Economics Group

SECURITIES FARGO

Weekly Economic & Financial Commentary

U.S. Review

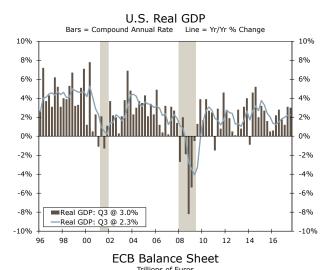
U.S. Manufacturing Strengthening with Global Growth

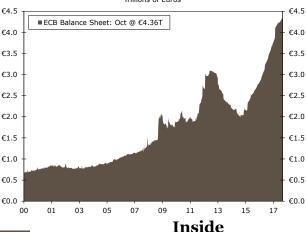
- Non-defense capital goods orders ex-aircraft, our preferred gauge of future business investment, rose a strong 1.3 percent in September, the third consecutive monthly gain of that size.
- New home sales rebounded 18.9 percent in September to a 667,000-unit annual rate, the highest level of new home sales since October 2007.
- Real GDP grew at a 3.0 percent annualized rate in Q3, topping expectations for a 2.6 percent gain. Given the possibility for hurricane-related noise in the quarterly data, the print appeared relatively devoid of head-scratching outliers.

Global Review

Less Policy Accommodation Slowly Coming Into View

- The ECB decided this week to "taper" its QE program further due, at least in part, to strong growth momentum. However, benign inflation means that any rate hikes are still some ways
- Stronger-than-expected U.K. GDP data in Q3 means that a rate hike by the Bank of England is likely at next week's Monetary Policy Committee meeting.
- The Bank of Canada remained on hold this week, but it continued to indicate that further tightening, albeit at a slow pace, is likely in the quarters ahead.





Wells Fargo U.S. Economic Forecast													
	Act	tual			Fore	cast			Act	ual		Forecast	t
		20	17			20	18		2015	2016	2017	2018	2019
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q					
Real Gross Domestic Product ¹	1.2	3.1	2.1	2.5	2.3	2.5	2.6	2.6	2.9	1.5	2.1	2.4	2.5
Personal Consumption	1.9	3.3	2.0	2.5	2.5	2.6	2.6	2.6	3.6	2.7	2.6	2.5	2.5
Inflation Indicators ²													
PCE Deflator	2.0	1.6	1.5	1.5	1.4	1.7	1.8	1.6	0.3	1.2	1.7	1.6	1.8
Consumer Price Index	2.6	1.9	2.0	1.9	1.6	2.2	2.3	1.9	0.1	1.3	2.1	2.0	2.1
Industrial Production ¹	1.5	5.7	-0.1	0.8	2.4	2.2	2.3	2.1	-0.7	-1.2	1.7	1.9	2.3
Corporate Profits Before Taxes 2	3.3	6.4	3.0	3.2	3.1	3.0	3.0	2.9	-1.1	-2.1	3.9	3.0	2.8
Trade Weighted Dollar Index ³	94.0	90.5	88.1	87.5	86.5	85.3	84.0	82.8	91.1	91.6	90.0	84.6	80.3
Unemployment Rate	4.7	4.4	4.3	4.3	4.2	4.1	4.0	4.0	5.3	4.9	4.4	4.1	3.9
Housing Starts ⁴	1.24	1.17	1.21	1.27	1.27	1.29	1.29	1.30	1.11	1.17	1.22	1.29	1.37
Quarter-End Interest Rates 5													
Federal Funds Target Rate	1.00	1.25	1.25	1.50	1.50	1.75	1.75	2.00	0.27	0.52	1.25	1.75	2.25
Conventional Mortgage Rate	4.20	3.90	3.81	3.89	3.95	4.02	4.05	4.10	3.85	3.65	3.95	4.03	4.17
10 Year Note	2.40	2.31	2.33	2.49	2.57	2.66	2.71	2.78	2.14	1.84	2.38	2.68	2.90

orecast as of: October 11, 2017

¹ Compound Annual Growth Rate Quarter-over-Quarter

U.S. Review 2 U.S. Outlook 3 Global Review 4 Global Outlook 5 Point of View 6 Topic of the Week Market Data

Source: U.S. Department of Commerce, U.S. Department of Labor, Federal Reserve Board, IHS Global Insight and Wells Fargo Securities

² Year-over-Year Percentage Change

Federal Reserve Major Currency Index, 1973=100 - Quarter End

U.S. Review

U.S. Manufacturing Strengthening with Global Growth

On Wednesday, preliminary data on durable goods orders in the United States showed a continued firming in factory sector data to end the third quarter. Durable goods orders rose 2.2 percent in September, boosted by another double-digit jump in the volatile civilian aircraft component. Communications equipment posted a suspiciously large gain, so there may have been some additional noise generated by the recent release of the new iPhone.

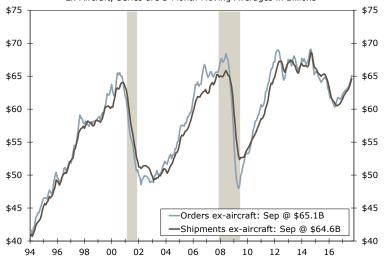
Non-defense capital goods orders ex-aircraft, our preferred gauge of future business investment, rose 1.3 percent in September, the third consecutive monthly gain of that size. This string of strong prints puts the three-month average annualized rate at 11.6 percent, the fastest pace of growth since the eve of the steep decline in the price of oil in September 2014. With three-quarters of the year in the books, the recovery in the factory sector that has taken place in 2017 has built momentum in the second half of the year (top chart). The strong dollar/weak global growth/falling commodity price story that characterized the past two years has reversed in 2017, turning these headwinds into tailwinds for the sector. Manufacturers have responded by increasing payrolls by 104,000 jobs this year.

Housing data this week were encouraging, as new home sales rebounded 18.9 percent in September to a 667,000-unit annual rate, the highest level of new home sales since October 2007. The new home sales series is notoriously volatile and has bounced around even more than usual due to the relatively low absolute level of sales. Sales surged 25.8 percent in the South and accounted for nearly 80 percent of September's increase. The number of homes for sale was unchanged, but the stronger sales pace cut the months' supply by a full month to 5.0 months. Homes priced for \$300,000 or more accounted for most of the sales gain, lifting both average and median home price measures (middle chart).

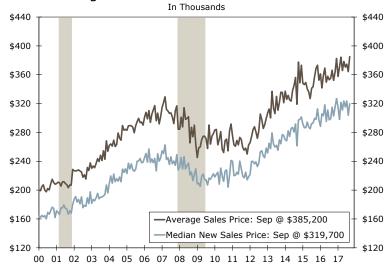
The advance release of third quarter GDP this morning capped the week of U.S. economic data. Given the possibility for hurricane-related noise in the quarterly data, the print appeared relatively devoid of head-scratching outliers. Real GDP grew at a 3.0 percent annualized rate in Q3, topping expectations for a 2.6 percent gain. Real personal consumption grew at a trend-like 2.4 percent in the quarter, while business equipment spending posted another solid quarter of growth (8.6 percent following an 8.8 percent gain in Q2). Residential construction saw a second quarterly decline, and government consumption and investment was slightly down, weighed down by the state & local component.

The firming global growth environment and softer dollar have helped boost economic growth in the United States. International trade once again added positively to growth, boosting the headline real GDP number by 0.4 percentage points amid a 2.3 percent gain in exports and a small decline in imports. Net exports have been additive to growth in all three quarters of the year so far, the first string of three consecutive boosts to growth since a stretch that ran from mid-2012 through Q1-2013 (bottom chart).

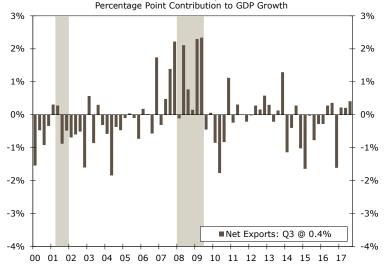
Nondefense Capital Goods Orders vs. Shipments Ex-Aircraft, Series are 3-Month Moving Averages in Billions



Average and Median New Home Sale Price



Real Net Exports



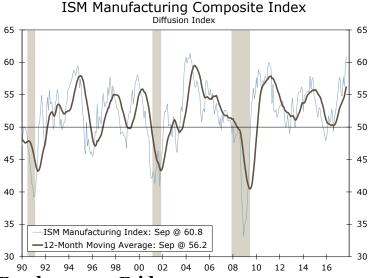
Source: U.S. Department of Commerce and Wells Fargo Securities

Personal Income • Monday

After increasing 0.2 percent in August, personal income growth is expected to strengthen 0.5 percent in September. Wage growth has improved in recent months, including a solid rise in hourly earnings in September. We also expect to see some support from income earned on financial assets, as the stock market hit a fresh high in September.

After adjusting for inflation, the pickup in income will look less impressive. The PCE deflator, the Fed's preferred measure of inflation, likely rose 0.4 percent last month. Much of the rise can be traced to higher energy prices, while core inflation is expected to rise only 0.1 percent. Spending will have also gotten a lift from higher energy prices, as well as strong auto sales. We forecast personal spending to have risen 0.7 percent in September.

Previous: 0.2% (Month-over-Month) Wells Fargo: 0.5% Consensus: 0.4%



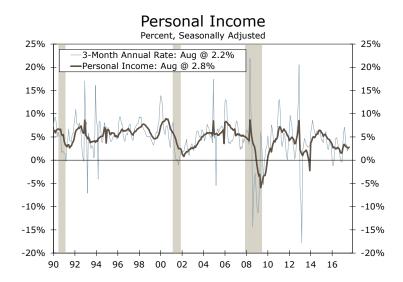
Employment • Friday

Last month's 33,000 decline in employment snapped a nearly seven-year string of uninterrupted job growth. The decline in employment was attributable to the recent hurricanes having disrupted hiring plans and preventing some jobholders from working during the survey period. Those distortions should be largely unwound in October, however. Initial jobless claims have fallen back below 240,000, the level that prevailed in the months leading into hurricane season.

We expect to see hiring rebound to 280,000 in October as employers catch up on hiring and workers return to their jobs. The unemployment rate, however, is anticipated to tick up to 4.3 percent following last month's suspiciously large 906,000-jump in household employment.

Previous: -33,000 Wells Fargo: 280,000

Consensus: 310,000



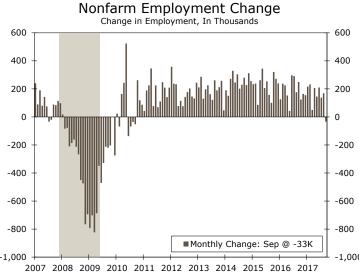
ISM Manufacturing • Wednesday

Last month's ISM manufacturing index climbed to a 13-year high of 60.8. That was in part driven by a surge in supplier delivery times following Hurricanes Harvey and Irma. Even stripping out the delivery component, however, the ISM manufacturing index has signaled strengthening activity. In addition to a rise in production and employment, the new orders index improved to 64.6 last month while backlogs have been growing this year at the strongest pace since the mid-2000s.

We expect the ISM manufacturing index to signal a slightly slower pace of growth in October. The lower reading will be driven by payback from the storm-related lengthening of delivery times last month. At 59.6, however, the ISM would be consistent with activity in the manufacturing sector still expanding at a robust clip.

Previous: 60.8 Wells Fargo: 59.6

Consensus: 59.5



Source: ISM, U.S. Department of Commerce, U.S. Department of Labor and Wells Fargo Securities

Global Review

Less Policy Accommodation Slowly Coming Into View

The European Central Bank (ECB) held a regularly scheduled policy meeting on Thursday and, as widely expected, the Governing Council decided to "taper" its quantitative easing (QE) program further (see chart on front page). Specifically, the Governing Council announced that it would dial back its monthly rate of bond purchases from €60 billion to €30 billion starting in January, and that it would maintain that pace through September 2018, "or beyond, if necessary."

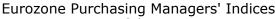
Recent data out of the euro area indicate that the economy does not need as much policy support as it did earlier. Real GDP in the Eurozone was up 2.3 percent in Q2-2017, the strongest rate of economic growth in more than six years, and the elevated level of the purchasing managers' indices suggest that growth momentum in the euro area remained solid in the third quarter (top chart).

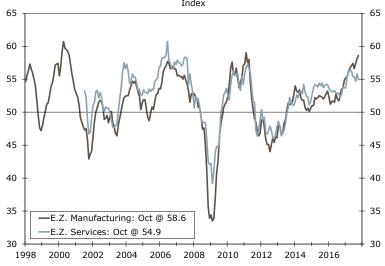
However, inflation in the euro area remains benign—the core rate of CPI inflation was only 1.1 percent in September—indicating that a complete removal of policy accommodation probably would not be appropriate at this time. The Governing Council kept its three policy rates unchanged, and it continued to stress that they would "remain at their present levels for an extended period of time, and well past the horizon of our net asset purchases." In short, rate hikes in the Eurozone are probably some ways off still.

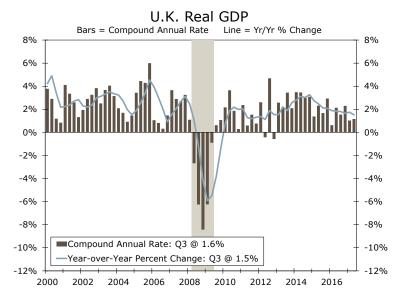
In contrast, monetary tightening in the United Kingdom likely will happen sooner rather than later. Data released this week showed that real GDP in the United Kingdom grew 0.4 percent (1.6 percent at an annualized rate) on a sequential basis in the third quarter (middle chart). The outturn was slightly stronger than many analysts had expected, and it stoked expectations that the Monetary Policy Committee (MPC) of the Bank of England (BoE) will hike rates by 25 bps at its policy meeting next week.

We had thought the MPC would wait until February before hiking rates, but the stronger-than-expected GDP result in conjunction with the still elevated rate of CPI inflation (3.0 percent in September) mean that a rate hike next week now seems likely. If, as we now expect, the MPC indeed raises its Bank Rate by 25 bps next week, it would be the first time that the MPC has hiked rates in more than 10 years. But any tightening that the MPC undertakes in the coming year likely will occur at a slow pace.

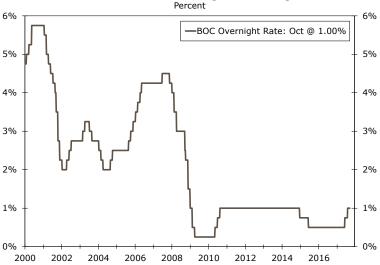
As widely expected, the Bank of Canada (BoC) refrained from raising its main policy rate this week. The BoC had hiked rates by 25 bps at its last two policy meetings (bottom chart), so a third consecutive rate hike seemed a bit aggressive to most market participants. In the press release announcing the decision, the BoC acknowledged that "less monetary policy stimulus will likely be required over time," but that it "will be cautious in making future adjustments to the policy rate." In other words, further rate hikes will be forthcoming but the pace of tightening likely will be slow. In that regard, we look for the BoC to hike rates by a total of 50 bps next year.







Bank of Canada Overnight Lending Rate



Source: Bloomberg LP, IHS Global Insight and Wells Fargo Securities

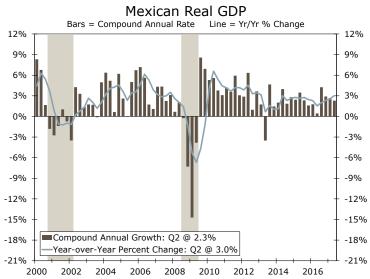
Eurozone GDP • Tuesday

Next Tuesday will provide us with the advanced GDP report for Q3 as well as the October CPI report for the Eurozone. Economic growth has become increasingly broad based in recent quarters amid steady employment gains and improving business sentiment. The expansion has led to firmer conditions in the labor market. However, despite the solid rate of real GDP growth and the tightening in labor market conditions, inflation remains benign.

Real GDP accelerated in the Eurozone in Q2, as the year-ago pace of economic growth crossed the 2 percent threshold for the first time since Q1-2011. The outturn marks the 17th consecutive quarter in which real GDP has risen on a sequential basis. Real GDP in the overall euro area is up 7.0 percent since the mild 2011-13 recession ended. We expect GDP in the Eurozone to grow 2.4 percent in Q3, year over year, and to expand 2.2 percent and 2.1 percent in 2017 and 2018, respectively.

Previous: 2.3% (Year-over-Year) Wells Fargo: 2.4%

Consensus: 2.3%



Bank of England (BoE) Meeting • Thursday

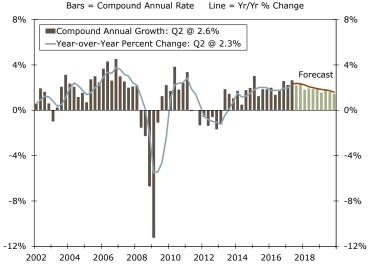
Financial markets appear convinced that the BoE will hike rates at the conclusion of the Monetary Policy Committee's (MPC) meeting on November 2. The implied probability of an interest rate hike as of this morning was 88.7 percent. Previously we had thought the MPC would hold off and hike rates at the February meeting, however, the stronger than expected GDP data helped convince us to agree with the market expectation. The forthcoming rate hike from the BoE will likely be an increase in the Bank Rate by 25 bps, the increment in which it has tightened policy in the past.

Regardless of when the first move occurs, the pace of tightening through 2018 will likely remain gradual as inflation begins to recede and economic growth remains modest. Moreover, shadows cast by the ongoing Brexit negotiations continue to create uncertainly surrounding the U.K.'s relationship with the European Union moving forward. The MPC will likely proceed with caution.

Previous: 0.25% Wells Fargo: 0.50%

Consensus: 0.50%

Eurozone Real GDP



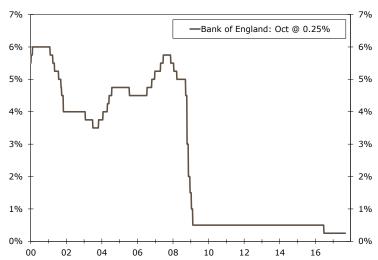
Mexico GDP • Tuesday

Mexican Q3 GDP is slated for release next Tuesday. The monthly data flow for July and August has not been as robust as one might have hoped. Industrial production started the quarter on a negative note, with construction activity declining 1.0 percent versus June, before increasing just 0.3 percent in August. Mining activity declined 2.3 percent while utilities output fell 0.5 percent on the month.

A bright spot in the Mexican economy is the manufacturing sector, which is largely driven by its automobile production. Manufacturing activity increased 0.5 percent in August from July and is up 3.3 percent on a year-earlier basis. Perhaps one of the most important reasons why the current NAFTA renegotiation process taking place between the United States, Canada and Mexico is so noteworthy is that the Mexican automobile sector is one of the most vital industries of Mexican production activity. We look for GDP to grow 1.9 percent in Q3.

Previous: 1.8% (Year-over-Year) Wells Fargo: 1.9%

Bank of England Policy Rate



Source: Bloomberg LP, IHS Global Insight and Wells Fargo Securities

Interest Rate Watch

Two and Tens, Alternative Forces

Since the start of this year, the behavior of the two and ten-year Treasury benchmark interest rates have behaved differently as each reflects the influence of alternative economic forces (top graph). As a result, the spread between the ten and two-year has declined throughout 2017.

Two Year: Upward Drift.

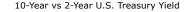
Since the start of 2017, the two-year yield has drifted upward. This is consistent with two factors: policy intentions and inflation. Since the fourth quarter of 2016, the policy intentions of the FOMC have signaled a pattern of rising fed funds rate increases consistent with an outlook for rising inflation, continued economic growth and lower unemployment. The economy has cooperated.

For the FOMC, the dot-plot has signaled their intentions. For the economy, the steady drift upward in the Cleveland Fed median CPI measure (middle graph) has reinforced the FOMC's and financial market expectations. Therefore, the two year rate has reacted in line with the rise of inflation and therefore, the expected follow-on rise in the Fed Funds rate.

Ten-Year: Three Factors to Follow

Since the start of this year, the ten-year Treasury rate has drifted lower despite the rise in the two-year rate. The buy side of the Treasury market has been a key support for lower ten-year yields. First, the increase in foreign purchases of U.S. Treasury securities (bottom graph) has been a welcome turnaround from the declines of 2016. The global search for yield continues to benefit the U.S. sovereign debt market. Second, the pace of overall U.S. economic growth and inflation has remained modest and therefore the case for higher nominal GDP growth which was popular at the start of the year has moderated and thereby supported the case for a moderation of the ten year yield.

We began the year with a below consensus forecast for the ten-year rate and that has served us well. We are on the path to be more accurate than the consensus on the ten-year forecast for the fourth year in a row. Fundamentals matter in forecasting.

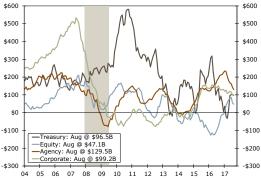




Core Goods vs. Core Services CPI



Foreign Private Purchases of U.S. Securities 12-Month Moving Sum, Billions of Dollars



Credit Market Insights

Vehicle Ownership Down, Debt Up

Vehicle ownership rates began falling after the recession and have continued to decline since. Only 85.2 percent of families owned a vehicle in 2016, compared to 86.3 percent in 2013, according to the survey of consumer finance.

Urban areas tend to have lower vehicle ownership rates: 84.8 percent of metro area residents owned vehicles in 2016 versus 87.9 percent of rural residents. Meanwhile, urban areas are also seeing the bulk of population growth. In 2016, U.S. metro areas grew by more than 2 million people, while rural areas only added 40 thousand. Therefore, more families are living in dense cities with alternatives to vehicle transport.

Increasingly cities are prioritizing public transportation as part of an effort to attract new workers. Amazon included mass transit access as a requirement for the future location of its HQ2, highlighting the importance of car-free mobility to its young, educated workforce. This suggests that lower vehicle ownership is not transitory, but an effect of fundamental shifts in lifestyle.

As fewer families own vehicles, those who do owe more on their vehicles. Median vehicle debt rose by \$500 to \$12.8K from 2013 to 2016. Families in the lowest income quintile saw their vehicle debt rise the fastest, by 44 percent to \$7.9K over the same period. Higher debt, especially for borrowers with lower credit, is a concern for delinquency rates.

Source: Bloomberg LP, U.S. Department of Labor, U.S. Department of Treasury and Wells Fargo Securities

Credit Market Data					
Mortgage Rates	Current	Week Ago	4 Weeks Ago	Year Ago	
30-Yr Fixed	3.94%	3.88%	3.85%	3.47%	
15-Yr Fixed	3.25%	3.19%	3.15%	2.78%	
5/1 ARM	3.21%	3.17%	3.18%	2.84%	
		_	_		

Dank Landing	Current Assets	1-Week	4-Week	Year-Ago
Bank Lending	(Billions)	Change (SAAR)	Change (SAAR)	Change
Commercial & Industrial	\$2,130.0	-3.09%	8.57%	1.74%
Revolving Home Equity	\$383.0	-8.30%	-6.32%	-7.36%
Residential Mortgages	\$1,808.1	10.58%	23.37%	3.71%
Commerical Real Estate	\$2,062.0	7.10%	7.78%	6.41%
Consumer	\$1,396.1	1.15%	5.03%	4.04%

Source: Freddie Mac, Federal Reserve Board and Wells Fargo Securities

Topic of the Week

Where Are We Headed with Wage Growth?

After years of strong employment growth, the path of wage and income growth is critical for policymakers at the Fed as they weigh additional monetary policy tightening. Indicators suggest gradual improvement: average hourly earnings, the Atlanta Fed Wage Growth Tracker and the Employment Cost Index (ECI) are all currently above their expansion averages on a year-over-year basis, and the trends are broadly upward.

Looking forward, will wages continue to strengthen? We believe the answer is yes. Indicators of slack in the labor market have finally reached full employment levels across a broad range of metrics. Both the traditional U-3 unemployment and the broader "underemployment" or U-6 rate are at previous cycle lows, survey-data suggest businesses are increasingly struggling to find qualified workers and the employment-population ratio for prime-age workers has finally returned to a more normal level. Although the road has been long and arduous, the return to full employment should spur greater competition for increasingly scarce labor resources, pushing up compensation.

That said, compensation is unlikely to return to the previous cycle-peak growth rates anytime soon. The fundamental drivers of wage growth are not conducive to the 4-6 percent growth range that occurred at the peak of previous expansions. Workers' earnings should reflect their output, or in other words productivity. While productivity serves as the "real" driver of wage growth, workers also need to be compensated for inflation. During the current cycle, inflation and labor productivity growth have been persistently slow, making it not altogether surprising that earnings growth has been sluggish relative to previous cycles.

Next week, we get more information on recent wage and income growth with the release of personal income, ECI and average hourly earnings data. We expect personal income to be up 2.8 percent in Q3 and ECI to rise 2.5 percent over the same period, almost flat with Q2. For more information on the differences between wage indicators, see our recent report "525,600 Metrics: How Do You Measure a Year in Income Growth?"

Unemployment vs. Prime Employment-Pop. Ratio Seasonally Adjusted, Right Axis Inverted 18% 71% 16% 73% 14% 75% 12% 77% 10% 79% 8% 81% 6% 83% 4% 85% -Unemployment Rate: Sep @ 4.2% (Left Axis) 2% U-6 Unemployment Rate: Sep @ 8.3% (Left Axis) 87% Prime Employment-Pop. Ratio: Sep @ 78.9 (Right Axis, Inverted) 0%

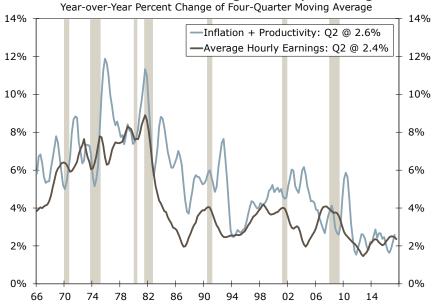
Fundamentals of Average Hourly Earnings

06

80

00

96



Source: U.S. Department of Commerce, U.S. Department of Labor and Wells Fargo Securities

Subscription Info

Wells Fargo's Weekly Economic & Financial Commentary is distributed to subscribers each Friday afternoon by e-mail.

To subscribe please visit: www.wellsfargo.com/economicsemail

The Weekly Economic & Financial Commentary is available via the Internet at www.wellsfargo.com/economics

Via The Bloomberg Professional Service at WFRE.

And for those with permission at www.wellsfargoresearch.com

Market Data ♦ Mid-Day Friday

U.S. Interest Rates						
	Friday	1 Week	1 Year			
	10/27/2017	Ago	Ago			
1-Month LIBOR	1.24	1.24	0.53			
3-Month LIBOR	1.38	1.36	0.89			
3-Month T-Bill	1.10	1.10	0.28			
1-Year Treasury	1.43	1.38	0.79			
2-Year Treasury	1.59	1.58	0.89			
5-Year Treasury	2.03	2.02	1.35			
10-Year Treasury	2.42	2.38	1.85			
30-Year Treasury	2.93	2.90	2.61			
Bond Buyer Index	3.65	3.53	3.32			

Foreign Exchange Rates						
	Friday	1 Week	1 Year			
1	10/27/2017	Ago	Ago			
Euro (\$/€)	1.158	1.178	1.090			
British Pound (\$/₤)	1.311	1.319	1.216			
British Pound (£/€)	0.883	0.893	0.896			
Japanese Yen (¥/\$)	113.840	113.520	105.290			
Canadian Dollar (C\$/\$)	1.287	1.263	1.339			
Swiss Franc (CHF/\$)	1.000	0.984	0.994			
Australian Dollar (US\$/A\$	0.766	0.782	0.759			
Mexican Peso (MXN/\$)	19.149	18.997	18.840			
Chinese Yuan (CNY/\$)	6.651	6.621	6.784			
Indian Rupee (INR/\$)	65.050	65.040	66.868			
Brazilian Real (BRL/\$)	3.267	3.194	3.166			
U.S. Dollar Index	95.031	93.701	98.888			

Foreign Interest Kates			
	Friday	1 Week	1 Year
1	0/27/2017	Ago	Ago
3-Month Euro LIBOR	-0.38	-0.38	-0.32
3-Month Sterling LIBOR	0.42	0.39	0.40
3-Month Canada Banker's Acceptance	1.41	1.43	0.90
3-Month Yen LIBOR	-0.04	-0.04	-0.02
2-Year German	-0.77	-0.72	-0.62
2-Year U.K.	0.46	0.44	0.29
2-Year Canadian	1.43	1.48	0.58
2-Year Japanese	-0.14	-0.14	-0.25
10-Year German	0.38	0.45	0.17
10-Year U.K.	1.35	1.33	1.25
10-Year Canadian	1.99	2.03	1.24
10-Year Japanese	0.07	0.08	-0.05

Commodity Prices							
	Friday	1 Week	1 Year				
	10/27/2017	Ago	Ago				
WTI Crude (\$/Barrel)	53.76	51.47	49.72				
Brent Crude (\$/Barrel)	60.23	57.75	50.47				
Gold (\$/Ounce)	1270.98	1280.50	1268.40				
Hot-Rolled Steel (\$/S.Ton)	605.00	595.00	497.00				
Copper (¢/Pound)	309.15	316.55	216.35				
Soybeans (\$/Bushel)	9.36	9.53	9.90				
Natural Gas (\$/MMBTU)	2.78	2.92	2.76				
Nickel (\$/Metric Ton)	11,716	11,676	10,224				
CRB Spot Inds.	497.72	497.98	462.55				

Source: Bloomberg LP and Wells Fargo Securities

Next Week's Economic Calendar

	Monday	Tuesday	Wednesday	Thursday	Friday
	30	31	1	2	3
	Personal Income (MoM)	Employment Cost Index	ISM Manufacturing	Productivity	Change in Nonfarm Payrolls
Data	August 0.2%	Q2 0.5%	September 60.8	Q2 1.5%	September -33K
	September 0.5% (W)	Q3 0.7% (W)	October 59.6 (W)	Q3 2.1% (W)	October 280K(W)
Ŕ		Consumer Confidence	Construction Spending (MoM)		Trade Balance
Ď.		September 119.8	August 0.5 %		August -\$42.4B
		October 121.9 (W)	September 0.1% (W)		September -43.1B(W)
	Germany	Eurozone	Brazil	Australia	Canada
ata	Germany CPI (YoY)	Eurozone GDP (QoQ)	Brazil Industrial Production (MoM)	Australia Retail Sales (MoM)	Canada Unemployment Rate
Data	•				
bal Data	CPI (YoY)	GDP (QoQ)	Industrial Production (MoM)	Retail Sales (MoM)	Unemployment Rate
obal D	CPI (YoY)	GDP (QoQ) Q2 (Previous) 0.6%	Industrial Production (MoM)	Retail Sales (MoM) August (Previous) -0.6%	Unemployment Rate
Global Data	CPI (YoY)	GDP (QoQ) Q2 (Previous) 0.6% Mexico	Industrial Production (MoM)	Retail Sales (MoM) August (Previous) -0.6% Bank of England	Unemployment Rate

Source: Bloomberg LP and Wells Fargo Securities

Wells Fargo Securities Economics Group

Diane Schumaker-Krieg	Global Head of Research,	(704) 410-1801	diane.schumaker@wellsfargo.com
	Economics & Strategy	(212) 214-5070	
John E. Silvia, Ph.D.	Chief Economist	(704) 410-3275	john.silvia@wellsfargo.com
Mark Vitner	Senior Economist	(704) 410-3277	mark.vitner@wellsfargo.com
Jay H. Bryson, Ph.D.	Global Economist	(704) 410-3274	jay.bryson@wellsfargo.com
Sam Bullard	Senior Economist	(704) 410-3280	sam.bullard@wellsfargo.com
Nick Bennenbroek	Currency Strategist	(212) 214-5636	nicholas.bennenbroek@wellsfargo.com
Eugenio J. Alemán, Ph.D.	Senior Economist	(704) 410-3273	eugenio.j.aleman@wellsfargo.com
Azhar Iqbal	Econometrician	(704) 410-3270	azhar.iqbal@wellsfargo.com
Tim Quinlan	Senior Economist	(704) 410-3283	tim.quinlan@wellsfargo.com
Eric Viloria, CFA	Currency Strategist	(212) 214-5637	eric.viloria@wellsfargo.com
Sarah House	Economist	(704) 410-3282	sarah.house@wellsfargo.com
Michael A. Brown	Economist	(704) 410-3278	michael.a.brown@wellsfargo.com
Jamie Feik	Economist	(704) 410-3291	jamie.feik@wellsfargo.com
Erik Nelson	Currency Strategist	(212) 214-5652	erik.f.nelson@wellsfargo.com
Michael Pugliese	Economic Analyst	(704) 410-3156	michael.d.pugliese@wellsfargo.com
E. Harry Pershing	Economic Analyst	(704) 410-3034	edward.h.pershing@wellsfargo.com
Hank Carmichael	Economic Analyst	(704) 410-3059	john.h.carmichael@wellsfargo.com
Ariana Vaisey	Economic Analyst	(704) 410-1309	ariana.b.vaisey@wellsfargo.com
Abigail Kinnaman	Economic Analyst	(704) 410-1570	abigail.kinnaman@wellsfargo.com
Shannon Seery	Economic Analyst	(704)410-1681	shannon.seery@wellsfargo.com
Donna LaFleur	Executive Assistant	(704) 410-3279	donna.lafleur@wellsfargo.com
Dawne Howes	Administrative Assistant	(704) 410-3272	dawne.howes@wellsfargo.com

Wells Fargo Securities Economics Group publications are produced by Wells Fargo Securities, LLC, a U.S. broker-dealer registered with the U.S. Securities and Exchange Commission, the Financial Industry Regulatory Authority, and the Securities Investor Protection Corp. Wells Fargo Securities, LLC, distributes these publications directly and through subsidiaries including, but not limited to, Wells Fargo & Company, Wells Fargo Bank N.A., Wells Fargo Clearing Services, LLC, Wells Fargo Securities International Limited, Wells Fargo Securities Asia Limited and Wells Fargo Securities (Japan) Co. Limited. Wells Fargo Securities, LLC is registered with the Commodities Futures Trading Commission as a futures commission merchant and is a member in good standing of the National Futures Association. Wells Fargo Securities, LLC. and Wells Fargo Bank, N.A. are generally engaged in the trading of futures and derivative products, any of which may be discussed within this publication. Wells Fargo Securities, LLC does not compensate its research analysts based on specific investment banking transactions. Wells Fargo Securities, LLC's research analysts receive compensation that is based upon and impacted by the overall profitability and revenue of the firm which includes, but is not limited to investment banking revenue. The information and opinions herein are for general information use only. Wells Fargo Securities, LLC does not guarantee their accuracy or completeness, nor does Wells Fargo Securities, LLC assume any liability for any loss that may result from the reliance by any person upon any such information or opinions. Such information and opinions are subject to change without notice, are for general information only and are not intended as an offer or solicitation with respect to the purchase or sales of any security or wells Fargo Securities, LLC is a separate legal entity and distinct from affiliated banks and is a wholly owned subsidiary of Wells Fargo Securities, LLC.

Important Information for Non-U.S. Recipients

For recipients in the EEA, this report is distributed by Wells Fargo Securities International Limited ("WFSIL"). WFSIL is a U.K. incorporated investment firm authorized and regulated by the Financial Conduct Authority. The content of this report has been approved by WFSIL a regulated person under the Act. For purposes of the U.K. Financial Conduct Authority's rules, this report constitutes impartial investment research. WFSIL does not deal with retail clients as defined in the Markets in Financial Instruments Directive 2007. The FCA rules made under the Financial Services and Markets Act 2000 for the protection of retail clients will therefore not apply, nor will the Financial Services Compensation Scheme be available. This report is not intended for, and should not be relied upon by, retail clients. This document and any other materials accompanying this document (collectively, the "Materials") are provided for general informational purposes only.

SECURITIES: NOT FDIC-INSURED/NOT BANK-GUARANTEED/MAY LOSE VALUE

