



March 2023 Preliminary Economic Forecast

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This forecast is based on a modified version of IHS Markit's February 2023 Control forecast for the U.S. economy. We have adjusted real gross domestic product (GDP) to be consistent with the February Blue Chip "Consensus" GDP forecast for 2023 and 2024. We expect real GDP to increase 0.7% in 2023 and 1.2% in 2024 compared to the 0.2% and 1.5% growth rates assumed in the November forecast. Our forecast for real GDP growth in 2025-27 is based on the most recent long term forecast from Blue Chip which was released in October 2022. As in November, we expect growth rates of 2.1%, 2.1%, and 1.9% in 2025 through 2027. The forecast assumes three quarters of negative growth from the fourth quarter of 2022 to the third quarter of 2023 with a peak-to-trough decline of 0.3%.

Our oil price forecast reflects the futures markets for the Brent (North Sea) oil price and West Texas Intermediate (WTI) benchmarks. This forecast was based on the Wednesday, February 22, 2023 closing prices for Brent and WTI futures. Oil prices are lower than in the November forecast, especially in the near term. As in November, oil prices are expected to decline throughout the forecast. The latest futures prices indicate that the refiner acquisition price of crude oil will average \$75 per barrel in the second quarter of 2023 compared to \$83 in the November forecast. By the fourth quarter of 2027 the refiner acquisition price of crude is now expected to average \$64 per barrel compared to \$66 in the November forecast.

A comparison of the preliminary March U.S. forecast with the November U.S. forecast is shown in Table 2.

We have two months of new Washington employment data since the November forecast was released. Total seasonally adjusted nonfarm payroll employment increased 16,300 in November and December which was 3,800 more than the forecasted increase of 12,500. Private services-providing sectors added 11,400 jobs in the two-month period. The manufacturing sector added 200 jobs despite the loss of 600 jobs in aerospace manufacturing. Construction employment increased by 600 jobs in November and December. State and local government employment rose by 4,700 jobs but federal government employment declined by 700 jobs.

Revisions to employment data added 4,900 (0.1%) to the estimated level of total employment in October 2022. The combined effect of the upward revision to historical data and the stronger employment growth in November and December is that December employment is 8,800 (0.2%) higher than expected in the November forecast.

Washington's unemployment rate increased for a third consecutive month in December. Washington's seasonally adjusted unemployment rate increased to 4.2% (SA) in December from 4.0% in November, 3.8% in October, and 3.7% in September. The September rate matched a record low in the series that dates to 1976.

In December, the U.S. Department of Commerce, Bureau of Economic Analysis (BEA) released state personal income estimates for the third quarter of 2022. Washington personal income in the third quarter of 2022 was \$3.5 billion (0.6%) lower than in the November forecast. Wages and salaries were \$0.8 billion (0.3%) lower than expected and nonwage income was \$2.7 billion (1.0%) lower than expected.

Washington housing construction continued to slow in the fourth quarter of 2022 and early 2023. The number of housing units authorized by building permits declined from 58,300 (SAAR) in the first quarter to 55,800 in the second quarter, 44,800 units in the third quarter, and 38,200 in the fourth quarter. Fourth quarter permits consisted of 15,200 single-family units and 23,000 multi-family units. The November forecast assumed 41,500 units for the fourth quarter. Permits continued to decline in January 2023 when 30,500 units (SAAR) were permitted consisting of 13,600 single-family units and 16,900 multi-family units.

We expect a 1.4% increase in Washington employment this year up from the 0.9% growth rate expected in the November forecast. We expect slower growth during the remainder of the forecast as the U.S economy slows. We expect employment growth to average 0.7% per year in 2024 through 2027 which is slightly lower than the 0.9% average rate in the November forecast. Our forecast for nominal personal income growth this year is 4.3%, down from 5.4% in the November forecast. Our new forecast for nominal personal income growth in 2024 through 2027 averages 5.1% per year which is which is the same average rate as in the November forecast.

A comparison of the preliminary March Washington forecast with the November Washington forecast is shown in Table 3.

Table 1
U.S. Economic Forecast Comparison
February 2023

	2022Q4	2023Q1	2023Q2	2023Q3	2022	2023	2024	2025	2026	2027
Real GDP, Percent Change, Annual Rate										
ERFC (Preliminary March)	2.9	-0.3	-0.6	-0.2	2.1	0.7	1.2	2.1	2.1	1.9
IHS	2.9	-1.3	-0.2	0.7	2.1	0.7	1.6	2.0	1.8	1.6
Economy.com	2.9	-0.4	1.0	1.8	2.1	1.3	2.2			
Blue Chip Average*		-0.1	-0.5	-0.1		0.7	1.2	2.1	2.1	1.9
Blue Chip Top 10*		1.2	1.2	1.8		1.5	2.0	2.5	2.4	2.2
Blue Chip Bottom 10*		-1.5	-2.3	-2.3		0.1	0.3	1.7	1.8	1.7
Real Consumption, Percent Change, Annual Rate										
ERFC (Preliminary March)	2.1	0.7	0.0	0.0	2.8	1.0	1.1	2.2	2.2	2.1
IHS	2.1	-0.1	0.4	0.7	2.8	1.0	1.1	1.7	1.9	2.1
Economy.com	2.1	1.0	1.5	2.1	2.8	1.7	2.3			
Blue Chip Average*		0.8	0.1	0.1		1.0	1.1	2.2	2.2	2.1
Blue Chip Top 10*		1.9	1.6	1.8		1.7	2.0	2.6	2.5	2.3
Blue Chip Bottom 10*		-0.3	-1.3	-1.6		0.4	0.0	1.8	1.9	1.9
Federal Funds Rate										
ERFC (Preliminary March)	3.7	4.5	5.0	5.1	1.7	4.9	4.4	3.0	2.6	2.6
IHS	3.7	4.5	5.0	5.1	1.7	4.9	4.4	3.0	2.6	2.6
Economy.com	3.6	4.5	4.8	4.8	1.7	4.8	4.2			
Three Month T-Bill Rate										
ERFC (Preliminary March)	4.0	4.7	4.8	4.8	2.0	4.8	4.1	2.7	2.4	2.4
IHS	4.0	4.6	4.8	4.8	2.0	4.8	4.0	2.7	2.4	2.4
Blue Chip Average*		4.7	4.9	4.8		4.7	3.7	2.6	2.4	2.4
Blue Chip Top 10*		4.9	5.1	5.2		5.0	4.7	3.3	2.9	2.8
Blue Chip Bottom 10*		4.5	4.4	4.1		4.1	2.6	2.0	1.9	2.0
10-Yr. T-Note Yield										
ERFC (Preliminary March)	3.8	3.6	3.6	3.5	3.0	3.5	3.3	3.1	3.2	3.2
IHS	3.8	3.6	3.7	3.6	3.0	3.6	3.4	3.2	3.2	3.2
Economy.com	3.8	3.7	4.0	4.1	3.0	4.0	3.9			
Blue Chip Average*		3.7	3.7	3.6		3.6	3.3	3.2	3.1	3.2
Blue Chip Top 10*		3.9	4.1	4.1		4.0	3.9	3.7	3.6	3.6
Blue Chip Bottom 10*		3.5	3.3	3.1		3.1	2.7	2.7	2.7	2.8
Consumer Price Index, Percent Change, Annual Rate										
ERFC (Preliminary March)	3.1	2.6	3.1	2.7	8.0	3.6	2.1	1.9	2.0	2.1
IHS	3.1	3.2	3.5	3.1	8.0	4.0	2.3	2.2	2.1	2.2
Economy.com	3.1	3.5	3.3	2.5	8.0	3.9	2.4			
Blue Chip Average*		3.4	3.1	2.8		3.6	2.4	2.2	2.2	2.2
Blue Chip Top 10*		5.3	4.2	3.4		4.2	2.8	2.5	2.4	2.4
Blue Chip Bottom 10*		2.0	1.9	2.0		2.8	2.0	2.0	2.0	2.0
Payroll Employment, Millions										
ERFC (Preliminary March)	154.3	155.3	155.1	154.3	152.6	154.6	153.5	153.8	154.2	155.2
Percent Change, Annual Rate	2.5	2.6	-0.5	-1.9	4.3	1.3	-0.7	0.1	0.3	0.6
IHS	154.3	155.2	155.0	154.3	152.6	154.6	153.8	154.1	154.7	155.1
Percent Change, Annual Rate	2.5	2.3	-0.5	-1.7	4.3	1.3	-0.5	0.2	0.4	0.3
Economy.com	154.3	155.2	155.4	155.5	152.6	155.4	156.0			
Percent Change, Annual Rate	2.5	2.4	0.6	0.2	4.3	1.8	0.4			
Unemployment Rate, Percent										
ERFC (Preliminary March)	3.6	3.4	3.7	4.2	3.6	3.9	4.7	4.6	4.4	4.2
IHS	3.6	3.4	3.7	4.2	3.6	3.9	4.6	4.5	4.4	4.4
Economy.com	3.6	3.4	3.4	3.5	3.6	3.5	3.9			
Blue Chip Average*		3.6	3.9	4.2		4.0	4.6	4.1	4.1	4.1
Blue Chip Top 10*		3.8	4.3	4.9		4.5	5.3	4.5	4.5	4.4
Blue Chip Bottom 10*		3.4	3.5	3.7		3.6	3.9	3.7	3.7	3.7
Real Disposable Personal Income, Percent Change, Annual Rate										
ERFC (Preliminary March)	3.3	5.8	0.9	2.7	-6.4	2.7	3.2	3.3	2.6	2.8
IHS	3.3	5.1	0.6	2.8	-6.4	2.6	3.3	2.8	2.6	2.6
Blue Chip Average*		2.7	0.8	1.5		1.7	2.1	2.2	2.0	2.0
Blue Chip Top 10*		5.8	2.3	3.4		2.9	3.5	2.5	2.3	2.2
Blue Chip Bottom 10*		-0.3	-1.1	-0.6		0.4	0.9	1.8	1.8	1.8
West Texas Intermediate										
ERFC (Preliminary March)	82.8	76.2	74.2	74.0	94.8	74.3	70.9	68.0	65.4	63.0
IHS	82.8	80.2	81.7	83.7	94.8	83.0	80.7	83.5	84.2	86.4
Economy.com	82.6	80.7	88.3	85.6	94.4	84.3	72.8			

* Forecasts beyond 2023 are from the October 2022 Blue Chip Economic Indicators

Table 2

U.S. Forecast Comparison

	2022Q4	2023Q1	2023Q2	2023Q3
Real GDP (Billions of 2012 Dollars)				
March Forecast, Preliminary	20,198	20,183	20,152	20,144
Percent Change	2.9%	-0.3%	-0.6%	-0.2%
November Forecast	19,987	19,964	19,959	19,993
Percent Change	-0.7%	-0.5%	-0.1%	0.7%
Real Consumption (Billions of 2012 Dollars)				
March Forecast, Preliminary	14,252	14,278	14,279	14,279
Percent Change	2.1%	0.7%	0.0%	0.0%
November Forecast	14,156	14,157	14,168	14,200
Percent Change	0.2%	0.0%	0.3%	0.9%
PCE Price Index (2012=100)				
March Forecast, Preliminary	124.7	125.5	126.2	127.0
Percent Change	3.2%	2.4%	2.5%	2.5%
November Forecast	125.2	126.3	126.9	127.7
Percent Change	4.8%	3.5%	2.2%	2.4%
Real Personal Income (Billions of 2012 Dollars)				
March Forecast, Preliminary	17,777	17,871	17,852	17,876
Percent Change	2.6%	2.1%	-0.4%	0.5%
November Forecast	17,789	17,828	17,878	17,951
Percent Change	1.7%	0.9%	1.1%	1.7%
Nonfarm Payroll Employment (Millions)				
March Forecast, Preliminary	154.3	155.3	155.1	154.3
Percent Change	2.5%	2.6%	-0.5%	-1.9%
November Forecast	153.4	153.4	152.6	151.7
Percent Change	1.7%	0.0%	-2.0%	-2.2%
Unemployment Rate (Percent of Labor Force)				
March Forecast, Preliminary	3.6	3.4	3.7	4.2
November Forecast	3.7	4.0	4.5	5.1
Oil Price, Refiner's Acquisition				
March Forecast, Preliminary	83.7	76.7	75.1	74.5
November Forecast	87.7	85.8	82.9	80.6
30 Year Fixed Mortgage Rate (Percent, average)				
March Forecast, Preliminary	6.6	6.3	6.3	6.2
November Forecast	7.0	7.0	6.8	6.6
3 Month T-Bill Rate (Percent, average)				
March Forecast, Preliminary	4.0	4.7	4.8	4.8
November Forecast	3.9	4.5	4.7	4.6

	2021	2022	2023	2024	2025	2026	2027
March Forecast, Preliminary	19,610	20,018	20,163	20,406	20,835	21,272	21,676
Percent Change	5.9%	2.1%	0.7%	1.2%	2.1%	2.1%	1.9%
November Forecast	19,610	19,957	19,993	20,293	20,719	21,154	21,556
Percent Change	5.9%	1.8%	0.2%	1.5%	2.1%	2.1%	1.9%
March Forecast, Preliminary	13,754	14,140	14,283	14,442	14,760	15,085	15,402
Percent Change	8.3%	2.8%	1.0%	1.1%	2.2%	2.2%	2.1%
November Forecast	13,754	14,108	14,194	14,407	14,724	15,048	15,364
Percent Change	8.3%	2.6%	0.6%	1.5%	2.2%	2.2%	2.1%
March Forecast, Preliminary	115.6	122.8	126.6	129.2	131.7	134.2	136.8
Percent Change	4.0%	6.2%	3.1%	2.1%	1.9%	1.9%	1.9%
November Forecast	115.6	122.9	127.3	130.1	132.5	134.9	137.4
Percent Change	4.0%	6.3%	3.6%	2.2%	1.8%	1.8%	1.9%
March Forecast, Preliminary	18,427	17,695	17,883	18,209	18,718	19,205	19,759
Percent Change	3.3%	-4.0%	1.1%	1.8%	2.8%	2.6%	2.9%
November Forecast	18,427	17,721	17,921	18,330	18,837	19,354	19,868
Percent Change	3.3%	-3.8%	1.1%	2.3%	2.8%	2.7%	2.7%
March Forecast, Preliminary	146.3	152.6	154.6	153.5	153.8	154.2	155.2
Percent Change	2.9%	4.3%	1.3%	-0.7%	0.1%	0.3%	0.6%
November Forecast	146.1	152.0	152.3	152.0	153.2	154.2	154.8
Percent Change	2.8%	4.0%	0.2%	-0.2%	0.8%	0.6%	0.4%
March Forecast, Preliminary	5.4	3.6	3.9	4.7	4.6	4.4	4.2
November Forecast	5.4	3.7	4.7	5.0	4.5	4.2	4.1
March Forecast, Preliminary	67.5	95.2	75.0	71.5	68.6	66.3	64.2
November Forecast	67.5	96.4	82.0	75.1	71.2	68.4	66.2
March Forecast, Preliminary	3.0	5.4	6.2	5.6	5.0	5.0	4.9
November Forecast	3.0	5.4	6.7	5.6	5.0	4.9	4.8
March Forecast, Preliminary	0.0	2.0	4.8	4.1	2.7	2.4	2.4
November Forecast	0.0	2.0	4.6	4.0	2.7	2.4	2.3

Table 3

Washington Forecast Comparison

	2022Q4	2023Q1	2023Q2	2023Q3
Real Personal Income (Billions of 2012 Dollars)				
March Forecast, Preliminary	479.4	481.7	481.7	482.8
Percent Change	3.6%	2.0%	0.0%	1.0%
November Forecast	481.3	483.0	485.3	488.0
Percent Change	2.6%	1.5%	1.9%	2.3%
Personal Income (Billions of Dollars)				
March Forecast, Preliminary	597.8	604.4	608.1	613.3
Percent Change	6.9%	4.5%	2.5%	3.5%
November Forecast	602.4	609.9	616.0	623.1
Percent Change	7.6%	5.0%	4.1%	4.7%
Disposable Personal Income (Billions of Dollars)				
March Forecast, Preliminary	510.4	522.8	528.2	536.4
Percent Change	7.4%	10.0%	4.3%	6.3%
November Forecast	515.3	527.2	535.0	544.7
Percent Change	9.3%	9.6%	6.1%	7.5%
Nonfarm Payroll Employment (Thousands)				
March Forecast, Preliminary	3590	3601	3596	3583
Percent Change	3.4%	1.2%	-0.5%	-1.4%
November Forecast	3584	3586	3574	3560
Percent Change	2.7%	0.2%	-1.3%	-1.5%
Unemployment Rate (Percent of Labor Force)				
March Forecast, Preliminary	4.0	4.2	4.4	4.8
November Forecast	3.9	4.2	4.7	5.2
Manufacturing Employment (Thousands)				
March Forecast, Preliminary	276.8	277.5	277.2	276.1
Percent Change	3.4%	1.0%	-0.4%	-1.6%
November Forecast	276.7	278.6	278.2	276.2
Percent Change	3.4%	2.8%	-0.6%	-2.8%
Construction Employment (Thousands)				
March Forecast, Preliminary	239.5	238.4	233.1	230.1
Percent Change	4.5%	-1.8%	-8.7%	-5.1%
November Forecast	240.1	237.6	233.1	229.6
Percent Change	5.8%	-4.2%	-7.3%	-5.8%
Housing Permits (Thousands)				
March Forecast, Preliminary	38.2	35.8	39.8	40.8
Percent Change	-47.5%	-22.3%	53.0%	9.7%
November Forecast	41.5	42.4	42.5	42.9
Percent Change	-24.5%	8.6%	1.3%	3.5%

	2021	2022	2023	2024	2025	2026	2027
Real Personal Income (Billions of 2012 Dollars)							
March Forecast, Preliminary	494.1	477.2	482.9	494.7	511.5	527.8	545.7
Percent Change	4.1%	-3.4%	1.2%	2.5%	3.4%	3.2%	3.4%
November Forecast	494.1	478.4	486.9	500.8	516.9	533.6	550.5
Percent Change	4.1%	-3.2%	1.8%	2.9%	3.2%	3.2%	3.2%
Personal Income (Billions of Dollars)							
March Forecast, Preliminary	570.9	585.9	611.4	639.4	673.5	708.4	746.5
Percent Change	8.2%	2.6%	4.3%	4.6%	5.3%	5.2%	5.4%
November Forecast	570.9	588.0	619.9	651.6	684.9	719.6	756.3
Percent Change	8.2%	3.0%	5.4%	5.1%	5.1%	5.1%	5.1%
Disposable Personal Income (Billions of Dollars)							
March Forecast, Preliminary	504.4	500.2	533.2	566.4	598.9	629.8	663.2
Percent Change	6.5%	-0.8%	6.6%	6.2%	5.7%	5.2%	5.3%
November Forecast	504.4	502.0	540.3	575.8	605.6	636.3	669.4
Percent Change	6.5%	-0.5%	7.6%	6.6%	5.2%	5.1%	5.2%
Nonfarm Payroll Employment (Thousands)							
March Forecast, Preliminary	3363	3540	3590	3594	3624	3659	3699
Percent Change	2.4%	5.3%	1.4%	0.1%	0.9%	1.0%	1.1%
November Forecast	3363	3538	3570	3585	3628	3667	3701
Percent Change	2.4%	5.2%	0.9%	0.4%	1.2%	1.1%	0.9%
Unemployment Rate (Percent of Labor Force)							
March Forecast, Preliminary	5.3	4.0	4.6	5.1	5.0	4.7	4.6
November Forecast	5.3	4.0	4.9	5.2	4.8	4.5	4.4
Manufacturing Employment (Thousands)							
March Forecast, Preliminary	259.2	272.0	275.9	267.6	265.3	266.0	268.7
Percent Change	-4.6%	4.9%	1.5%	-3.0%	-0.9%	0.3%	1.0%
November Forecast	259.2	271.9	276.7	271.8	271.4	271.9	272.5
Percent Change	-4.6%	4.9%	1.8%	-1.8%	-0.1%	0.2%	0.2%
Construction Employment (Thousands)							
March Forecast, Preliminary	223.4	236.0	233.2	230.8	231.3	234.5	236.9
Percent Change	4.5%	5.7%	-1.2%	-1.0%	0.2%	1.4%	1.1%
November Forecast	223.4	236.1	232.8	230.5	229.6	230.3	232.2
Percent Change	4.5%	5.7%	-1.4%	-1.0%	-0.4%	0.3%	0.9%
Housing Permits (Thousands)							
March Forecast, Preliminary	56.9	49.3	39.6	44.0	46.7	45.9	45.6
Percent Change	29.8%	-13.5%	-19.7%	11.2%	6.2%	-1.7%	-0.8%
November Forecast	56.9	50.7	42.8	46.1	47.5	46.2	45.3
Percent Change	29.2%	-11.0%	-15.6%	7.8%	2.9%	-2.8%	-2.0%