages.

The North-West and South-East quadrants are more neutral, where the two trends being compared are not necessarily aligned.

Bubble Size

The bubble size acts as a 100 day volatility rank of the 21 day realized volatility of a given ratio. The smallest bubble size will be pin sized indicating a 1st percentile volatility rank, ie. the lowest volatility now, compared to the last 100 days. The largest bubble size should indicate a 100% rank, ie. the highest volatility now compared to the last 100 days.



Bubble Color

The bubble color provides one additional layer of insight by ranking the 1 day return to the last 100 days of 1 day returns. Deep blues will indicate highly ranked returns and deep reds the most negative returns.

These scatter plots allow us to quickly synthesize how and where aggregate Risk-On and Risk-Off ratios are trading.



Risk-On / Risk-Off Volatility Attributions

The Volatility Attributions tells us on any given day whether or not trends are stable for a group of ratios by calculating an average component volatility rank. The chart then provides an attribution of each ratio group to the total average component volatility rank. Each color on the chart represents that contribution, through time. This enables us to see on any given day if a particular ratio is exhibiting high or low volatility relative to the other ratio groups.



Risk On to Risk Off Ratios

Displays risk assets and their relationship to risk off (defensive) assets. The ratios listed are S&P500 to Gold (SPY/GLD), S&P500 to long term Bonds (SPY/TLT), S&P500 to medium term Bonds (SPY/IEF), Consumer Discretionary to Consumer Staples (XLY/XLP), High Yield Bonds to Investment Grade Bonds (HYG/LQD), and High Beta Stocks to Low Volatility Stocks (SPHB/SPLV).

Technology Ratios

Displays Technology indices and sectors relative to other indices and sectors. When Technology is outperforming, this is a Risk-On indication. The ratios listed are Nasdaq 100 to S&P500 (QQQ/SPY), Nasdaq 100 to long term Bonds (QQQ/TLT), Nasdaq 100 to US Financials (QQQ/XLF), Nasdaq 100 to Healthcare (XLK/XLV), Semi Conductors to S&P500 (SOXX/SPY), and Semi Conductors to China large cap stocks (SOXX/FXI).

Equal Weight to Cap Weight

Displays how the average component of a universe as performing relative to indices that are calculated based on a market capitalization weighting. When equal weight is underperforming this * can * be a risk-off indication as it indicates weakness internally. The ratios shown include equal weight S&P500 to S&P500 (RSP/SPY), Equal Weight Nasdaq 100 to Nasdaq 100 (QQQE/QQQ), Equal Weight Technology to Technology (RSPT/XLK), Equal Weight Consumer Staples to Consumer Staples (RSPS/XLP), Equal Weight Financials to Financials (RSPF/XLF) and Equal Weight Utilities to Utilities (RSPU/XLU).



Risk Off to Risk Off

Shows how risk-off assets are performing relative to one another, it helps answer which risk-off assets are preferred by the market at any given time. The ratios shown include Gold to long term Bonds (GLD/TLT), Gold to Consumer Staples (GLD/XLP), Gold to Low Volatility Stocks (GLD/SPLV), long term Bonds to 1-3 month Treasury Bills (TLT/BIL), long term Bonds to 1-3 year Treasury Bonds (TLT/SHY), and long term Bonds to 7-10 year Treasury Bonds (TLT/IEF).

International

Compares various country and international ETFs. The ratios covered include Euro Stoxx 50 to Japan (FEZ/EWJ). S&P500 to Japan (SPY/EWJ), Germany to UK (EWG/EWU), Germany to Japan (EWG/EWJ), Emerging Markets to S&P500 (EEM/SPY), and All World ex. US to S&P500 VEU/SPY.

Various

The ratios shown on this page include Small Cap stocks to Investment Grade Bonds (IWM/LQD), Small Cap stocks to S&P500 (IWM/SPY), all World developped and emerging markets to Gold (ACWI/GLD), S&P500 to Total Stock Market (SPY/VTI), Total Stock Market to 1-3 year Bonds (VTI/SHY) and S&P500 to short-term volatility futures (SPY/VXX).

Commodities

This page shows various relationships centered around commodities, the numerator is a a proxy for the risk-asset while the denominator is meant to be a proxy for the risk-off asset. The ratios shown are S&P500 to commodity index (SPY/DBC), Timber and Forestry companies to Gold (WOOD/GLD), Copper to Gold (CPER/GLD), Oil to long term Bonds (USO/TLT), Copper to Wheat (CPER/WEAT), and Copper to Corn (CPER/CORN).



Summaries Table

The Summaries table is meant to highlight changes and anomalies in the various ratios tracked. The return rank is the daily return on the ratio ranked on a 100 day basis. The volatiloty shows the 21 day realized volatility of each ratio ranked on a 100 day basis. The Z-scores put the ratios in context of the timeframes tracked - 20 days, 50 days, and 200 days. A "Z-Score 20" at or above two would simply indicate that the ratio is priced above the upper 20-day Bollinger Band. Likewise, a ratio at or below -2 would indicate it is priced below the lower Bollinger Band (i.e. 2 standard deviations above or below the 20 day moving average of the ratio). This can help us quickly identify and track very strong or weak trends in the ratios report. The summary tables are color coded from red to white to blue. Deeper red indicates larger negative changes and Z-scores, deeper blue indicates larger positive changes and Z-scores. White shading indicates small changes or neutral Z-scores.