Final Review of 2018 and Outlook for 2019 United States Economy

> Colorado-based Business and Economic Research Prepared February 28, 2019

Final Review of 2018 and Outlook for 2019 United States Economy

This chartbook expands on the 2019 cber.co U.S. and Colorado forecast that was released in early January. It can be found at <u>https://cber.co/economic-forecasts/cber-co-economic-forecast/</u>. It focuses only on the United States economy. This analysis provides additional support for the earlier forecast that the U.S. economy entered 2019 with enough momentum to ensure solid growth through the first half of the year and maybe longer.

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Between now and the end of March, cber.co will release the following reports. February and March are data intensive months for the Bureau of Labor Statistics.

- March 11th to March 18th Benchmark data and in-depth review for Colorado 2018
- March 22nd to March 29th Review of first two months of 2019.

Ten Highlights in the Final Review of 2018 and Outlook for 2019 United States Economy

- 1. There will be solid, but slower global and U.S. real GDP growth.
- 2. Unfortunately, global tensions are inevitable. Within the U.S. the current political polarization is not healthy for society or the economy.
- 3. In the U.S., there will be solid consumer and government spending in 2019 accompanied with modest business investment and slower construction activity. The economy may be slower in the second half of 2019, but there will not be a recession.
- 4. The rate of employment and wage growth will be solid, but less than 2018. The unemployment rate will decline slightly in 2019.
- 5. Inflation will remain near the Fed's target rate in 2019.

- 6. Debt can hinder or encourage economic growth; however, a strong case can be made there is too much public and consumer debt.
- The inventory to sales ratio, IPI, capacity utilization, durable goods orders point to solid growth. Manufacturing and retail sales are poised for modest growth in 2019.
- The Federal Reserve has been challenged to unwind the quantitative easing at the proper speed. The number of interest rate hikes in 2018 were cited as the cause of the collapse in the equity markets in December. There are likely to be fewer rate increases in 2019.
- 9. Housing prices are accelerating at a decreasing rate. Residential construction will slow in 2019.
- 10. Technology will continue to disrupt the energy industry. This will spill over into other sectors.

The Global Economy Real Gross Domestic Product

Real GDP Growth 2018 vs. 2019



Source: IMF (October 2018), The Conference Board (November 2018), cber.co.

Global Real GDP Growth



Quarterly Real GDP Growth Historical United States

Between 2010 and 2019, quarterly real GDP growth ranged from -1.0% to 5.1%.

The forecast for quarterly real GDP growth shows a downward trend starting in Q3 2018 that continues through 2019. The magnitude of the slowdown is not expected to be severe. It is unlikely a recession will occur in 2019.

As a result of the projected growth, there will be 23 consecutive quarters of positive growth since the last quarter of negative growth in 2014.



Source: Bureau of Economic Analysis, Table 1.1.1, Share of GDP based on 2017, cber.co.

U.S. Real GDP Growth C+I+G+X

The 2018 cber.co forecast called for U.S. real GDP growth to be 2.3% to 2.7%, with greater upside potential than downside risk. Real GDP for 2018 was 2.9%, slightly better than expected. Growth in 2018 was driven by tax cuts, which helped raise disposable income and personal spending.

The rate of Real GDP growth in 2019 is projected to be 2.6%.

The impacts of the tax cut will be diminished in 2019. There will be solid consumer and government spending in 2019 accompanied with modest business investment and slower construction activity. In addition, the impact of the government shutdown is projected to be 0.05 to 0.1 GDP percentage points for each week the government is shutdown.



Source: Bureau of Economic Analysis, cber.co.

U.S. Personal Consumption Expenditures

Personal consumption is the primary driver of the economy. It accounts for slightly less than 70% of the total GDP.

Personal consumption is expected to increase by 2.6% in 2019.

Business and consumer confidence will remain solid, which will translate into increased hiring, greater personal income, and increased spending.



Source: Bureau of Economic Analysis, cber.co.

U.S. Business Fixed Investment

Business fixed investment includes nonresidential structures, equipment, and intellectual property products.

Business (Nonresidential) fixed investment is expected to increase by 4.8% in 2019.

The primary factors preventing stronger growth are the slowing global economy, the waning benefits of the tax cuts, and the struggles companies face finding a gualified workforce.

Uncertainty is prevalent related to Brexit. In addition, the Chinese economy is slowing and tariffs have created problems in some industries. President Trump is expected to address the Chinese tariffs in the first half of 2019.



Source: Bureau of Economic Analysis, cber.co.

U.S. Business Fixed Investment

U.S. Residential

Even with a growing population and housing shortages in parts of the U.S., the construction industry will be challenged by higher input costs, higher interest rates, and the lack of qualified labor.

U.S. residential construction is expected to increase at a slightly higher rate in 2019.

Nationally, there will be a greater focus on entry-level housing as more millennials become home owners for the first time.



Source: Bureau of Economic Analysis, cber.co.

Government Spending

Government spending includes federal, state, and local spending.

In 2019, government spending will increase at its highest rate since 2009. The rate of growth in government spending will be 2.3%.



Output Control Control

Value Added by Industry as a Percentage of Total GDP



Source: Bureau of Economic Analysis. Note: Total does not equal 100% because of rounding.

Why is GDP Data Important?

Key Points:

- Almost ten years have passed since the trough of the Great Recession. The economy is on solid footing. There is greater downside risk than upside potential.
- The global GDP is slowing.
- The U.S. GDP had momentum going into 2019, although it is expected to slow in the second half of the year. The momentum may be diminished by the partial government shutdown.
- There will be solid consumer and government spending in 2019 accompanied with modest business investment and slower construction activity.
- The top 6 industries account for about 56% of total GDP: real estate; manufacturing; state and local government; professional, scientific, and technical services; finance and insurance; and healthcare.
- Mining, utilities, and agriculture are a small percentage of total employment and GDP; however, they are essential components of the U.S. economy.

The U.S. Economy

The R Word, Federal Reserve Leading and Coincident Indicators, CAB, the University of Michigan Consumer Sentiment Survey, and the NFIB survey.

The R Word Don't Panic! It Will Happen Soon Enough

When is the next recession?

During Q4, the volatility in the equities markets caused economists and members of the media to suggest the next recession was right around the corner. Some said it would be shallow, while other said it would be severe. Some said it wouldn't occur until 2020. In December 2018, this was a popular topic because the current business cycle is <u>very</u> mature.

Employment and real GDP growth is projected to increase at a slower rate in 2019, interest rates will increase slightly, the severe shortage of labor will continue. In addition, there is a high level of polarization and disgust with the leadership of the country.

Admittedly, there are challenges that are preventing the economy from growing at a faster pace, but at the moment there is little to suggest a recession will occur within the next year. While it is possible that terrorist attacks, natural disasters, or extended political unrest could cause a downturn, such events cannot be predicted.

The Sky Is Falling?

News Flash!! The sky is NOT falling. The U.S. and Colorado economies have momentum that should carry them through the first half of the year, if not longer, and it is likely there will be slower growth in the second half of the year. Check back for details in six months!



Forward Looking Indicators No Signs of a Recession

The leading and coincident indices produced by the Philadelphia Federal Reserve are two of many indicators that show the U.S. economy is on solid footing. In addition the Chemical Activity Barometer, Michigan Consumer Sentiment Survey, and the NFIB Optimism Index also suggest there is not a recession on the horizon.

Philadelphia Fed Coincident Index Colorado vs. U.S.

Philadelphia Federal Reserve Coincident Index – Colorado and U.S.

Index Value

150.00		
140.00 -	The Coincident Index - The Fed states the coincident index combines four state-level indicators to summarize current	—U.S.
130.00	economic conditions in a single statistic. These are nonfarm	Colorado
120.00	production workers, the unemployment rate, and wage and	
110.00	(U.S. city average). The trend for each state's index is set to the	
100.00	trend of its gross domestic product (GDP), so long-term growth in the state's index matches long-term growth in its GDP.	
90.00		
80.00		
70.00		In 2017 and 2018, the U.S. and Colorado coincident indices showed continued growth, although they have grown at a
60.00		slower rate in recent months. The Colorado index (red) is
50.00		Increasing at a faster rate than the U.S. Index (blue) and has done so since the end of the Great Recession.
40.00		
16	702 130 4 1300 1300 1330 1332 1334 1330 1330 2	

Source: Philadelphia Federal Reserve, cber.co. Note: The leading index predicts the six-month growth rate of the U.S. and state's coincident index.

Philadelphia Fed Leading Index Colorado vs. U.S.

Philadelphia Federal Reserve Leading Index – Colorado and U.S.



Source: Philadelphia Federal Reserve, cber.co. Note: The leading index predicts the six-month growth rate of the U.S. and state's coincident index.

Change in Chemical Activity Barometer Compared to Industrial Production

3 MMA YOY Percentage Change in CAB vs Industrial Production



Source: American Chemistry Council, cber.co.

University of Michigan Consumer Sentiment



Source: University of Michigan, cber.co.

NFIB Small Business Optimism Index

NFIB Small Business Optimism Index



Source: NFIB, cber.co.

Is a Recession on the Horizon?

Key Points:

- A recession is unlikely in 2019. This is supported by the five indicators in this section, as well a majority of the indicators in this chartbook.
- There are a variety of legitimate reasons the economy is likely to lose momentum in the second half of the year; however, a slower rate of growth does not mean a downturn or recession.

The U.S. Economy

Employment, Multiple Job Holders, Hires and Separations, Openings and Hires, Unemployment Rate, and Labor Force Participation Rate

Annual Change in U.S. Employment

The U.S. added slightly more than 2.4 million jobs in 2018.

Two million jobs will be added in 2019, or an average of about 170,000 per month.

The average change in employment for the 2010s is 1,973,000, slightly greater than the 1970s. During the 1990s the change in average annual employment was 2,119,000.

The <u>average</u> annual change in millions (red lines) by decade follows:

- 1.9 from 1970 to 1979.
- 1.8 from 1980 to 1989.
- 2.1 million from 1990 to 1999.
- 0.2 million from 2000 to 2009.
- 1.9 million from 2010 to 2019.



Annual Change in U.S. Employment

Source: Bureau of Labor Statistics, NSA; cber.co.

Multiple Jobholders Primary Job Full Time, Secondary Job Part Time



Source: FRED, BLS, NSA, cber.co.

5.900 hires (red). During periods of expansion 2018. this pattern is reversed. 5,500

U.S. Hires and Separations



Hires and Separations



Source: Bureau of Labor Statistics, SA; cber.co.

Thousands

6,300

U.S. Job Openings and Hires

Job Openings and Hires

7,500 Hires The number of job openings (grey) 6,900 exceeded the number of hires (red) Job Openings from 2015 to 2018. This indicates 6,300 the demand for workers is greater 5,700 than the supply. 5,100 4,500 3,900 In late 2018 the number of 3,300 job openings (grey) reached record levels. 2,700 2.100 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2001 2002 2003 2004 2005 2006 2007 2008

Thousands

Source: Bureau of Labor Statistics, SA, cber.co.

Annual Change in U.S.

The annual unemployment rate for the U.S. will decline in 2019 to 3.6%. In the past 50 years only 1969 was lower at 3.5%.

The U.S. unemployment rate has declined since 2010 when it was 9.6%. The unemployment rate will be lower in 2019 as the labor participation rate continues to increase.

At present, the U.S. economy is "technically" not operating efficiently because of challenges caused by its low rate of unemployment and the lack of qualified workers.



Initial and Continuing Unemployment Claims 1990 to 2018



Source: FRED, Department of Labor, cber.co.

Labor Force Participation Rate Total, Men, Women, Age 25 to 54

Labor Force Participation Rate



Source: FRED, BLS, cber.co.

Take-Aways from the Employment Data

Key Points:

- Jobs are being added at a solid, but slower, rate than 2018.
- Unemployment is too low and the economy is operating inefficiently.
- The initial and continuing unemployment claims are continuing to decline. There is demand for workers.
- There are more job openings than there are hires. Again, there are not enough qualified workers.
- More people have multiple jobs. They may need a second job to make ends meet or they may see a second job as an opportunity to get ahead.
- The labor force participation rate for men is continuing to decline, while the rate for women and people between the ages of 25 and 54 is increasing slightly.

The U.S. Economy

Average Weekly Wages, Hours Worked, Inflation, and Real Median Household Income

Colorado-based Business and Economic Research http://cber.co

Source: Bureau of Labor Statistics, SA, cber.co. Note: Wages do not include benefits.

U.S. Average Weekly Wage Growth



Average Weekly Hours Worked – Private Total Workers, Service Producing Manufacturing

Average Weekly Hours Worked



Source: Bureau of Labor Statistics, SA, cber.co.

Colorado vs. U.S.



Source: Bureau of Labor Statistics, SA, cber.co.
Consumer Price Index (CPI) and PCE Deflator

1982-84=100.

Between 2000 and 2018, the CPI has usually been greater than the PCE. The CPI is projected to increase by 2.3% in 2019, while the PCE deflator will rise by 1.8%.

Both indices reflect a lower rate of growth in 2019, because housing prices are expected to increase at a slower rate. Rising input prices, cause by higher interest rates and wage increases, will put upward pressure on the indices in 2019.

The Fed's target rate of 2.0% is tied to the PCE deflator.





Source: Bureau of Labor Statistics, FRED, St. Louis Federal Reserve, cber.co.

Real Median Household Income (CPI-U-RS Adjusted Dollars,

Not Seasonally Adjusted)

The most current household income data shows that in 1999 (red circle) U.S. real median household income was \$1,310 less than 2017 (\$60,062 vs.\$61,372).

Between 1984 and 2017 the real median HHI increased 18 times and decreased 15 times.

In the 33 years between 1984 and 2017, real median household income increased at an annualized rate of 0.59%. Between 2010 and 2017 real median HHI increased at an annualized rate of 1.4%.



Source: Federal Reserve, FRED, cber.co

What are the Take-Aways from the Labor and Employment Data?

Key Points:

- At last, wages are increasing.
- That is a mixed blessing. If wages increase too much over a short period, they may cause inflation. On the other hand, increased wages often result in increased consumption.
- A strong work week is an indication there is demand for goods and services and workers.
- Increased wages contribute to greater median HHI. In turn, this results in greater consumption and savings.
- Caution must be used in evaluating wage data to make sure there is an apples-to-apples comparison. For example, data that includes benefits can tell a different story that data that does not include benefits.



U.S. Federal Government Debt



U.S. Public Debt as a Percent of GDP



• U.S. Consumer Credit Owned and Securitized and Outstanding



Source: FRED, Federal Reserve, G.19, SA.

U.S. Loans Outstanding Student Loans vs. Motor Vehicle Loans

\$ Trillions Student and Motor Vehicle Loans Outstanding \$1.60 Student loans increased from \$480 billion in Q1 2006, to \$1.57 trillion in Q4 2018. During that same period motor vehicle loans increased from \$780 billion \$1.40 to \$1.16 trillion. Recent reports indicated the amount of student loan debt has reduced the number of millennials who are eligible for home loans. \$1.20 Prior to 2009, the total amount of motor vehicle loans (red) exceeded the amount of \$1.00 loans for student loans (blue). The trend was reversed that year. \$0.80 Between Q3 2010 and Q4 2018, the amount of students loan debt increased at an annualized \$0.60 Student Loans rate of 7.8% and motor vehicle loans increased at an annualized rate of 6.3%. Motor Vehicle Loans \$0.40 Jan-06 Jan-11 Jan-12 Jan-07 Jan-08 Jan-09 Jan-10 Jan-13 Jan-14 Jan-15 Jan-16 Jan-17

Source: FRED, cber.co.

U.S. Personal Savings Rate Percentage of Disposable Personal Income



Source: FRED, SA.

Is Debt Good or Bad?

Key Points:

- A recent revision of the savings data shows that consumers have been saving at a higher rate than previously anticipated.
- Debt is often justified if it is responsibly used to make purchases that stimulate consumption and growth.
- Debt is often criticized if debt service obligations prevent consumption and growth.
- Whether or not you believe debt is good for the economy, one thing is for sure consumer and government debt has increased!

"A national debt, if it is not excessive, will be to us a national blessing." -Alexander Hamilton

The U.S. Economy

Political Polarization and the Economy

Largest Gaps in Presidential Approval Republican vs. Democratic

It is not easy being the President of the United States, particularly given the divide in the country that began during Bill Clinton's presidency. The split in the country continued with Bush, Obama, and now Trump. Over time, this polarization has had a negative impact on society, business and political decision making, and the performance of the economy.

Largest Gaps in Republican vs. Democratic Approval of the President, Gallup Polls, 1945-2019				
	Year in office (dates)	% Approve, Republicans	% Approve, Democrats	Gap (pct. pts.)
Trump	2 (Jan '18-Jan '19)	87	8	79
Obama	8 (Jan '16-Jan '17)	12	89	77
Obama	4 (Jan '12-Jan '13)	10	86	76
G.W. Bush	4 (Jan '04-Jan '05)	91	15	76
Trump	1 (Jan '17-Jan '18)	83	8	75
Obama	7 (Jan '15-Jan '16)	10	83	73
G.W. Bush	5 (Jan '05-Jan '06)	86	14	72
Obama	5 (Jan '13-Jan '14)	11	82	71
Obama	6 (Jan '14-Jan '15)	9	79	70
G.W. Bush	6 (Jan '06-Jan '07)	79	9	70
Obama	2 (Jan '10-Jan '11)	13	81	68
Obama	3 (Jan '11-Jan '12)	12	80	68
G.W. Bush	7 (Jan '07-Jan '08)	73	7	66
Obama	1 (Jan '09-Jan '10)	23	88	65
Clinton	4 (Jan '96-Jan '97)	24	85	61

Source: Gallup, January 2019.



Key Points:

- The divide of Americans along ideological lines and political parties is deeper and more wide spread than any point since the late-1990s.
- The polarization trends affect all aspects of our life, ranging from dysfunction in society to the performance of the economy.

The U.S. Economy

Industry Performance – Productivity, Capacity Utilization, Industrial Production, Inventory to Sales Ratio, Household Debt as a Percentage of Disposable Income, Corporate Profits, Durable Goods Ordered

• U.S. Labor Productivity (Output per Hour) • Percent Change Same Quarter Prior Year Nonfarm Business



Source: Bureau of Labor Statistics, Major Sector Productivity (NonFarm Business) NSA, cber.co.

Capacity Utilization

Capacity Utilization



Source: FRED, Federal Reserve, cber.co.

Industrial Production Index

Industrial Production, All Industries



Source: FRED, Federal Reserve, cber.co.

Inventory to Sales Ratio

Inventory to Sales Ratio



Source: FRED, Census Bureau, cber.co.

Household Debt as a Percent of Disposable Income

Household Debt as a Percent of Disposable Income



Source: FRED, Census Bureau, cber.co.

After Tax (without IVA and CCAdj)

Corporate Profits After Tax



Source: FRED, BEA, cber.co.

Durable Goods Ordered

Durable Goods Ordered



Source: FRED, BEA, cber.co.

Why are the Industry Performance Metrics Important?

Key Points:

- Most of the industry performance measures point to solid economic growth going into 2019.
- Productivity levels are disappointing.
- Capacity utilization and industrial production were solid in 2018.
- The inventory to sales ratio showed that businesses are not overstocked with goods.
- Corporate profits continue to be solid.
- The level of durable goods ordered in 2018 should create momentum that will carry into 2019.

United States Economy S&P Performance and Volatility

Standard and Poor's 500 Index



Source: FRED, S&P 500, cber.co.

CBOE Volatility Index VIX (VIXCLS)



Source: FRED, Chicago Board Options Exchange, cber.co.

S&P Performance and Volatility

After an increase in volatility in Q4 2018, including a sharp decline in prices in December 2018, the market reversed in January and February, 2019. For that reason, this analysis looks at data for the S&P 500 and VIX through February 22nd.

Standard and Poor's 500 Index



Source: FRED, S&P 500, cber.co.





Source: FRED, Chicago Board Options Exchange, cber.co.

Why the Equity Markets are Important

Key Points:

- The equity markets are an important source of wealth, including retirement funds, and consumer confidence.
- December 2018 was one of the worst months for equity performance some thought the sky was falling. The Federal Reserve was "blamed" for causing the volatility in the markets by lowering interest rates.
- In early 2019, the Fed indicated they will be more cautious with their rate hikes in 2019. Shortly afterwards, the equity markets rebounded.

United States Economy Energy

Annual U.S. Crude Oil Production Thousand Barrels/Day



Source: EIA, cber.co.

Crude Oil Prices West Texas Intermediate



Source: FRED, EIA, cber.co.

Annual U.S. Dry Natural Gas Withdrawal and Production Million Cubic Feet



Source: EIA, cber.co.

Annual U.S. Production of Coal Million Short Tons



Source: EIA, cber.co.

U.S. Electricity Generation Projections



U.S. Electricity Generation from Selected Fuels

Renewable Electricity Generation, Including End Use 750 billion KWH in 2018 and 1.7 trillion in 2050



U.S. Fuels for Electricity Generation

Source: J.P. Morgan (October 2018), cber.co.

Global Vehicles Internal Combustion vs. Renewable Energy



Global Vehicles Internal Combustion vs. Renewable Energy

Source: J.P. Morgan (October 2018) cber.co.
• Why are the Energy Markets Important?

Key Points:

- EIA projects the U.S. will produce 12.4 million barrels of crude oil per day in 2019 and 13.2 million barrels per day in 2020. Production will occur primarily in the Permian Basin (Texas and New Mexico). The WTI price for a barrel of oil is estimated to be in the range of \$55 to \$60 in 2019 and 2020.
- The success of renewable energy will be driven by government policy.
- The adoption of electric vehicles will be driven by advancements in technology and it will require the use of rare and/or precious metals such as lithium, nickel, and cobalt.
- The adoption of renewables will be extremely disruptive. Unfortunately, it is not as simple as flipping on a light switch.

The U.S. Economy

Agriculture – Crops and Livestock Index and Exports

Farm Received and Paid Indexes Livestock

Livestock Farm Received and Paid Indexes



Source: NASS, cber.co, https://www.nass.usda.gov/Charts_and_Maps/Agricultural_Prices/lvskfarm.php.

Farm Received and Paid Indexes Crops

Crops Farm Received and Paid Indexes



Source: NASS, cber.co, https://www.nass.usda.gov/Charts_and_Maps/Agricultural_Prices/cropfarm.php.

Exports of U.S. Agricultural Products



Source: FRED, USDA FAS, cber.co.

• Why are the Agriculture Markets Important?

Key Points:

- The number of farmers and ranchers and their direct output is small compared to the importance of their profession. Everyone eats!
- The people who produce the food need to be paid fairly for the business risks they take and for their hard work that is a challenge!

The U.S. Economy

Housing Prices, Mortgage Rates, and Construction Outlook

Case Shiller Home Price Index National vs. Denver Index Value



Source: S&P Core-Logic Case-Shiller, cber.co.

Case Shiller Home Price Index National vs. Denver Rate of Change



Source: S&P Core-Logic Case-Shiller, cber.co.

30-Year Fixed Rate Mortgages



Source: FRED, Freddie MAC, cber.co.

Wells Fargo NAHB Market Index



Source: NAHB, cber.co.

New Single Family Building Permits



Source: FRED, U.S. Census Bureau, cber.co.

New Single Family Houses Sold



Source: FRED, U.S. Census Bureau, cber.co.

Total U.S. Construction Spending



Source: FRED, Census Bureau, not adjusted for inflation, cber.co.

• What are the Take-Aways from the Housing and Construction Markets?

Key Points:

- Energy, food (agriculture) and shelter (construction and housing) are listed as basic survival or physiological needs in Maslow's hierarchy of needs. As a result, there will always be demand for the goods and services in each of these three sectors.
- The rate of housing prices, as measured by the change in the Case-Shiller index, will continue to increase at a decreasing rate.
- The price of housing and the interest rates for housing loans will determine whether housing is affordable and attainable.
- In turn, this affects in-migration and construction spending and the building of new homes and new businesses.
- At best, the housing market is expected to see minimal growth in 2019.

The U.S. Economy

Manufacturing/Non-manufacturing Indices, Auto Sales, Retail Sales, Manufacturing Shipments, Exports, and the Trade Weighted Dollar

ISM PMI Composite Indices Manufacturing vs. Non-manufacturing



Sources: Institute for Supply Management (ISM), FRED, cber.co.

Cumulative Retail, Excluding Food Services Sales Monthly



Source: U.S. Census Bureau, FRED, cber.co. Note: Data is in descending order with December at the top and January at the bottom, not adjusted for inflation.

Output Service And Light Truck Sales Monthly (Annualized Rate Millions)



Onited States Manufacturing Shipments All Industries vs. Nondefense Capital, Excluding Aircraft



Source: FRED, SA. U.S. Bureau of the Census, cber.co. Note: Not adjusted for inflation.

Real Exports of U.S. Goods and Services





Source: FRED, The Federal Reserve, cber.co.

• What are the Take-Aways from a Look at • Other Industries?

Key Points:

- Many manufacturing jobs are primary jobs they bring in money from the outside for the creation of goods and services that are exported outside the region. As a result, they create indirect jobs (supply chain) and induced jobs (spending by employees for retail goods and services).
- The outlook for manufacturing and non-manufacturing jobs is positive.
- Manufacturing shipments continue to increase as Americans purchase manufactured goods.
- Exports of goods and services continue to increase.
- The value of the dollar is rising, which may dampen export sales.



U.S. Economy Summary of 2019 Expectations.

- 1. There will be solid, but slower global and U.S. real GDP growth in 2019.
- 2. Unfortunately, global tensions are inevitable. Within the U.S. the current political polarization is not healthy for society or the economy.
- 3. In the U.S., there will be solid consumer and government spending in 2019 accompanied with modest business investment and slower construction activity. The economy may be slower in the second half of 2019, but there will not be a recession.
- 4. The rate of employment and wage growth will be solid, but less than 2018. The unemployment rate will decline slightly in 2019.
- 5. Inflation will remain near the Fed's target rate in 2019.

- 6. Debt can hinder or encourage economic growth; however, a strong case can be made there is too much public and consumer debt. Debt will increase in 2019.
- 7. The inventory to sales ratio, IPI, capacity utilization, durable goods orders point to solid growth. Manufacturing and retail sales are poised for modest growth in 2019.
- 8. The Federal Reserve has been challenged to unwind the quantitative easing at the proper speed. The number of interest rate hikes in 2018 were cited as the cause of the collapse in the equity markets in December. There are likely to be fewer rate increases in 2019.
- 9. Housing prices are accelerating at a decreasing rate. Residential construction will slow in 2019.
- 10.Technology will continue to disrupt the energy industry in 2019. There will be winners and losers.

cber.co Final Review of 2018 and Outlook for 2019 United States Economy

This analysis is for informational purposes only. Any opinions or interpretations of data are those of the presenter. As such, they do not represent the viewpoints of any group or particular organization. For further information contact Colorado-based Business and Economic Research (cber.co).

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Gary Horvath has produced annual employment forecasts of the state economy for over 25 years. They have been supplemented by monthly economic updates and indices that track economic performance over the short term. In addition, he has directed three statewide analyses that included reviews of all 64 county economies.

Horvath was the principal investigator for a state and federally funded project to prepare a nanotechnology roadmap for Colorado. As well, he was a co-founder of the Colorado Photonics Industry Association, a trade group for Colorado's Photonics cluster. Horvath has been an active board member of the group since its inception.

Horvath has also served on the Board of Directors for the Economic Development Council of Colorado, Northwest Denver Business Partnership, Adams County Economic Development, and Broomfield Economic Development Corporation. Horvath has also been the lead for the photonics/electronics cluster in OEDIT's early stage and proof of concept grant program.