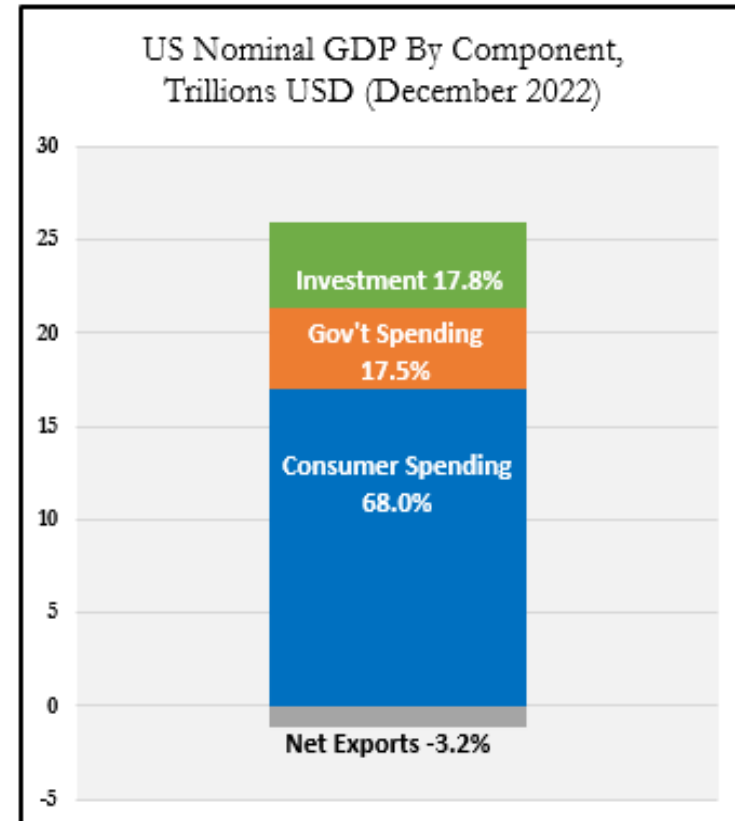
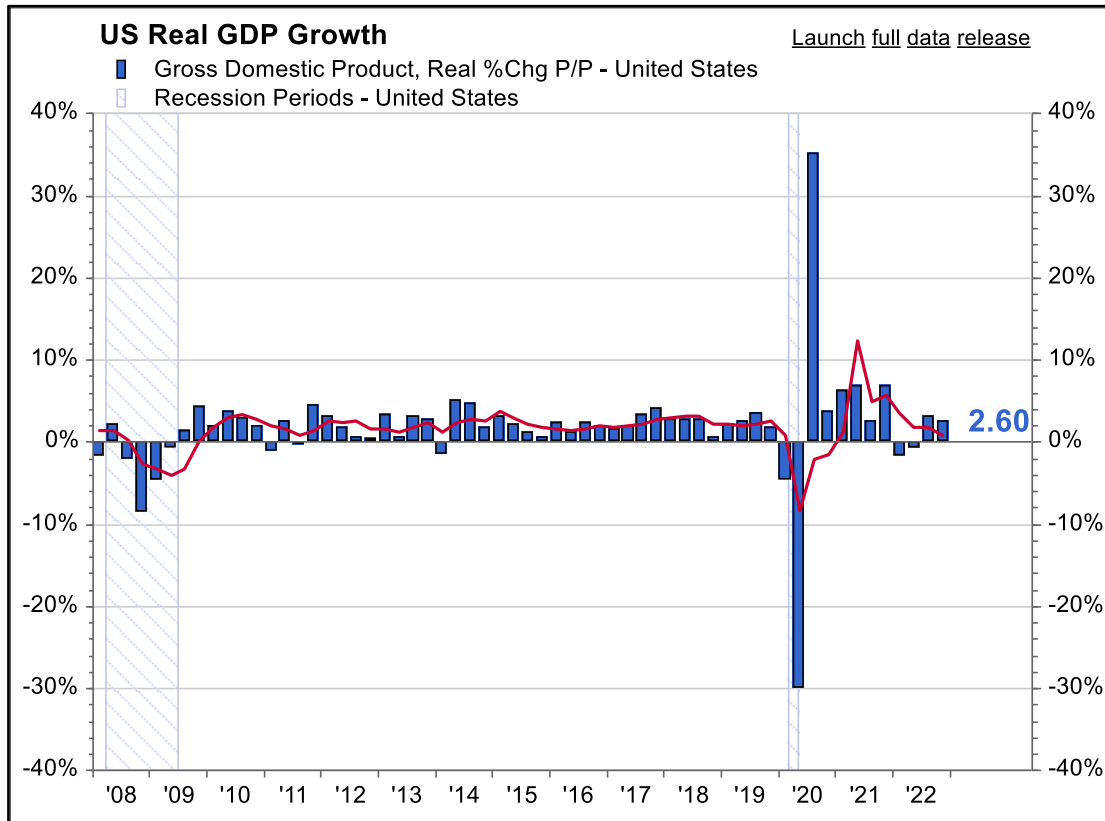


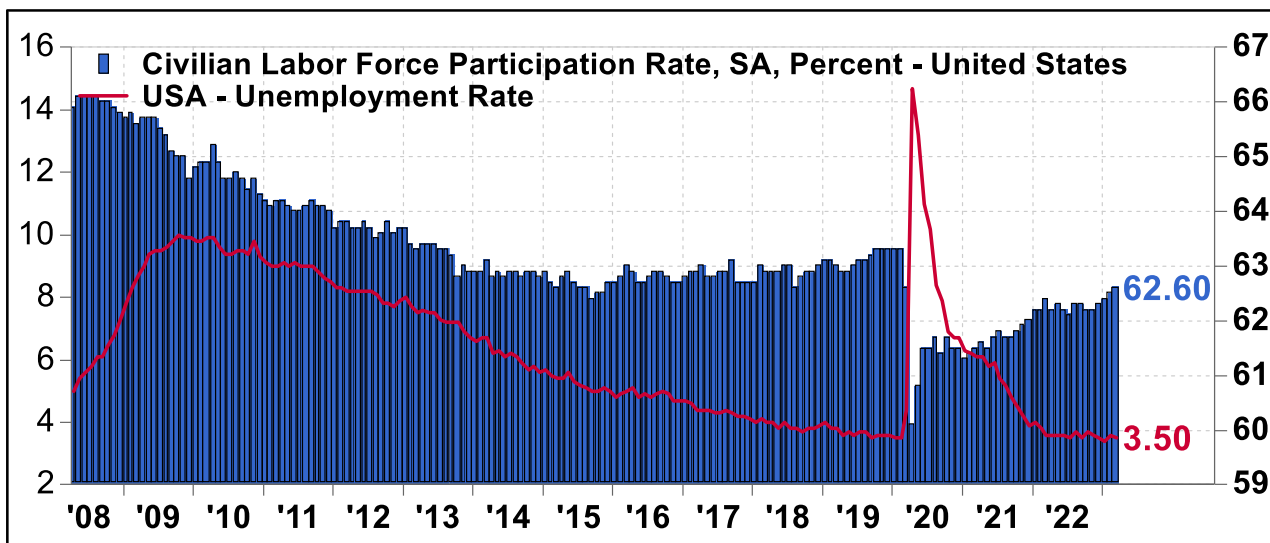
# JULEX MACRO CHART BOOK

**March 2023**

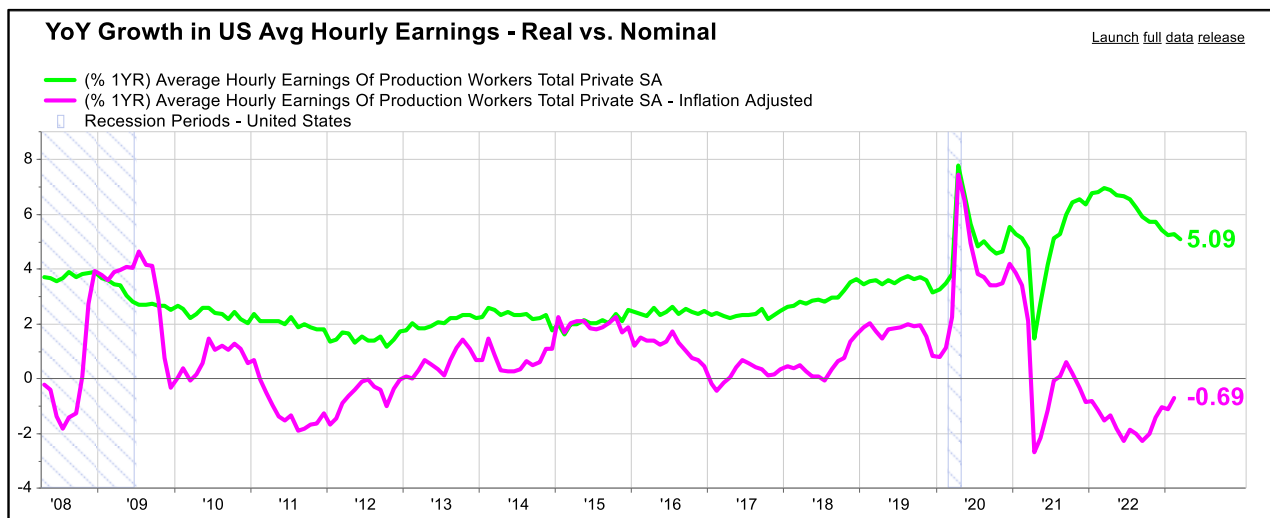
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All Data From FactSet Unless Otherwise Noted.  
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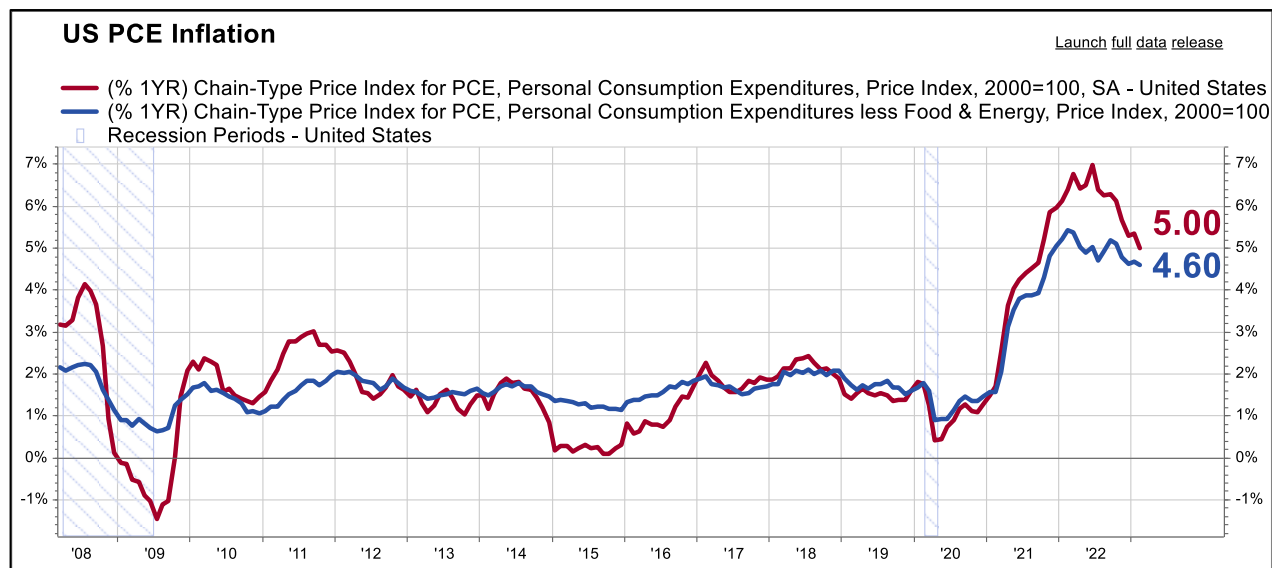
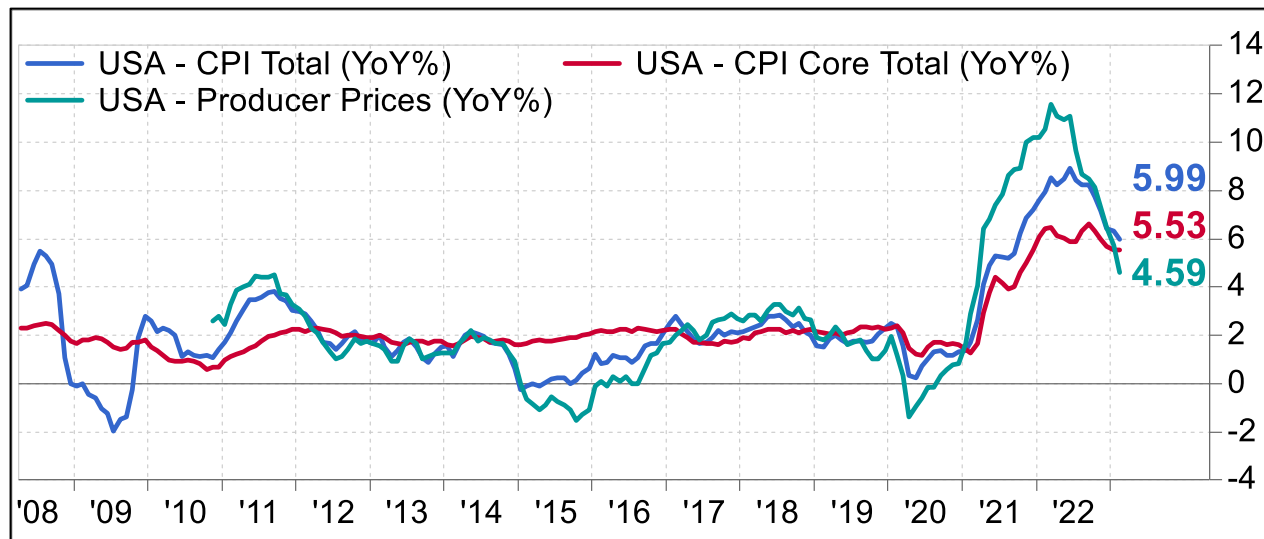
- The US economy grew by an adjusted 2.7% in Q4 2022, alleviating short-term calls for a recession.



- The March jobs report saw the addition of some 236,000 jobs, in line with expectations. The unemployment rate shrunk to 3.5% as the labor force increased to 62.6%.
- Real wage growth remains significantly negative.

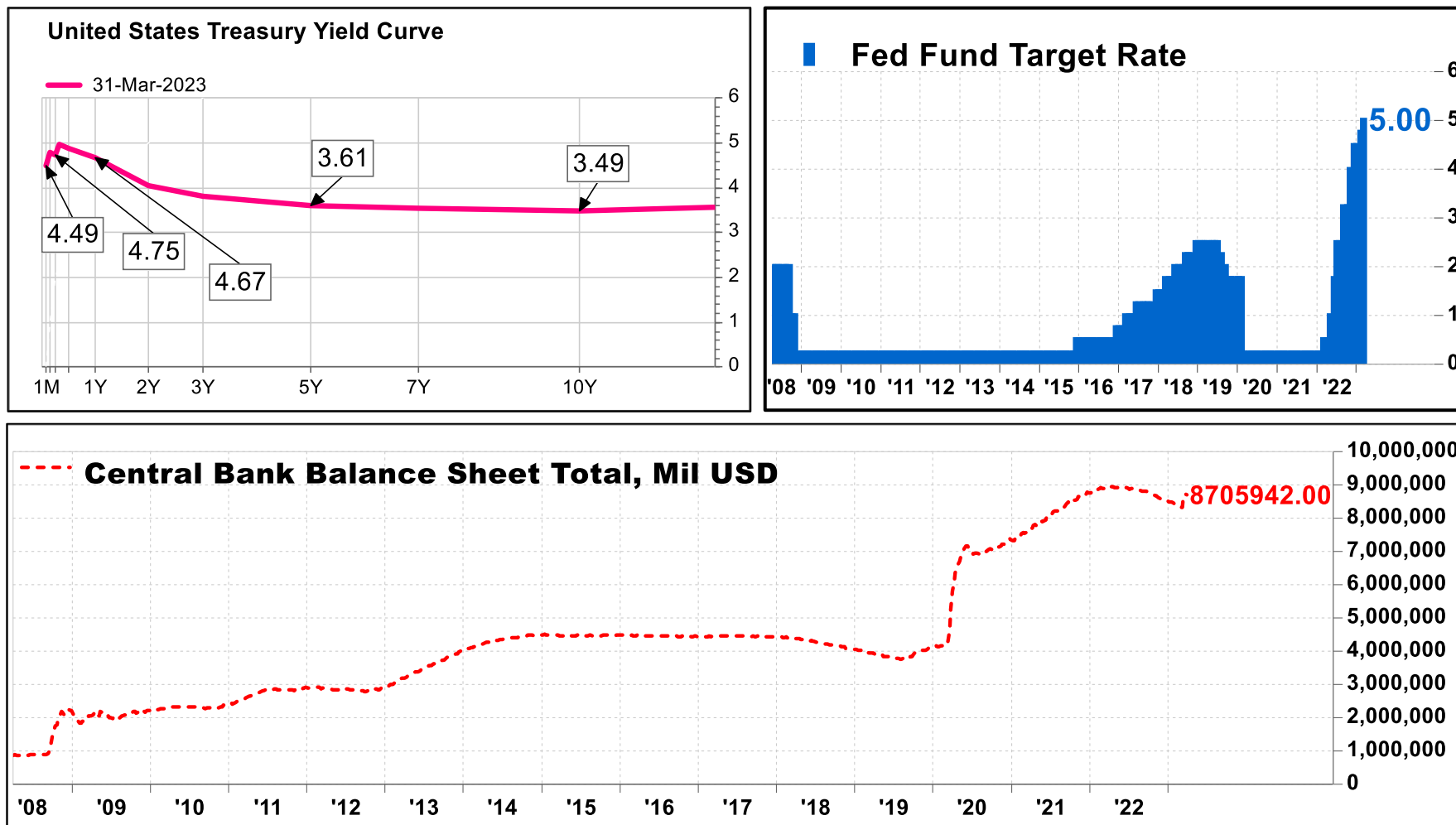


# US Economy - Inflation



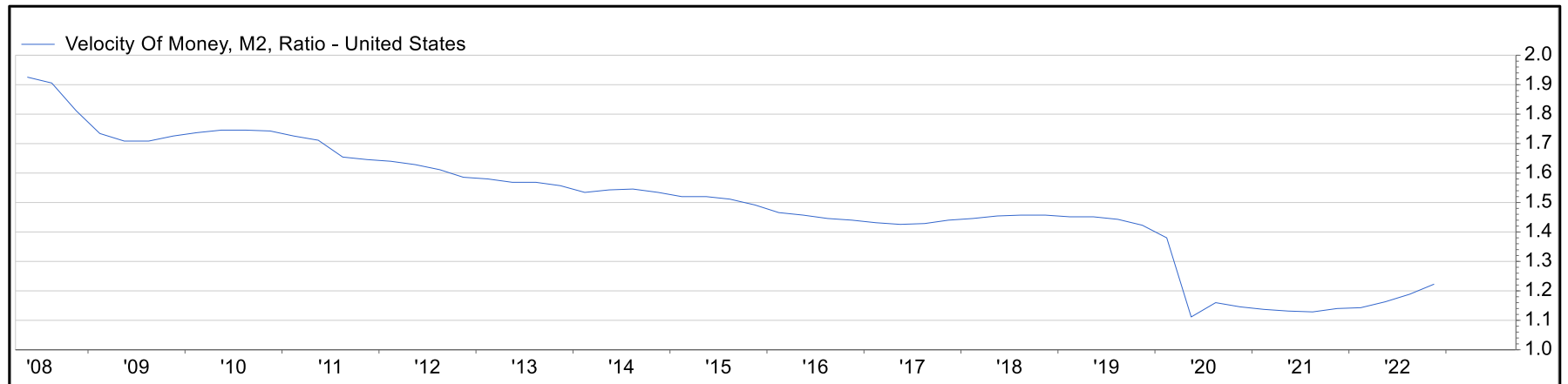
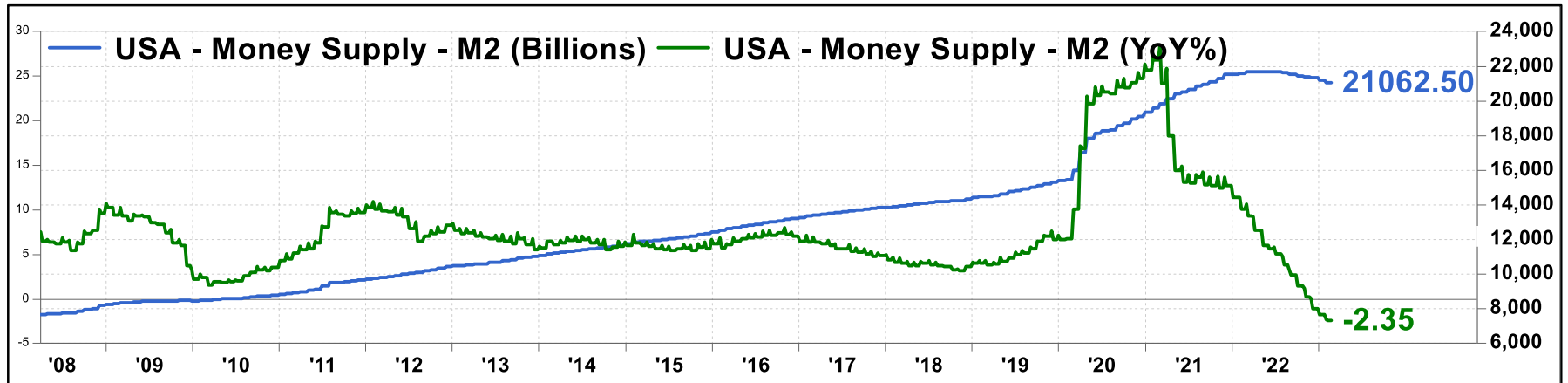
- Inflation continues to be a dominant concern, though growth has significantly slowed.
- Powell and the Fed have repeatedly telegraphed their willingness to raise rates as much as necessary in order to bring inflation back to 2% growth, though there are growing expectations that some Fed governors believe the long-term inflation rate better belongs at 3% annually.

# US Economy - Monetary Policies



- The yield curve is heavily inverted.
- Despite clear communication from the Fed otherwise, the market is heavily predicting rate cuts. Fed Fund Futures are pricing in 50bps worth of cuts by the end of 2023.

# US Economy - Monetary Policies (Cont.)



- The money supply has gradually begun to contract as the Fed continues it's tightening cycle.



# US Economy - Fiscal Policies

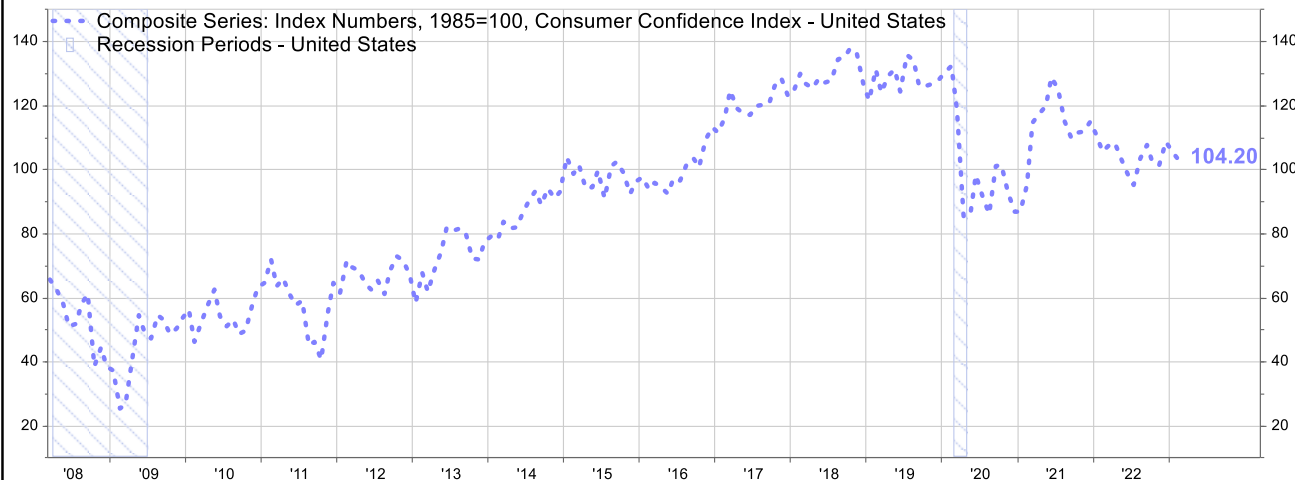
	2022 (Projected)	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
<b>Government Revenues (Billions):</b>													
Individual Income Taxes	2,622.5	2,044.4	1,608.7	1,717.9	1,683.5	1,587.1	1,546.1	1,540.8	1,394.6	1,316.4	1,132.2	1,091.5	898.5
Payroll Taxes	1,464.6	1,314.1	1,310.0	1,243.1	1,170.7	1,161.9	1,115.1	1,065.3	1,023.5	947.8	845.3	818.8	864.8
Corporate Income Taxes	394.8	371.8	211.8	230.2	204.7	297.0	299.6	343.8	320.7	273.5	242.3	181.1	191.4
Excise Taxes	87.6	75.3	86.8	98.9	95.0	83.8	95.0	98.3	93.4	84.0	79.1	72.4	66.9
Estate and Gift Taxes	29.3	27.1	17.6	16.7	23.0	22.8	21.4	19.2	19.3	18.9	14.0	7.4	18.9
Customs Duties	94.8	80.0	68.6	70.8	41.3	34.6	34.8	35.0	33.9	31.8	30.3	29.5	25.3
Miscellaneous Receipts	142.5	134.4	117.7	85.8	111.7	129.0	156.0	147.5	136.1	102.6	106.8	102.8	96.8
<b>Total Revenue</b>	<b>4,836.0</b>	<b>4,047.1</b>	<b>3,421.2</b>	<b>3,463.4</b>	<b>3,329.9</b>	<b>3,316.2</b>	<b>3,268.0</b>	<b>3,249.9</b>	<b>3,021.5</b>	<b>2,775.1</b>	<b>2,450.0</b>	<b>2,303.5</b>	<b>2,162.7</b>
<b>Mandatory Spending (Billions):</b>													
Social Security	1,211.5	1,128.8	1,089.9	1,038.5	982.0	939.2	910.3	881.9	844.9	807.8	767.7	724.9	700.8
Medicare	941.4	867.7	912.1	775.4	704.5	702.3	692.5	634.1	599.8	585.2	551.2	559.6	520.5
Medicaid	589.3	520.6	458.5	409.4	389.2	374.7	368.3	349.8	301.5	265.4	250.5	275.0	272.8
Income Security	560.8	1,376.5	1,051.0	302.6	285.3	293.8	303.8	301.0	310.9	339.5	353.6	404.0	437.3
Federal Retirement	226.9	179.2	171.3	170.0	163.1	162.6	163.8	161.5	157.5	152.5	143.5	144.2	138.4
Veterans' Programs	145.7	125.1	121.8	115.0	101.4	105.0	106.5	92.4	86.7	80.4	68.0	71.0	58.3
Other Programs	478.5	969.2	1,053.2	198.7	156.7	194.7	119.8	134.2	74.5	105.5	124.2	56.1	-17.7
Offsetting Receipts	-465.8	-333.3	-277.5	-275.6	-259.6	-253.4	-237.6	-258.4	-277.3	-304.7	-228.3	-208.9	-196.5
<b>Total Mandatory Spending</b>	<b>3,688.1</b>	<b>4,833.7</b>	<b>4,580.3</b>	<b>2,734.1</b>	<b>2,522.4</b>	<b>2,518.8</b>	<b>2,427.3</b>	<b>2,296.5</b>	<b>2,098.5</b>	<b>2,031.6</b>	<b>2,030.5</b>	<b>2,026.0</b>	<b>1,913.7</b>
<b>Discretionary Spending (Billions):</b>													
Defense	796.1	741.6	713.8	676.4	622.7	590.2	584.8	583.4	596.4	625.8	670.5	699.4	688.9
Nondefense	947.1	894.8	914.0	661.3	638.9	610.1	600.4	588.8	582.4	576.6	605.2	647.7	658.3
<b>Total Discretionary Spending</b>	<b>1,743.2</b>	<b>1,636.4</b>	<b>1,627.8</b>	<b>1,337.7</b>	<b>1,261.6</b>	<b>1,200.3</b>	<b>1,185.3</b>	<b>1,172.1</b>	<b>1,178.9</b>	<b>1,202.4</b>	<b>1,275.7</b>	<b>1,347.1</b>	<b>1,347.2</b>
<b>Interest on Debt (Billions):</b>	<b>399.1</b>	<b>352.3</b>	<b>345.5</b>	<b>375.2</b>	<b>325.0</b>	<b>262.6</b>	<b>240.0</b>	<b>223.2</b>	<b>229.0</b>	<b>220.9</b>	<b>220.4</b>	<b>230.0</b>	<b>196.2</b>
<b>Total Spending:</b>	<b>5,830.4</b>	<b>6,822.4</b>	<b>6,553.6</b>	<b>4,447.0</b>	<b>4,109.0</b>	<b>3,981.6</b>	<b>3,852.6</b>	<b>3,691.9</b>	<b>3,506.3</b>	<b>3,454.9</b>	<b>3,526.6</b>	<b>3,603.1</b>	<b>3,457.1</b>
<b>Deficit:</b>	<b>994.3</b>	<b>2,775.3</b>	<b>3,132.4</b>	<b>983.6</b>	<b>779.1</b>	<b>665.4</b>	<b>584.7</b>	<b>442.0</b>	<b>484.8</b>	<b>679.8</b>	<b>1,076.6</b>	<b>1,299.6</b>	<b>1,294.4</b>

- President Biden's plan to canceled up to \$10,000 per person in student loan debts was halted in courts, though the Biden administration plans to fight the ruling in the Supreme Court.

# US Economy - Consumption

## US Consumer Confidence

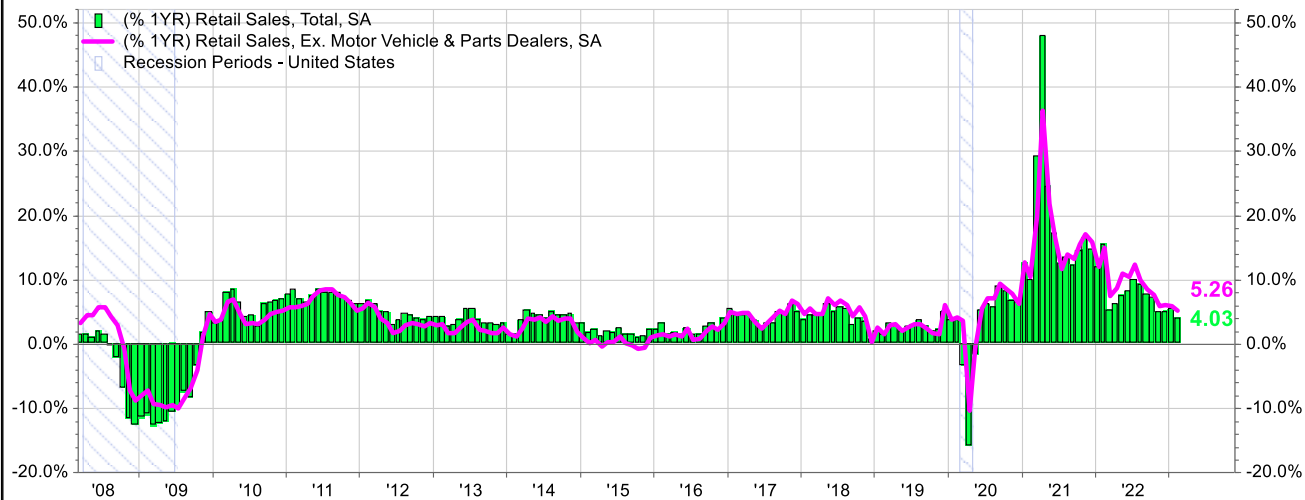
[Launch full data release](#)



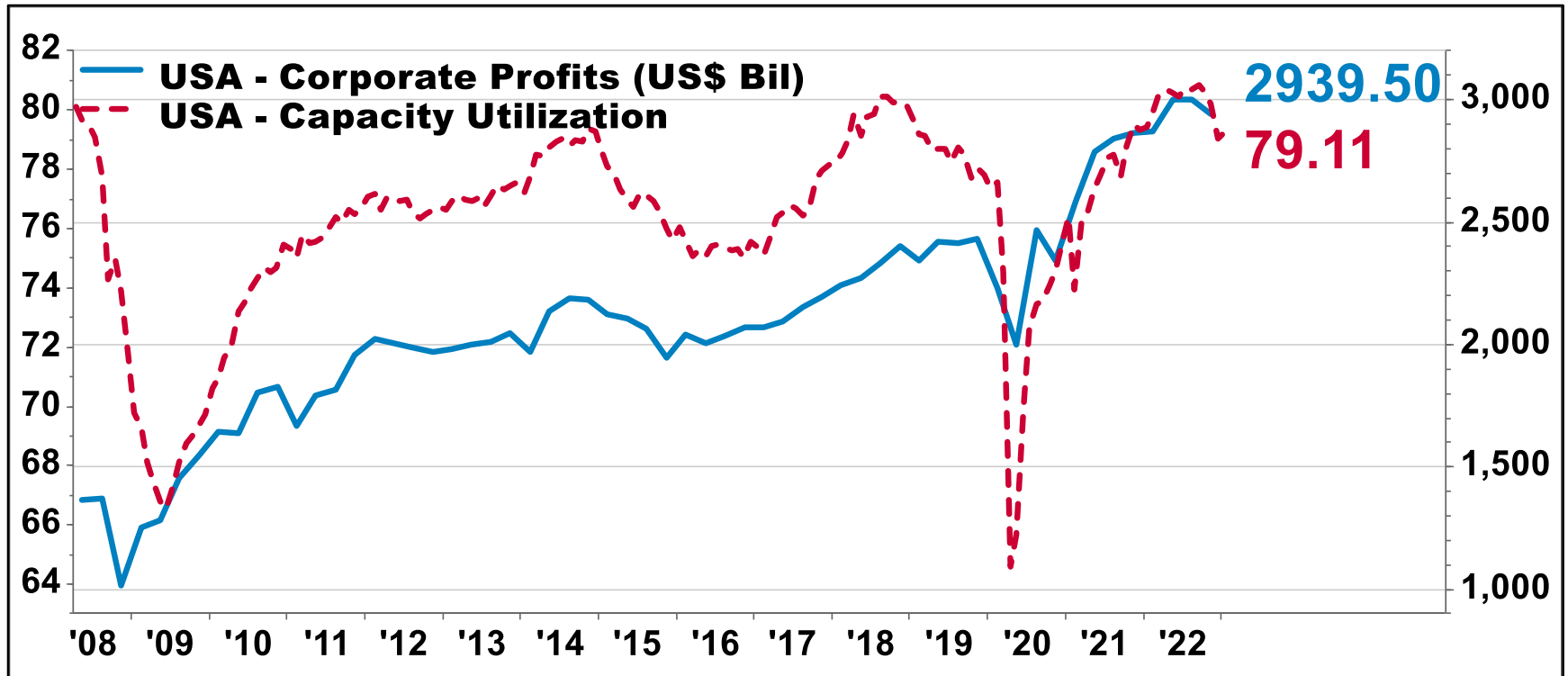
- U.S. retail sales remain strong even as consumer confidence has trended down.

## US Retail Sales

[Launch full data release](#)

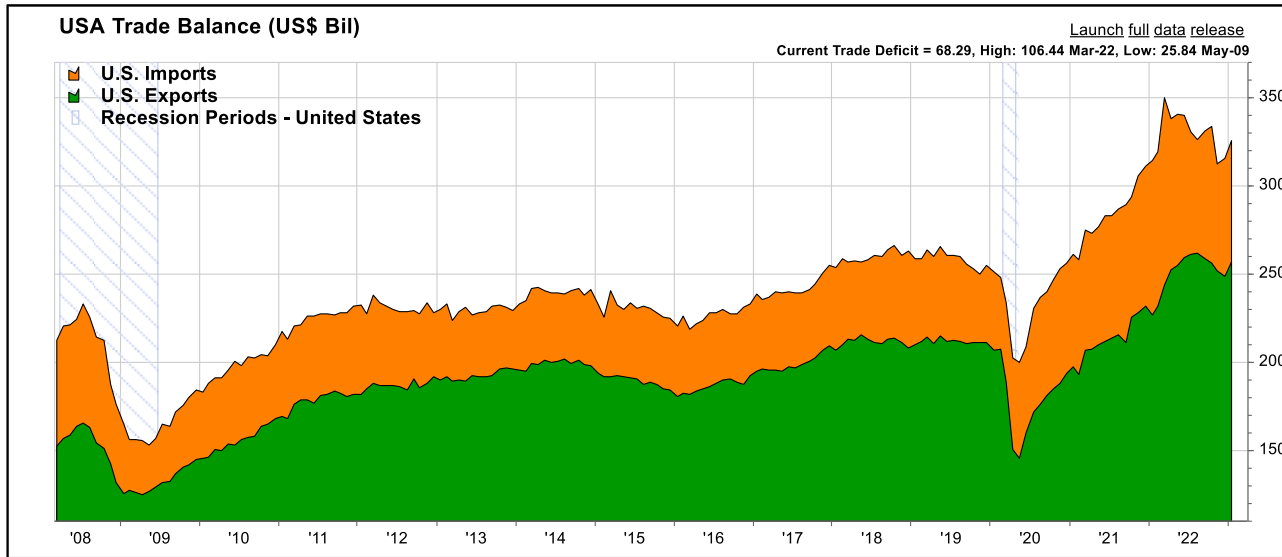






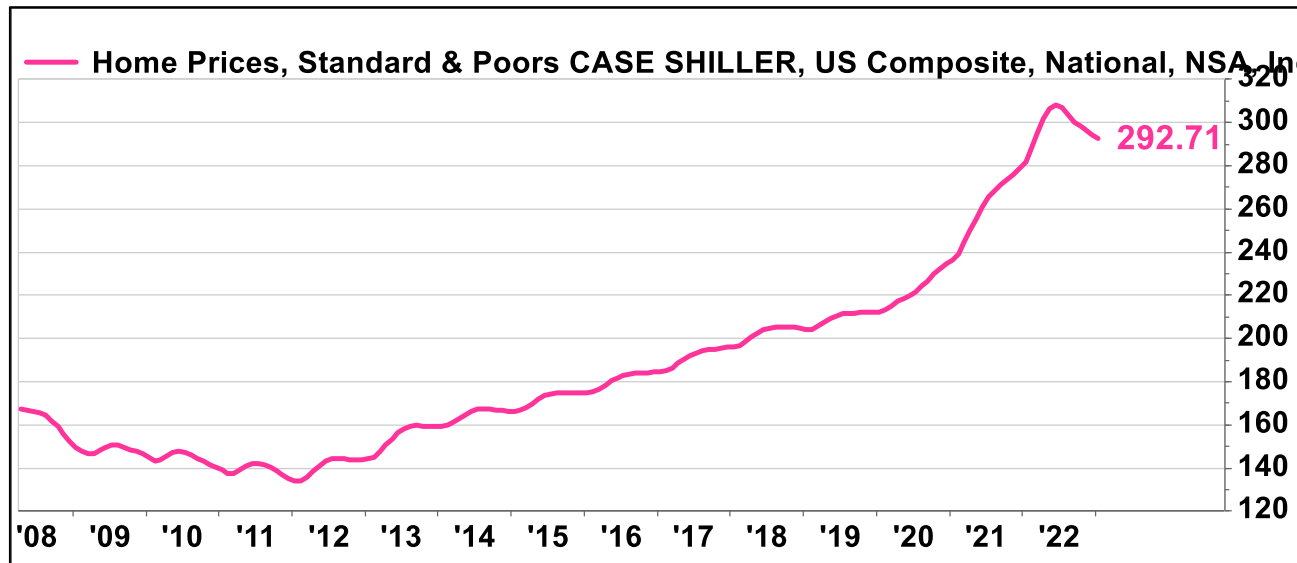
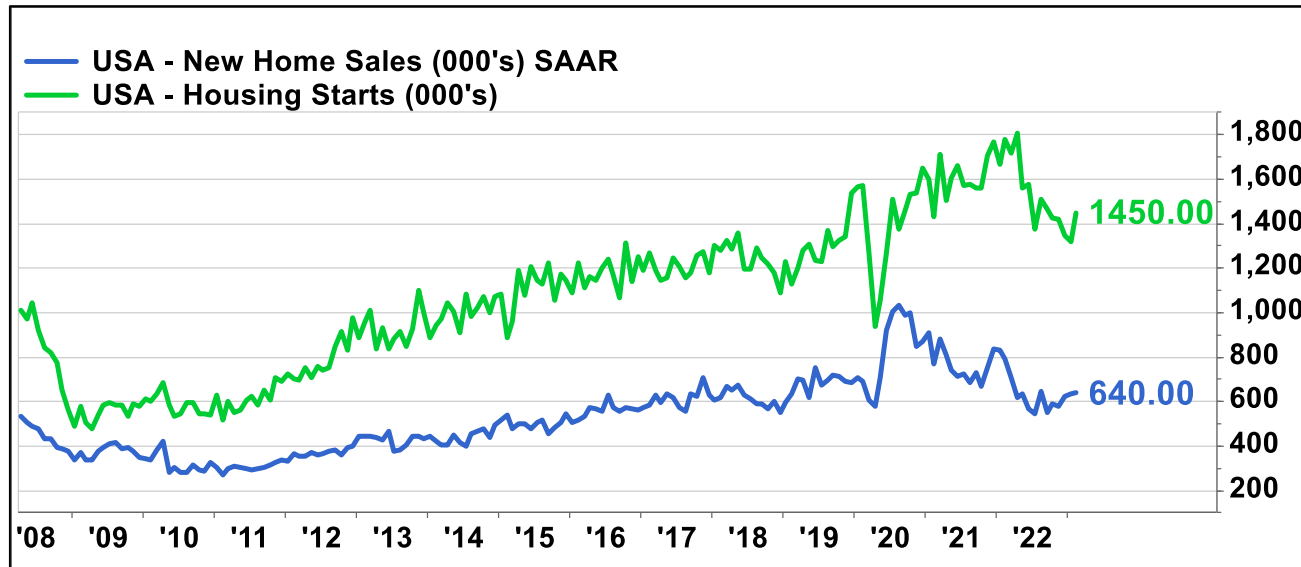
- The estimated earnings growth rate for S&P 500 companies is -6.6% in Q1 2023.
- The capacity utilization rate is among its highest level over the last decade, though is trending down.

# US Economy – International Trade



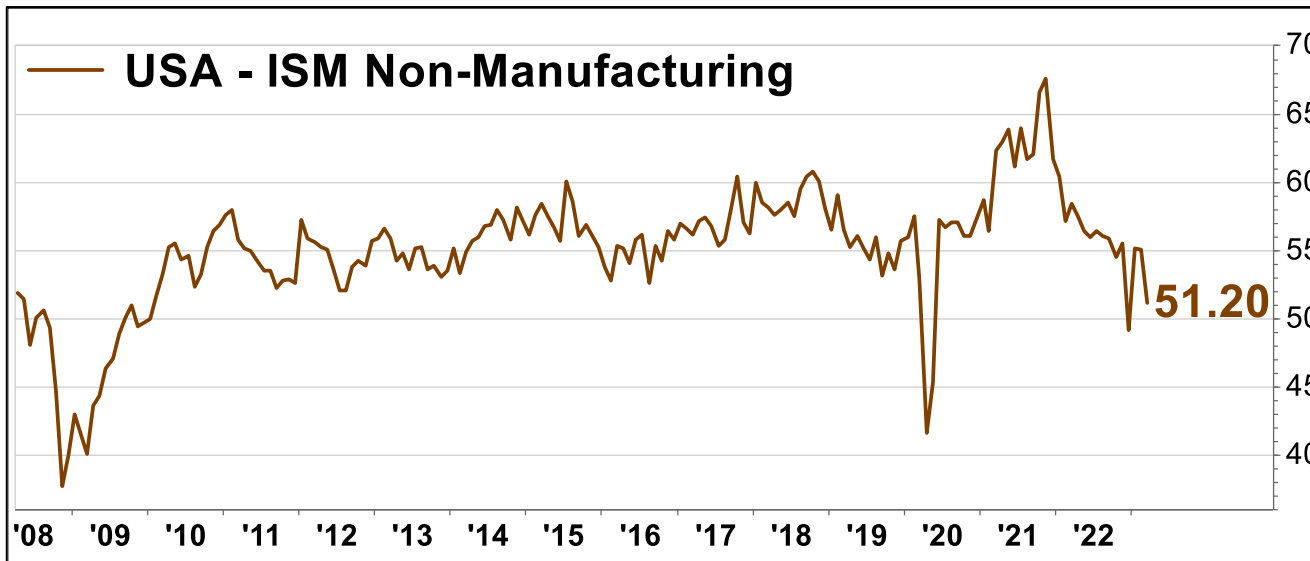
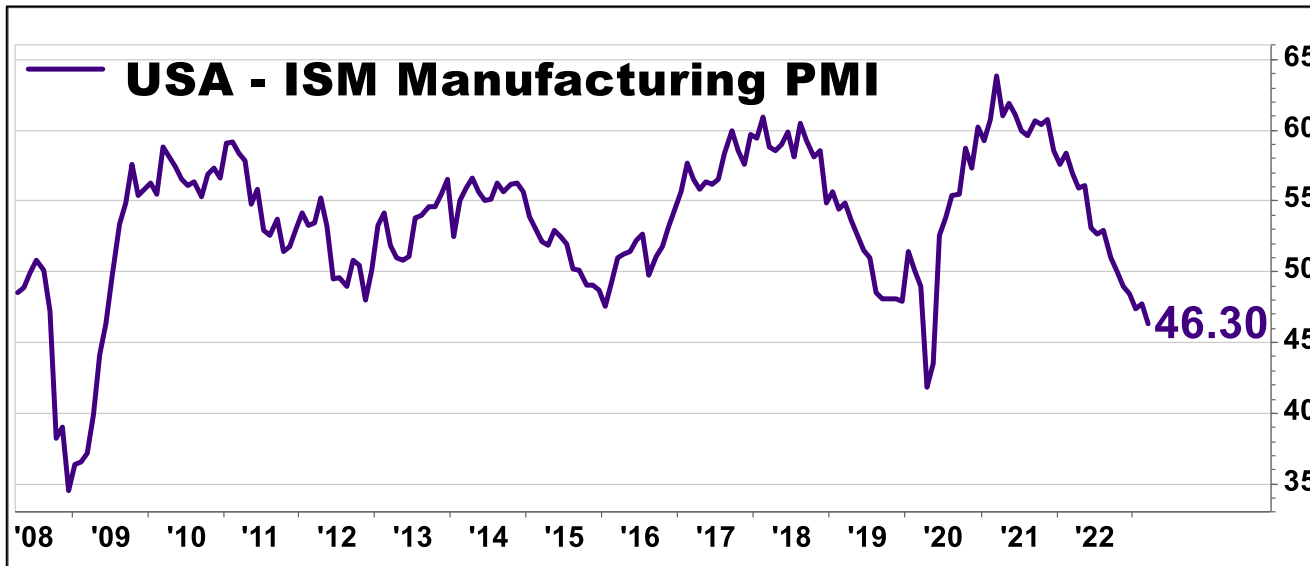
- The most recently available January data showed a slight increase in the trade deficit

# US Economy – Housing Market



- Home prices have stalled as increasing mortgage rates have put downward pressure on demand.
- The median sales price of homes in the United States was over \$467,000 in Q4, it's first quarterly decline in three years, according to the St. Louis Fed.

# US Economy – Leading Indicators and Surveys



- The Purchasing Manager Indexes in both manufacturing and non-manufacturing both decreased in March.

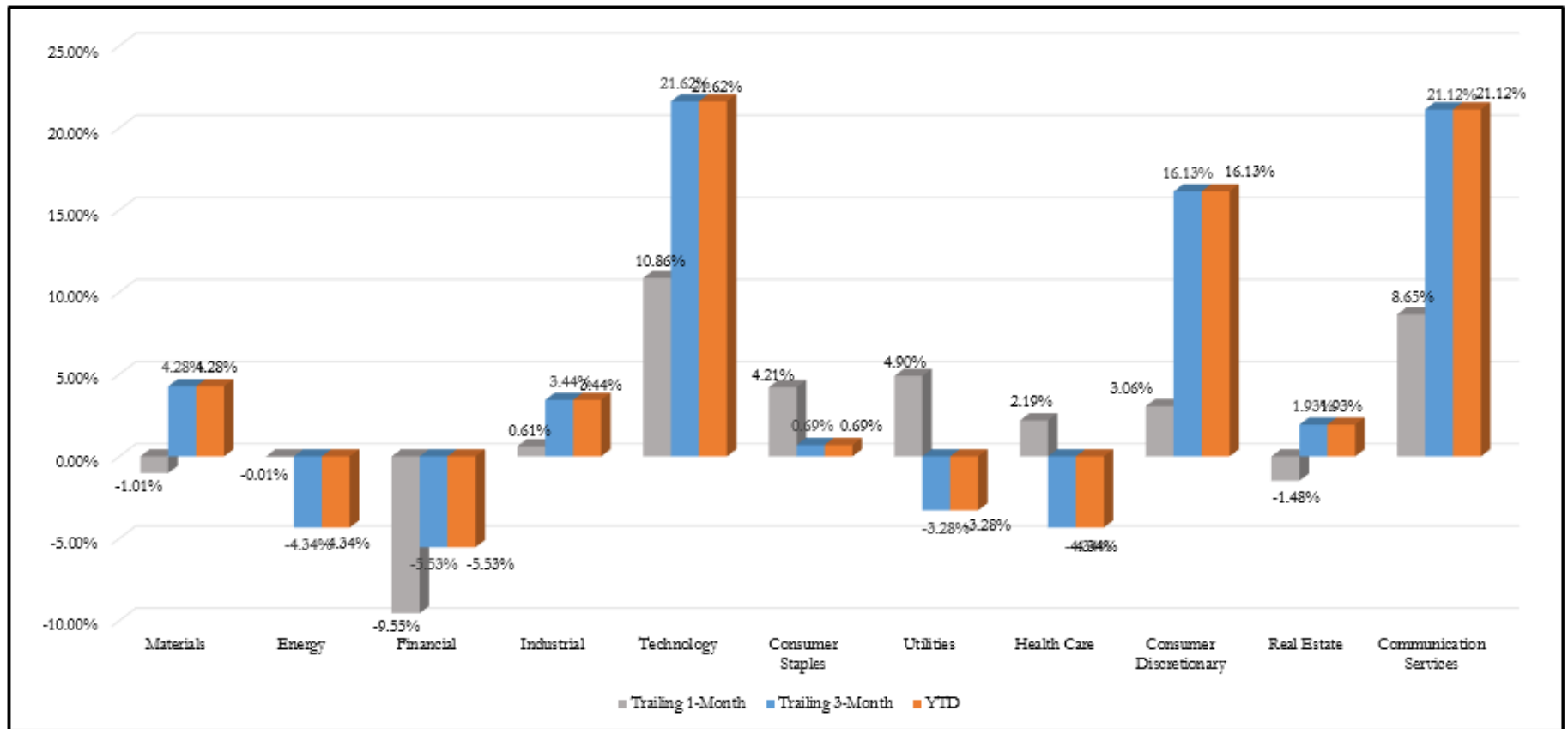
# Asset Class Performance

Sector/Asset Class	ETF	2018	2019	2020	2021	2022	YTD	Trailing 3-month	Trailing 1-month
US Large Cap	SPY	-4.56%	31.22%	18.37%	28.75%	-18.17%	7.46%	7.46%	3.71%
US Small Cap	IWM	-11.11%	25.39%	20.03%	14.54%	-20.48%	2.70%	2.70%	-4.85%
Large Cap Value	IVE	-9.19%	31.63%	1.21%	24.72%	-5.40%	5.11%	5.11%	1.33%
Large Cap Growth	IVW	-0.19%	30.77%	33.19%	31.80%	-29.52%	9.55%	9.55%	5.82%
Mid Cap Value	IWS	-12.41%	26.74%	4.80%	28.10%	-12.28%	1.31%	1.31%	-3.12%
Mid Cap Growth	IWP	-4.87%	35.04%	35.24%	12.60%	-26.90%	9.09%	9.09%	1.38%
Small Cap Value	IWN	-12.99%	22.01%	4.66%	27.96%	-14.75%	-0.66%	-0.66%	-7.30%
Small Cap Growth	IWO	-9.42%	28.48%	34.68%	2.54%	-26.26%	5.96%	5.96%	-2.47%
International Equity	EFA	-13.81%	22.03%	7.59%	11.46%	-14.35%	8.96%	8.96%	3.13%
Emerging Markets Equity	VWO	-14.77%	20.76%	15.19%	1.30%	-17.99%	3.72%	3.72%	2.56%
US REITs	VNQ	-6.02%	28.87%	-4.68%	40.52%	-26.24%	1.66%	1.66%	-2.18%
Infrastructure MLP	AMLP	-12.62%	5.98%	-32.19%	39.03%	25.53%	3.50%	3.50%	-0.59%
Gold	GLD	-1.94%	17.86%	24.81%	-4.15%	-0.77%	8.01%	8.01%	7.92%
Commodity	DJP	-13.07%	7.63%	-4.12%	31.05%	17.46%	-6.29%	-6.29%	-0.03%
High Yield Bond	JNK	-3.27%	14.88%	4.95%	3.99%	-12.20%	4.24%	4.24%	2.14%
Broad Bond	AGG	0.10%	8.46%	7.48%	-1.77%	-13.02%	3.23%	3.23%	2.64%
TIPs	TIP	-1.42%	8.35%	10.84%	5.67%	-12.24%	3.58%	3.58%	2.86%
Treasuries	IEF	0.99%	8.03%	10.01%	-3.33%	-15.16%	3.92%	3.92%	3.72%
Long Term Treasuries	TLT	-1.61%	14.12%	18.15%	-4.60%	-31.24%	7.38%	7.38%	4.84%
Short Term Treasuries	SHV	1.72%	2.36%	0.81%	-0.10%	0.94%	1.13%	1.13%	0.51%

Note: As of March 31<sup>st</sup>, 2023.

- Large caps outperformed small caps, and growth outperformed value in March.

# US Sector Performance

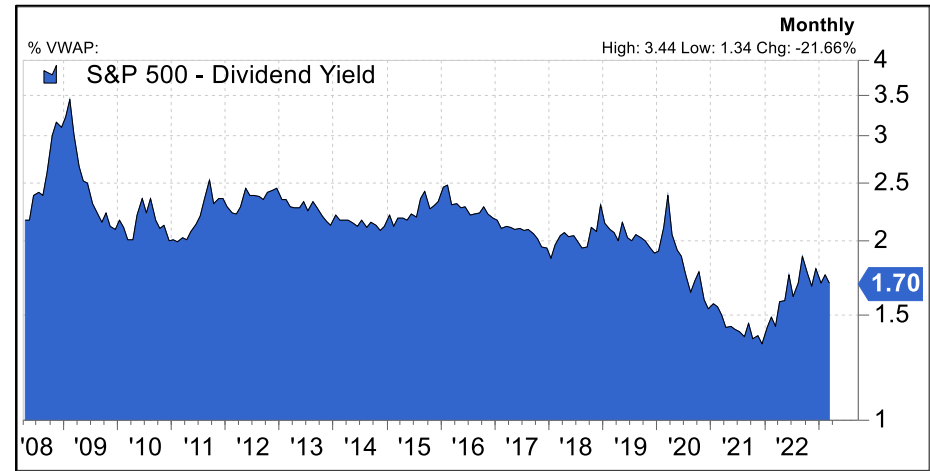
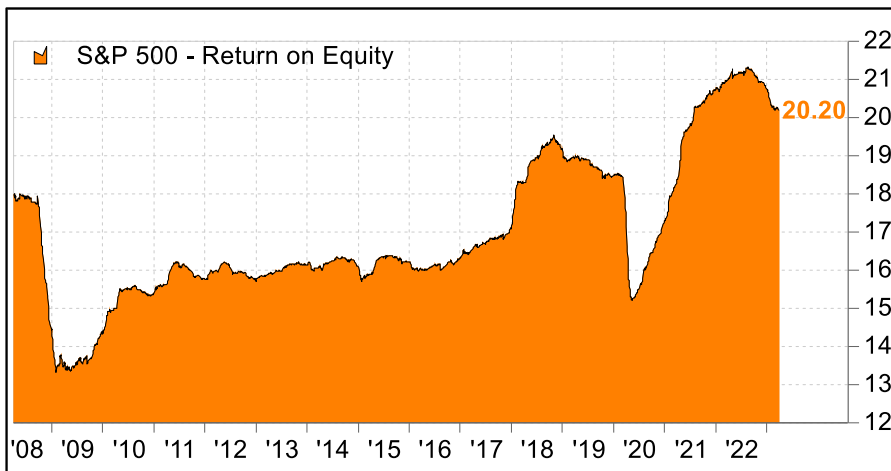
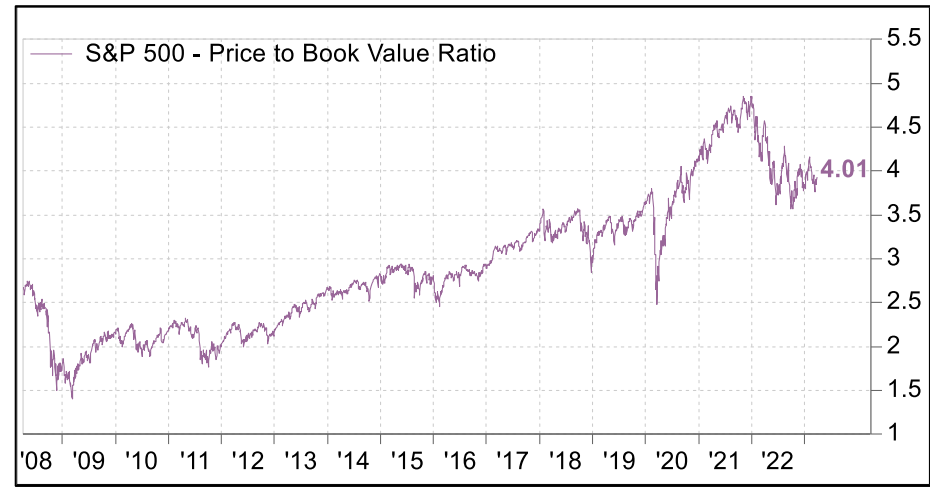


Note: As of March 31<sup>st</sup>, 2023.

- A strong end to March propelled many sectors back into positive performance YTD.

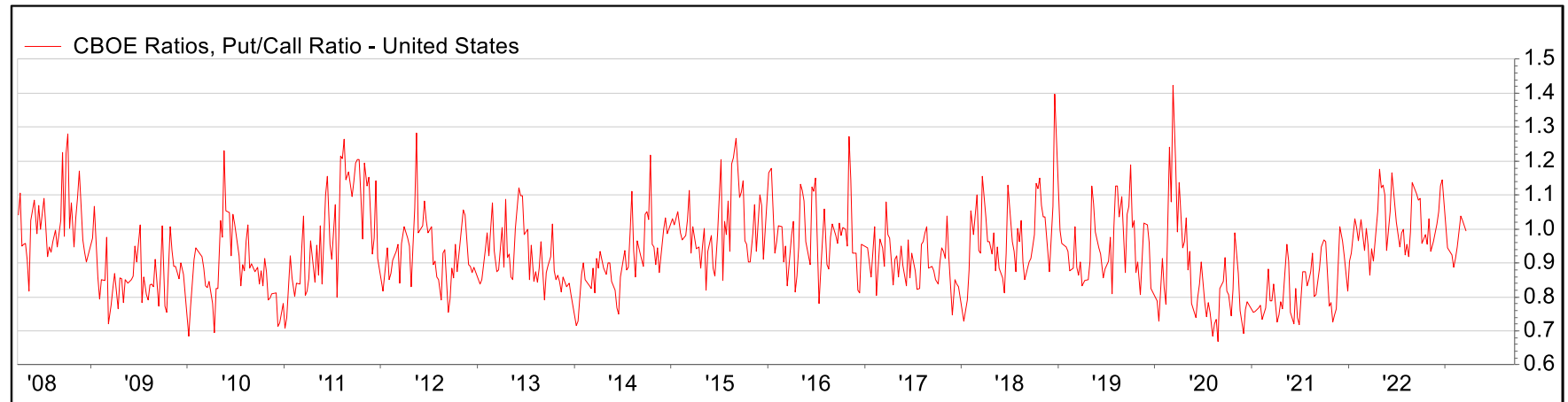
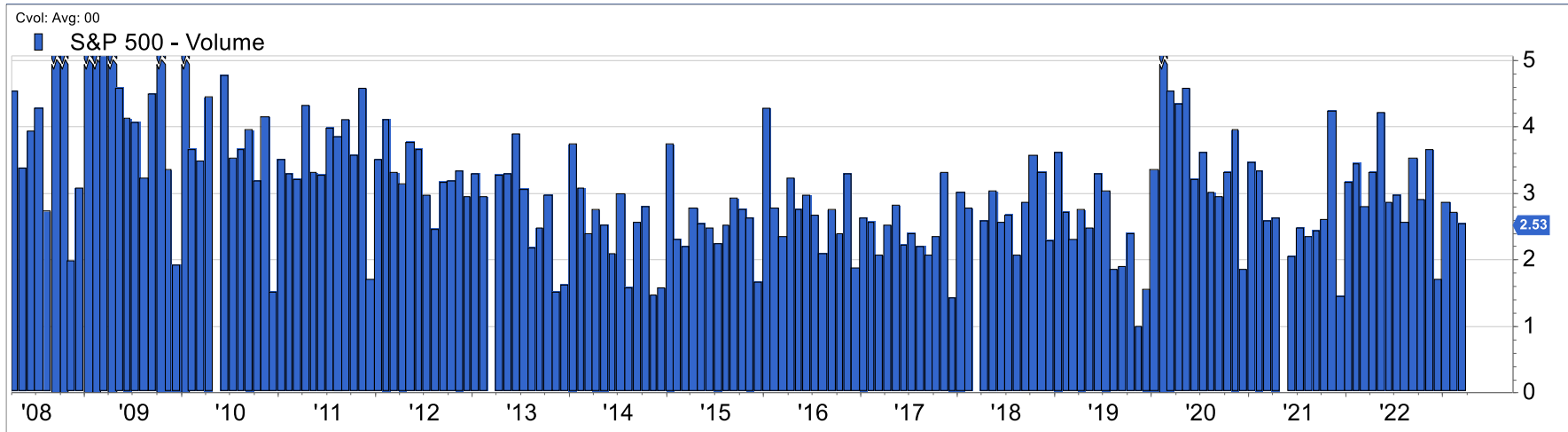


# US Equity Market Fundamentals

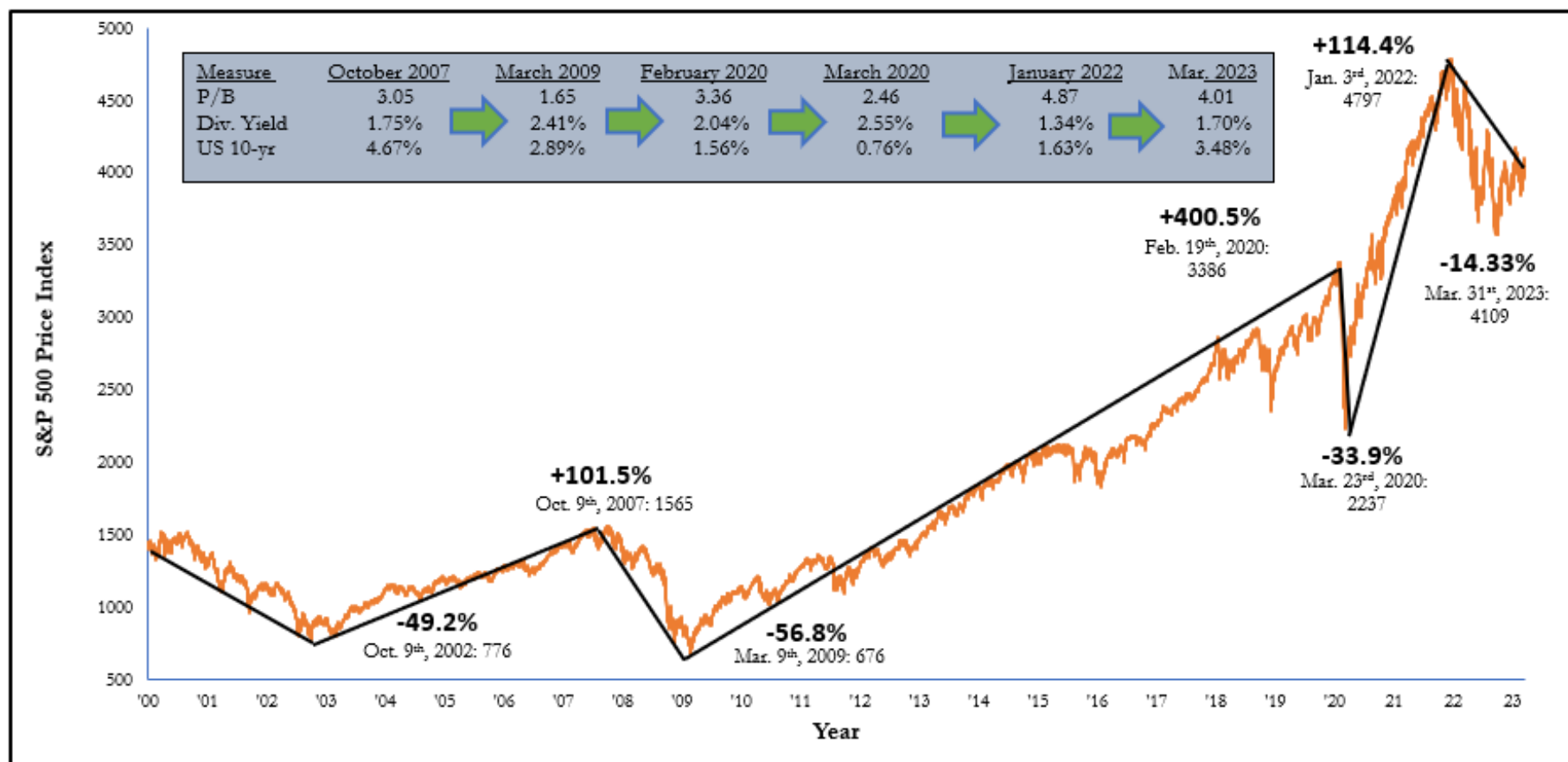


- As a result of market movements, valuations became less attractive in February.

# US Equity Market Technicals



- The Put/Call Ratio has been increasing for the past two years despite short-term variation.



Note: As of March 31<sup>st</sup>, 2023.

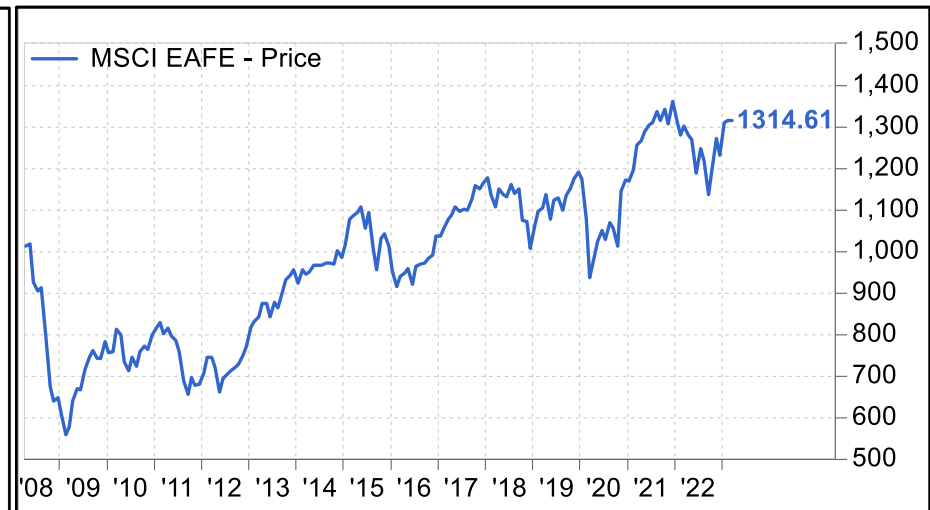
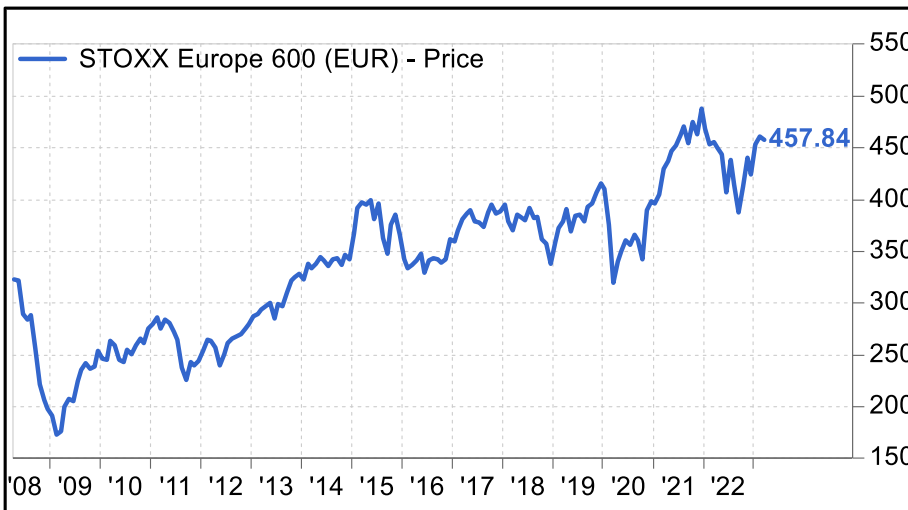
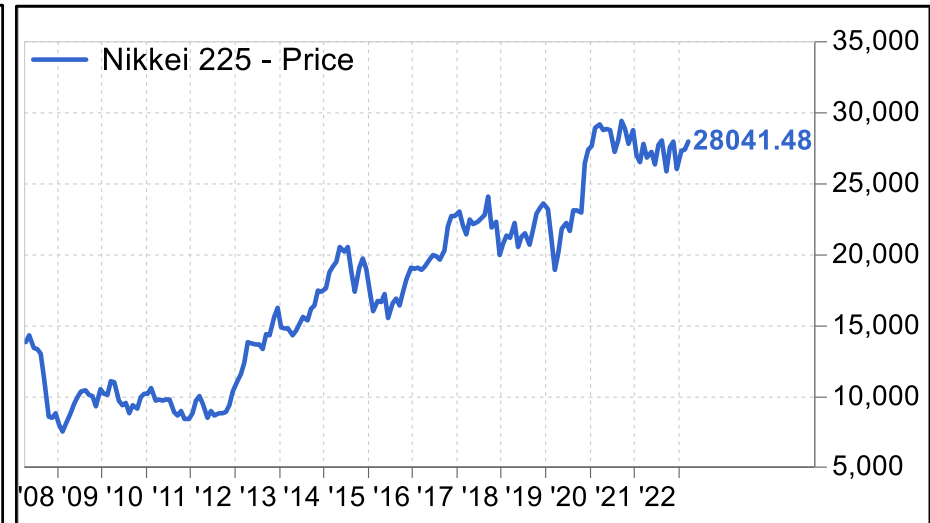
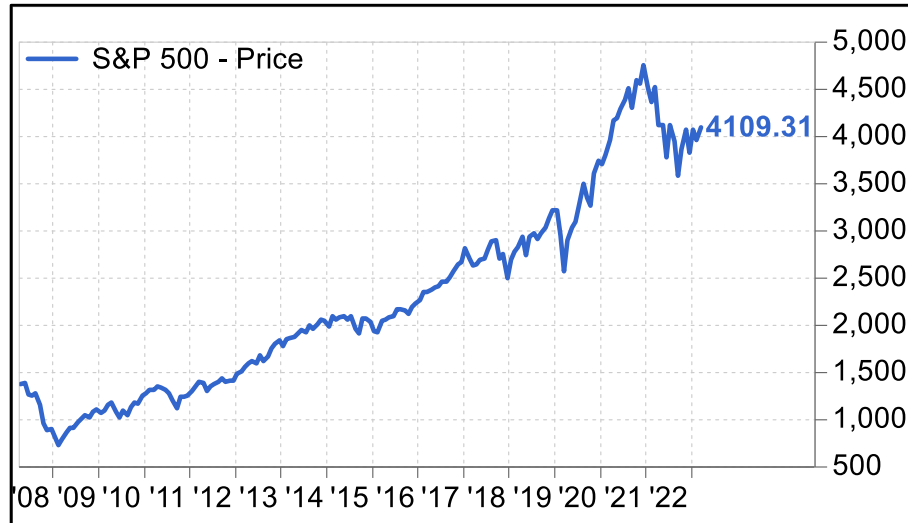
Data Source: FactSet, Yahoo Finance, and www.treasury.gov

# Global Equity Performance - Country Comparison

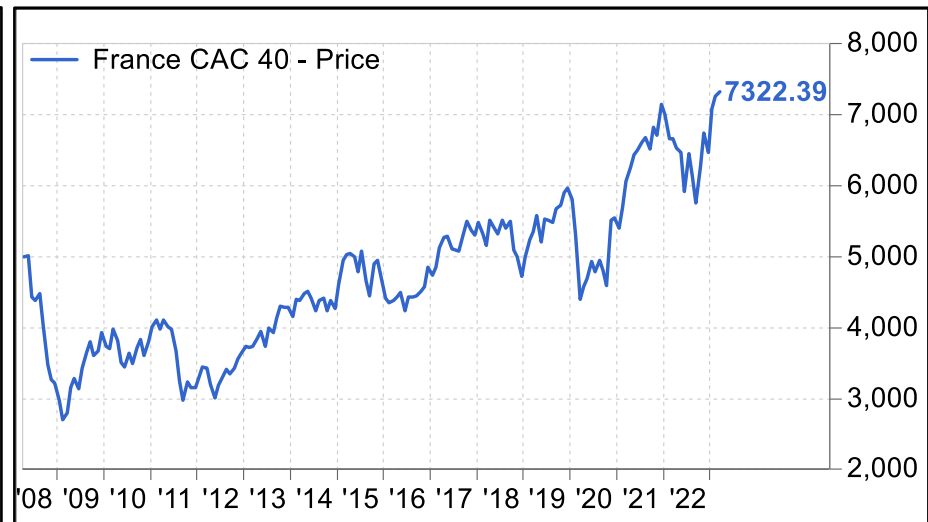
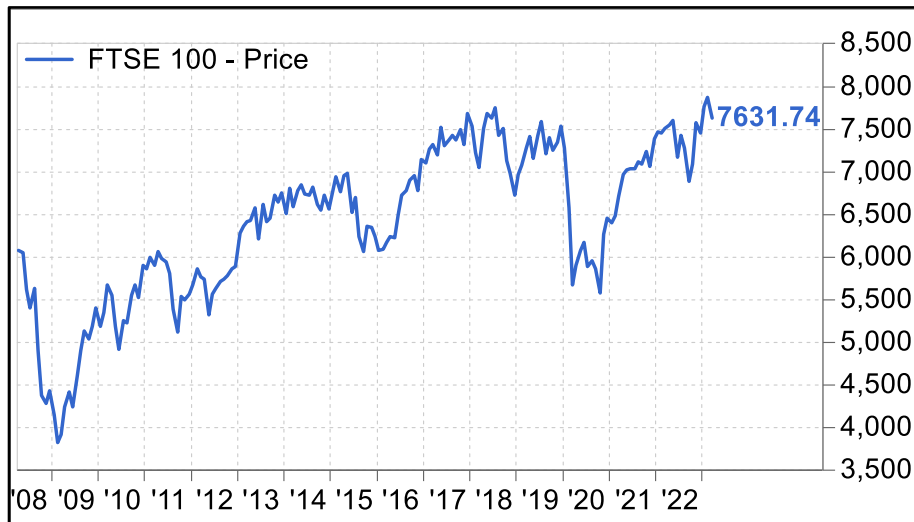
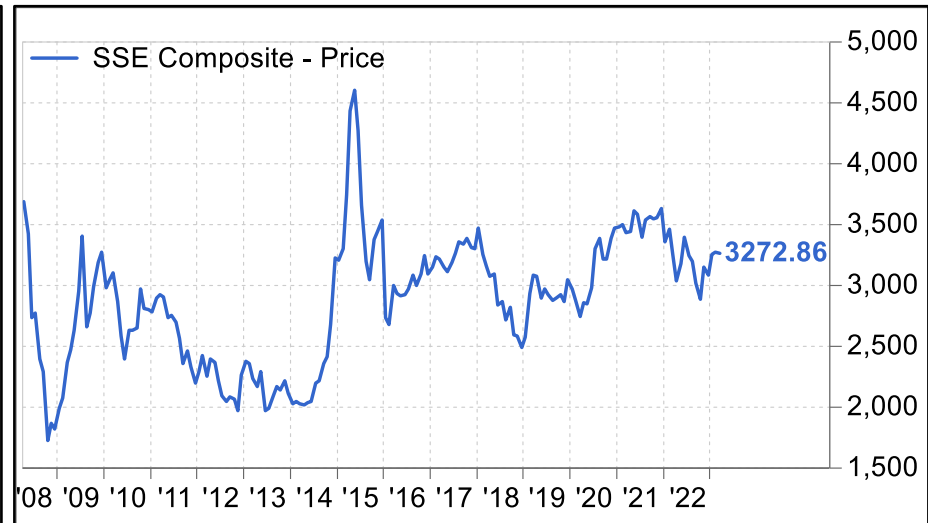
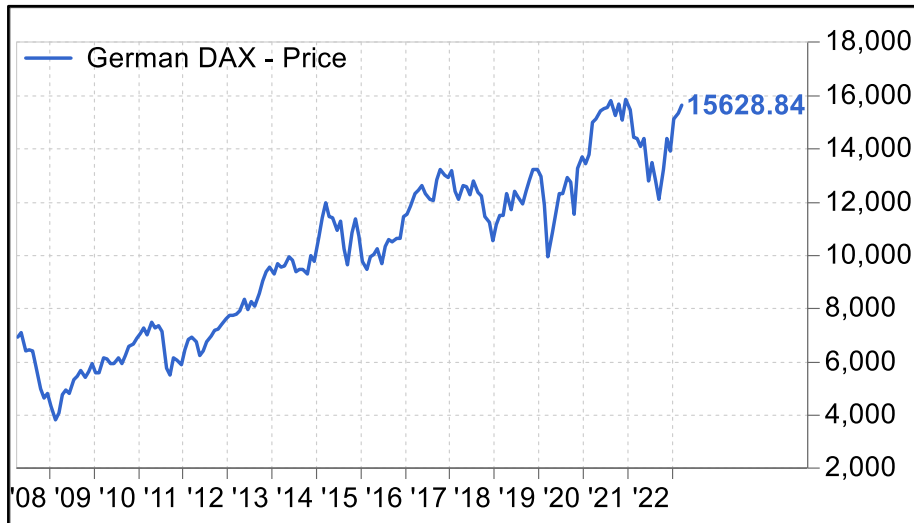
2018	2019	2020	2021	2022	YTD	Trailing 3-month	Trailing 1-month
Brazil -2.56%	United States 21.22%	China 27.78%	United States 28.15%	Brazil 12.35%	Spain 15.26%	Spain 15.26%	Japan 4.92%
India -4.29%	Brazil 27.65%	United States 18.37%	Canada 27%	England -4.38%	Germany 15.08%	Germany 15.08%	Germany 4.29%
United States -4.56%	Canada 27.56%	Japan 15.41%	France 21.47%	Spain -5.15%	France 14.13%	France 14.13%	China 4.24%
France -12.88%	Italy 26.97%	Germany 10.56%	India 19.55%	India -7.33%	Italy 12.95%	Italy 12.95%	United States 2.71%
Japan -14.09%	France 26.67%	India 10.01%	England 18.22%	France -11.99%	Japan 7.81%	Japan 7.81%	France 3.5%
England -14.28%	China 23.7%	Canada 5.52%	Italy 14.41%	Canada -12.95%	United States 7.46%	United States 7.46%	Spain 1.68%
Spain -15.32%	England 21.25%	France 2.85%	Germany 5.84%	Italy -14.1%	England 5.22%	England 5.22%	Italy 1.4%
Canada -17.16%	Japan 19.33%	Italy 1.67%	Japan 1.17%	Japan -17.72%	China 5.03%	China 5.03%	India 0.46%
Italy -17.19%	Germany 19.15%	Spain -3.96%	Spain 0.27%	United States -18.17%	Canada 4.43%	Canada 4.43%	Brazil 0.4%
China -19.77%	Spain 11.91%	England -11.8%	Brazil -17.28%	Germany -22.2%	Brazil -2.11%	Brazil -2.11%	Canada 0.38%
Germany -21.37%	India 9.99%	Brazil -20.33%	China -21.73%	China -22.76%	India -2.84%	India -2.84%	England -0.06%
Developed Markets -13.81%	Developed Markets 22.03%	Emerging Markets 17.88%	Developed Markets 11.46%	Developed Markets -14.35%	Developed Markets 8.96%	Developed Markets 8.96%	Developed Markets 3.13%
Emerging Markets -14.93%	Emerging Markets 17.79%	Developed Markets 7.59%	Emerging Markets -0.61%	Emerging Markets -19.97%	Emerging Markets 4.48%	Emerging Markets 4.48%	Emerging Markets 3.04%

Note: As of March 31<sup>st</sup>, 2023. Numbers reflective of ETF performance.

# Global Equity- Major Indices

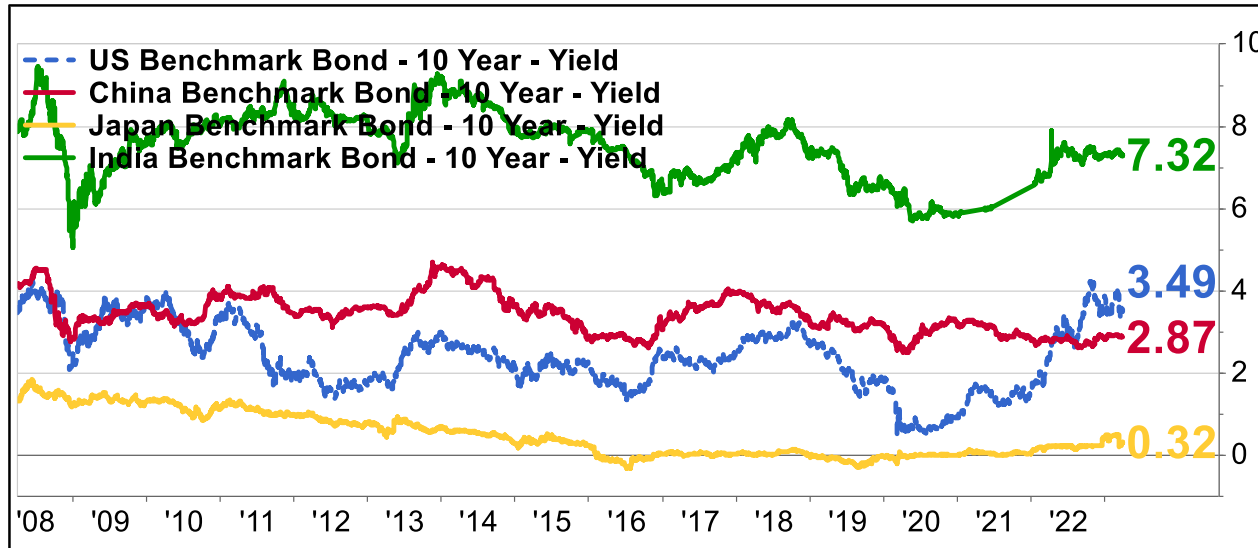


# Global Equity- Major Indices

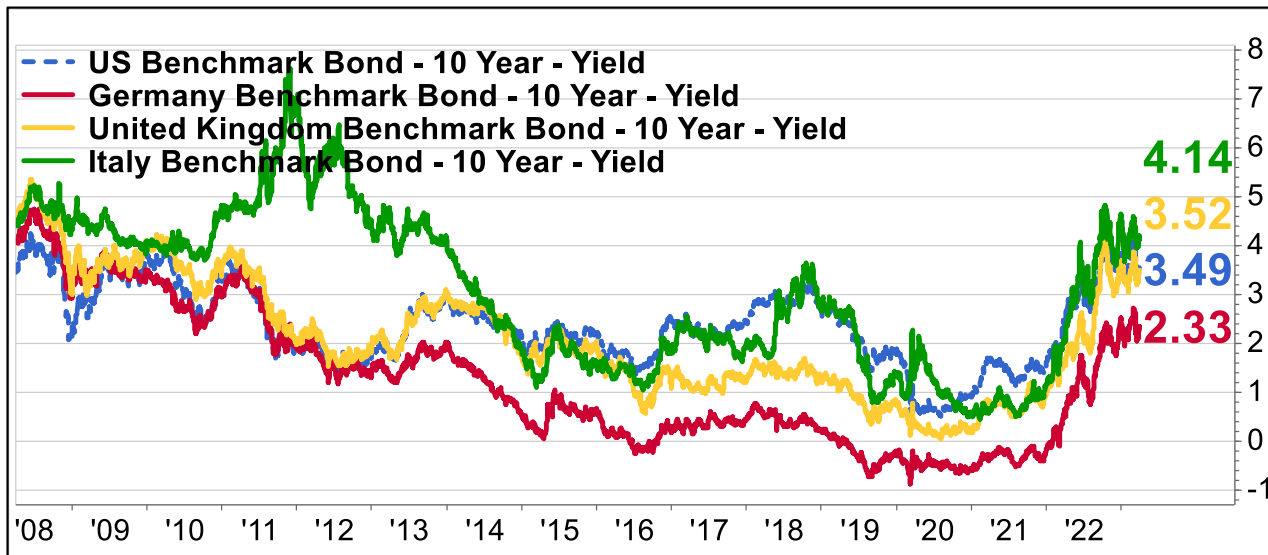




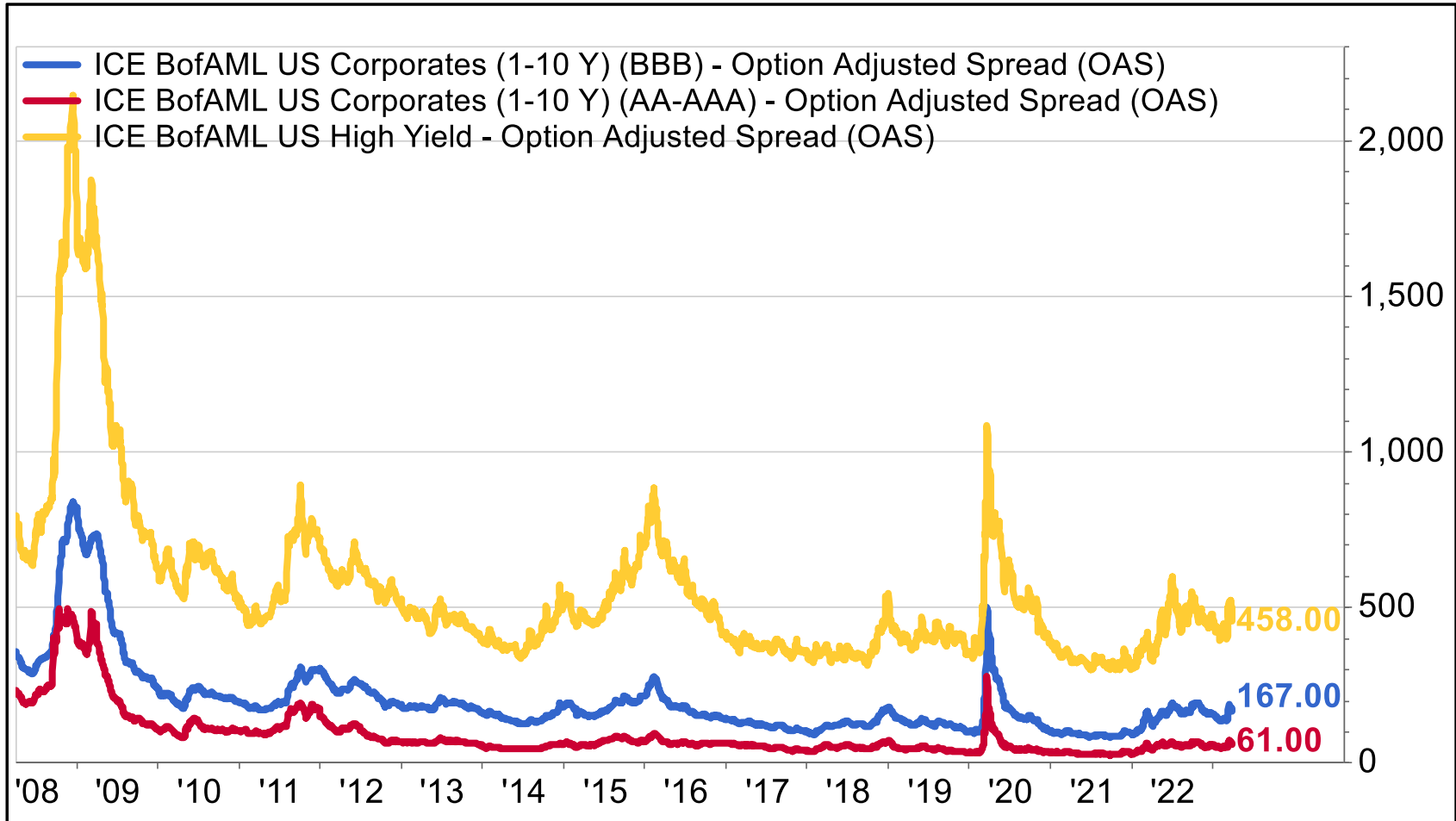
# Global Fixed Income- Government Yields



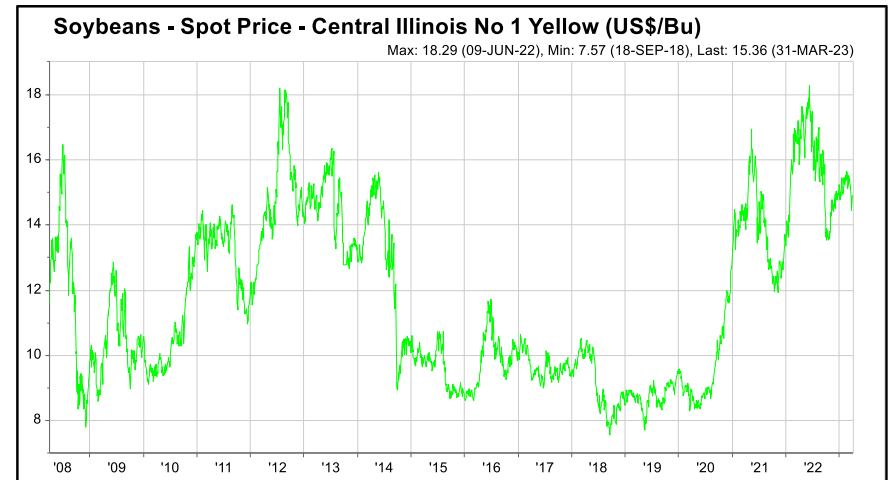
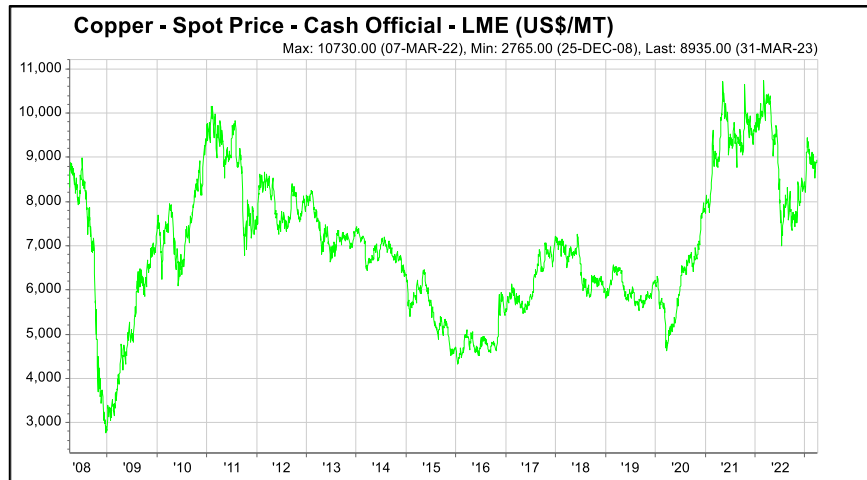
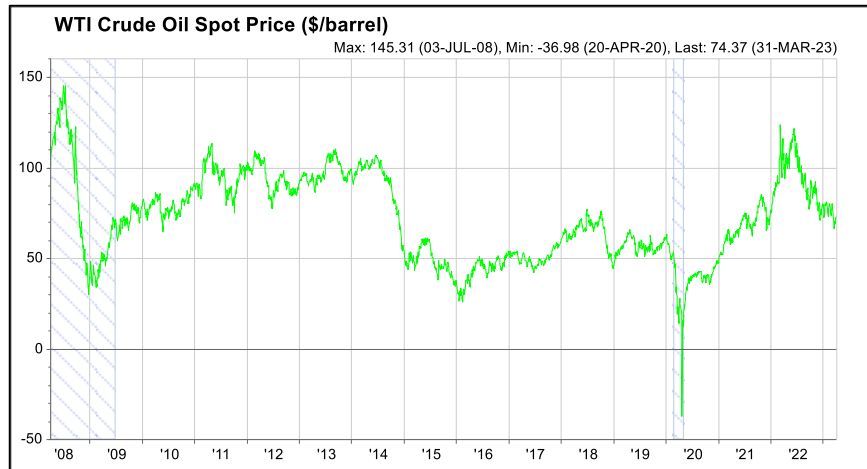
- Yields on sovereign debt decreased in February.



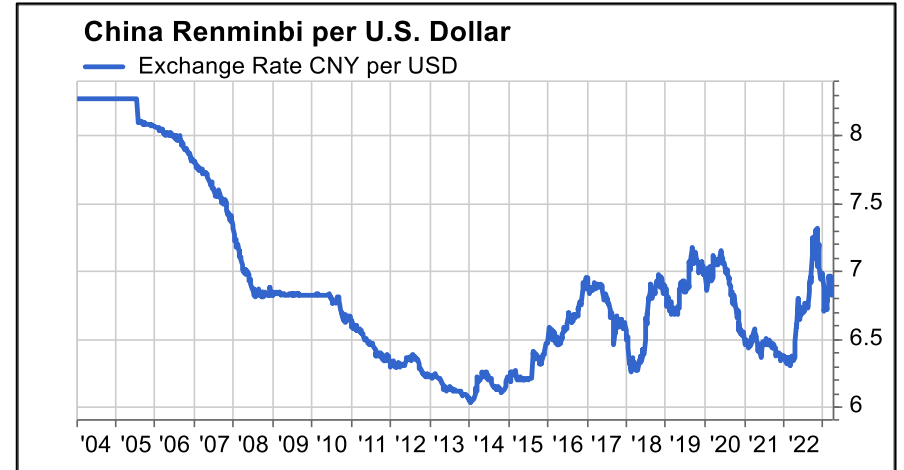
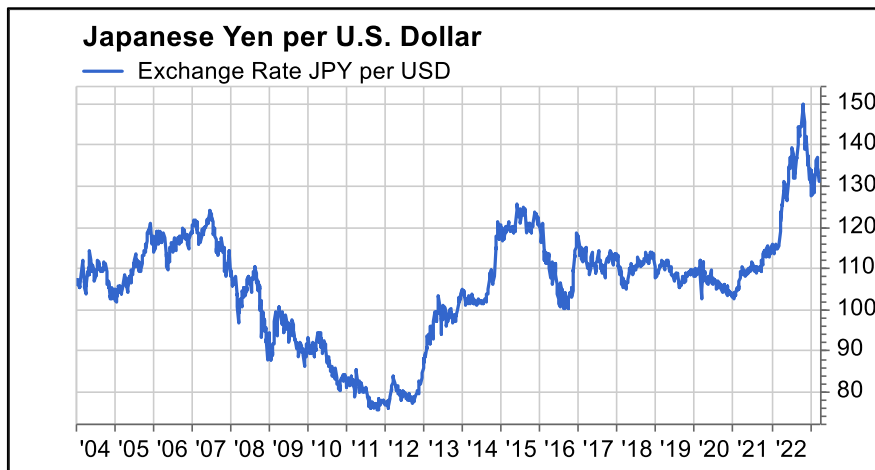
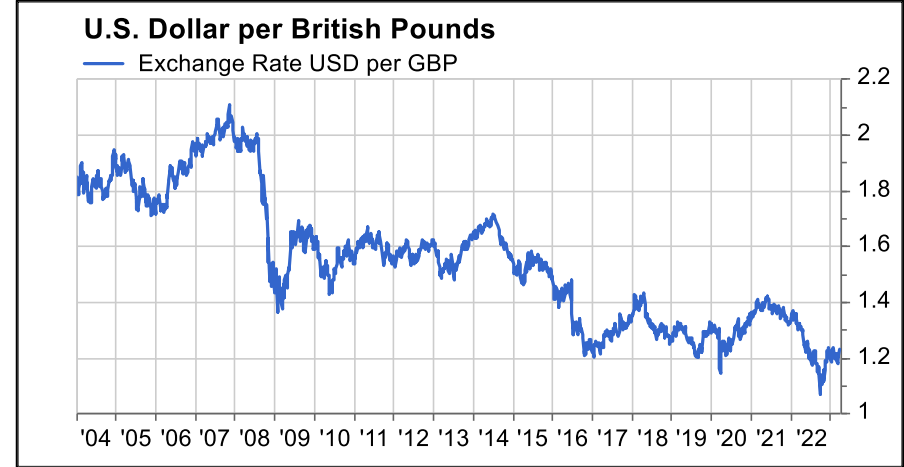
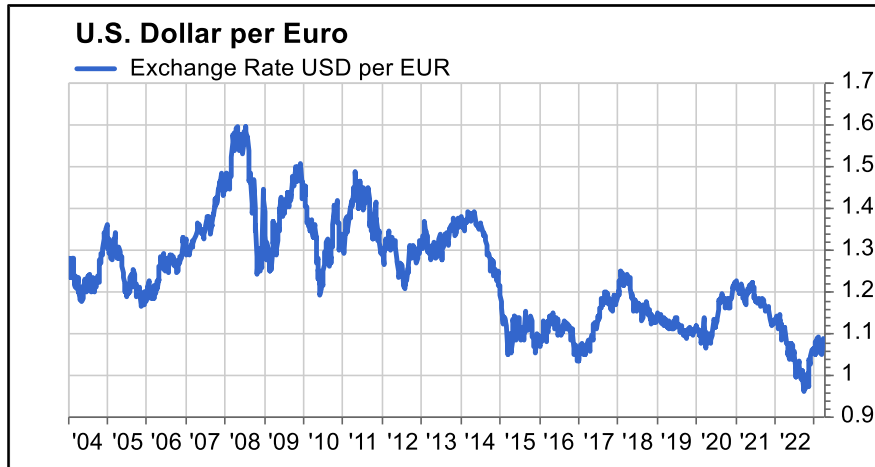
# Credit Market - Corporate Spreads



- Spreads increased in March.



- As of 3/31/2023, WTI Crude: \$74.37/Barrel; Gold: \$1979.70 Troy Oz; Copper: \$8935/MT; Soybean: \$15.36/Bu.



- As of 3/31/2023, FX rates are: 1.09 USD/EUR, 1.24 USD/GBP, 133.09 JPY/USD, 6.87 CNY/USD.

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