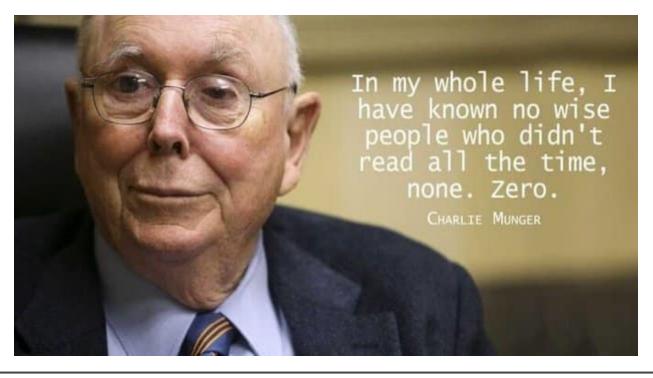


Charlie Munger Passes But His Wisdom Lives On

Warren Buffett?s partner, Charlie Munger, passed away on Tuesday at the ripe age of 99. Charlie Munger and Warren Buffett founded Berkshire Hathaway in 1975. In the nearly fifty years of value investing, the simple genius of both founders has made them billionaires and many Berkshire investors millionaires. Berkshire Hathaway has a market cap of nearly \$800 billion, ranking it as the 9th largest public company in America by market cap. While Buffet is often in the media and tends to get most of the credit for Berkshire?s success, Charlie Munger is equally smart and responsible for what they built.

Berkshire investors and others will be watching closely to see who his successor may be. Warren Buffett is 93 years old. Consequently, the successor may have a dominant role at Berkshire for years to come. In his 99 years, Charlie Munger has become known to be one of the greatest investors ever. Further, he has been quite open about what has led to his wild success. In a section below, we share just a small bit of the knowledge and wisdom that made him the legend he is.



What To Watch Today

Earnings

Time	Symbol	Company Name	Market Cap 🕶	Fiscal Quarter Ending	Consensus EPS* Forecast	# Of Ests	Last Year's Report Date	Last Year's EPS*
Ö	RY	Royal Bank Of Canada	\$121,029,939,720	Oct/2023	\$1.90	3	11/30/2022	\$2.09
Ö	TD	Toronto Dominion Bank (The)	\$111,477,500,000	Oct/2023	\$1.37	4	12/01/2022	\$1.64
Ð	DELL	Dell Technologies Inc.	\$53,866,347,837	Oct/2023	\$1.23	5	11/21/2022	\$2.01
Ð	MRVL	Marvell Technology, Inc.	\$48,230,520,000	Oct/2023	\$0.24	13	12/01/2022	\$0.41
0	СМ	Canadian Imperial Bank of Commerce	\$35,880,237,696	Oct/2023	\$1.13	4	12/01/2022	\$1.08
Θ	JCI	Johnson Controls International plc	\$35,669,179,382	Sep/2023	\$1.09	7	11/03/2022	\$0.99
Ö	KR	Kroger Company (The)	\$31,714,632,652	Oct/2023	\$0.90	8	12/01/2022	\$0.88
٢	ULTA	Ulta Beauty, Inc.	\$20,417,582,172	Oct/2023	\$4.96	14	12/01/2022	\$5.34
Ð	IOT	Samsara Inc.	\$14,331,365,607	Oct/2023	(\$0.10)	5	12/01/2022	(\$0.11)
Θ	AEG	Aegon Ltd.	\$14,260,713,279	Sep/2023		N/A	11/10/2022	(\$0.10)
Ð	PATH	UiPath, Inc.	\$10,484,654,720	Oct/2023	(\$0.10)	4	12/01/2022	(\$0.09)
٢	ESTC	Elastic N.V.	\$7,493,628,142	Oct/2023	(\$0.34)	8	11/30/2022	(\$0.50)
Ö	D000	BRP Inc.	\$5,410,321,122	Oct/2023	\$2.19	4	11/30/2022	\$2.73
Ö	FRO	Frontline Plc	\$4,944,390,200	Sep/2023	\$0.46	2	11/30/2022	\$0.37
٥	ASO	Academy Sports and Outdoors, Inc.	\$3,659,658,385	Oct/2023	\$1.57	7	12/07/2022	\$1.63
Time	Symbol	Company Name	Market Cap 🕶	Fiscal Quarter Ending	Consensus EPS* Forecast	# Of Ests	Last Year's Report Date	Last Year's EPS*
Ö	RY	Royal Bank Of Canada	\$121,029,939,720	Oct/2023	\$1.90	3	11/30/2022	\$2.09
\	TD	Toronto Dominion Bank	\$111,477,500,000	Oct/2022	\$1.37			
		(The)	\$111,477,300,000	000/2025	Q1.07	4	12/01/2022	\$1.64
٢	DELL	(The) Dell Technologies Inc.	\$53,866,347,837		\$1.23	4 5	12/01/2022	\$1.64 \$2.01
む む	DELL			Oct/2023				
-		Dell Technologies Inc.	\$53,866,347,837	Oct/2023 Oct/2023	\$1.23	5	11/21/2022	\$2.01
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MRVL	Dell Technologies Inc. Marvell Technology, Inc. Canadian Imperial Bank of	\$53,866,347,837 \$48,230,520,000	Oct/2023 Oct/2023 Oct/2023	\$1.23 \$0.24	5 13	11/21/2022 12/01/2022	\$2.01 \$0.41
• ●	MRVL	Dell Technologies Inc. Marvell Technology, Inc. Canadian Imperial Bank of Commerce Johnson Controls	\$53,866,347,837 \$48,230,520,000 \$35,880,237,696	Oct/2023 Oct/2023 Oct/2023 Sep/2023	\$1.23 \$0.24 \$1.13	5 13 4	11/21/2022 12/01/2022 12/01/2022	\$2.01 \$0.41 \$1.08
≥ ♥ ♥	MRVL CM JCI	Dell Technologies Inc. Marvell Technology, Inc. Canadian Imperial Bank of Commerce Johnson Controls International plc	\$53,866,347,837 \$48,230,520,000 \$35,880,237,696 \$35,669,179,382	Oct/2023 Oct/2023 Oct/2023 Sep/2023 Oct/2023	\$1.23 \$0.24 \$1.13 \$1.09	5 13 4 7	11/21/2022 12/01/2022 12/01/2022 11/03/2022	\$2.01 \$0.41 \$1.08 \$0.99
- • ● • •	MRVL CM JCI KR	Dell Technologies Inc. Marvell Technology, Inc. Canadian Imperial Bank of Commerce Johnson Controls International plc Kroger Company (The)	\$53,866,347,837 \$48,230,520,000 \$35,880,237,696 \$35,669,179,382 \$31,714,632,652	Oct/2023 Oct/2023 Oct/2023 Sep/2023 Oct/2023 Oct/2023	\$1.23 \$0.24 \$1.13 \$1.09 \$0.90	5 13 4 7 8	11/21/2022 12/01/2022 12/01/2022 11/03/2022 12/01/2022	\$2.01 \$0.41 \$1.08 \$0.99 \$0.88
- - - - - - - - - - - - - - - - - - -	MRVL CM JCI KR ULTA	Dell Technologies Inc. Marvell Technology, Inc. Canadian Imperial Bank of Commerce Johnson Controls International plc Kroger Company (The) Ulta Beauty, Inc.	\$53,866,347,837 \$48,230,520,000 \$35,880,237,696 \$35,669,179,382 \$31,714,632,652 \$20,417,582,172 \$14,331,365,607	Oct/2023 Oct/2023 Oct/2023 Sep/2023 Oct/2023 Oct/2023	\$1.23 \$0.24 \$1.13 \$1.09 \$0.90 \$4.96	5 13 4 7 8 14	11/21/2022 12/01/2022 12/01/2022 11/03/2022 12/01/2022 12/01/2022	\$2.01 \$0.41 \$1.08 \$0.99 \$0.88 \$5.34
- - - - - - - - - - - - - - - - - - -	MRVL CM JCI KR ULTA IOT	Dell Technologies Inc. Marvell Technology, Inc. Canadian Imperial Bank of Commerce Johnson Controls International plc Kroger Company (The) Ulta Beauty, Inc. Samsara Inc.	\$53,866,347,837 \$48,230,520,000 \$35,880,237,696 \$35,669,179,382 \$31,714,632,652 \$20,417,582,172 \$14,331,365,607	Oct/2023 Oct/2023 Oct/2023 Sep/2023 Oct/2023 Oct/2023 Oct/2023	\$1.23 \$0.24 \$1.13 \$1.09 \$0.90 \$4.96	5 13 4 7 8 14 5	11/21/2022 12/01/2022 12/01/2022 11/03/2022 12/01/2022 12/01/2022	\$2.01 \$0.41 \$1.08 \$0.99 \$0.88 \$5.34 (\$0.11)
- 2) ♦ 2) 2) 2) 2) 2) 2)	MRVL CM JCI KR ULTA IOT AEG	Dell Technologies Inc. Marvell Technology, Inc. Canadian Imperial Bank of Commerce Johnson Controls International plc Kroger Company (The) Ulta Beauty, Inc. Samsara Inc. Aegon Ltd.	\$53,866,347,837 \$48,230,520,000 \$35,880,237,696 \$35,669,179,382 \$31,714,632,652 \$20,417,582,172 \$14,331,365,607 \$14,260,713,279	Oct/2023 Oct/2023 Oct/2023 Sep/2023 Oct/2023 Oct/2023 Oct/2023 Sep/2023	\$1.23 \$0.24 \$1.13 \$1.09 \$0.90 \$4.96 (\$0.10)	5 13 4 7 8 14 5 N/A	11/21/2022 12/01/2022 12/01/2022 11/03/2022 12/01/2022 12/01/2022 12/01/2022 11/10/2022	\$2.01 \$0.41 \$1.08 \$0.99 \$0.88 \$5.34 (\$0.11) (\$0.10)
- シ シ シ シ シ シ シ ン シ	MRVL CM JCI KR ULTA IOT AEG PATH	Dell Technologies Inc. Marvell Technology, Inc. Canadian Imperial Bank of Commerce Johnson Controls International plc Kroger Company (The) Ulta Beauty, Inc. Samsara Inc. Aegon Ltd. UiPath, Inc.	\$53,866,347,837 \$48,230,520,000 \$35,880,237,696 \$35,669,179,382 \$31,714,632,652 \$20,417,582,172 \$14,331,365,607 \$14,260,713,279 \$10,484,654,720	Oct/2023 Oct/2023 Oct/2023 Sep/2023 Oct/2023 Oct/2023 Oct/2023 Sep/2023 Oct/2023	\$1.23 \$0.24 \$1.13 \$1.09 \$0.90 \$4.96 (\$0.10) (\$0.10)	5 13 4 7 8 14 5 N/A 4	11/21/2022 12/01/2022 12/01/2022 11/03/2022 12/01/2022 12/01/2022 11/10/2022 12/01/2022	\$2.01 \$0.41 \$1.08 \$0.99 \$0.88 \$5.34 (\$0.11) (\$0.10) (\$0.09)
Ð	MRVL CM JCI KR ULTA IOT AEG PATH ESTC	Dell Technologies Inc. Marvell Technology, Inc. Canadian Imperial Bank of Commerce Johnson Controls International plc Kroger Company (The) Ulta Beauty, Inc. Samsara Inc. Aegon Ltd. UiPath, Inc. Elastic N.V.	\$53,866,347,837 \$48,230,520,000 \$35,880,237,696 \$35,669,179,382 \$31,714,632,652 \$20,417,582,172 \$14,331,365,607 \$14,260,713,279 \$10,484,654,720 \$7,493,628,142	Oct/2023 Oct/2023 Oct/2023 Sep/2023 Oct/2023 Oct/2023	\$1.23 \$0.24 \$1.13 \$1.09 \$0.90 \$4.96 (\$0.10) (\$0.10) (\$0.34)	5 13 4 7 8 14 5 N/A 4 8	11/21/2022 12/01/2022 12/01/2022 11/03/2022 12/01/2022 12/01/2022 11/10/2022 12/01/2022 11/10/2022	\$2.01 \$0.41 \$1.08 \$0.99 \$0.88 \$5.34 (\$0.11) (\$0.10) (\$0.09) (\$0.50)

Economy

		Impact	Actual Dev	Consense	us Previous	
	THURSDAY, NOVEMBER 30					
08:00 = USD	OPEC Meeting			SPEECH		Ļ.
13:30 USD	Continuing Jobless Claims(Nov 17)		-	-	- 1.84M	Ļ
13:30 USD	Core Personal Consumption Expenditures - Price Index (MoM)(Oct)		-	- 0.2	% 0.3%	Û.
13:30 = USD	Core Personal Consumption Expenditures - Price Index (YoY)(Oct)		-	- 3.5	% 3.7%	Ļ.
13:30 = USD	Initial Jobless Claims(Nov 24)		-	- 220	К 209К	Ļ.
13:30 = USD	Initial Jobless Claims 4-week average(Nov 24)		-	-	- 220K	Ϋ́.
13:30 = USD	Personal Consumption Expenditures - Price Index (MoM)(Oct)		-	- 0.1	% 0.4%	$\bigcap_{\bar{v}}$
13:30 = USD	Personal Consumption Expenditures - Price Index (YoY)(Oct)		-	- 3	% 3.4%	Ļ
13:30 USD	Personal Income (MoM)(Oct)		-	- 0.2	% 0.3%	Ϋ́.
13:30 = USD	Personal Spending(Oct)		-	- 0.2	% 0.7 %	$\hat{\Box}$
14:05 USD	Fed's Williams speech			SPEECH		Ŷ
14:45 USD	Chicago Purchasing Managers' Index(Nov)		-	- 45	.4 44	${\displaystyle \bigwedge_{\bar{w}}}$
15:00 USD	Pending Home Sales (MoM)(Oct)		-	2	% 1.1%	Ļ
15:00 USD	Pending Home Sales (YoY)(Oct)		-	-	11%	Ļ.
15:30 USD	EIA Natural Gas Storage Change(Nov 24)		-	8	B -7B	Ţ
16:30 = USD	4-Week Bill Auction		-	-	- 5.3%	Ŷ
Time Event		. Income at		•		
		Impact	Actual Dev	Consense	us Previous	
	THURSDAY, NOVEMBER 30	Impact	Actual Dev	Consense	us Previous	
08:00 = USD	THURSDAY, NOVEMBER 30 OPEC Meeting	Impact	Actual Dev	SPEECH	us Previous	Ļ
			Actual Dev		- 1.84M	
13:30 USD	OPEC Meeting		- -		- 1.84M	۵.
13:30 USD 13:30 USD 13:30 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct)		-	SPEECH	- 1.84M % 0.3%	¢ ¢
13:30 USD 13:30 USD 13:30 USD 13:30 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24)		-	<i>SPEECH</i> - - 0.2	 1.84M 0.3% 3.7% X 209K 	4 4 4
13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24) Initial Jobless Claims 4-week average(Nov 24)		-	SPEECH - - - 0.2 - 3.5	 1.84M 0.3% 3.7% 209K 220K 	
13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24) Initial Jobless Claims 4-week average(Nov 24) Personal Consumption Expenditures - Price Index (MoM)(Oct)		-	SPEECH - 0.2 - 3.5 - 2200 - - 0.1	 1.84M 0.3% 3.7% X 209K 220K 0.4% 	
13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24) Initial Jobless Claims 4-week average(Nov 24) Personal Consumption Expenditures - Price Index (MoM)(Oct) Personal Consumption Expenditures - Price Index (YoY)(Oct)		-	SPEECH - -	 1.84M 0.3% 3.7% 3.7% 209K 220K 0.4% 3.4% 	
13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24) Initial Jobless Claims 4-week average(Nov 24) Personal Consumption Expenditures - Price Index (MoM)(Oct) Personal Consumption Expenditures - Price Index (YoY)(Oct)		-	SPEECH - 0.2	 1.84M 0.3% 3.7% 209K 220K 0.4% 3.4% 0.3% 	
13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24) Initial Jobless Claims 4-week average(Nov 24) Personal Consumption Expenditures - Price Index (MoM)(Oct) Personal Consumption Expenditures - Price Index (YoY)(Oct) Personal Income (MoM)(Oct)			SPEECH - -	 1.84M 0.3% 3.7% 209K 220K 0.4% 3.4% 0.3% 	
13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD 13:30 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24) Initial Jobless Claims 4-week average(Nov 24) Personal Consumption Expenditures - Price Index (MoM)(Oct) Personal Consumption Expenditures - Price Index (YoY)(Oct)			SPEECH - 0.2	 1.84M 0.3% 3.7% 209K 220K 0.4% 3.4% 0.3% 	
13:30 USD 14:05 USD 14:45 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24) Initial Jobless Claims 4-week average(Nov 24) Personal Consumption Expenditures - Price Index (MoM)(Oct) Personal Consumption Expenditures - Price Index (YoY)(Oct) Personal Income (MoM)(Oct) Personal Income (MoM)(Oct) Fed's Williams speech Chicago Purchasing Managers' Index(Nov)			SPEECH - - <td> 1.84M 0.3% 3.7% 209K 220K 0.4% 3.4% 0.3% 0.7% </td> <td></td>	 1.84M 0.3% 3.7% 209K 220K 0.4% 3.4% 0.3% 0.7% 	
13:30 USD 14:05 USD 14:45 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24) Initial Jobless Claims 4-week average(Nov 24) Personal Consumption Expenditures - Price Index (MoM)(Oct) Personal Consumption Expenditures - Price Index (YoY)(Oct) Personal Income (MoM)(Oct) Personal Spending(Oct) Fed's Williams speech			SPEECH - - <td> 1.84M 0.3% 3.7% 209K 220K 0.4% 3.4% 0.3% 0.7% 4 44 1.1% </td> <td>ム (小 (小 (小 (小 (小 (小 (小 (小 (小 (小</td>	 1.84M 0.3% 3.7% 209K 220K 0.4% 3.4% 0.3% 0.7% 4 44 1.1% 	ム (小 (小 (小 (小 (小 (小 (小 (小 (小 (小
13:30 USD 14:05 USD 14:45 USD 15:00 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24) Initial Jobless Claims 4-week average(Nov 24) Personal Consumption Expenditures - Price Index (MoM)(Oct) Personal Consumption Expenditures - Price Index (YoY)(Oct) Personal Income (MoM)(Oct) Personal Income (MoM)(Oct) Fed's Williams speech Chicago Purchasing Managers' Index(Nov)			SPEECH - 0.2 SPEECH - - 45	 1.84M 0.3% 3.7% 209K 220K 0.4% 0.4% 3.4% 0.3% 0.7% 4 	ム (小 (小 (小 (小 (小 (小 (小 (小 (小 (小
13:30 USD 14:05 USD 14:45 USD 15:00 USD	OPEC Meeting Continuing Jobless Claims(Nov 17) Core Personal Consumption Expenditures - Price Index (MoM)(Oct) Core Personal Consumption Expenditures - Price Index (YoY)(Oct) Initial Jobless Claims(Nov 24) Initial Jobless Claims 4-week average(Nov 24) Personal Consumption Expenditures - Price Index (MoM)(Oct) Personal Consumption Expenditures - Price Index (YoY)(Oct) Personal Income (MoM)(Oct) Personal Spending(Oct) Fed's Williams speech Chicago Purchasing Managers' Index(Nov)			SPEECH - 0.2 SPEECH - - 45	 1.84M 0.3% 3.7% 209K 220K 0.4% 3.4% 0.3% 0.7% 4 44 1.1% -11% 	

Market Trading Update

Another day of market sloppiness as get ready to close out the month today. The market started off strong yesterday morning but faded into the afternoon, even as bond yields fell below 4.3%. Speaking of bonds, the recent move has gotten ahead of itself, so if you are trading bonds, this would be an ideal time to take some profits and look for a yield reversal for the next buy. I suspect that between now and the Fed meeting in December, we will get either some economic news or comments from the Fed that reinforce their inflationary concerns. Such would reverse the recent

selloff in bonds, providing a better entry point to increase exposure heading into 2024.

From a technical perspective, bonds have cleared the important 50 and 100-DMA, with a bullish cross of the 20-DMA above the 50-DMA. If bonds can hold the current level, the next major target will be the 200-DMA. As noted, expect a pullback with the MACD and RSI levels reaching more overbought short-term levels. Any correction that holds the 20-DMA will be a bullish setup for another rally to ensue. There is a lot of overhead resistance between 100 and 110 on the iShares 20+ Year Treasury Bond ETF chart below. However, a move above those levels will be great for bondholders but most likely will occur consistent with the onset of a recession.



17 TradingView



Munger?s Wisdom

There are hundreds of quotes attributable to Charlie Munger. While he often spoke about his investments and the fundamental and market traits he seeks in companies when investing, he also shared a lot of wisdom on life. Accordingly, we share just a tiny handful of his quotes. If you want more, Google Charlie Munger, and you will be overwhelmed with the amount of accessible knowledge he has shared in his lifetime.

- There is no better teacher than history in determining the future? There are answers worth billions of dollars in a history book.
- There are three ways to go broke: ?liquor, ladies, and leverage?
- In my whole life, I have known no wise people who didn?t read all the time ? none, zero.
- A great business at a fair price is superior to a fair business at a great price
- I think that every time you see the word EBITDA, you should substitute the words ?bullshit earnings?
- All intelligent investing is value investing, acquiring more than you are paying for
- Mimicking the herd invites regression to the mean
- You must force yourself to consider opposing arguments. Especially when they challenge your best-loved ideas
- You need patience, discipline, and agility to take losses and adversity without going crazy
- Most people are too fretful, they worry too much. Success means being very patient, but aggressive when it?s time
- Live within your income and save so that you can invest. Learn what you need t

Government Spending Drives GDP

Third quarter GDP was revised higher by 0.3% to 5.2%. Such is the strongest quarterly growth in almost two years. Making the revision interesting is that personal consumption, which accounts for two-thirds of GDP on average, was revised 0.4% lower to +3.6%. However, making up for the revision is government spending, which grew at 5.5%. Within that, defense spending surged 8.2%. While the Fed may not like such strong economic growth, the data is old. Recent economic data point to much slower growth. For example, the Atlanta Fed GDPNOW forecasts 2.1% growth for Q4. The Fed should like the revision to the core price component. It now stands at +2.3%. Consequently, as graphed below, it is near the Fed?s 2% target and in the pre-pandemic range.

Real GDI was reported at +1.5%, well below +5.2% for GDP. The third graph below shows this is the widest gap in at least 50 years. We discussed this divergence after the second quarter GDP report. It has widened further in the latest quarter. As we wrote in <u>GDI or GDP</u>:

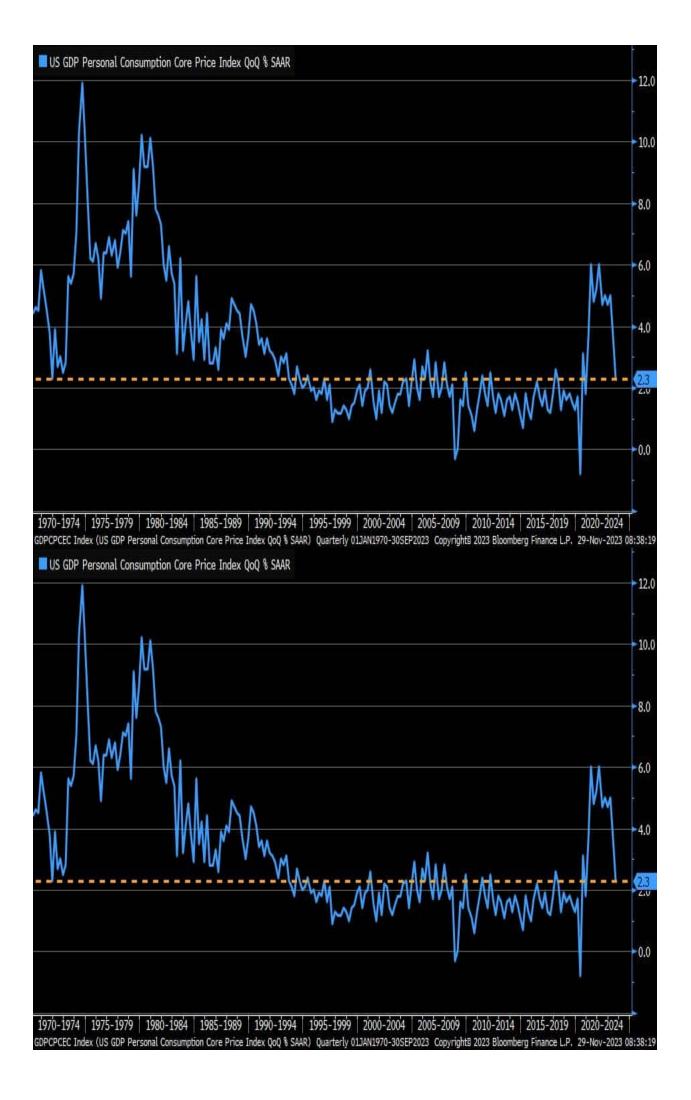
We are concerned that significant differences between GDP and GDI tend to occur before recessions

We followed up in Economic Data Points Diverge as follows:

Therefore, given that GDI measures the income side of the equation (derived from production), it is logical that GDI should track pretty closely to GDP over time. Furthermore, it should be logical that deviations between production and consumption should indicate a shift in the economic underpinnings.

Therefore, robust economic activity will continue and show up in GDI in the coming quarters. Conversely, as is typical, GDI tends to lead the way and signals weak economic growth ahead.

Our take: the bulls will say, ? What recession?? while the realists will point out that GDP is a lagging indicator.

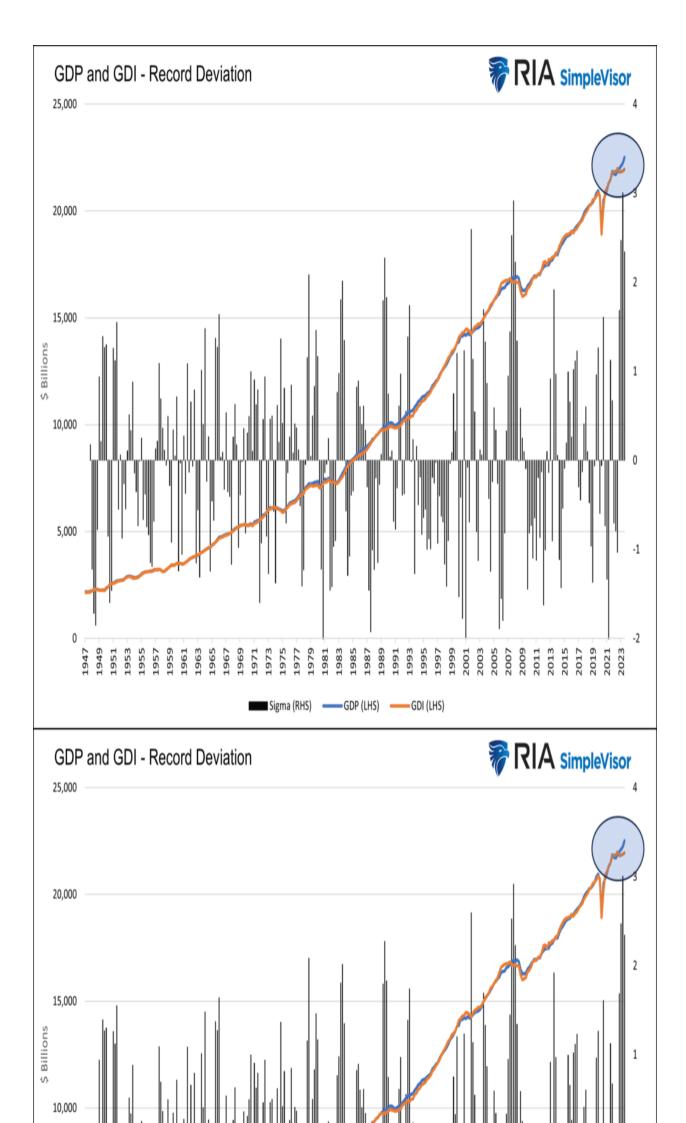


GDP components								
	% of GDP	3Q23	2Q23	1Q23	4Q22			
Consumer spending	68.8%	3.6%	0.8%	3.8%	1.2%			
Government spending	17.1%	5.5%	3.3%	<mark>4.8</mark> %	5.3%			
Federal: 6.6%		7.0%	1.1%	5.2%	9.8%			
State/local: 10.4%		4.6%	4.7%	4.6%	2.8%			
• Net exports of goods and services*	-4.2%	0.0	0.0	0.6	0.26			
Exports: 11.1%		6.0%	-9.3%	6.8%	-3.5%			
Imports: -15.3%		5.2%	-7.6%	1.3%	-4.3%			
Fixed investment	17.7%	2.4%	5.2%	3.1%	-5.4%			
Nonresidential: 14.6%		1.3%	7.4%	5.7%	1.7%			
Residential: 3.3%		6.2%	-2.2%	-5.3%	-24.9%			
Change in private inventories*		1.4	0.0	-2.2	1.6			
	Real GDP	5.2%	2.1%	2.2%	2.6%			

Source: Charles Schwab, Bureau of Economic Analysis, as of 3Q2023. Components based on real GDP annualized q/q % change. *Represents contribution to percent change in real GDP. Numbers may not add up to 100% due to rounding.

GDP components							
	% of GDP	3Q23	2Q23	1Q23	4Q22		
Consumer spending	68.8%	3.6%	0.8%	3.8%	1.2%		
Government spending	17.1%	5.5%	3.3%	<mark>4.8</mark> %	5.3%		
Federal: 6.6%		7.0%	1.1%	5.2%	9.8%		
State/local: 10.4%		4.6%	4.7%	4.6%	2.8%		
• Net exports of goods and services*	-4.2%	0.0	0.0	0.6	0.26		
Exports: 11.1%		6.0%	-9.3%	6.8%	-3.5%		
Imports: -15.3%		5.2%	-7.6%	1.3%	-4.3%		
Fixed investment	17.7%	2.4%	5.2%	3.1%	-5.4%		
Nonresidential: 14.6%		1.3%	7.4%	5.7%	1.7%		
Residential: 3.3%		6.2%	-2.2%	-5.3%	-24.9%		
Change in private inventories*		1.4	0.0	-2.2	1.6		
	Real GDP	5.2%	2.1%	2.2%	2.6%		

Source: Charles Schwab, Bureau of Economic Analysis, as of 3Q2023. Components based on real GDP annualized q/q % change. *Represents contribution to percent change in real GDP. Numbers may not add up to 100% due to rounding.



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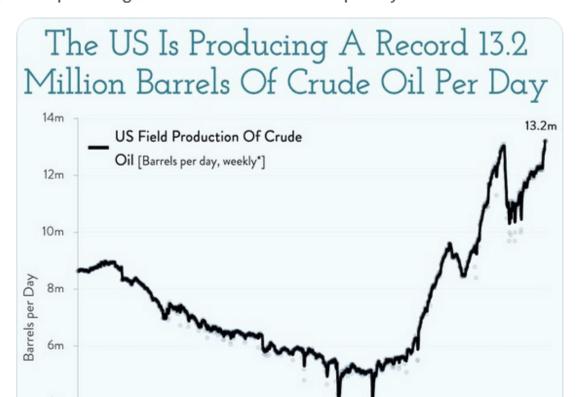
US is producing a record amount of crude oil per day:

The US Is Producing A Record 13.2 Million Barrels Of Crude Oil Per Day 14m 13.2m US Field Production Of Crude Oil [Barrels per day, weekly*] 12m 10m Barrels per Day 8m 6m 4m 2m 0m 2003 1983 1993 2013 2023 chartr *Line = 4-week moving average Source: US Energy Information Administration

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