

COVID-19, the Economy, and the Capital Markets

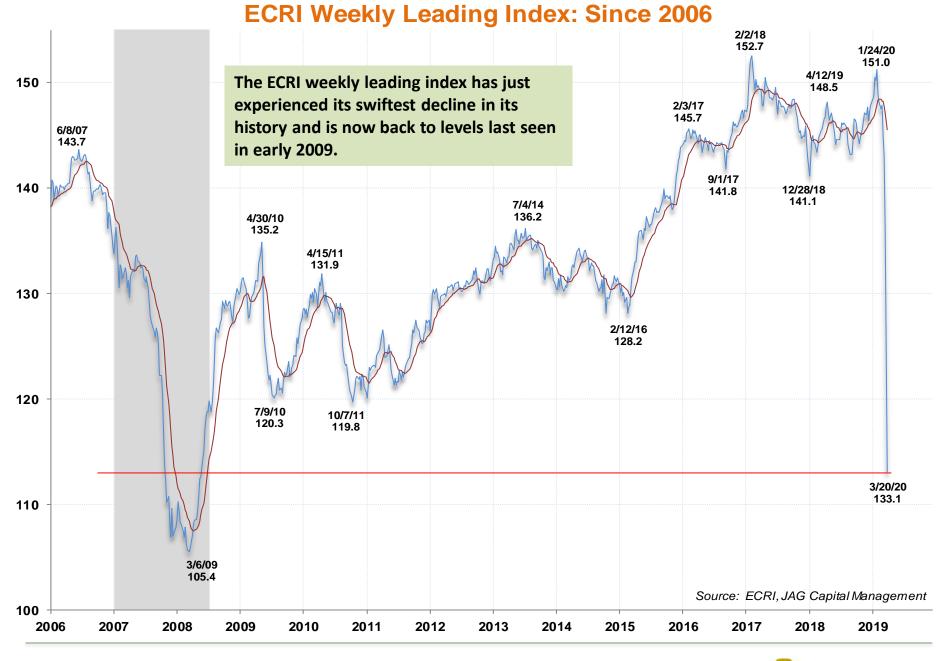
Observations & Insights

April 2020

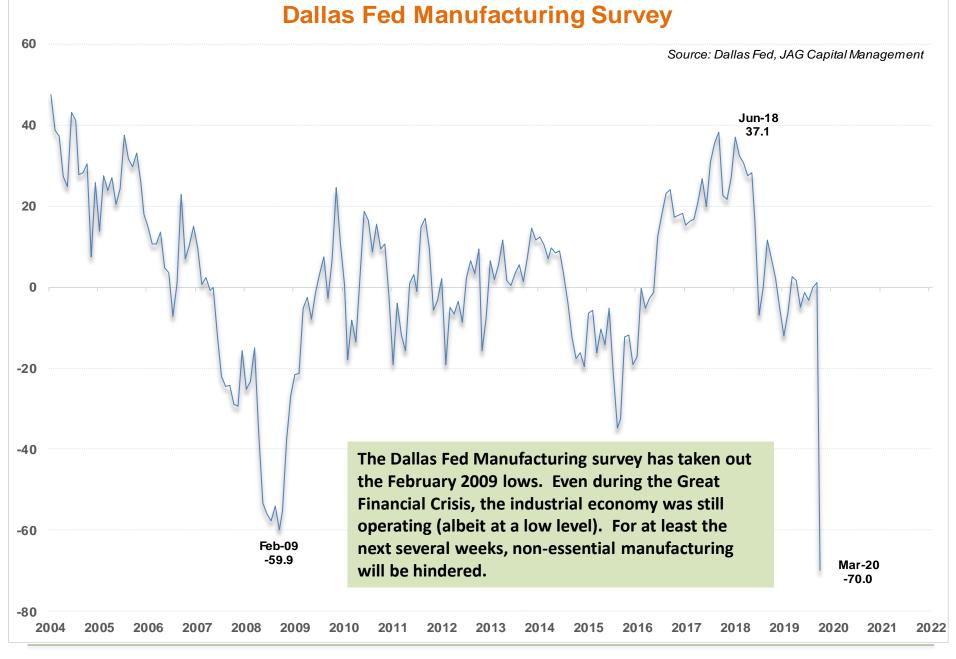
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Macro: A biological menace has caused a global economic lockdown





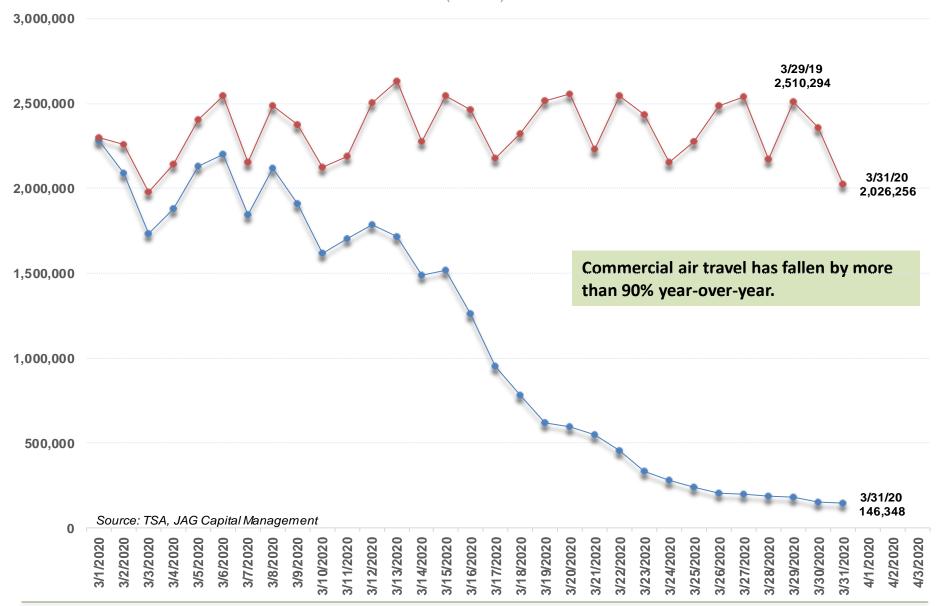






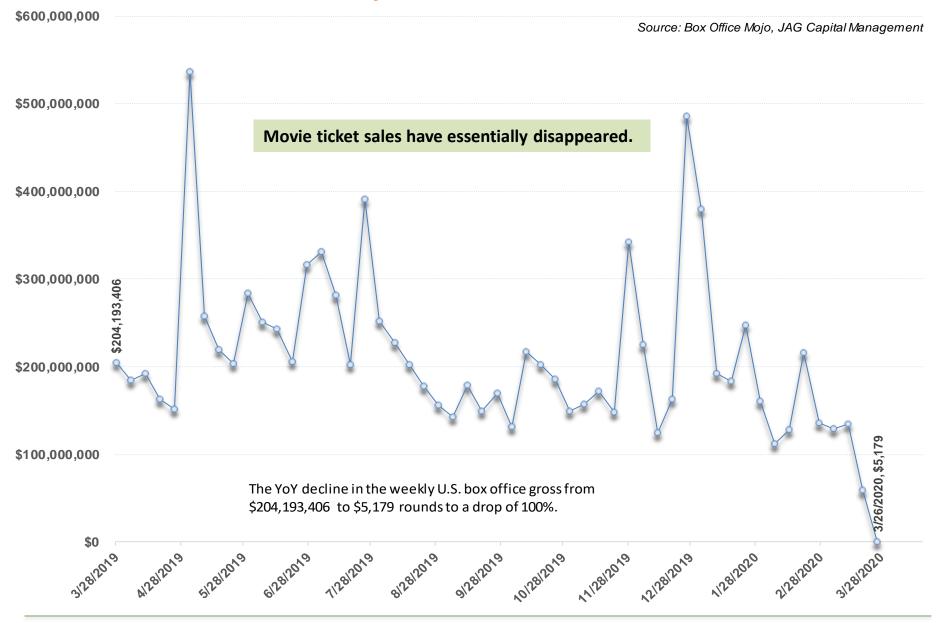
TSA Airline Passenger Throughput Mar-2019 (red line) vs. Mar-2020

(blue line)





Weekly U.S. Box Office Gross





Weekly Claims for Unemployment Insurance 7.000.000 7,000,000 Source: Dept. of Labor, JAG Capital Management, h/t Robin Wigglesworth for annotations CoVid-19 3/27/20 145,230,691 6,648,000 4.58% 6,000,000 6,000,000 Label key: Top Line(s) - Event 5,000,000 5.000.000 Line 2 - Date Line 3 - Initial claims Line 4 - Covered employment Line 5 - Initial claims / Covered employment 4,000,000 4,000,000 Initial jobless claims jumped for the second week in a row to unprecedented levels. Employers have been forced to lay 3,000,000 3,000,000 off or furlough employees to conserve cash flow during the current "lock down" in the economy. 2,000,000 2,000,000 Volcker rate Global hike Shallow 90s Tech bust & financial Oil shock recession recession 9/11 crisis recession 10/1/82 3/22/91 9/28/01 3/27/09 1/17/75 87,597,222 133.886.830 105,748,660 128.116.562 65,584,200 695.000 509.000 517.000 665,000 1,000,000 1,000,000 575,000 .79% .48% .50% .40% .87%

1992

1987

1997

2002

2007

2012



2022

2017

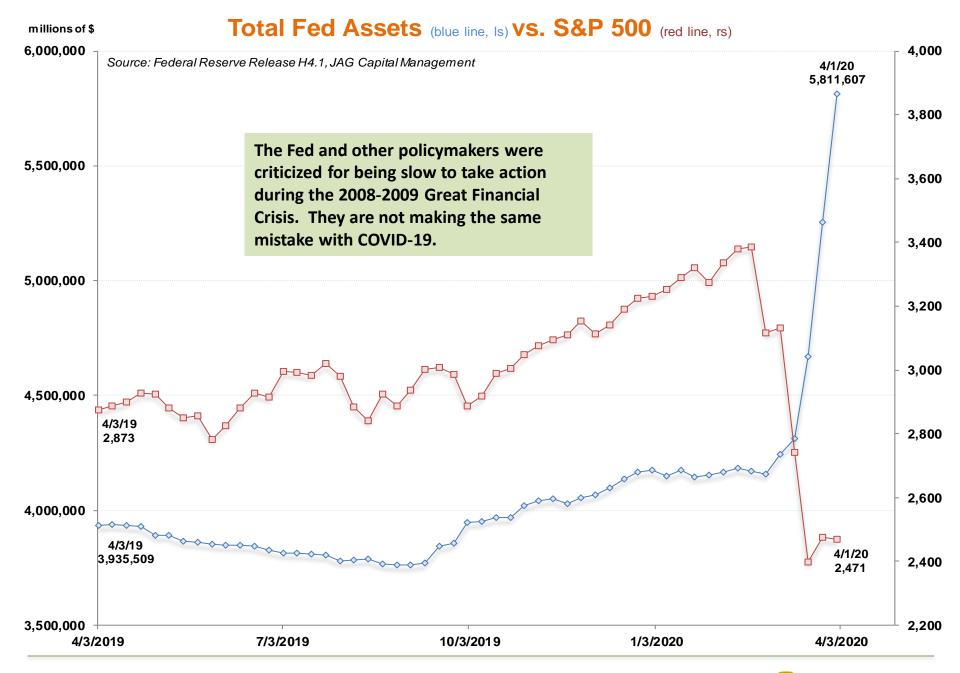
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1967

1977

1972

1982

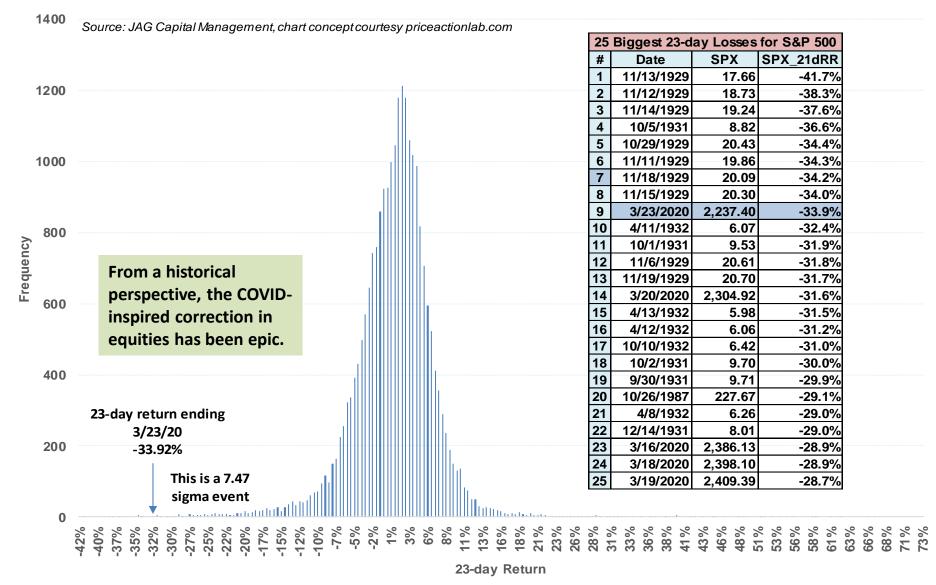




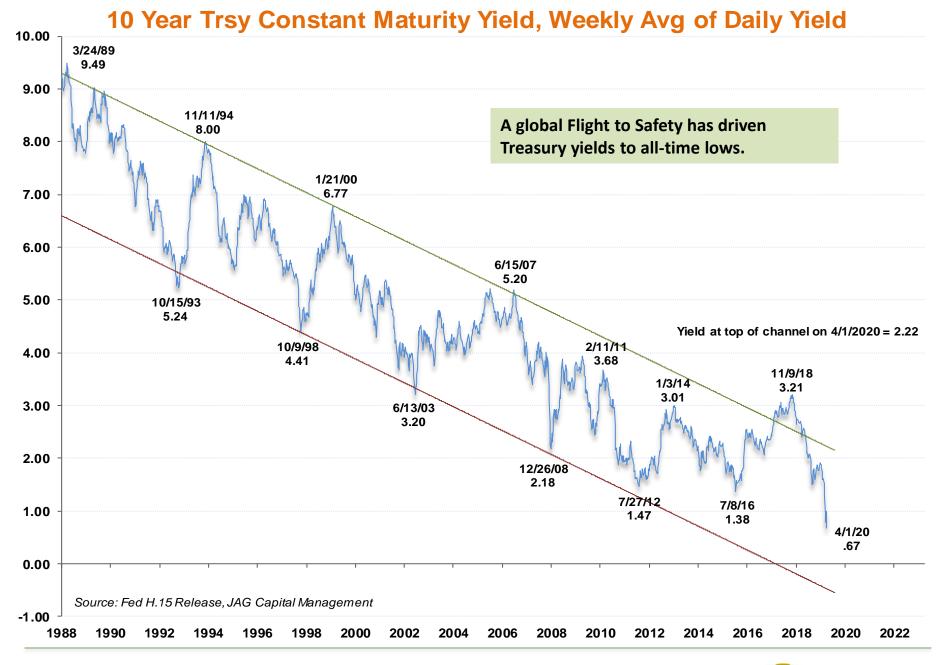
Capital Markets: Historic amounts of volatility



Frequency Distribution of 23-day Rolling Returns for the S&P 500 1/2/1928 - 4/1/2020

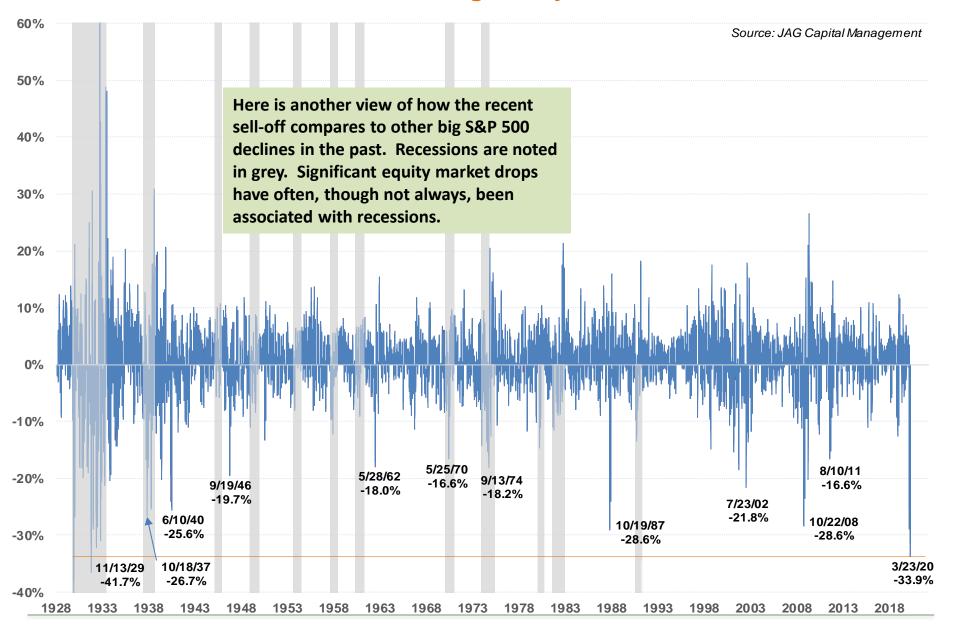




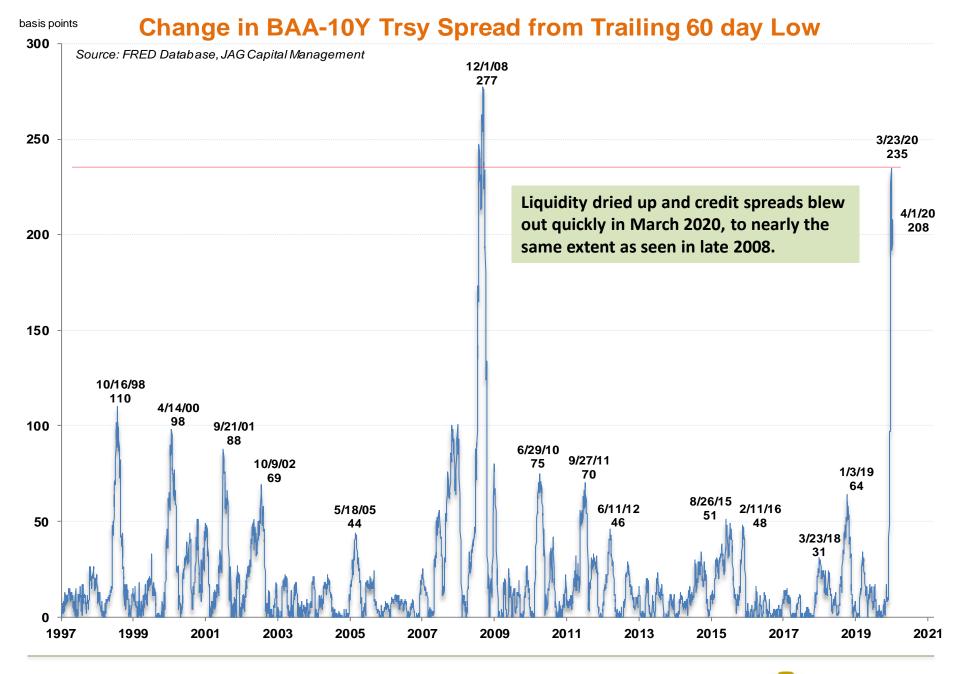




S&P 500 Rolling 23-day Returns

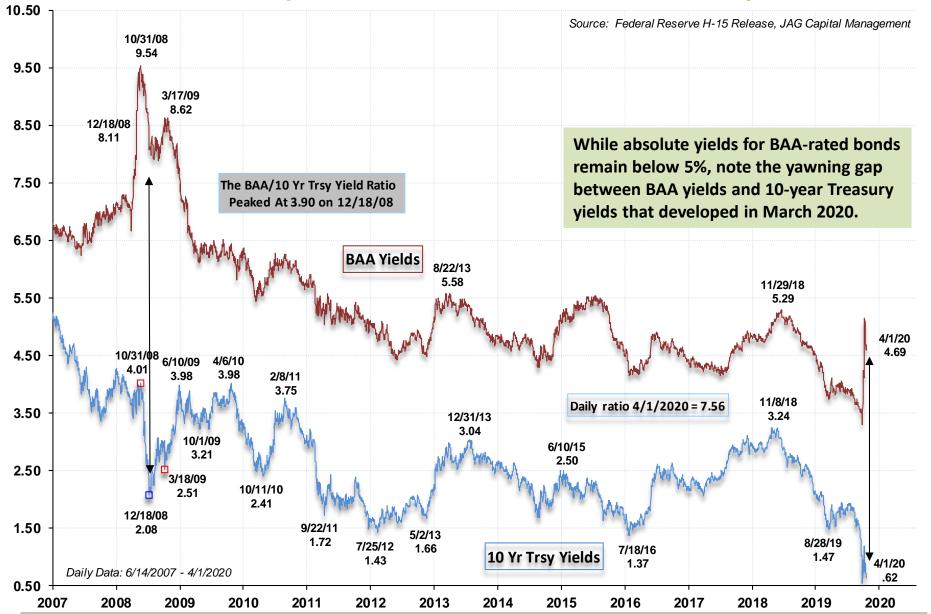








BAA Rated Corporate Bond Yields vs. 10 Year Treasury Yields





BAA Rated Corporate Bond Yields / 10 Yr Treasury Yields

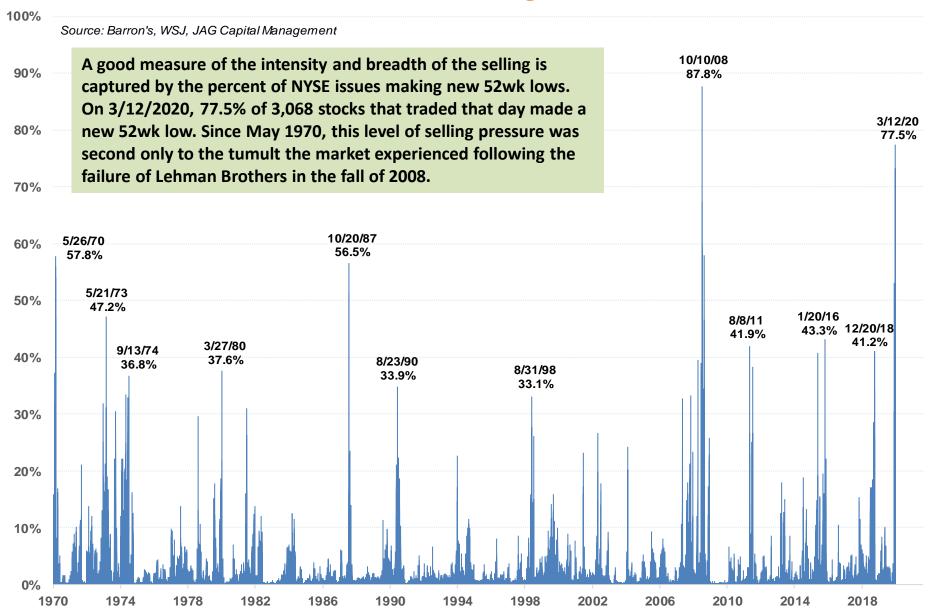




Capital Markets: A (tentative and humble) look ahead



Pct of NYSE Issues Making New 52wk Low



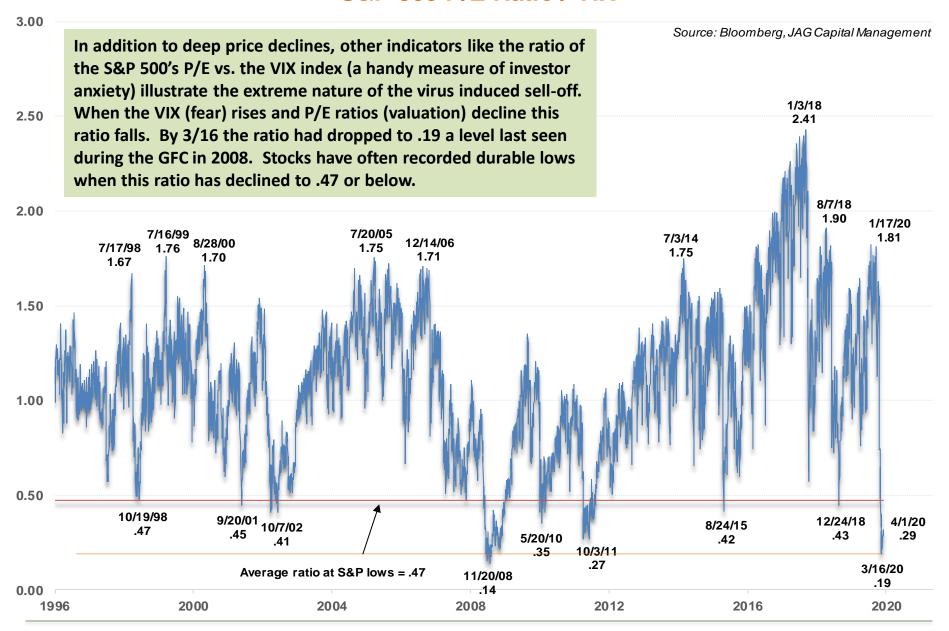


Big spikes in the number of new 52wk lows have often represented peaks in selling pressure that have been followed by recoveries in stock prices.

S&P 500 Performance Following Spike in NYSE New Lows							
New Low Spike	S&P 500	1-month	3-months	6-months	12-months		
5/26/1970	69.29	7.9%	11.1%	20.8%	44.5%		
5/21/1973	102.73	1.2%	0.3%	1.1%	-14.5%		
9/13/1974	65.20	9.1%	0.6%	30.0%	27.8%		
3/27/1980	98.22	7.1%	16.6%	31.1%	37.1%		
10/20/1987	236.83	2.6%	6.4%	8.1%	18.0%		
8/23/1990	307.06	1.4%	3.3%	19.1%	27.4%		
8/31/1998	957.28	9.6%	23.6%	28.2%	37.9%		
10/10/2008	899.22	3.5%	0.8%	-6.4%	19.7%		
8/8/2011	1,119.46	4.1%	8.8%	20.3%	25.2%		
1/20/2016	1,859.33	3.1%	11.9%	16.9%	21.7%		
12/20/2018	2,467.42	6.7%	14.5%	19.4%	30.6%		
3/12/2020	2,480.64						
	Avg	5.1%	8.9%	17.1%	25.0%		
	Max	9.6%	23.6%	31.1%	44.5%		
	Min	1.2%	0.3%	-6.4%	-14.5%		
	% > 0	100.0%	100.0%	90.9%	90.9%		
Source: Barron's, WSJ, JAG Capital Management							



S&P 500 P/E Ratio / VIX

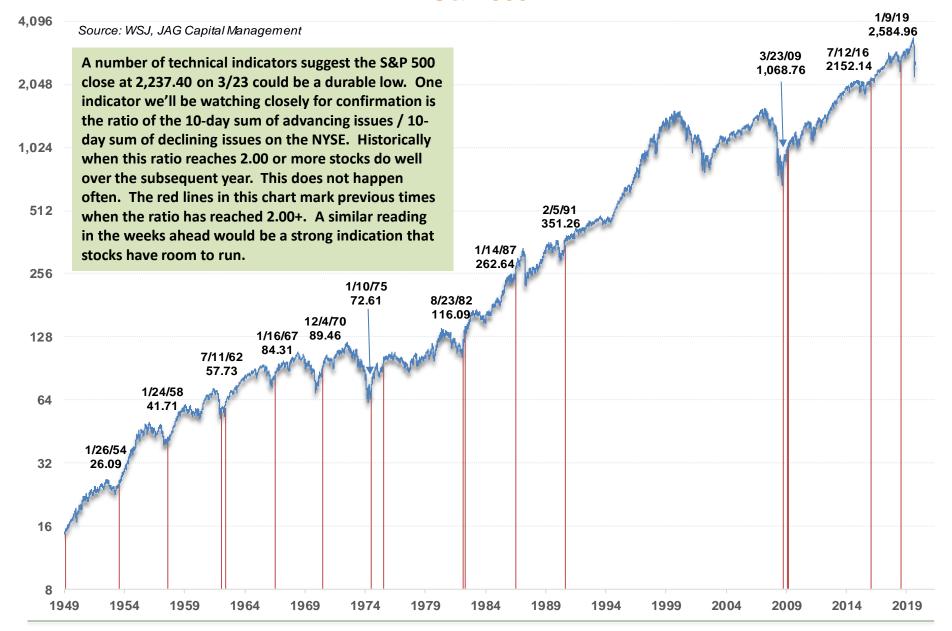


Here is a table showing how the S&P 500 has performed after previous depressed readings in the P/E/VIX ratio.

S&P 500 P/E/VIX Ratio								
S&P 500 Performance # of days after S&P/VIX Ratio < .48								
Date	5	20	63	126	252			
10/19/1998	0.9%	6.9%	18.3%	25.8%	18.7%			
9/20/2001	3.5%	8.5%	16.8%	16.7%	-14.1%			
10/7/2002	7.2%	15.7%	17.5%	11.8%	32.3%			
11/20/2008	19.1%	18.0%	2.8%	21.0%	45.0%			
5/20/2010	2.9%	4.3%	0.4%	10.0%	25.4%			
10/3/2011	8.7%	14.0%	16.2%	28.6%	31.5%			
8/24/2015	4.2%	2.6%	10.4%	1.9%	15.5%			
12/24/2018	6.8%	12.4%	19.3%	23.9%	37.1%			
Average	6.6%	10.0%	11.7%	16.5%	22.1%			
Median	4.2%	8.5%	16.2%	16.7%	25.4%			
Max	19.1%	18.0%	18.3%	28.6%	45.0%			
Min	0.9%	2.6%	0.4%	1.9%	-14.1%			
% > 0	100.0%	100.0%	100.0%	100.0%	85.7%			
Source: Bloomberg, JAG Capital Management								



S&P 500



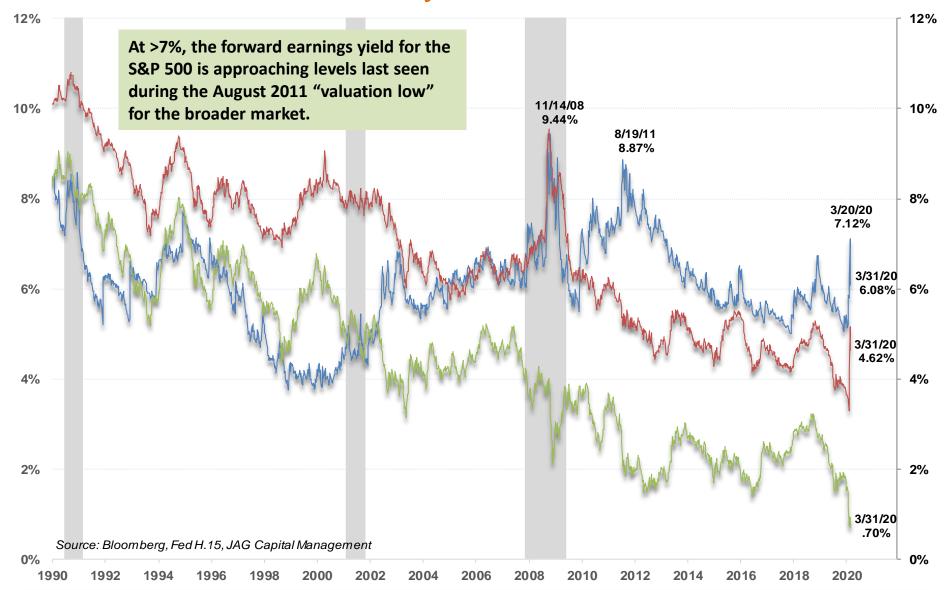


Here is a table showing how the S&P 500 has performed after previous breadth thrust signals.

S&P 500 Performance Following Breadth Thrust Signal*							
Date	SPX	10DADRatio	MaxGain+1yr	MaxLoss+1yr	Ret+1yr		
7/13/1949	14.78	2.06	31.3%	-0.1%	15.4%		
1/26/1954	26.09	2.01	40.9%	-1.1%	36.1%		
1/24/1958	41.71	2.00	34.4%	-2.6%	33.7%		
7/11/1962	57.73	2.05	22.6%	-7.3%	20.8%		
11/9/1962	58.78	2.05	26.7%	1.2%	25.1%		
1/16/1967	84.31	2.05	15.8%	1.1%	13.7%		
12/4/1970	89.46	2.12	17.1%	0.0%	8.5%		
1/10/1975	72.61	2.25	31.7%	-2.6%	30.8%		
1/6/1976	93.53	2.05	15.3%	0.4%	13.0%		
8/23/1982	116.09	2.02	47.3%	-0.6%	41.3%		
10/13/1982	136.68	2.03	26.3%	-2.7%	24.6%		
1/14/1987	262.64	2.19	28.2%	-14.8%	-6.4%		
2/5/1991	351.26	2.10	19.8%	1.5%	17.8%		
3/23/2009	822.92	2.21	42.7%	-4.3%	42.7%		
7/23/2009	976.29	2.17	24.7%	-0.1%	12.9%		
9/16/2009	1,068.76	2.32	13.9%	-4.3%	5.2%		
7/12/2016	2,152.14	2.18	14.0%	-3.1%	13.5%		
1/9/2019	2,584.96	2.37	26.7%	-0.1%	26.7%		
		Avg	26.6%	-2.2%	20.9%		
		Max	47.3%	1.5%	42.7%		
		Min	13.9%	-14.8%	-6.4%		
		% > 0	100.0%	27.8%	94.4%		
*breadth thrust = 10-day sum of NYSE advancing issues/10-day sum of							
NYSE declining issues > 2.0							
Source: WSJ, JAG Capital Management							

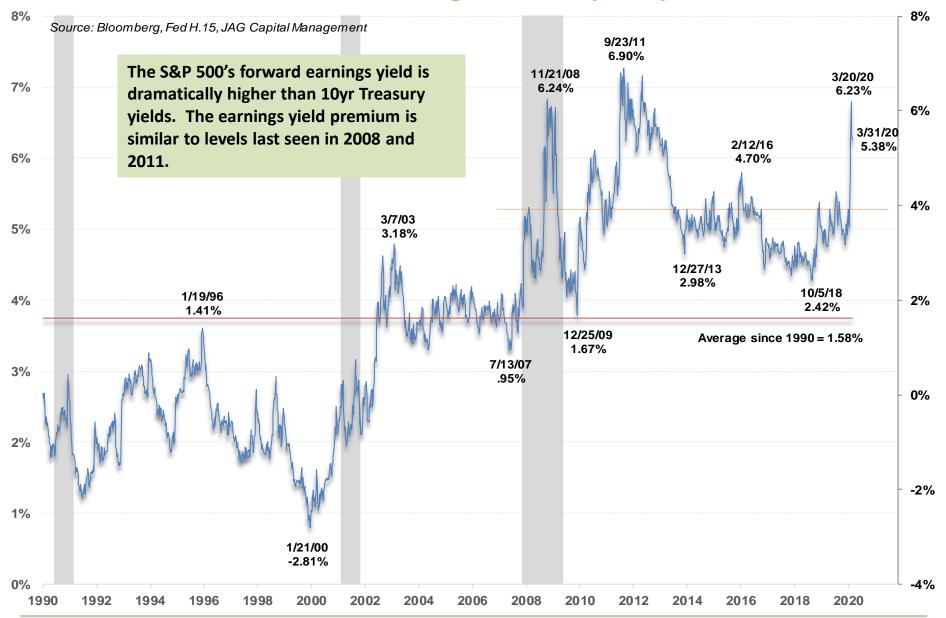


Fwd Earnings Yield for S&P 500 (blue line), Baa Yield (red line), 10yr Trsy Yield (grn line)





S&P 500 Fwd Earnings Yield - 10yr Trsy Yield



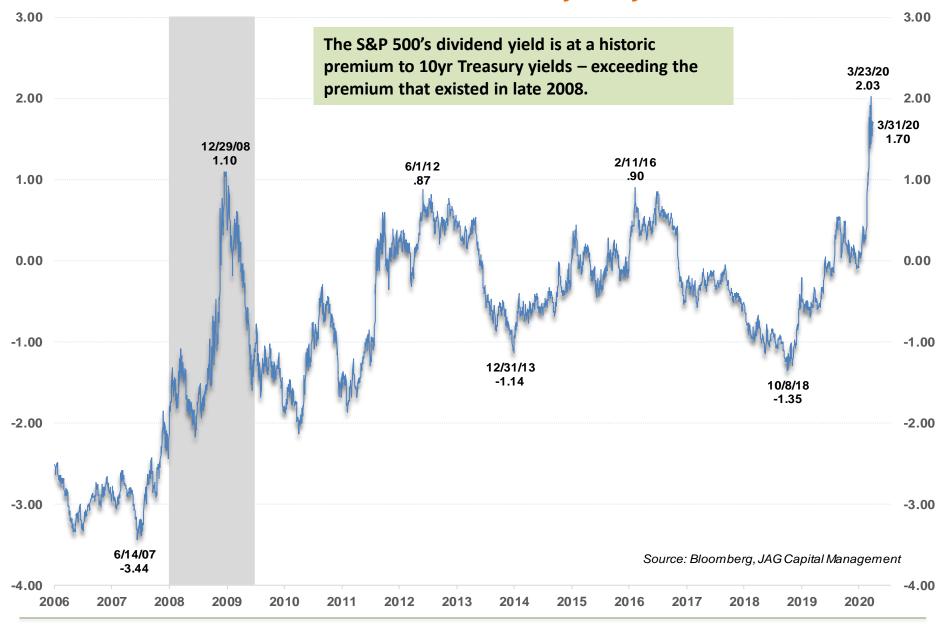


S&P 500 Fwd Earnings Yield - Baa Yield



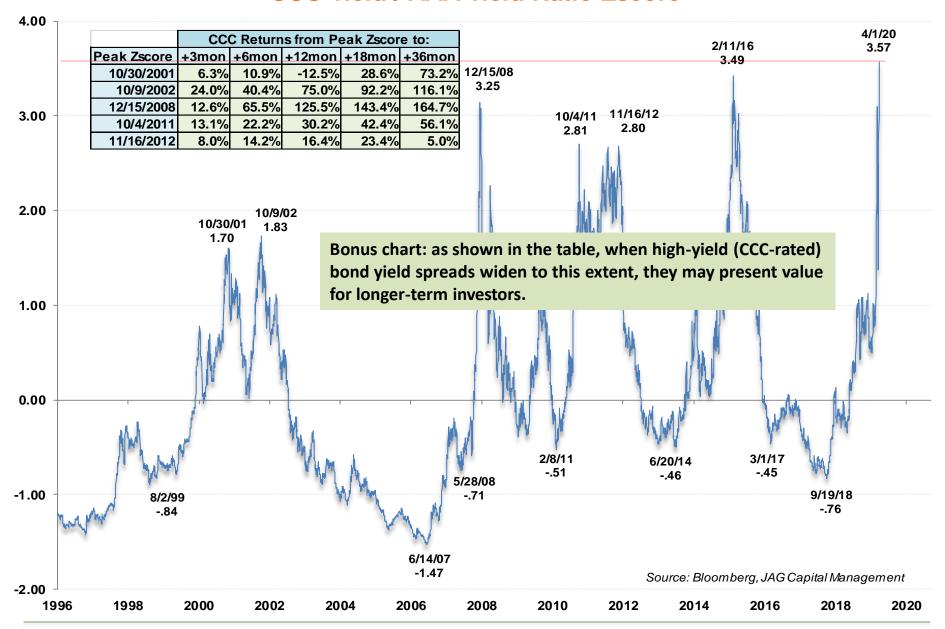


S&P 500 Dividend Yield - 10yr Trsy Yield





CCC Yield / AAA Yield Ratio Zscore





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