

September 2018 Preliminary Economic Forecast

CONTACT: Bret Bertolin, Senior Economist

PHONE: 360.534.1566

This forecast is based on a modified version of IHS Markit's August 2018 Control forecast for the U.S. economy. As usual, we have adjusted real gross domestic product (GDP) to match the Blue Chip "Consensus" GDP forecast. As in June, the August Blue Chip forecast for real GDP growth in 2018 and 2019 was 2.9% and 2.6%. The Blue Chip long-range forecast has not been updated since June and remains at 1.9%, 1.9%, 2.1% and 2.1% in 2020 through 2023.

Our oil price forecast reflects the futures markets, primarily the Brent (North Sea) oil price but also the West Texas Intermediate (WTI) benchmark. This forecast was based on the Wednesday, August 29, 2018 closing prices for Brent and WTI futures. The latest futures prices are slightly higher than the prices used in the June forecast. The refiner acquisition price of crude oil in the fourth quarter of 2018 is now expected to average \$71 per barrel compared to \$69 in the June forecast. By the end of 2023, the refiner acquisition price is now expected to average \$59 per barrel compared to \$56 in the June forecast.

A comparison of the preliminary September U.S. forecast with the June U.S. forecast is shown in Table 2.

We have two months of new Washington employment data since the June forecast was released. Total nonfarm payroll employment rose 18,100 (seasonally adjusted) in June and July, which was 6,300 more than the 11,800 expected in the June forecast. The variance in employment growth was mostly due to the private services-providing sectors, which added 15,300 jobs compared to 9,400 in the June forecast. Manufacturing employment increased 1,700 in June and July boosted by an increase of 1,300 aerospace employees. Construction employment decreased by 500 jobs while government payrolls expanded by 1,600 jobs.

We have also incorporated another quarter of benchmark employment data from the Quarterly Census of Employment and Wages (QCEW). The new QCEW data and other revisions increased the estimated level of total employment in May 2018 by 13,400 jobs (0.4%). As a result of the upward revision to history and stronger-than-expected growth, the combined effect is 19,600 (0.6%) more jobs in July 2018 than expected in the June forecast.

In June, after the forecast was released, the Bureau of Economic Analysis released estimates for state personal income through the first quarter of 2018. We have incorporated the new BEA estimates as well as additional Washington QCEW and other wage data. Our current estimate of Washington personal income in the first quarter of 2018 is \$441.8\$ billion, which is \$5.0\$ billion (1.1%) higher than assumed in the June forecast. The new estimate of wage and salary income is \$5.6\$ billion higher than expected and nonwage income is \$0.6\$ billion lower.

Washington housing construction declined in the second quarter of 2018 and fell short of the June forecast. The number of housing units authorized by building permits decreased to 43,200 units (SAAR) in the second quarter of 2018 from 49,200 units in the first quarter. Second quarter permits were made up of 23,000 single-family units and 20,200 multi-family units. The June forecast assumed 46,700 units (SAAR) in the second quarter, consisting of 24,400 single-family units and 22,300 multi-family units. Permits remained weak in July at 35,400 units (SAAR) of which 21,800 were single-family units and 13,700 were multi-family units. The June forecast expected 42,800 units in the third quarter as a whole, consisting of 23,600 single-family units and 19,300 multi-family units.

Washington employment is expected to grow 3.0% this year compared to 2.5% in the June forecast. As in June, we expect growth to decelerate gradually as the recovery matures. We expect employment growth to average 1.2% per year in 2019 through 2023, which is slightly stronger than the 1.1% per year expected in the June forecast. Our forecast for nominal personal income growth this year is 6.6%, up from 5.8% in the June forecast, due mainly to an upward revision to first quarter growth. Our new forecast for nominal personal income growth in 2019 through 2023 averages 4.9% per year compared to 5.1% per year in the June forecast.

A comparison of the preliminary September Washington forecast with the June Washington forecast is shown in Table 3.

Table 1 **U.S. Economic Forecast Comparison**

	2018Q2	2018Q3	2018Q4	2019Q1
al CDP Percent Change Anni	ual Pato			
l GDP, Percent Change, Annı RFC (Preliminary September)	4.1	3.3	2.8	2.3
HS	4.1	3.2	3.2	2.5
onomy.com	4.1	3.7	3.4	2.6
lue Chip Average*		3.1	2.8	2.4
Blue Chip Top 10*		3.6	3.3	2.9
Blue Chip Bottom 10*		2.6	1.9	1.7
Consumption Borsont Cha	A	al Data		
al Consumption, Percent Char ERFC (Preliminary September)	n ge, A nnu 4.0	2.7	2.6	2.5
IHS	4.0	2.6	2.7	2.3
Economy.com	4.0	2.6	2.6	2.6
Blue Chip Average*		2.7	2.5	2.3
Blue Chip Top 10*		3.2	2.9	2.6
Blue Chip Bottom 10*		2.3	2.1	1.7
ederal Funds Rate	4 7	1.0	2.2	2.4
ERFC (Preliminary September)	1.7	1.9	2.2	2.4
IHS Economy com	1.7 1.7	1.9 2.0	2.2 2.3	2.4 2.7
Economy.com	1.7	2.0	2.3	2.7
ree Month T-Bill Rate				
ERFC (Preliminary September)	1.8	2.1	2.4	2.5
IHS	1.8	2.1	2.4	2.5
Blue Chip Average*	-	2.1	2.3	2.5
Blue Chip Top 10*		2.2	2.4	2.6
Blue Chip Bottom 10*		2.0	2.1	2.3
0-Yr. T-Note Yield				
ERFC (Preliminary September)	2.9	3.0	3.1	3.2
IHS	2.9	3.0	3.1	3.2
Economy.com	2.9	3.1	3.2	3.4
Blue Chip Average* Blue Chip Top 10*		3.0 3.2	3.1 3.3	3.2 3.5
Blue Chip Bottom 10*		2.9	2.9	2.9
Bide emp Bottom 10		2.3	2.5	2.5
onsumer Price Index, Percent	Change, A	nnual Ra	te	
ERFC (Preliminary September)	1.7	2.7	2.6	2.1
IHS	1.7	2.7	2.7	2.7
1113				
Economy.com	1.7	2.8	2.4	2.6
		2.8 2.4		
Economy.com			2.4	2.6
Economy.com Blue Chip Average* Blue Chip Top 10*		2.4	2.4 2.2	2.6 2.3
Economy.com Blue Chip Average* Blue Chip Top 10* Blue Chip Bottom 10*		2.4 2.9	2.4 2.2 2.8	2.6 2.3 2.9
Economy.com Blue Chip Average* Blue Chip Top 10* Blue Chip Bottom 10* yroll Employment, Millions	1.7	2.4 2.9 1.9	2.4 2.2 2.8 1.6	2.6 2.3 2.9 1.6
Economy.com Blue Chip Average* Blue Chip Top 10* Blue Chip Bottom 10* wroll Employment, Millions ERFC (Preliminary September)	1.7	2.4 2.9 1.9	2.4 2.2 2.8 1.6	2.6 2.3 2.9 1.6
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Economy.com Blue Chip Average* Blue Chip Top 10* Blue Chip Bottom 10* Avyroll Employment, Millions ERFC (Preliminary September) Percent Change, Annual Rate IHS Percent Change, Annual Rate Economy.com Percent Change, Annual Rate Economy.com Percent Change, Annual Rate Economy.com Blue Chip Average* Blue Chip Average* Blue Chip Bottom 10* Blue Chip Average* Blue Chip Average* Blue Chip Bottom 10* Blue Chip Average* Blue Chip Bottom 10* Blue Chip Average* Blue Chip Bottom 10* Blue Chip Average* Blue Chip Average* Blue Chip Average* Blue Chip Bottom 10* Blue Chip Bottom 10* Blue Chip Bottom 10*	1.7 148.7 1.7 148.7 1.7 148.7 1.8 3.9 3.9 3.9 3.9 3.9	2.4 2.9 1.9 149.4 1.8 149.4 1.8 149.3 1.5 3.8 3.8 3.8 3.9 3.7 t Change, 1.4 2.4 3.2	2.4 2.2 2.8 1.6 150.0 1.7 150.0 1.8 149.9 1.8 3.6 3.7 3.7 3.9 3.6 , Annual 1.5 1.5 2.4 3.3	2.6 2.3 2.9 1.6 150.5 1.4 150.6 1.5 150.5 1.5 3.6 3.5 3.5 3.6 3.8 3.4 Rate 3.6 3.3 2.7 4.0
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st Forecasts beyond 2018 are from the March 2018 Blue Chip Economic Indicators

Table 2

J.S. Forecast Comparison				
	2018Q2	2018Q3	2018Q4	2019Q1
Real GDP (Billions of 2012 Dolla	rs)			
September Forecast, Preliminary	18,507	18,657	18,789	18,897
Percent Change	4.1%	3.3%	2.8%	2.3%
June Forecast	18,445	18,582	18,710	18,820
Percent Change	3.5%	3.0%	2.8%	2.4%
Real Consumption (Billions of 20	12 Dollars	s)		
September Forecast, Preliminary	12,848	12,932	13,015	13,094
Percent Change	4.0%	2.7%	2.6%	2.5%
June Forecast	12,901	12,988	13,071	13,148
Percent Change	3.1%	2.7%	2.6%	2.4%
PCE Price Index (2012=100)				
September Forecast, Preliminary	108.0	108.6	109.2	109.7
Percent Change	1.8%	2.2%	2.2%	2.0%
June Forecast	108.1	108.7	109.2	109.7
Percent Change	2.0%	2.0%	2.0%	1.8%
Real Personal Income (Billions o	of 2012 Do	llars)		
September Forecast, Preliminary	16,204	16,262	16,332	16,471
Percent Change	2.4%	1.4%	1.7%	3.4%
June Forecast	14,821	14,898	15,013	15,151
Percent Change	2.0%	2.1%	3.1%	3.7%
Nonfarm Payroll Employment (M	lillions)			
September Forecast, Preliminary	148.7	149.4	150.0	150.5
Percent Change	1.7%	1.8%	1.7%	1.4%
June Forecast	148.6	149.2	149.8	150.3
Percent Change	1.4%	1.7%	1.6%	1.3%
Unemployment Rate (Percent of	Labor For	ce)		
September Forecast, Preliminary	3.9	3.8	3.6	3.6
June Forecast	3.9	3.8	3.6	3.6
Oil Price, Refiner's Acquisition				
September Forecast, Preliminary	67.0	69.4	70.9	70.3
June Forecast	69.1	69.6	68.7	67.9
30 Year Fixed Mortgage Rate (Pe	ercent, ave	erage)		
September Forecast, Preliminary	4.5	4.6	4.8	4.9
June Forecast	4.5	4.6	4.7	4.8
3 Month T-Bill Rate (Percent, av	erage)			
September Forecast, Preliminary	1.8	2.1	2.4	2.5
June Forecast	1.9	2.1	2.3	2.4

Table 3
Washington Forecast Comparison

Washington Forecast Compariso	on									
	2018Q2	2018Q3	2018Q4	2019Q1	2017	2018	2019	2020	2021	202
Real Personal Income (Billions	of 2012 Do	llars)								
September Forecast, Preliminary	411.5	414.4	416.6	420.7	395.9	413.4	425.6	438.3	450.6	464.0
Percent Change	0.5%	2.9%	2.2%	3.9%	3.7%	4.4%	3.0%	3.0%	2.8%	3.0%
lune Forecast	408.5	411.2	414.8	418.9	395.8	410.1	423.3	435.6	448.4	461.4
Percent Change	2.4%	2.8%	3.5%	4.0%	3.9%	3.6%	3.2%	2.9%	2.9%	2.9%
Personal Income (Billions of Do	llars)									
September Forecast, Preliminary	444.4	450.0	455.0	461.6	420.0	447.8	470.4	494.0	517.1	541.8
Percent Change	2.4%	5.1%	4.5%	5.9%	5.6%	6.6%	5.1%	5.0%	4.7%	4.8%
lune Forecast	441.6	446.8	452.9	459.4	420.1	444.6	467.7	491.4	516.0	542.0
Percent Change	4.4%	4.8%	5.5%	5.8%	5.6%	5.8%	5.2%	5.1%	5.0%	5.0%
Disposable Personal Income (Bi	illions of D	ollars)								
September Forecast, Preliminary	397.8	402.7	406.9	413.0	374.2	400.6	421.0	442.4	462.6	483.6
Percent Change	2.7%	5.0%	4.3%	6.1%	5.6%	7.1%	5.1%	5.1%	4.6%	4.6%
une Forecast	392.9	397.4	403.0	408.9	372.3	395.3	416.6	437.7	458.7	480.5
Percent Change	5.0%	4.7%	5.7%	6.1%	5.0%	6.2%	5.4%	5.1%	4.8%	4.7%
Nonfarm Payroll Employment (1	[housands])								
September Forecast, Preliminary	3409	3436	3454	3471	3322	3421	3494	3544	3578	3610
Percent Change	2.7%	3.2%	2.1%	2.0%	2.4%	3.0%	2.1%	1.4%	0.9%	0.9%
June Forecast	3396	3414	3432	3448	3323	3405	3469	3517	3550	3578
Percent Change	2.2%	2.2%	2.1%	1.9%	2.4%	2.5%	1.9%	1.4%	1.0%	0.8%
Jnemployment Rate (Percent o	f Labor For	ce)								
September Forecast, Preliminary	4.7	4.6	4.4	4.3	4.8	4.6	4.2	4.2	4.3	4.3
une Forecast	4.7	4.6	4.4	4.3	4.8	4.6	4.3	4.3	4.4	4.5
lanufacturing Employment (Th	ousands)									
September Forecast, Preliminary	285.5	287.9	289.7	290.9	283.8	286.8	291.4	292.7	294.3	296.8
Percent Change	1.9%	3.5%	2.5%	1.7%	-2.1%	1.1%	1.6%	0.5%	0.5%	0.9%
lune Forecast	285.9	287.1	288.7	289.8	283.8	286.6	290.8	293.2	295.3	296.7
Percent Change	1.4%	1.7%	2.2%	1.5%	-2.1%	1.0%	1.5%	0.8%	0.7%	0.5%
Construction Employment (Thou	usands)									
September Forecast, Preliminary	211.6	211.7	212.3	212.8	199.7	211.1	213.3	214.6	214.1	213.4
Percent Change	5.5%	0.3%	1.0%	0.9%	7.0%	5.7%	1.1%	0.6%	-0.2%	-0.3%
une Forecast	210.7	211.9	212.4	213.1	199.7	210.8	213.9	215.0	214.8	214.1
Percent Change	4.8%	2.3%	1.0%	1.1%	7.0%	5.6%	1.4%	0.5%	-0.1%	-0.3%
Housing Permits (Thousands)										
September Forecast, Preliminary	43.2	40.1	43.0	43.4	45.8	43.9	43.9	44.3	43.4	42.3
Percent Change	-40.2%	-25.8%	32.0%	3.6%	3.9%	-4.2%	0.1%	0.8%	-2.1%	-2.6%
June Forecast	46.7	42.8	42.9	43.2	45.8	45.4	43.0	43.4	42.7	42.0
Percent Change	-18.6%	-29.2%	0.8%	2.3%	3.9%	-0.8%	-5.3%	0.9%	-1.6%	-1.7%