

2015 Automotive Outlook Symposium Forecast Winners

Overall	Romina Soria - Wisconsin Department of Revenue	
GDP current dollars	Richard Yamarone - Bloomberg, LP	
GDP price index, Chain-type	Dr. Ken Mayland - ClearView Economics, LLC	
Real GDP, chained dollars	Jeff Myers - State Farm	
Personal consumption expenditures	Sam Kahan - ACT Research	
Business fixed investment	Jeff Myers - State Farm	
Residential investment	Adolfo Laurenti - Mesirow Financial	
Change in private inventories	Carl Tannenbaum Northern Trust	Bill Witte - Witte Econometrics/FTR Transportation Intelligence
Net exports	John Silvia - Wells Fargo	Bill Witte - Witte Econometrics/FTR Transportation Intelligence
Government consumption expenditures and gross investment	Dr. Ken Mayland - ClearView Economics, LLC	
Industrial production	Romina Soria - Wisconsin Department of Revenue	
Car & light truck sales	Adolfo Laurenti - Mesirow Financial	
Housing starts	William Hickey - DTE Energy	
Oil Price	Romina Soria - Wisconsin Department of Revenue	
Unemployment rate	Adolfo Laurenti - Mesirow Financial Todd Tomalak - John Burns Real Estate Consulting Richard Yamarone - Bloomberg, LP	William Shearin - Center Punch Economics Chris Varvares - Macroeconomic Advisers
Inflation rate (CPI)	Evert Van Der Heide - Calvin College	
Treasury constant maturity one-year rate	Thomas J. Portz - Sterling Capital Management, Inc.	
Treasury constant maturity ten-year rate	Sam Kahan - ACT Research	Bill Witte - Witte Econometrics/FTR Transportation Intelligence
J.P. Morgan trade weighted OECD dollar	William Hickey - DTE Energy	

Table 1 - Median forecast of GDP and related items

	2015	2016	2017	Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
GDP, current dollars*	3.1%	3.2%	4.3%	1.2%	3.4%	3.6%	4.2%	4.0%	4.2%	4.1%	4.2%
GDP price index, chain-type*	1.1%	1.5%	2.0%	0.7%	1.5%	1.5%	1.8%	1.8%	2.0%	1.9%	1.9%
Real GDP, chained dollars*	2.0%	1.8%	2.2%	0.5%	1.8%	2.2%	2.3%	2.3%	2.2%	2.2%	2.2%
Personal consumption expenditures*	2.7%	2.5%	2.4%	1.9%	2.7%	2.5%	2.5%	2.4%	2.4%	2.5%	2.3%
Business fixed investment*	1.5%	0.4%	3.3%	-5.8%	1.9%	3.0%	3.3%	3.6%	3.3%	3.3%	3.5%
Residential investment*	9.4%	8.5%	6.0%	14.9%	6.7%	6.1%	7.0%	6.8%	6.8%	6.6%	5.9%
Change in private inventories (billions of constant dollars)**	\$78.3	\$53.8	\$53.0	\$60.9	\$45.8	\$50.0	\$53.8	\$51.9	\$52.6	\$55.7	\$54.0
Net exports of goods and services (billions of constant dollars)**	-\$551.9	-\$608.6	-\$631.6	-\$566.6	-\$579.6	-\$595.0	-\$608.6	-\$610.0	-\$617.4	-\$620.6	-\$631.6
Government consumption expenditures and gross investment*	1.1%	1.3%	1.0%	1.2%	1.5%	1.5%	1.2%	1.2%	0.8%	0.7%	1.2%
Industrial production*	-1.6%	0.2%	1.7%	-1.5%	0.0%	1.1%	1.6%	2.3%	1.9%	1.3%	1.7%
Car & light truck sales (millions - calendar year including imports)***	17.3	17.3	17.2	17.1	17.3	17.4	17.3	17.3	17.1	17.1	17.1
Housing starts (millions)***	1.11	1.17	1.25	1.15	1.15	1.17	1.21	1.24	1.25	1.26	1.27
Oil price (dollars per barrel of West Texas Intermediate)**	\$42.02	\$45.00	\$48.92	\$33.36	\$41.80	\$44.00	\$45.00	\$45.00	\$47.11	\$48.91	\$48.92
Unemployment rate**	5.0%	4.9%	4.8%	4.9%	4.9%	4.9%	4.9%	4.9%	4.9%	4.9%	4.8%
Inflation rate (consumer price index)*	0.4%	1.2%	2.1%	-0.3%	1.7%	1.6%	2.0%	2.0%	2.0%	2.1%	2.2%
Treasury constant maturity 1-year rate**	0.46%	0.97%	1.68%	0.58%	0.60%	0.76%	0.97%	1.11%	1.30%	1.51%	1.68%
Treasury constant maturity 10-year rate**	2.19%	2.25%	2.69%	1.92%	1.92%	2.04%	2.25%	2.37%	2.50%	2.60%	2.69%
J.P. Morgan trade weighted OECD dollar*	11.6%	2.4%	3.0%	7.9%	-0.9%	1.2%	0.7%	0.8%	0.8%	0.5%	0.1%

*Annual: Q4 over Q4 Quarterly: Quarter to Quarter change, annual rate

**Annuals are Q4 value

***Annuals are yearly average

Table 2 - Mean forecast of GDP and related items

	2015	2016	2017	Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
GDP, current dollars*	3.1%	3.0%	3.7%	1.2%	3.3%	3.4%	3.9%	3.8%	3.8%	3.7%	3.5%
GDP price index, chain-type*	1.1%	1.4%	1.8%	0.7%	1.5%	1.5%	1.8%	1.8%	1.9%	1.9%	1.8%
Real GDP, chained dollars*	2.0%	1.6%	2.0%	0.5%	1.8%	2.0%	2.2%	2.2%	2.0%	1.8%	1.9%
Personal consumption expenditures*	2.7%	2.3%	2.1%	1.9%	2.5%	2.5%	2.3%	2.3%	2.2%	2.1%	2.0%
Business fixed investment*	1.5%	0.6%	3.2%	-5.8%	2.3%	2.8%	3.4%	3.6%	3.2%	2.9%	3.1%
Residential investment*	9.4%	8.2%	6.5%	14.9%	5.2%	6.2%	7.0%	7.0%	7.3%	6.4%	5.5%
Change in private inventories (billions of constant dollars)**	\$78.3	\$46.2	\$47.6	\$60.9	\$44.7	\$42.8	\$46.2	\$47.2	\$47.9	\$48.2	\$49.4
Net exports of goods and services (billions of constant dollars)**	-\$551.9	-\$600.0	-\$639.8	-\$566.6	-\$576.8	-\$589.6	-\$600.0	-\$609.7	-\$619.3	-\$629.0	-\$639.8
Government consumption expenditures and gross investment*	1.1%	1.2%	1.3%	1.2%	1.2%	1.3%	1.3%	2.3%	1.0%	0.8%	1.2%
Industrial production*	-1.6%	0.1%	2.3%	-1.5%	0.1%	0.6%	2.2%	2.6%	2.4%	2.0%	2.3%
Car & light truck sales (millions - calendar year including imports)***	17.3	17.3	17.2	17.1	17.4	17.4	17.4	17.3	17.2	17.1	17.1
Housing starts (millions)***	1.11	1.18	1.27	1.15	1.17	1.19	1.22	1.23	1.26	1.28	1.30
Oil price (dollars per barrel of West Texas Intermediate)**	\$42.02	\$43.70	\$49.32	\$33.36	\$40.71	\$42.80	\$43.70	\$45.08	\$47.03	\$48.27	\$49.32
Unemployment rate**	5.0%	4.9%	5.0%	4.9%	4.9%	4.9%	4.9%	4.9%	4.9%	4.9%	5.0%
Inflation rate (consumer price index)*	0.4%	1.2%	1.9%	-0.3%	1.6%	1.6%	1.9%	1.8%	2.1%	2.0%	1.9%
Treasury constant maturity 1-year rate**	0.46%	0.91%	1.50%	0.58%	0.64%	0.76%	0.91%	1.06%	1.21%	1.36%	1.50%
Treasury constant maturity 10-year rate**	2.19%	2.25%	2.67%	1.92%	1.96%	2.11%	2.25%	2.37%	2.49%	2.59%	2.67%
J.P. Morgan trade weighted OECD dollar*	11.6%	2.2%	2.4%	7.9%	-1.4%	0.9%	0.7%	0.7%	0.8%	0.6%	0.3%

*Annual: Q4 over Q4 Quarterly: Quarter to Quarter change, annual rate

**Annuals are Q4 value

***Annuals are yearly average

Figure 1 - Forecast of GDP and related items

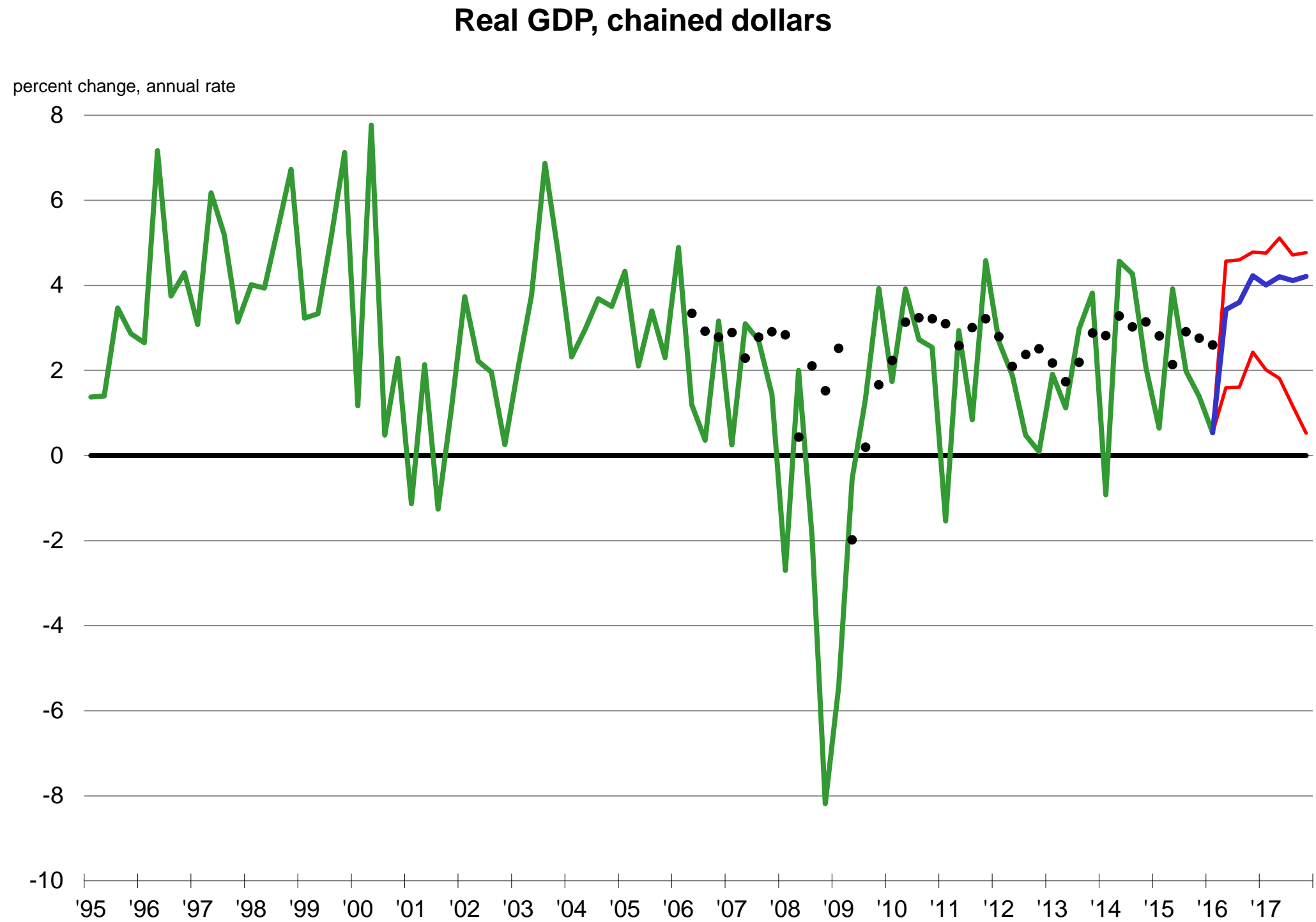


Figure 2 - Forecast of GDP and related items

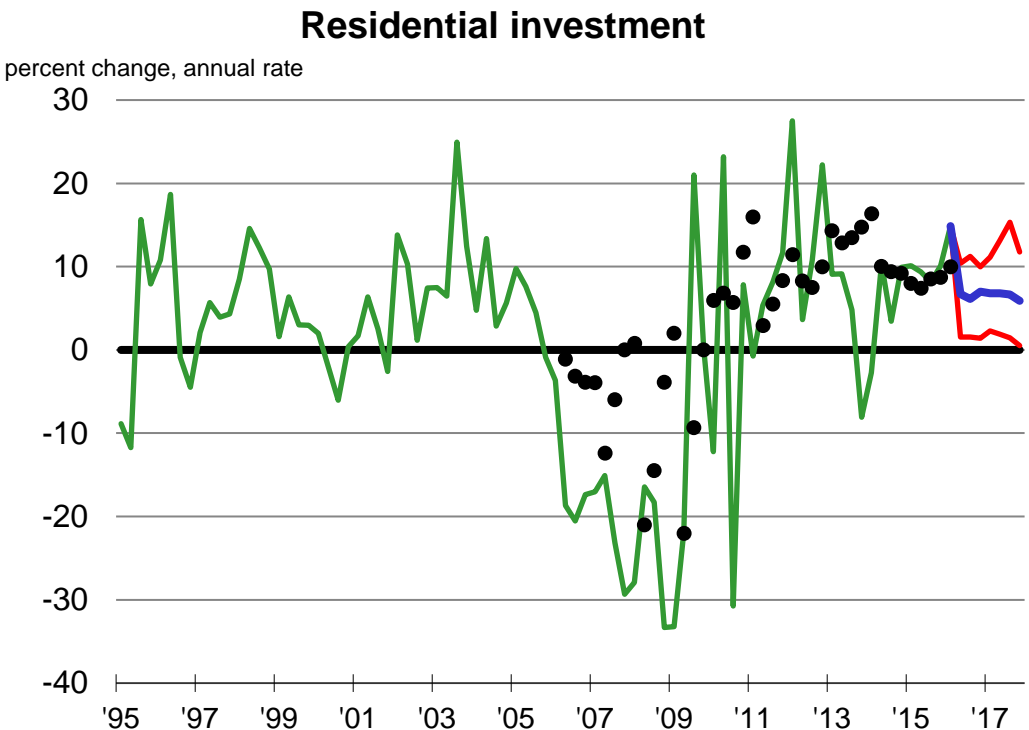
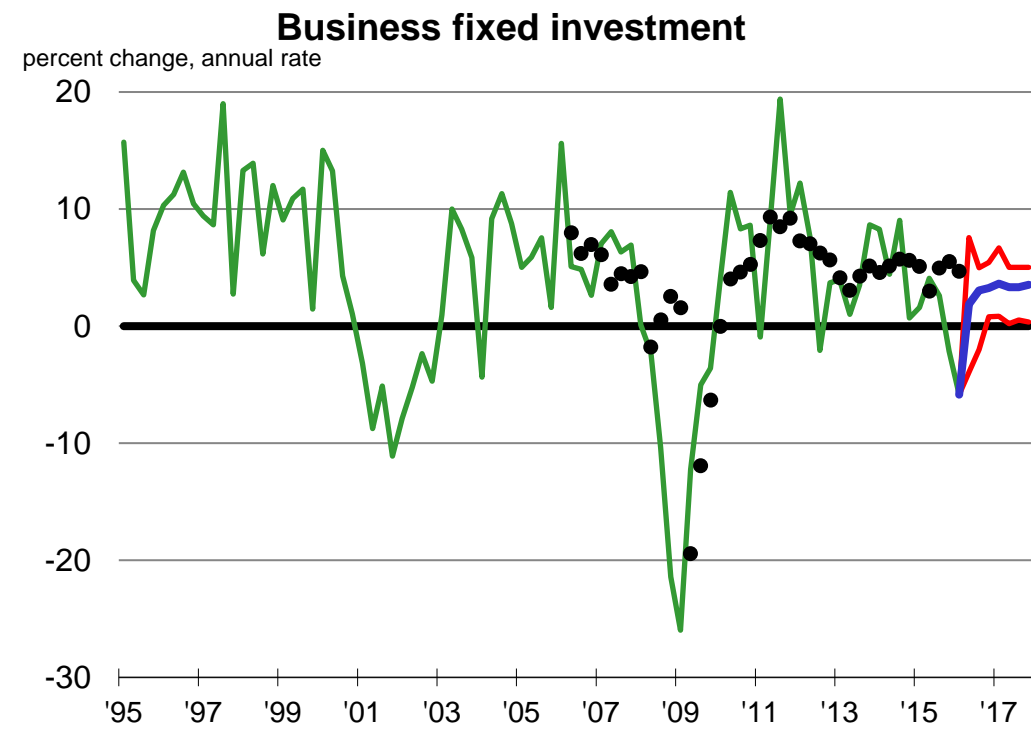
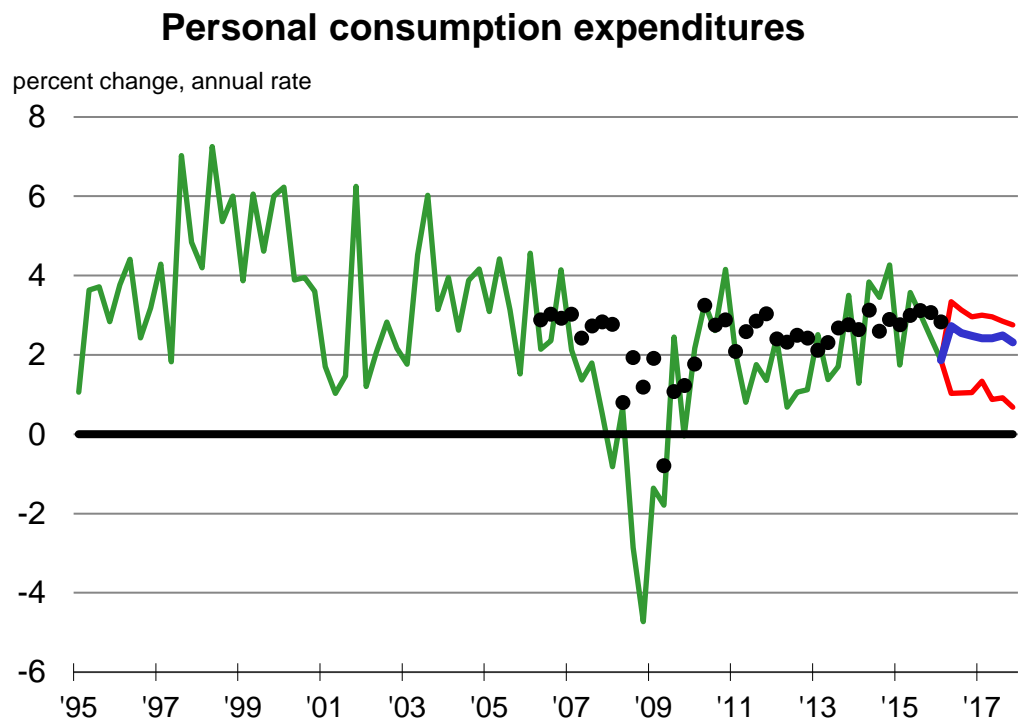
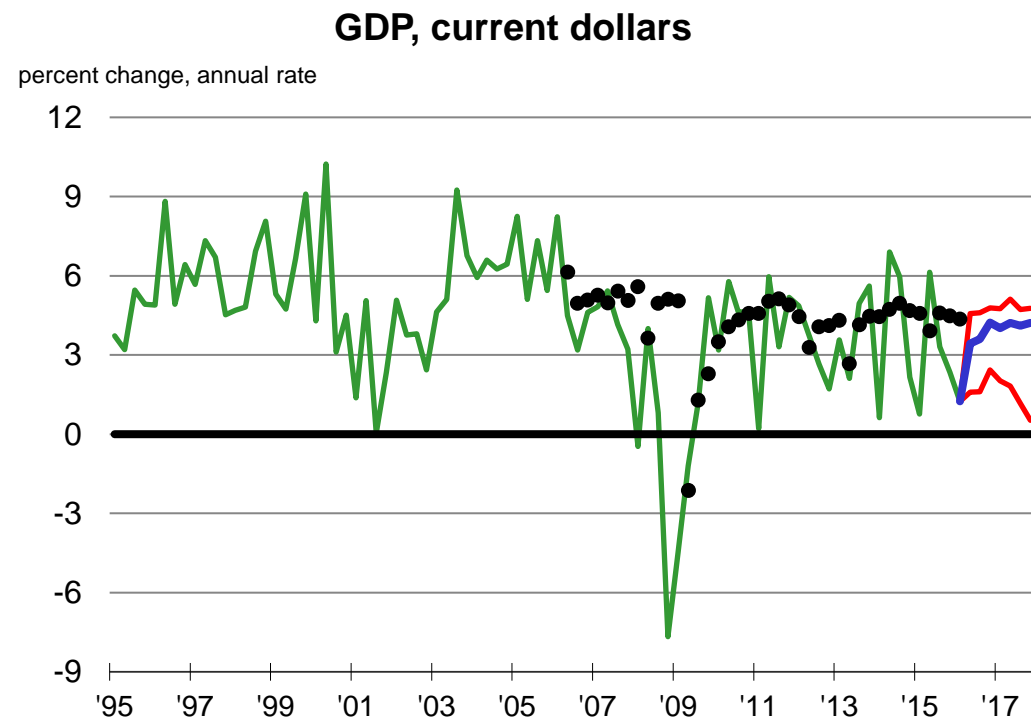


Figure 3 - Forecast of GDP and related items

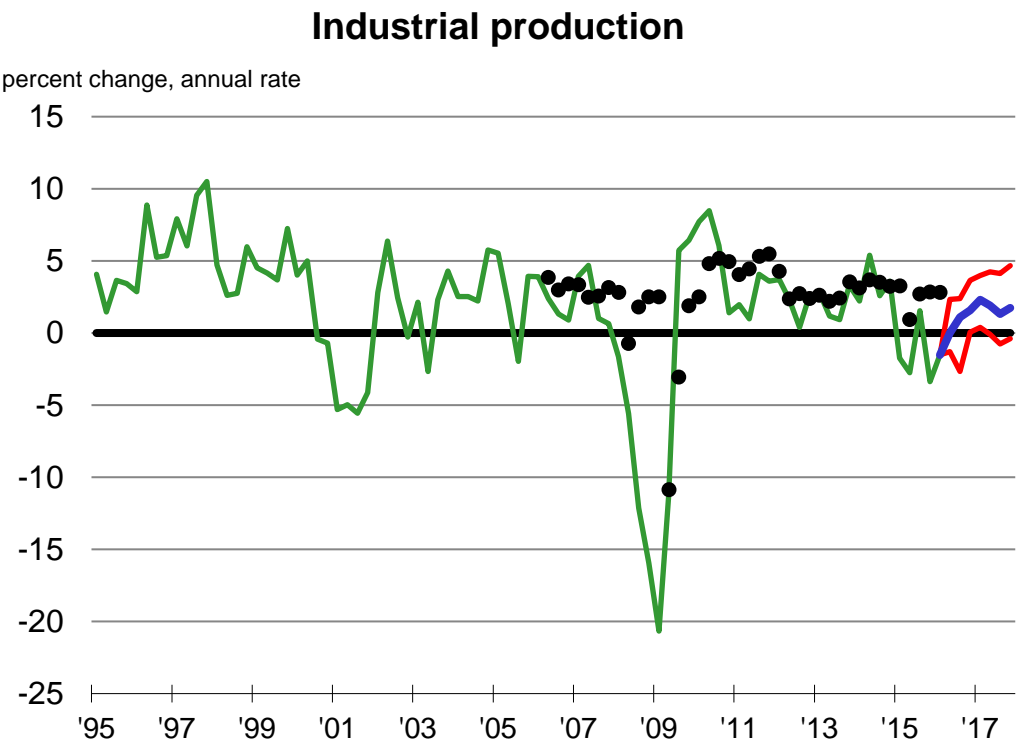
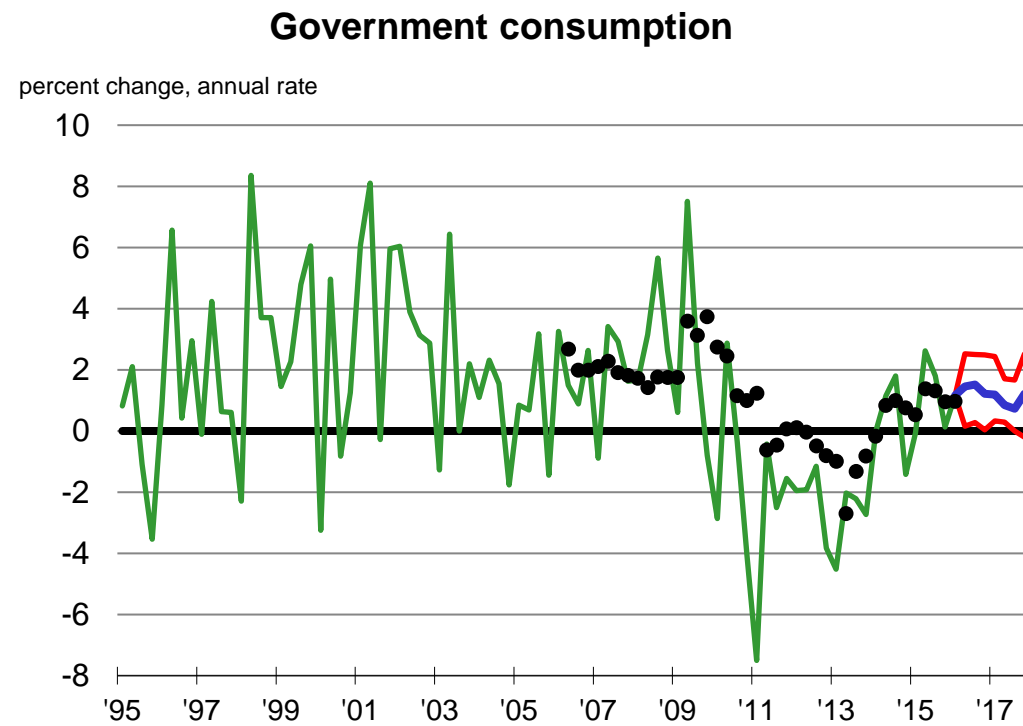


Figure 4 - Forecast of GDP and related items

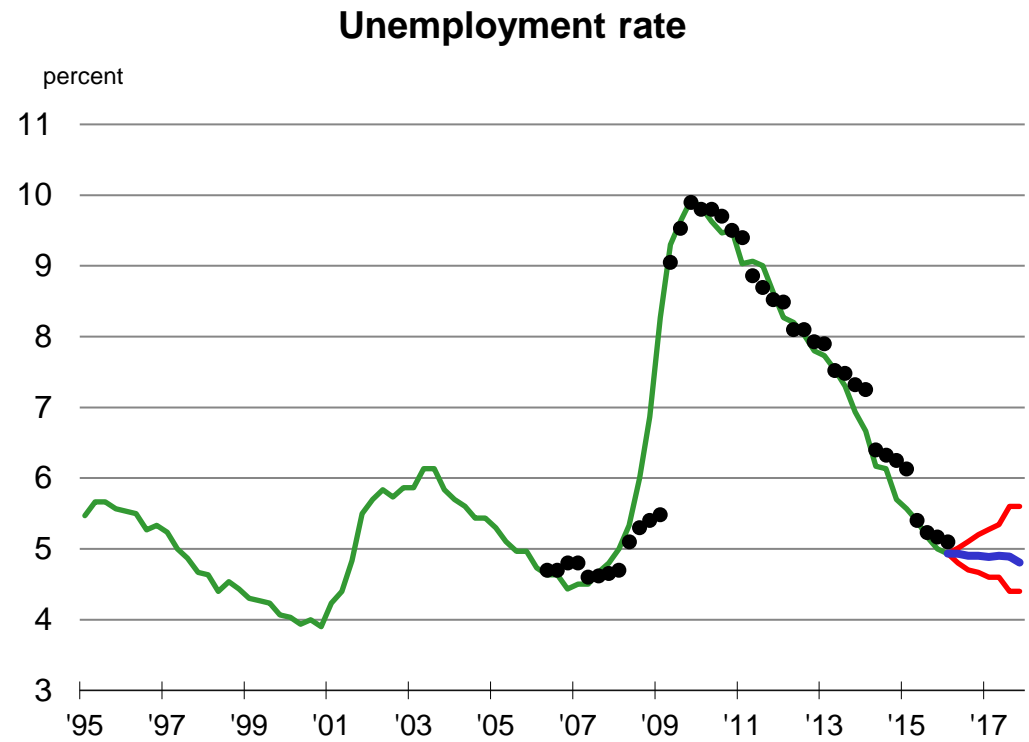
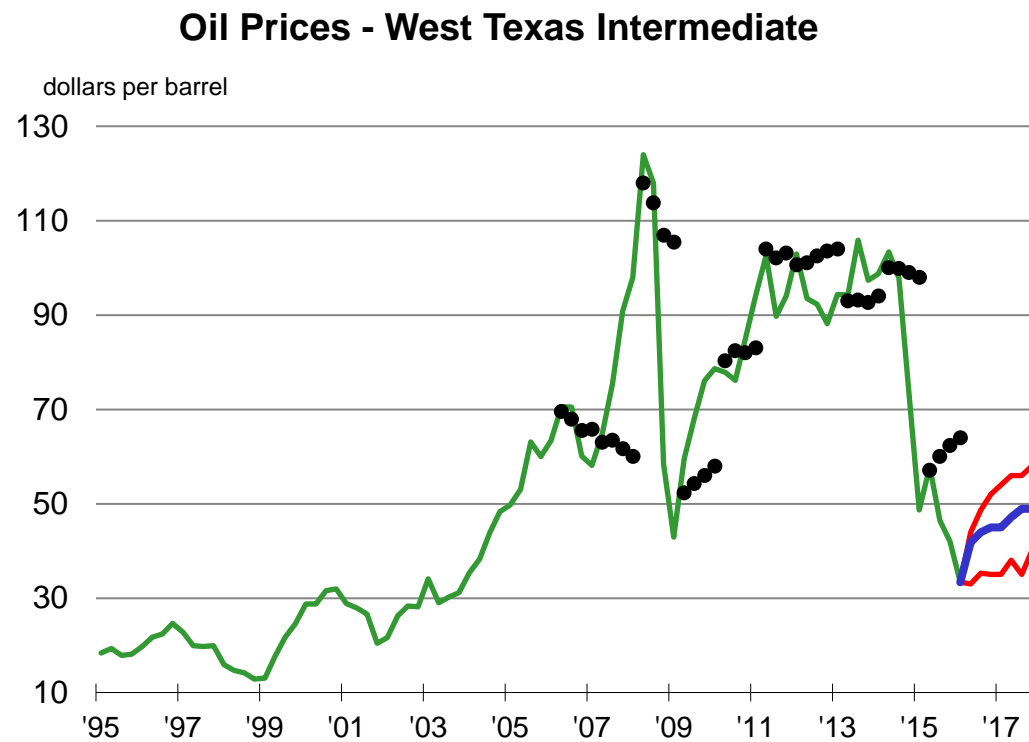
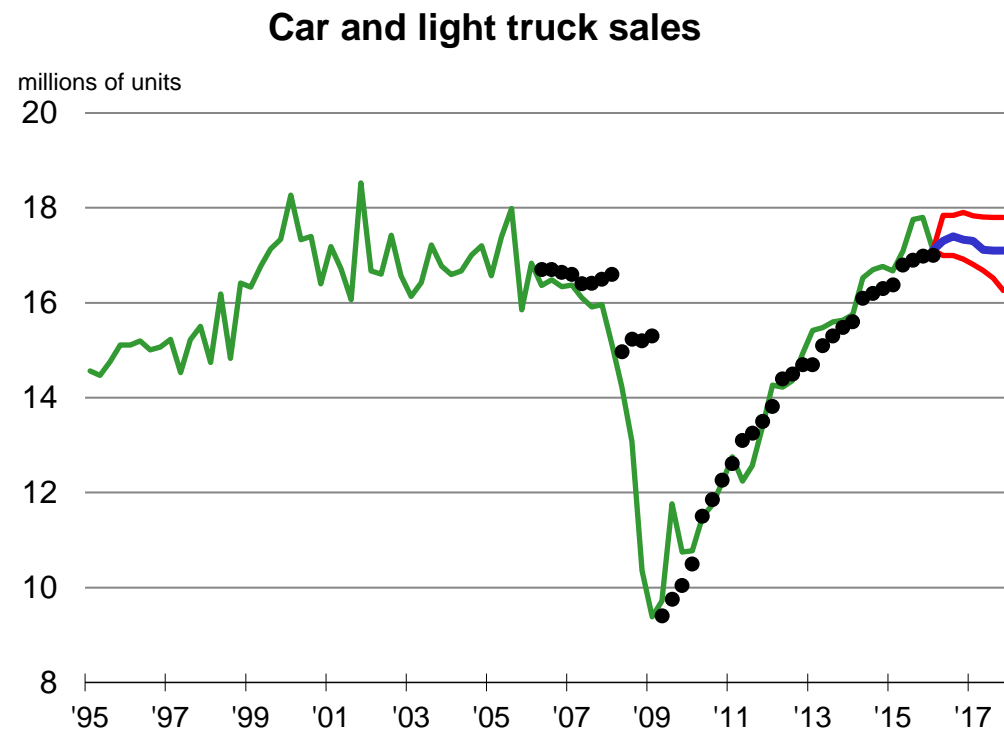


Figure 5 - Forecast of GDP and related items

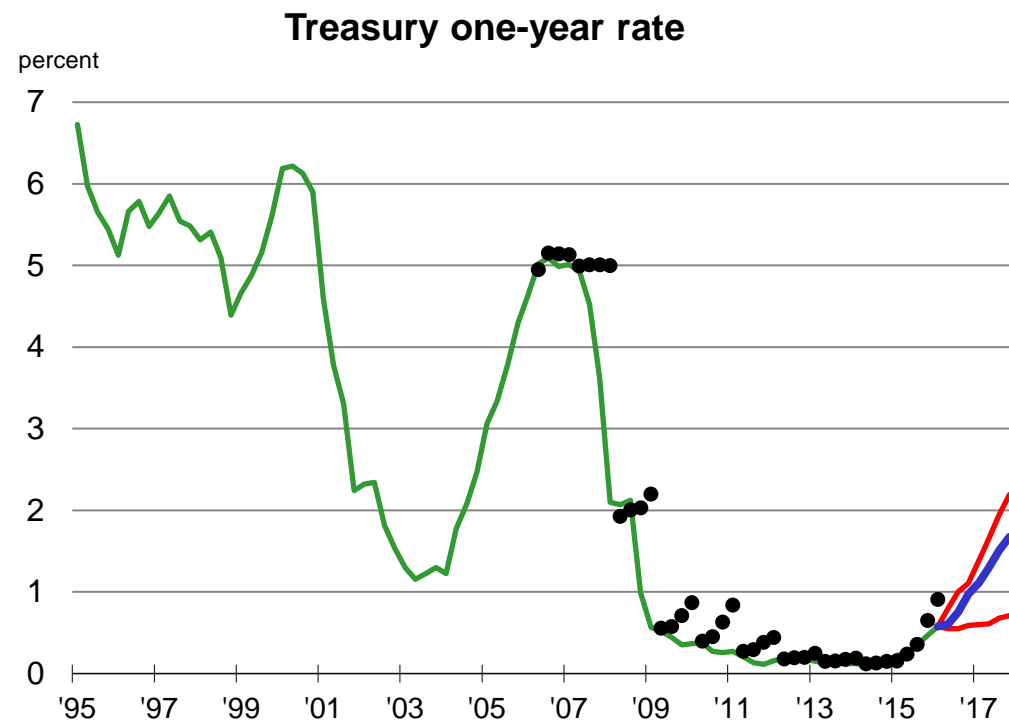
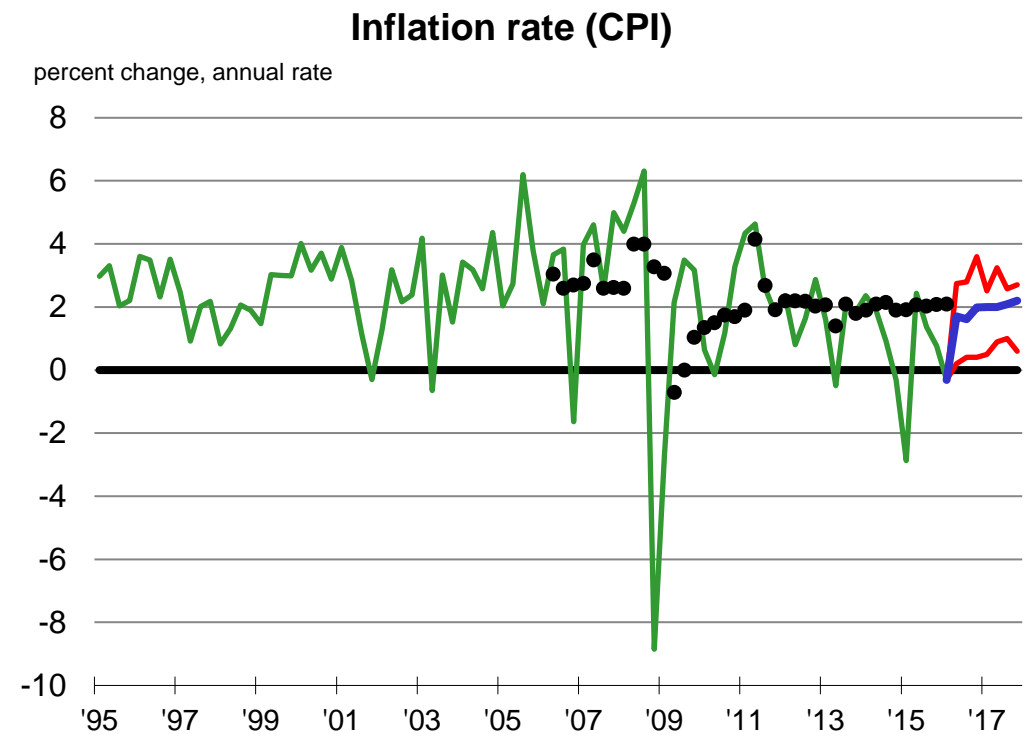
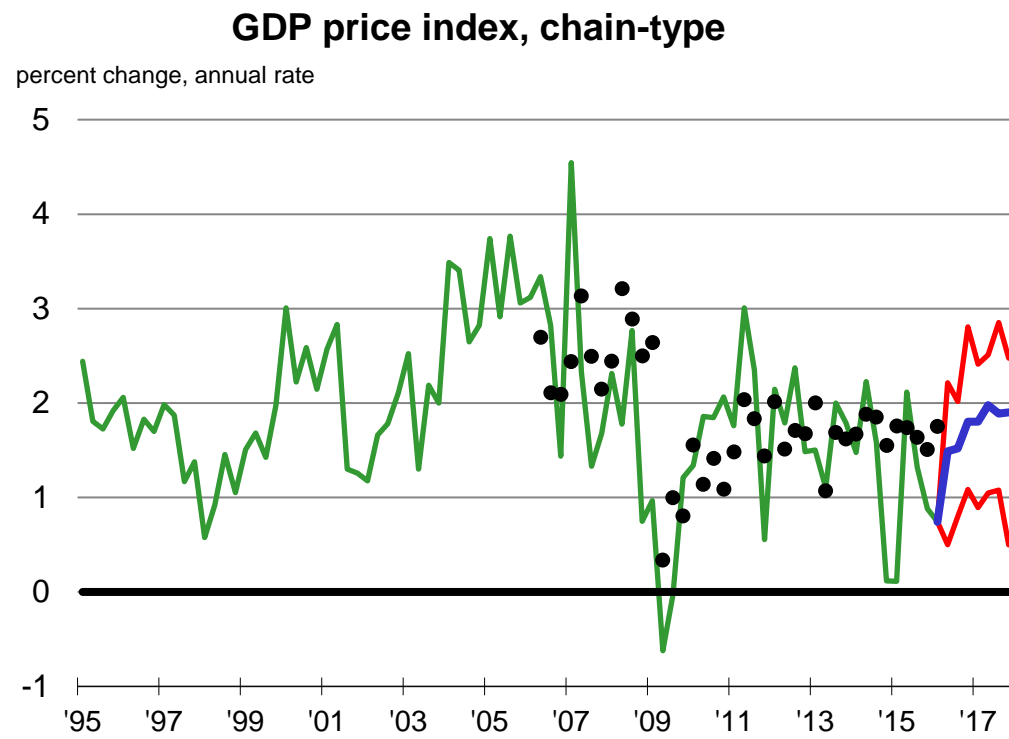


Figure 6 - Forecast of GDP and related items

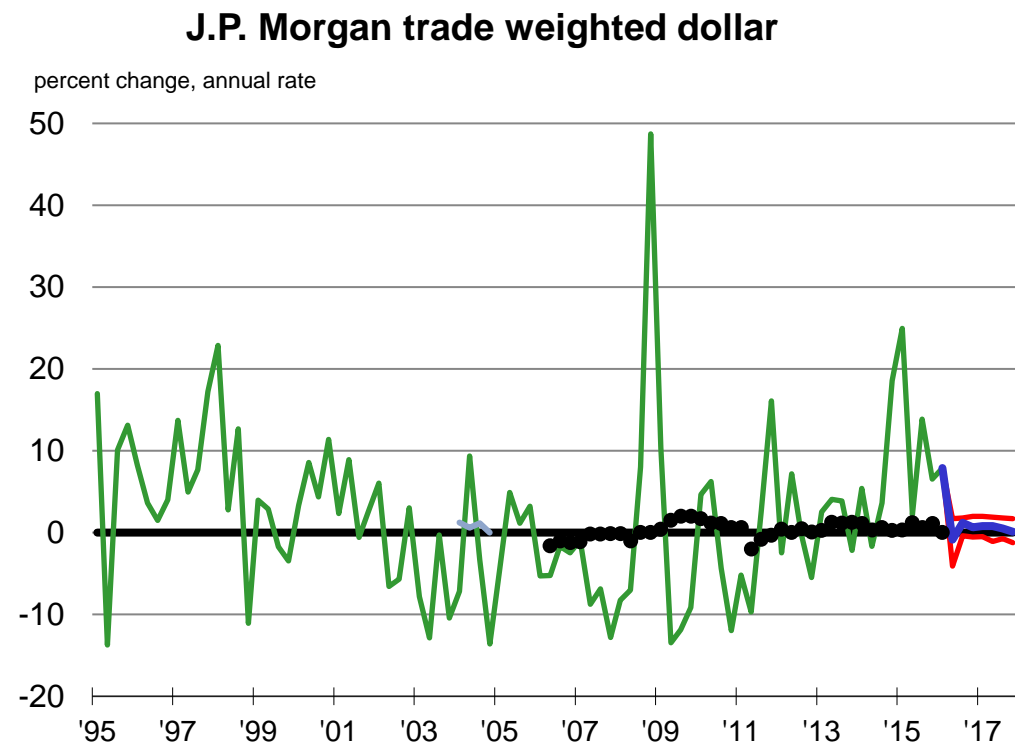


Table 3 - GDP, current dollars

Individual	Q4 over Q4			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	3.1%			1.2%							
1		3.9%	4.3%		5.4%	4.8%	4.3%	4.7%	4.4%	4.1%	3.9%
5		3.8%	4.9%		4.6%	5.0%	4.2%	4.3%	5.4%	4.5%	5.3%
9		3.6%	4.3%		4.3%	4.5%	4.3%	4.3%	4.2%	4.3%	4.3%
7		3.5%	4.4%		4.0%	4.2%	4.7%	4.7%	4.4%	4.4%	4.3%
8		3.5%	4.9%		3.7%	3.2%	6.0%	5.0%	5.1%	4.8%	4.8%
11		3.4%	4.5%		3.7%	4.1%	4.7%	4.8%	4.5%	4.5%	4.4%
15		3.4%	4.4%		3.1%	4.6%	4.8%	4.4%	4.2%	4.0%	4.8%
19		3.4%	4.5%		4.1%	4.1%	4.1%	4.0%	4.7%	4.7%	4.6%
13		3.4%	4.2%		3.3%	4.5%	4.4%	4.2%	4.1%	4.3%	4.3%
20		3.3%	4.5%		4.3%	3.8%	4.0%	8.5%	4.3%	2.2%	3.0%
6		3.3%	4.5%		3.4%	4.1%	4.4%	4.5%	4.6%	4.5%	4.6%
4		3.2%	4.4%		3.4%	4.1%	4.2%	4.4%	4.3%	4.3%	4.5%
23		3.2%	1.6%		3.6%	2.6%	5.3%	4.3%	2.9%	1.6%	-2.1%
2		3.2%	4.0%		4.2%	2.5%	4.7%	3.2%	5.6%	3.4%	3.7%
14		3.1%	1.5%		3.6%	3.9%	3.7%	2.6%	1.8%	1.2%	0.5%
10		3.0%	4.6%		2.8%	3.6%	4.3%	4.5%	4.6%	4.5%	4.6%
21		3.0%	4.1%		3.4%	3.7%	3.6%	3.8%	4.1%	4.2%	4.2%
18		2.9%	4.5%		2.9%	3.1%	4.5%	4.0%	5.0%	4.7%	4.1%
3		2.9%	4.7%		5.0%	2.7%	2.7%	2.5%	2.5%	9.7%	4.1%
22		2.9%	3.6%		3.2%	2.6%	4.5%	3.5%	3.9%	2.8%	4.4%
12		2.6%	4.2%		2.3%	3.2%	3.9%	4.0%	4.1%	4.1%	4.4%
17		2.6%	2.9%		3.5%	3.1%	2.4%	2.8%	3.2%	3.1%	2.5%
25		2.3%	2.8%		2.0%	2.8%	3.2%	3.2%	2.8%	2.4%	2.8%
16		2.0%	2.7%		2.0%	1.6%	3.2%	2.0%	2.8%	3.2%	2.8%
24		1.9%	3.8%		0.3%	2.9%	3.1%	3.6%	3.4%	4.0%	4.0%
27		1.3%	0.3%		1.6%	1.3%	1.2%	0.8%	0.3%	0.1%	-0.1%
26		1.0%	1.2%		0.4%	1.3%	1.1%	0.9%	1.3%	1.1%	1.5%
MEDIAN		3.2%	4.3%		3.4%	3.6%	4.2%	4.0%	4.2%	4.1%	4.2%
MEAN		3.0%	3.7%		3.3%	3.4%	3.9%	3.8%	3.8%	3.7%	3.5%
STD DEV		0.7%	1.2%		1.2%	1.0%	1.1%	1.4%	1.2%	1.7%	1.7%
HIGH		3.9%	4.9%		5.4%	5.0%	6.0%	8.5%	5.6%	9.7%	5.3%
LOW		1.0%	0.3%		0.3%	1.3%	1.1%	0.8%	0.3%	0.1%	-2.1%

Table 4 - GDP price index, chain-type

Individual	Q4 over Q4			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	1.1%			0.7%							
23.0		2.1%	2.1%		2.5%	1.5%	3.6%	2.9%	3.0%	3.0%	-0.2%
19		1.9%	2.3%		2.2%	2.3%	2.2%	2.3%	2.2%	2.3%	2.3%
20		1.8%	1.3%		2.8%	2.0%	1.7%	2.0%	1.6%	0.8%	0.8%
16		1.7%	2.4%		1.9%	1.4%	2.9%	1.8%	2.5%	2.9%	2.5%
15		1.7%	2.0%		2.1%	2.0%	2.0%	2.0%	2.0%	1.9%	2.1%
9		1.6%	2.1%		1.9%	2.2%	1.8%	2.2%	1.8%	2.1%	2.1%
5		1.6%	2.0%		1.9%	1.8%	2.2%	1.8%	2.5%	1.4%	2.1%
8		1.6%	2.1%		1.9%	1.0%	2.8%	2.0%	2.2%	2.1%	2.1%
7		1.6%	2.3%		1.5%	1.8%	2.3%	2.4%	2.2%	2.3%	2.4%
11		1.6%	2.3%		1.6%	1.8%	2.3%	2.3%	2.1%	2.3%	2.3%
1		1.6%	2.3%		1.5%	1.8%	2.3%	2.4%	2.2%	2.3%	2.4%
13		1.6%	2.1%		1.8%	1.8%	1.8%	2.0%	2.0%	2.0%	2.2%
21		1.5%	1.7%		2.0%	1.7%	1.6%	1.5%	1.7%	1.8%	1.9%
24		1.5%	2.6%		1.5%	1.7%	2.0%	2.5%	2.5%	2.9%	2.7%
22		1.5%	2.1%		1.9%	1.0%	2.2%	1.4%	2.8%	1.9%	2.1%
18		1.4%	1.7%		1.2%	1.6%	2.1%	0.9%	2.1%	2.1%	1.7%
3		1.4%	1.8%		1.5%	1.5%	1.8%	1.8%	1.8%	1.8%	1.8%
6		1.3%	1.8%		1.4%	1.5%	1.6%	1.7%	1.8%	1.8%	1.9%
2		1.1%	2.2%		0.9%	1.5%	1.4%	1.8%	2.1%	2.3%	2.6%
10		1.1%	1.8%		0.9%	1.3%	1.5%	1.8%	1.7%	1.7%	1.8%
4		1.1%	1.8%		0.8%	1.3%	1.5%	1.8%	1.7%	1.8%	1.9%
14		1.0%	0.7%		1.1%	1.1%	1.1%	1.1%	0.9%	0.5%	0.4%
17		0.9%	0.9%		1.3%	1.1%	0.5%	0.9%	1.3%	1.1%	0.5%
12		0.9%	1.5%		0.5%	0.8%	1.4%	1.4%	1.5%	1.6%	1.6%
26		0.8%	1.2%		0.4%	1.1%	1.1%	1.1%	1.1%	1.1%	1.4%
25		0.8%	1.0%		0.8%	0.7%	1.1%	1.1%	0.7%	1.1%	1.1%
27		0.6%	1.0%		0.4%	0.5%	0.7%	0.8%	1.0%	1.1%	1.3%
MEDIAN		1.5%	2.0%		1.5%	1.5%	1.8%	1.8%	2.0%	1.9%	1.9%
MEAN		1.4%	1.8%		1.5%	1.5%	1.8%	1.8%	1.9%	1.9%	1.8%
STD DEV		0.4%	0.5%		0.6%	0.4%	0.7%	0.5%	0.5%	0.6%	0.7%
HIGH		2.1%	2.6%		2.8%	2.3%	3.6%	2.9%	3.0%	3.0%	2.7%
LOW		0.6%	0.7%		0.4%	0.5%	0.5%	0.8%	0.7%	0.5%	-0.2%

Table 5 - Real GDP, chained dollars

Individual	Q4 over Q4			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	2.0%			0.5%							
1		2.3%	1.9%		3.9%	2.9%	1.9%	2.3%	2.2%	1.7%	1.4%
2		2.1%	2.5%		2.2%	2.9%	2.9%	1.8%	2.1%	3.0%	2.9%
3		2.1%	2.3%		2.7%	2.6%	2.6%	2.4%	2.3%	2.1%	2.3%
4		2.1%	2.5%		2.5%	2.7%	2.6%	2.5%	2.6%	2.5%	2.5%
5		2.1%	2.8%		2.6%	3.2%	2.0%	2.4%	2.8%	3.0%	3.1%
6		1.9%	2.7%		2.0%	2.5%	2.7%	2.7%	2.7%	2.7%	2.7%
7		1.9%	2.1%		2.5%	2.4%	2.4%	2.3%	2.2%	2.1%	1.9%
8		1.9%	2.8%		1.7%	2.2%	3.1%	2.9%	2.9%	2.6%	2.7%
9		1.9%	2.2%		2.3%	2.3%	2.3%	2.3%	2.2%	2.2%	2.2%
10		1.9%	2.7%		1.9%	2.2%	2.8%	2.6%	2.8%	2.7%	2.7%
11		1.8%	2.2%		2.1%	2.3%	2.4%	2.4%	2.3%	2.2%	2.0%
12		1.8%	2.6%		1.7%	2.4%	2.4%	2.6%	2.6%	2.5%	2.8%
13		1.8%	2.1%		1.4%	2.6%	2.5%	2.2%	2.0%	2.2%	2.0%
14		1.8%	0.7%		2.1%	2.3%	2.1%	1.2%	1.1%	0.1%	0.2%
15		1.7%	2.3%		0.9%	2.5%	2.7%	2.4%	2.2%	2.1%	2.6%
16		1.7%	2.4%		1.8%	1.4%	2.9%	1.8%	2.5%	2.9%	2.5%
17		1.7%	1.9%		2.2%	2.0%	1.9%	1.9%	1.9%	1.9%	2.0%
18		1.5%	2.7%		1.7%	1.5%	2.4%	3.1%	2.9%	2.5%	2.4%
19		1.5%	2.2%		1.8%	1.8%	1.8%	1.7%	2.4%	2.4%	2.3%
20		1.5%	3.1%		1.4%	1.8%	2.2%	6.4%	2.7%	1.3%	2.1%
21		1.5%	2.3%		1.4%	1.9%	2.0%	2.3%	2.3%	2.3%	2.3%
22		1.4%	1.5%		1.3%	1.6%	2.2%	2.0%	1.1%	0.8%	2.2%
23		1.1%	-0.5%		1.0%	1.1%	1.7%	1.3%	-0.1%	-1.4%	-1.9%
24		0.9%	1.2%		1.0%	1.2%	0.9%	1.2%	1.0%	1.3%	1.2%
25		0.8%	1.5%		0.8%	0.8%	1.2%	1.6%	1.6%	1.6%	1.2%
26		0.8%	1.1%		0.2%	1.2%	1.2%	1.2%	1.0%	1.0%	1.2%
27		0.7%	-0.8%		1.0%	0.7%	0.5%	0.1%	-0.8%	-1.0%	-1.3%
MEDIAN		1.8%	2.2%		1.8%	2.2%	2.3%	2.3%	2.2%	2.2%	2.2%
MEAN		1.6%	2.0%		1.8%	2.0%	2.2%	2.2%	2.0%	1.8%	1.9%
STD DEV		0.4%	0.9%		0.7%	0.6%	0.6%	1.0%	0.9%	1.1%	1.2%
HIGH		2.3%	3.1%		3.9%	3.2%	3.1%	6.4%	2.9%	3.0%	3.1%
LOW		0.7%	-0.8%		0.2%	0.7%	0.5%	0.1%	-0.8%	-1.4%	-1.9%

Table 6 - Personal consumption expenditures

Individual	Q4 over Q4			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	2.7%			1.9%							
2		3.2%	3.5%		2.4%	4.6%	4.0%	3.0%	3.6%	3.3%	4.2%
8		2.8%	2.7%		3.2%	3.0%	3.0%	2.8%	3.0%	2.6%	2.6%
7		2.7%	2.5%		3.3%	3.1%	2.7%	2.5%	2.5%	2.5%	2.6%
1		2.7%	2.2%		3.9%	3.5%	1.6%	2.9%	2.7%	1.6%	1.6%
11		2.7%	2.5%		3.0%	3.1%	2.8%	2.5%	2.5%	2.5%	2.6%
14		2.6%	1.6%		2.7%	2.6%	3.0%	2.6%	2.2%	1.0%	0.7%
22		2.5%	1.7%		3.1%	2.7%	2.5%	2.2%	1.4%	1.2%	2.0%
19		2.5%	2.7%		2.8%	2.8%	2.7%	2.8%	2.7%	2.7%	2.7%
17		2.5%	2.7%		2.3%	3.1%	2.8%	3.2%	2.4%	2.8%	2.3%
13		2.5%	2.3%		2.8%	2.7%	2.6%	2.4%	2.3%	2.3%	2.3%
4		2.5%	2.6%		3.2%	2.6%	2.3%	2.4%	2.5%	2.6%	2.7%
25		2.5%	2.6%		2.8%	2.8%	2.4%	2.4%	2.4%	2.8%	2.8%
3		2.5%	2.3%		2.7%	2.7%	2.6%	2.4%	2.3%	2.3%	2.3%
20		2.5%	2.5%		3.4%	2.5%	2.0%	2.4%	2.5%	2.5%	2.5%
10		2.5%	2.5%		3.1%	2.4%	2.4%	2.2%	2.5%	2.6%	2.8%
23		2.4%	0.0%		3.0%	2.5%	2.2%	1.8%	0.4%	0.3%	-2.4%
15		2.4%	2.4%		2.6%	2.5%	2.5%	2.4%	2.5%	2.5%	2.3%
9		2.3%	2.2%		2.6%	2.4%	2.3%	2.3%	2.1%	2.1%	2.1%
16		2.3%	2.8%		2.0%	2.4%	2.8%	3.2%	2.4%	3.2%	2.4%
18		2.3%	2.6%		2.3%	2.3%	2.5%	2.6%	3.0%	2.4%	2.5%
6		2.2%	2.4%		2.2%	2.4%	2.4%	2.4%	2.4%	2.5%	2.5%
21		2.1%	2.6%		1.8%	2.3%	2.5%	2.6%	2.6%	2.6%	2.5%
12		2.0%	2.2%		2.0%	2.1%	2.1%	2.1%	2.1%	2.2%	2.2%
26		1.4%	1.8%		0.6%	1.8%	1.4%	1.8%	2.1%	1.7%	1.6%
24		1.3%	0.9%		1.2%	1.0%	1.0%	0.5%	1.2%	0.9%	0.8%
5		1.1%	1.2%		1.0%	0.6%	1.0%	1.3%	0.9%	1.0%	1.4%
27		0.8%	-0.6%		0.6%	0.5%	0.4%	-0.2%	-0.5%	-0.7%	-1.0%
MEDIAN		2.5%	2.4%		2.7%	2.5%	2.5%	2.4%	2.4%	2.5%	2.3%
MEAN		2.3%	2.1%		2.5%	2.5%	2.3%	2.3%	2.2%	2.1%	2.0%
STD DEV		0.5%	0.9%		0.8%	0.8%	0.7%	0.7%	0.8%	0.9%	1.2%
HIGH		3.2%	3.5%		3.9%	4.6%	4.0%	3.2%	3.6%	3.3%	4.2%
LOW		0.8%	-0.6%		0.6%	0.5%	0.4%	-0.2%	-0.5%	-0.7%	-2.4%

Table 7 - Business fixed investment

Individual	Q4 over Q4			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	1.5%			-5.8%							
26		6.2%	6.0%		7.6%	11.3%	12.9%	7.0%	6.9%	5.0%	5.0%
24		4.2%	3.3%		18.6%	2.9%	2.7%	4.6%	1.1%	3.3%	4.4%
5		3.0%	3.1%		3.7%	9.4%	5.4%	3.6%	4.5%	2.5%	1.8%
1		2.4%	3.1%		10.6%	2.8%	2.6%	3.2%	3.3%	2.9%	3.2%
12		2.3%	5.0%		5.6%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
2		1.7%	4.0%		3.9%	4.5%	4.5%	4.2%	4.0%	3.7%	4.0%
7		1.4%	4.3%		4.2%	4.2%	3.3%	3.8%	4.2%	4.6%	4.5%
9		1.3%	3.2%		3.2%	4.2%	4.2%	3.2%	3.2%	3.2%	3.2%
8		1.2%	4.9%		2.8%	4.0%	4.2%	5.1%	4.3%	4.8%	5.4%
11		1.2%	4.4%		3.8%	3.9%	3.2%	3.9%	4.4%	4.8%	4.8%
19		1.0%	2.7%		3.7%	3.7%	2.7%	2.7%	2.7%	2.7%	2.7%
14		0.9%	1.4%		3.7%	3.1%	2.9%	2.7%	1.6%	0.9%	0.4%
22		0.5%	2.5%		1.9%	3.2%	3.1%	3.6%	1.8%	1.2%	3.3%
3		0.4%	4.2%		1.1%	3.0%	3.5%	4.6%	4.8%	3.9%	3.5%
4		0.1%	3.3%		0.3%	3.2%	3.1%	3.3%	3.3%	3.2%	3.4%
23		0.1%	-0.2%		1.4%	2.7%	2.4%	2.7%	0.2%	-1.2%	-2.6%
10		0.0%	3.1%		0.3%	2.2%	3.6%	2.1%	3.3%	3.3%	3.8%
6		0.0%	4.0%		0.0%	2.0%	4.0%	4.0%	4.0%	4.0%	4.0%
13		-0.1%	3.9%		-1.3%	3.6%	3.5%	4.2%	4.0%	3.8%	3.5%
27		-0.1%	-1.4%		1.9%	1.8%	1.8%	0.5%	-0.9%	-2.3%	-2.7%
21		-0.2%	3.7%		0.3%	2.3%	2.8%	3.3%	4.0%	3.8%	3.7%
18		-0.2%	6.3%		-0.2%	1.3%	4.2%	6.7%	5.7%	6.5%	6.2%
15		-1.4%	4.6%		-5.2%	0.0%	5.8%	7.9%	3.3%	2.5%	5.0%
16		-2.0%	4.3%		-3.9%	-2.0%	4.1%	4.1%	4.9%	4.1%	4.1%
25		-2.6%	1.7%		-3.9%	-1.2%	0.8%	1.2%	1.2%	2.0%	2.4%
20		-2.7%	0.8%		0.8%	-3.6%	-2.0%	0.8%	0.8%	0.8%	0.8%
17		-3.7%	0.1%		-3.8%	-3.1%	-2.2%	-0.8%	0.0%	0.5%	0.8%
MEDIAN		0.4%	3.3%		1.9%	3.0%	3.3%	3.6%	3.3%	3.3%	3.5%
MEAN		0.6%	3.2%		2.3%	2.8%	3.4%	3.6%	3.2%	2.9%	3.1%
STD DEV		2.0%	1.8%		4.7%	3.1%	2.6%	1.9%	1.8%	1.9%	2.1%
HIGH		6.2%	6.3%		18.6%	11.3%	12.9%	7.9%	6.9%	6.5%	6.2%
LOW		-3.7%	-1.4%		-5.2%	-3.6%	-2.2%	-0.8%	-0.9%	-2.3%	-2.7%

Table 8 - Residential investment

Individual	Q4 over Q4			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	9.4%			14.9%							
5		14.0%	15.9%		10.1%	15.4%	15.6%	16.2%	17.0%	15.4%	14.9%
1		13.6%	12.7%		8.0%	16.3%	15.4%	10.7%	13.1%	15.3%	11.8%
25		11.9%	11.2%		11.7%	11.2%	10.0%	10.4%	11.3%	12.1%	11.2%
3		10.7%	8.4%		10.4%	8.8%	8.8%	8.8%	8.8%	8.2%	7.7%
20		10.4%	3.6%		10.5%	8.9%	7.4%	5.8%	4.3%	2.8%	1.3%
15		10.2%	5.5%		10.0%	8.0%	8.0%	5.0%	5.0%	5.0%	7.0%
9		10.2%	6.8%		8.0%	9.0%	9.0%	6.8%	6.8%	6.8%	6.8%
4		10.1%	8.9%		8.6%	7.9%	9.2%	9.5%	9.7%	8.8%	7.5%
13		10.1%	8.2%		8.0%	9.0%	8.5%	8.5%	8.5%	8.0%	8.0%
21		9.3%	3.5%		9.9%	7.1%	5.6%	4.5%	3.7%	3.1%	2.7%
26		9.1%	6.0%		6.7%	7.9%	7.0%	6.2%	6.1%	6.0%	5.9%
14		9.1%	3.0%		6.7%	7.1%	7.7%	5.5%	4.7%	1.4%	0.5%
16		8.7%	5.0%		9.7%	3.5%	7.0%	4.8%	5.4%	4.7%	5.3%
17		8.5%	1.9%		8.7%	6.1%	4.4%	2.7%	1.9%	1.5%	1.3%
7		8.4%	7.7%		3.6%	7.0%	8.6%	9.5%	10.3%	6.6%	4.4%
8		7.9%	8.1%		5.0%	5.2%	7.0%	7.3%	9.2%	8.8%	7.1%
6		7.8%	7.0%		3.5%	6.0%	7.0%	7.0%	7.0%	7.0%	7.0%
18		7.7%	4.9%		5.8%	5.2%	5.3%	4.6%	6.0%	7.2%	1.9%
11		7.7%	9.7%		1.6%	5.5%	9.2%	11.1%	12.3%	8.7%	6.9%
19		7.4%	7.7%		2.3%	6.1%	6.7%	8.4%	8.2%	7.4%	6.6%
12		6.6%	5.0%		2.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
2		6.1%	5.9%		2.5%	4.2%	3.5%	6.8%	7.0%	4.8%	4.9%
22		5.7%	3.3%		2.9%	2.5%	3.0%	3.0%	3.9%	2.2%	4.2%
27		5.0%	-1.9%		2.3%	2.1%	1.4%	-0.7%	-1.4%	-2.8%	-2.8%
23		4.2%	-1.8%		1.6%	0.7%	0.3%	0.0%	0.3%	-2.3%	-5.2%
24		1.0%	2.5%		-11.3%	1.6%	0.4%	2.3%	2.7%	2.1%	3.0%
10		0.5%	17.6%		-8.7%	-10.3%	8.3%	18.2%	20.2%	17.7%	14.3%
MEDIAN		8.5%	6.0%		6.7%	6.1%	7.0%	6.8%	6.8%	6.6%	5.9%
MEAN		8.2%	6.5%		5.2%	6.2%	7.0%	7.0%	7.3%	6.4%	5.5%
STD DEV		3.1%	4.4%		5.4%	4.8%	3.6%	4.2%	4.7%	4.8%	4.5%
HIGH		14.0%	17.6%		11.7%	16.3%	15.6%	18.2%	20.2%	17.7%	14.9%
LOW		0.5%	-1.9%		-11.3%	-10.3%	0.3%	-0.7%	-1.4%	-2.8%	-5.2%

Table 9 - Change in private inventories (billions of constant dollars)

Individual	Q4 value			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	\$78.3			\$60.9							
15		\$79.6	\$68.7		\$45.8	\$61.9	\$79.6	\$79.8	\$72.7	\$70.5	\$68.7
27		\$75.0	\$60.0		\$65.0	\$70.0	\$75.0	\$78.0	\$75.0	\$70.0	\$60.0
25		\$72.1	\$65.4		\$55.2	\$68.4	\$72.1	\$75.6	\$82.3	\$89.5	\$65.4
16		\$70.0	\$70.0		\$60.0	\$50.0	\$70.0	\$80.0	\$75.0	\$75.0	\$70.0
6		\$70.0	\$80.0		\$62.5	\$65.0	\$70.0	\$75.0	\$80.0	\$80.0	\$80.0
21		\$69.9	\$76.1		\$63.9	\$66.9	\$69.9	\$72.9	\$75.6	\$75.8	\$76.1
13		\$65.0	\$55.0		\$55.0	\$60.0	\$65.0	\$64.0	\$60.0	\$61.0	\$55.0
3		\$65.0	\$50.0		\$55.0	\$60.0	\$65.0	\$64.0	\$60.0	\$58.0	\$50.0
2		\$63.6	\$59.3		\$54.3	\$62.4	\$63.6	\$58.2	\$56.9	\$57.5	\$59.3
26		\$60.0	\$55.0		\$50.0	\$55.0	\$60.0	\$62.0	\$52.0	\$50.0	\$55.0
9		\$60.0	\$60.0		\$60.0	\$60.0	\$60.0	\$60.0	\$60.0	\$60.0	\$60.0
14		\$59.0	\$53.0		\$61.4	\$59.5	\$59.0	\$57.5	\$57.0	\$54.0	\$53.0
17		\$55.0	\$0.0		\$51.2	\$53.9	\$55.0	\$51.7	\$52.6		
4		\$53.8	\$60.0		\$41.2	\$45.7	\$53.8	\$55.5	\$58.7	\$59.7	\$60.0
1		\$47.1	\$32.0		\$41.4	\$41.7	\$47.1	\$39.1	\$32.5	\$33.0	\$32.0
20		\$45.0	\$10.0		-\$10.0	\$25.0	\$45.0	\$5.0	\$25.0	\$10.0	\$10.0
5		\$42.8	\$106.4		\$44.1	\$62.1	\$42.8	\$33.6	\$45.3	\$84.0	\$106.4
12		\$40.0	\$40.0		\$40.0	\$40.0	\$40.0	\$40.0	\$40.0	\$40.0	\$40.0
7		\$32.7	\$31.1		\$42.0	\$34.8	\$32.7	\$30.4	\$30.1	\$30.8	\$31.1
24		\$30.0	\$30.0		\$35.0	\$35.0	\$30.0	\$30.0	\$30.0	\$30.0	\$30.0
19		\$30.0	\$27.5		\$45.4	\$30.3	\$30.0	\$29.0	\$28.6	\$27.0	\$27.5
11		\$29.6	\$32.1		\$42.1	\$33.1	\$29.6	\$28.7	\$29.6	\$31.0	\$32.1
18		\$23.9	\$52.0		\$46.0	\$27.0	\$23.9	\$33.1	\$40.5	\$45.2	\$52.0
8		\$14.9	\$48.4		\$22.7	\$1.8	\$14.9	\$23.4	\$33.5	\$39.8	\$48.4
22		\$3.0	\$12.0		\$20.0	-\$3.8	\$3.0	\$4.0	\$1.7	-\$5.1	\$12.0
10		-\$3.3	\$63.2		\$39.9	-\$2.8	-\$3.3	\$51.9	\$57.4	\$61.1	\$63.2
23		-\$5.0	-\$12.2		\$18.1	-\$7.6	-\$5.0	-\$8.9	-\$19.5	-\$35.0	-\$12.2
MEDIAN		\$53.8	\$53.0		\$45.8	\$50.0	\$53.8	\$51.9	\$52.6	\$55.7	\$54.0
MEAN		\$46.2	\$47.6		\$44.7	\$42.8	\$46.2	\$47.2	\$47.9	\$48.2	\$49.4
STD DEV		\$23.9	\$25.6		\$16.4	\$23.2	\$23.9	\$24.1	\$23.6	\$27.9	\$24.2
HIGH		\$79.6	\$106.4		\$65.0	\$70.0	\$79.6	\$80.0	\$82.3	\$89.5	\$106.4
LOW		-\$5.0	-\$12.2		-\$10.0	-\$7.6	-\$5.0	-\$8.9	-\$19.5	-\$35.0	-\$12.2

Table 10 - Net exports of goods and services (billions of constant dollars)

Individual	Q4 value			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	-\$551.9			-\$566.6							
10		-\$536.1	-\$616.2		-\$554.6	-\$539.0	-\$536.1	-\$549.4	-\$569.8	-\$593.0	-\$616.2
5		-\$536.3	-\$467.8		-\$540.4	-\$541.5	-\$536.3	-\$510.6	-\$482.3	-\$450.2	-\$467.8
12		-\$572.7	-\$568.7		-\$564.3	-\$568.5	-\$572.7	-\$571.7	-\$570.7	-\$576.3	-\$568.7
18		-\$574.8	-\$628.6		-\$568.1	-\$573.0	-\$574.8	-\$581.1	-\$595.5	-\$612.6	-\$628.6
4		-\$576.8	-\$630.1		-\$559.5	-\$567.2	-\$576.8	-\$585.8	-\$599.3	-\$614.8	-\$630.1
26		-\$577.0	-\$590.0		-\$570.0	-\$572.0	-\$577.0	-\$580.0	-\$583.0	-\$588.0	-\$590.0
6		-\$578.6	-\$609.5		-\$566.8	-\$571.0	-\$578.6	-\$586.2	-\$593.9	-\$601.7	-\$609.5
17		-\$580.1	-\$606.1		-\$566.7	-\$581.2	-\$580.1	-\$594.5	-\$593.1	-\$607.5	-\$606.1
25		-\$582.1	-\$567.2		-\$571.3	-\$577.8	-\$582.1	-\$570.2	-\$567.5	-\$561.9	-\$567.2
27		-\$585.0	-\$605.0		-\$570.0	-\$575.0	-\$585.0	-\$590.0	-\$595.0	-\$600.0	-\$605.0
14		-\$588.0	-\$545.0		-\$582.0	-\$595.0	-\$588.0	-\$580.0	-\$565.0	-\$558.0	-\$545.0
16		-\$590.0	-\$560.0		-\$580.0	-\$580.0	-\$590.0	-\$610.0	-\$580.0	-\$570.0	-\$560.0
2		-\$594.6	-\$666.6		-\$574.0	-\$583.3	-\$594.6	-\$609.8	-\$626.8	-\$645.1	-\$666.6
20		-\$608.6	-\$631.6		-\$583.6	-\$603.6	-\$608.6	-\$598.6	-\$609.6	-\$620.6	-\$631.6
13		-\$613.4	-\$682.9		-\$574.4	-\$594.3	-\$613.4	-\$632.6	-\$650.7	-\$668.2	-\$682.9
8		-\$613.7	-\$681.9		-\$580.3	-\$600.7	-\$613.7	-\$628.7	-\$649.9	-\$667.0	-\$681.9
9		-\$616.5	-\$618.3		-\$587.0	-\$601.7	-\$616.5	-\$617.0	-\$617.4	-\$617.9	-\$618.3
15		-\$617.0	-\$686.9		-\$596.0	-\$598.2	-\$617.0	-\$652.9	-\$663.8	-\$681.7	-\$686.9
3		-\$617.0	-\$665.0		-\$582.0	-\$599.0	-\$617.0	-\$636.5	-\$653.0	-\$660.0	-\$665.0
11		-\$617.5	-\$735.4		-\$579.6	-\$604.1	-\$617.5	-\$639.3	-\$669.1	-\$700.7	-\$735.4
7		-\$621.8	-\$735.8		-\$581.4	-\$608.3	-\$621.8	-\$643.0	-\$672.1	-\$702.6	-\$735.8
1		-\$624.5	-\$737.6		-\$576.0	-\$608.5	-\$624.5	-\$652.2	-\$681.4	-\$707.0	-\$737.6
22		-\$628.2	-\$667.0		-\$583.3	-\$609.9	-\$628.2	-\$641.0	-\$655.2	-\$659.0	-\$667.0
21		-\$631.4	-\$686.3		-\$585.3	-\$606.1	-\$631.4	-\$647.3	-\$663.0	-\$675.4	-\$686.3
19		-\$634.3	-\$766.3		-\$586.8	-\$609.8	-\$634.3	-\$660.7	-\$701.1	-\$737.8	-\$766.3
23		-\$637.9	-\$657.0		-\$585.3	-\$616.0	-\$637.9	-\$649.2	-\$658.7	-\$653.7	-\$657.0
24		-\$645.3	-\$662.0		-\$625.5	-\$634.7	-\$645.3	-\$644.2	-\$653.0	-\$653.6	-\$662.0
MEDIAN		-\$608.6	-\$631.6		-\$579.6	-\$595.0	-\$608.6	-\$610.0	-\$617.4	-\$620.6	-\$631.6
MEAN		-\$600.0	-\$639.8		-\$576.8	-\$589.6	-\$600.0	-\$609.7	-\$619.3	-\$629.0	-\$639.8
STD DEV		\$28.1	\$65.9		\$14.9	\$21.7	\$28.1	\$36.5	\$47.9	\$58.7	\$65.9
HIGH		-\$536.1	-\$467.8		-\$540.4	-\$539.0	-\$536.1	-\$510.6	-\$482.3	-\$450.2	-\$467.8
LOW		-\$645.3	-\$766.3		-\$625.5	-\$634.7	-\$645.3	-\$660.7	-\$701.1	-\$737.8	-\$766.3

Table 11 - Government consumption expenditures and gross investment

Individual	Q4 over Q4			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	1.1%			1.2%							
5		2.6%	1.4%		3.4%	3.4%	2.5%	0.3%	0.3%	-1.6%	7.0%
26		2.2%	2.0%		0.2%	1.3%	6.5%	3.5%	0.7%	1.4%	2.7%
6		1.9%	2.0%		1.9%	2.5%	2.1%	2.0%	2.0%	2.0%	2.0%
4		1.5%	1.6%		1.6%	1.7%	1.7%	1.5%	1.7%	1.6%	1.6%
13		1.5%	1.0%		1.5%	1.8%	1.7%	1.2%	1.0%	1.0%	0.9%
10		1.5%	1.6%		1.5%	1.6%	1.9%	1.5%	1.7%	1.7%	1.7%
19		1.5%	0.7%		2.7%	1.6%	0.6%	0.9%	0.8%	0.7%	0.5%
8		1.5%	0.6%		1.3%	1.9%	1.5%	1.2%	0.8%	0.5%	0.1%
22		1.4%	0.3%		1.3%	1.9%	1.4%	1.0%	0.6%	0.1%	-0.4%
23		1.4%	0.1%		1.3%	1.9%	1.3%	0.9%	0.4%	-0.1%	-0.7%
3		1.4%	1.6%		1.2%	1.6%	1.7%	1.6%	1.6%	1.6%	1.6%
25		1.4%	0.5%		1.1%	2.6%	0.6%	-0.2%	0.8%	0.5%	0.8%
16		1.4%	1.4%		1.6%	1.3%	1.5%	1.7%	1.1%	1.5%	1.4%
20		1.3%	8.4%		2.5%	-0.8%	2.5%	31.6%	2.5%	0.0%	2.5%
12		1.3%	1.4%		1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%
17		1.3%	1.2%		1.5%	1.6%	1.0%	0.9%	1.2%	1.5%	1.4%
11		1.3%	0.8%		1.7%	1.5%	0.7%	1.3%	0.8%	0.7%	0.2%
7		1.3%	0.8%		1.7%	1.5%	0.7%	1.3%	0.8%	0.7%	0.2%
1		1.3%	0.7%		1.8%	1.5%	0.7%	1.3%	0.8%	0.7%	0.2%
14		1.2%	1.4%		1.6%	1.0%	1.1%	1.1%	1.2%	1.5%	1.8%
21		1.0%	1.2%		0.8%	1.0%	1.2%	1.2%	1.1%	1.1%	1.2%
24		1.0%	0.9%		0.2%	1.5%	1.1%	0.7%	1.1%	1.0%	1.0%
9		0.9%	0.6%		0.7%	1.0%	1.0%	0.6%	0.6%	0.6%	0.6%
18		0.9%	0.3%		1.7%	0.6%	0.0%	0.9%	0.3%	0.2%	-0.2%
15		0.8%	1.8%		0.9%	1.2%	0.0%	2.4%	1.4%	1.8%	1.6%
27		0.5%	0.9%		0.2%	0.3%	0.4%	0.7%	0.7%	0.7%	1.4%
2		-2.0%	-0.1%		-3.9%	-3.2%	-1.9%	-0.5%	0.0%	0.1%	0.0%
MEDIAN		1.3%	1.0%		1.5%	1.5%	1.2%	1.2%	0.8%	0.7%	1.2%
MEAN		1.2%	1.3%		1.2%	1.3%	1.3%	2.3%	1.0%	0.8%	1.2%
STD DEV		0.8%	1.5%		1.2%	1.2%	1.3%	5.8%	0.6%	0.8%	1.4%
HIGH		2.6%	8.4%		3.4%	3.4%	6.5%	31.6%	2.5%	2.0%	7.0%
LOW		-2.0%	-0.1%		-3.9%	-3.2%	-1.9%	-0.5%	0.0%	-1.6%	-0.7%

Table 12 - Industrial production

Individual	Q4 over Q4			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	-1.6%			-1.5%							
16		2.3%	4.7%		3.9%	3.9%	3.8%	3.8%	3.8%	3.7%	7.5%
1		1.5%	2.5%		2.4%	2.4%	3.5%	2.9%	2.7%	2.4%	1.9%
3		1.1%	2.2%		0.0%	3.9%	2.7%	3.1%	3.4%	1.1%	1.1%
8		1.0%	16.8%		-1.0%	-4.6%	12.6%	16.7%	16.0%	17.3%	17.3%
14		0.9%	0.7%		2.3%	1.9%	1.5%	1.5%	0.8%	0.4%	0.0%
6		0.7%	2.8%		0.0%	2.4%	2.8%	2.8%	2.8%	2.8%	2.8%
7		0.7%	2.7%		0.4%	1.3%	3.4%	3.1%	2.9%	2.6%	2.2%
4		0.6%	4.1%		-0.9%	2.0%	3.7%	4.0%	4.2%	4.1%	4.0%
9		0.6%	1.1%		1.5%	1.5%	1.5%	1.1%	1.1%	1.1%	1.1%
11		0.5%	2.9%		0.1%	1.1%	3.3%	3.2%	3.1%	2.8%	2.4%
26		0.5%	1.3%		1.9%	1.2%	1.1%	1.1%	1.1%	1.1%	1.9%
5		0.5%	0.2%		0.8%	1.5%	1.9%	2.3%	0.8%	-0.8%	-1.5%
13		0.3%	1.9%		-0.9%	1.9%	2.5%	2.6%	2.2%	1.1%	1.7%
19		0.2%	1.3%		0.4%	0.8%	1.9%	1.9%	1.5%	1.1%	0.8%
2		0.2%	1.0%		0.0%	1.9%	1.2%	0.8%	1.9%	0.8%	0.8%
15		0.2%	2.3%		-0.7%	2.3%	1.5%	1.7%	2.2%	3.0%	2.1%
10		0.0%	4.5%		-1.5%	0.6%	3.0%	4.1%	4.7%	4.7%	4.7%
12		-0.2%	1.7%		-0.4%	1.0%	1.0%	1.0%	1.0%	1.7%	3.0%
27		-0.4%	-0.5%		1.5%	-0.4%	-0.4%	-0.4%	-0.4%	-0.8%	-0.4%
17		-0.4%	1.2%		-0.4%	0.3%	0.8%	1.1%	1.2%	1.3%	1.4%
18		-0.4%	3.8%		-0.7%	-0.2%	1.6%	3.6%	3.7%	4.1%	3.6%
21		-0.7%	1.0%		-0.4%	-0.1%	0.1%	0.6%	1.1%	1.2%	1.1%
24		-0.7%	1.2%		0.0%	-2.7%	2.3%	2.7%	1.9%	-0.8%	0.8%
22		-0.9%	2.4%		-0.9%	-2.1%	1.6%	2.5%	1.5%	1.9%	3.6%
20		-1.0%	-0.4%		-1.9%	-0.4%	0.8%	0.4%	0.1%	-2.8%	0.8%
23		-1.5%	-1.0%		-1.3%	-2.7%	0.5%	1.6%	-0.1%	-1.8%	-3.8%
25		-1.6%	0.5%		-0.8%	-2.3%	-1.2%	0.4%	-1.2%	1.6%	1.2%
MEDIAN		0.2%	1.7%		0.0%	1.1%	1.6%	2.3%	1.9%	1.3%	1.7%
MEAN		0.1%	2.3%		0.1%	0.6%	2.2%	2.6%	2.4%	2.0%	2.3%
STD DEV		0.9%	3.2%		1.3%	2.0%	2.4%	3.0%	3.0%	3.5%	3.6%
HIGH		2.3%	16.8%		3.9%	3.9%	12.6%	16.7%	16.0%	17.3%	17.3%
LOW		-1.6%	-1.0%		-1.9%	-4.6%	-1.2%	-0.4%	-1.2%	-2.8%	-3.8%

Table 13 - Car and light truck sales (millions)

Individual	2015	2016	2017	Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	17.3			17.1							
8		17.8	18.2		17.9	18.0	18.0	18.1	18.2	18.2	18.3
22		17.6	17.5		17.9	17.9	17.7	17.7	17.6	17.4	17.4
10		17.6	17.8		17.6	17.7	18.1	17.8	17.8	17.8	17.7
15		17.6	17.4		17.5	17.8	17.9	17.9	17.5	17.2	17.1
4		17.6	17.8		17.5	17.8	17.8	17.8	17.8	17.8	17.7
23		17.6	17.0		17.8	17.8	17.5	17.4	17.1	16.8	16.7
16		17.6	17.6		17.5	17.7	17.9	17.8	17.5	17.5	17.4
26		17.5	17.8		17.4	17.6	17.7	17.7	17.7	17.8	17.8
27		17.4	16.9		17.8	17.5	17.3	17.2	17.0	16.7	16.5
6		17.3	17.5		17.3	17.4	17.5	17.4	17.5	17.5	17.5
25		17.3	17.8		17.0	17.4	17.7	17.8	17.6	18.0	17.9
19		17.3	17.4		17.2	17.5	17.4	17.4	17.4	17.4	17.4
11		17.3	17.0		17.3	17.4	17.3	17.2	17.0	16.9	16.8
2		17.3	17.2		17.2	17.3	17.5	17.3	17.1	17.0	17.2
12		17.3	17.3		17.3	17.3	17.3	17.3	17.3	17.3	17.3
5		17.3	16.8		17.4	17.3	17.2	16.9	16.8	16.8	16.9
20		17.2	17.0		17.3	17.5	16.9	16.8	16.9	17.1	17.1
9		17.2	17.3		17.2	17.2	17.2	17.3	17.3	17.3	17.3
17		17.1	16.5		17.2	17.2	17.0	16.9	16.6	16.4	16.3
21		17.1	17.0		17.2	17.1	17.1	17.0	17.0	17.0	17.0
13		17.1	16.8		17.2	17.1	17.0	16.9	16.8	16.7	16.6
14		17.1	16.8		17.1	17.0	17.2	17.1	17.0	16.8	16.2
3		17.1	16.8		17.2	17.1	17.0	16.9	16.8	16.7	16.6
24		16.9	16.1		17.0	16.8	16.5	16.5	16.0	16.0	16.0
18		16.8	16.5		17.0	16.6	16.5	16.5	16.7	16.5	16.4
MEDIAN		17.3	17.2		17.3	17.4	17.3	17.3	17.1	17.1	17.1
MEAN		17.3	17.2		17.4	17.4	17.4	17.3	17.2	17.1	17.1
STD DEV		0.2	0.5		0.3	0.3	0.4	0.4	0.5	0.5	0.6
HIGH		17.8	18.2		17.9	18.0	18.1	18.1	18.2	18.2	18.3
LOW		16.8	16.1		17.0	16.6	16.5	16.5	16.0	16.0	16.0

Table 14 - Housing starts (millions)

Individual	2015	2016	2017	Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	1.11			1.15							
1		1.29	1.59		1.25	1.34	1.42	1.44	1.55	1.65	1.70
9		1.25	1.30		1.25	1.30	1.30	1.30	1.30	1.30	1.30
15		1.24	1.35		1.24	1.28	1.29	1.25	1.39	1.38	1.37
19		1.22	1.34		1.20	1.25	1.30	1.29	1.33	1.37	1.39
7		1.21	1.39		1.19	1.22	1.28	1.33	1.38	1.41	1.44
13		1.20	1.26		1.22	1.23	1.24	1.24	1.25	1.26	1.28
3		1.20	1.25		1.22	1.22	1.23	1.24	1.25	1.25	1.27
4		1.19	1.35		1.16	1.22	1.26	1.30	1.34	1.37	1.40
11		1.19	1.41		1.16	1.20	1.27	1.33	1.39	1.43	1.48
5		1.19	1.33		1.19	1.20	1.23	1.26	1.30	1.35	1.41
16		1.19	1.30		1.17	1.21	1.23	1.25	1.28	1.32	1.36
10		1.18	1.36		1.16	1.19	1.23	1.29	1.34	1.39	1.43
20		1.17	1.18		1.19	1.15	1.21	1.19	1.15	1.20	1.19
14		1.17	1.18		1.15	1.19	1.20	1.22	1.22	1.16	1.10
8		1.17	1.38		1.14	1.17	1.23	1.31	1.36	1.40	1.44
2		1.16	1.21		1.15	1.17	1.19	1.19	1.20	1.21	1.22
21		1.16	1.20		1.14	1.17	1.18	1.19	1.20	1.20	1.21
22		1.15	1.29		1.14	1.16	1.19	1.26	1.28	1.28	1.34
18		1.15	1.25		1.14	1.15	1.20	1.20	1.25	1.29	1.27
6		1.15	1.23		1.14	1.15	1.18	1.20	1.22	1.24	1.26
25		1.15	1.20		1.13	1.16	1.17	1.16	1.18	1.21	1.24
26		1.15	1.17		1.14	1.15	1.16	1.17	1.17	1.17	1.17
23		1.15	1.23		1.13	1.15	1.17	1.22	1.22	1.20	1.27
12		1.15	1.19		1.14	1.15	1.16	1.17	1.19	1.20	1.21
24		1.14	1.17		1.12	1.14	1.16	1.18	1.17	1.16	1.17
17		1.13	1.12		1.13	1.13	1.13	1.12	1.12	1.12	1.12
27		1.09	0.99		1.11	1.08	1.05	1.04	1.00	0.98	0.95
MEDIAN		1.17	1.25		1.15	1.17	1.21	1.24	1.25	1.26	1.27
MEAN		1.18	1.27		1.17	1.19	1.22	1.23	1.26	1.28	1.30
STD DEV		0.04	0.11		0.04	0.06	0.07	0.08	0.11	0.13	0.14
HIGH		1.29	1.59		1.25	1.34	1.42	1.44	1.55	1.65	1.70
LOW		1.09	0.99		1.11	1.08	1.05	1.04	1.00	0.98	0.95

Table 15 - Oil price (dollars per barrel of West Texas Intermediate)

Individual	Q4 value			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	\$42.02			\$33.36							
23		\$53.68	\$50.00		\$48.64	\$53.66	\$53.68	\$56.68	\$59.60	\$55.28	\$50.00
16		\$52.00	\$60.00		\$44.00	\$48.00	\$52.00	\$54.00	\$56.00	\$58.00	\$60.00
14		\$52.00	\$68.00		\$42.00	\$48.00	\$52.00	\$55.00	\$58.00	\$62.00	\$68.00
20		\$51.30	\$57.00		\$43.40	\$48.70	\$51.30	\$49.80	\$54.00	\$56.00	\$57.00
22		\$50.49	\$55.13		\$47.46	\$52.08	\$50.49	\$52.05	\$55.28	\$53.77	\$55.13
3		\$50.00	\$50.00		\$43.00	\$45.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00
18		\$47.69	\$57.60		\$41.50	\$45.80	\$47.69	\$51.48	\$53.80	\$55.58	\$57.60
1		\$47.13	\$48.94		\$42.19	\$46.11	\$47.13	\$47.77	\$48.20	\$48.53	\$48.94
7		\$47.00	\$50.00		\$43.00	\$45.00	\$47.00	\$48.00	\$49.00	\$50.00	\$50.00
11		\$46.04	\$48.03		\$41.60	\$45.02	\$46.04	\$46.56	\$47.22	\$47.53	\$48.03
6		\$46.00	\$52.50		\$43.50	\$44.00	\$46.00	\$45.00	\$47.00	\$50.00	\$52.50
13		\$45.00	\$50.00		\$43.00	\$44.00	\$45.00	\$45.00	\$50.00	\$55.00	\$50.00
2		\$45.00	\$58.00		\$43.00	\$46.00	\$45.00	\$50.00	\$53.00	\$55.00	\$58.00
10		\$45.00	\$50.36		\$43.50	\$46.00	\$45.00	\$47.14	\$48.21	\$49.29	\$50.36
19		\$43.99	\$46.67		\$39.94	\$42.75	\$43.99	\$44.66	\$45.61	\$46.35	\$46.67
4		\$43.00	\$47.00		\$41.00	\$42.00	\$43.00	\$44.00	\$45.00	\$46.00	\$47.00
25		\$41.89	\$48.90		\$36.48	\$40.85	\$41.89	\$42.21	\$44.01	\$46.17	\$48.90
21		\$41.00	\$46.00		\$41.00	\$41.00	\$41.00	\$41.00	\$42.00	\$44.00	\$46.00
17		\$40.62	\$44.40		\$32.27	\$37.73	\$40.62	\$42.20	\$43.10	\$43.66	\$44.40
26		\$40.00	\$45.00		\$35.00	\$38.00	\$40.00	\$42.00	\$43.00	\$44.00	\$45.00
15		\$40.00	\$48.00		\$43.00	\$43.00	\$40.00	\$45.00	\$44.00	\$45.00	\$48.00
12		\$38.15	\$45.90		\$39.86	\$39.16	\$38.15	\$41.37	\$46.29	\$50.64	\$45.90
8		\$35.64	\$45.97		\$35.11	\$35.32	\$35.64	\$36.37	\$38.03	\$42.00	\$45.97
24		\$35.00	\$40.00		\$40.00	\$40.00	\$35.00	\$35.00	\$40.00	\$35.00	\$40.00
5		\$33.50	\$31.80		\$32.01	\$33.72	\$33.50	\$32.70	\$32.50	\$33.20	\$31.80
27		\$25.00	\$37.00		\$33.00	\$22.00	\$25.00	\$27.00	\$30.00	\$33.00	\$37.00
MEDIAN		\$45.00	\$48.92		\$41.80	\$44.00	\$45.00	\$45.00	\$47.11	\$48.91	\$48.92
MEAN		\$43.70	\$49.32		\$40.71	\$42.80	\$43.70	\$45.08	\$47.03	\$48.27	\$49.32
STD DEV		\$6.53	\$7.21		\$4.22	\$6.20	\$6.53	\$6.82	\$7.06	\$7.18	\$7.21
HIGH		\$53.68	\$68.00		\$48.64	\$53.66	\$53.68	\$56.68	\$59.60	\$62.00	\$68.00
LOW		\$25.00	\$31.80		\$32.01	\$22.00	\$25.00	\$27.00	\$30.00	\$33.00	\$31.80

Table 16 - Unemployment rate

Individual	Q4 value			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	5.0%			4.9%							
27		5.8%	6.3%		5.4%	5.6%	5.8%	5.9%	6.0%	6.1%	6.3%
12		5.2%	5.2%		5.1%	5.1%	5.2%	5.3%	5.3%	5.3%	5.2%
24		5.2%	5.6%		5.0%	5.0%	5.2%	5.4%	5.6%	5.6%	5.6%
23		5.1%	7.0%		4.9%	5.0%	5.1%	5.2%	5.3%	5.8%	7.0%
5		5.1%	5.1%		5.0%	5.1%	5.1%	5.0%	5.0%	5.1%	5.1%
16		5.1%	5.2%		5.0%	5.0%	5.1%	5.1%	5.2%	5.2%	5.2%
18		5.1%	5.1%		5.0%	5.0%	5.1%	5.1%	5.0%	5.1%	5.1%
22		5.0%	5.4%		4.9%	5.0%	5.0%	5.0%	5.1%	5.3%	5.4%
10		5.0%	4.8%		5.0%	5.0%	5.0%	5.0%	5.0%	4.9%	4.8%
25		5.0%	5.2%		4.9%	4.8%	5.0%	5.1%	5.2%	5.1%	5.2%
4		4.9%	4.7%		5.0%	4.9%	4.9%	4.9%	4.9%	4.8%	4.7%
26		4.9%	5.0%		4.9%	4.9%	4.9%	5.0%	5.0%	5.0%	5.0%
2		4.9%	4.9%		5.0%	4.9%	4.9%	4.9%	4.9%	4.9%	4.9%
7		4.9%	4.5%		5.0%	4.9%	4.9%	4.8%	4.7%	4.6%	4.5%
14		4.9%	5.6%		4.9%	4.9%	4.9%	4.9%	5.0%	5.3%	5.6%
8		4.9%	4.8%		4.9%	4.9%	4.9%	4.8%	4.8%	4.8%	4.8%
21		4.8%	4.7%		5.0%	4.9%	4.8%	4.8%	4.8%	4.7%	4.7%
9		4.8%	4.8%		4.9%	4.8%	4.8%	4.8%	4.8%	4.8%	4.8%
11		4.8%	4.5%		4.9%	4.8%	4.8%	4.7%	4.6%	4.5%	4.5%
20		4.7%	5.0%		4.8%	4.9%	4.7%	4.8%	4.9%	5.0%	5.0%
3		4.7%	4.5%		4.9%	4.8%	4.7%	4.6%	4.6%	4.5%	4.5%
6		4.7%	4.4%		4.9%	4.8%	4.7%	4.7%	4.6%	4.5%	4.4%
17		4.7%	4.6%		4.9%	4.8%	4.7%	4.7%	4.7%	4.7%	4.6%
19		4.7%	4.6%		4.8%	4.7%	4.7%	4.7%	4.7%	4.6%	4.6%
13		4.7%	4.4%		4.9%	4.8%	4.7%	4.6%	4.5%	4.4%	4.4%
15		4.6%	4.4%		5.0%	4.7%	4.6%	4.6%	4.6%	4.4%	4.4%
1		4.5%	4.3%		4.8%	4.6%	4.5%	4.4%	4.3%	4.3%	4.3%
MEDIAN		4.9%	4.8%		4.9%	4.9%	4.9%	4.9%	4.9%	4.9%	4.8%
MEAN		4.9%	5.0%		4.9%	4.9%	4.9%	4.9%	4.9%	4.9%	5.0%
STD DEV		0.3%	0.6%		0.1%	0.2%	0.3%	0.3%	0.4%	0.4%	0.6%
HIGH		5.8%	7.0%		5.4%	5.6%	5.8%	5.9%	6.0%	6.1%	7.0%
LOW		4.5%	4.3%		4.8%	4.6%	4.5%	4.4%	4.3%	4.3%	4.3%

Table 17 - Inflation rate (consumer price index)

Individual	Q4 over Q4			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	0.4%			-0.3%							
23		2.0%	3.0%		2.2%	1.4%	4.8%	3.0%	3.5%	2.5%	3.1%
11		1.9%	2.1%		2.2%	2.8%	2.9%	2.3%	1.8%	2.0%	2.2%
7		1.9%	2.1%		2.2%	2.8%	2.9%	2.3%	1.9%	2.1%	2.2%
1		1.9%	2.1%		2.1%	2.8%	2.9%	2.3%	1.9%	2.1%	2.3%
22		1.8%	2.8%		2.0%	1.3%	4.3%	2.5%	3.2%	2.6%	2.9%
21		1.7%	2.4%		2.7%	2.5%	2.0%	2.0%	2.3%	2.5%	2.6%
15		1.7%	2.0%		2.9%	2.1%	2.2%	2.0%	1.9%	1.9%	2.2%
13		1.7%	2.2%		2.4%	2.4%	2.2%	2.1%	2.2%	2.3%	2.4%
9		1.5%	2.1%		2.0%	2.2%	2.1%	2.1%	2.1%	2.2%	2.2%
8		1.5%	2.5%		1.7%	1.0%	3.6%	1.7%	2.8%	2.7%	2.5%
3		1.4%	2.1%		1.9%	2.0%	2.1%	2.0%	2.1%	2.1%	2.2%
4		1.3%	2.1%		1.7%	1.8%	2.0%	2.0%	2.1%	2.1%	2.2%
14		1.2%	1.4%		1.6%	1.7%	1.7%	1.6%	1.5%	1.4%	1.3%
10		1.2%	2.1%		4.5%	1.6%	-1.1%	2.8%	4.5%	1.7%	-0.5%
6		1.1%	2.4%		1.0%	1.5%	2.4%	2.4%	2.4%	2.4%	2.4%
12		1.1%	2.0%		1.4%	1.6%	1.9%	1.9%	2.0%	2.1%	2.2%
5		1.1%	2.0%		1.5%	1.6%	1.7%	1.9%	2.0%	2.0%	2.2%
17		1.1%	1.2%		2.2%	1.6%	0.8%	0.0%	2.0%	1.8%	0.9%
18		1.0%	2.8%		0.4%	1.7%	2.4%	2.5%	2.9%	3.3%	2.7%
20		1.0%	1.7%		1.7%	1.6%	1.2%	0.9%	1.8%	2.2%	2.0%
19		0.7%	1.6%		0.8%	1.0%	1.2%	1.5%	1.6%	1.7%	1.8%
16		0.6%	1.7%		0.8%	0.9%	1.0%	1.3%	1.6%	1.8%	2.2%
2		0.4%	1.8%		0.3%	0.5%	1.0%	1.4%	1.8%	2.0%	2.2%
25		0.2%	0.9%		0.2%	0.4%	0.7%	0.8%	0.9%	1.0%	1.1%
27		0.1%	0.5%		0.2%	0.3%	0.4%	0.4%	0.5%	0.5%	0.5%
26		0.0%	0.5%		-0.2%	0.3%	0.4%	0.5%	0.5%	0.6%	0.6%
MEDIAN		1.2%	2.1%		1.7%	1.6%	2.0%	2.0%	2.0%	2.1%	2.2%
MEAN		1.2%	1.9%		1.6%	1.6%	1.9%	1.8%	2.1%	2.0%	1.9%
STD DEV		0.6%	0.6%		1.0%	0.7%	1.2%	0.7%	0.8%	0.6%	0.8%
HIGH		2.0%	3.0%		4.5%	2.8%	4.8%	3.0%	4.5%	3.3%	3.1%
LOW		0.0%	0.5%		-0.2%	0.3%	-1.1%	0.0%	0.5%	0.5%	-0.5%

Table 18 - Treasury constant maturity - 1 year rate

Individual	Q4 value			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	0.46%			0.58%							
6		1.67%	2.68%		1.23%	1.40%	1.67%	1.95%	2.23%	2.51%	2.68%
15		1.31%	2.15%		0.76%	1.16%	1.31%	1.48%	1.56%	1.90%	2.15%
23		1.11%	1.77%		0.65%	0.79%	1.11%	1.36%	1.51%	1.73%	1.77%
11		1.09%	2.19%		0.66%	0.86%	1.09%	1.38%	1.66%	1.94%	2.19%
7		1.06%	2.12%		0.55%	0.70%	1.06%	1.36%	1.63%	1.90%	2.12%
22		1.02%	1.84%		0.63%	0.79%	1.02%	1.23%	1.39%	1.62%	1.84%
13		1.01%	1.81%		0.65%	0.78%	1.01%	1.07%	1.30%	1.54%	1.81%
8		1.01%	2.03%		0.82%	0.93%	1.01%	1.29%	1.52%	1.79%	2.03%
17		1.00%	1.59%		0.60%	0.85%	1.00%	1.15%	1.33%	1.47%	1.59%
3		1.00%	1.75%		0.65%	0.76%	1.00%	1.05%	1.30%	1.55%	1.75%
5		1.00%	1.32%		0.80%	1.00%	1.00%	1.25%	1.25%	1.25%	1.32%
9		1.00%	1.85%		0.61%	0.82%	1.00%	1.20%	1.38%	1.62%	1.85%
21		0.94%	1.90%		0.61%	0.75%	0.94%	1.16%	1.38%	1.64%	1.90%
14		0.90%	0.85%		0.59%	0.60%	0.90%	1.02%	1.04%	0.90%	0.85%
2		0.90%	2.20%		0.50%	0.60%	0.90%	1.30%	1.80%	2.00%	2.20%
16		0.80%	1.60%		0.60%	0.62%	0.80%	1.00%	1.20%	1.40%	1.60%
12		0.80%	1.00%		0.60%	0.80%	0.80%	0.80%	0.80%	1.00%	1.00%
27		0.75%	0.75%		0.45%	0.75%	0.75%	0.75%	0.75%	0.75%	0.75%
19		0.68%	0.71%		0.61%	0.63%	0.68%	0.71%	0.72%	0.70%	0.71%
26		0.60%	0.61%		0.58%	0.59%	0.60%	0.60%	0.60%	0.61%	0.61%
24		0.60%	0.80%		0.55%	0.55%	0.60%	0.60%	0.80%	0.80%	0.80%
20		0.59%	0.71%		0.55%	0.66%	0.59%	0.60%	0.62%	0.68%	0.71%
25		0.56%	0.68%		0.55%	0.53%	0.56%	0.58%	0.61%	0.64%	0.68%
18		0.45%	1.11%		0.59%	0.41%	0.45%	0.44%	0.58%	0.69%	1.11%
MEDIAN		0.97%	1.68%		0.60%	0.76%	0.97%	1.11%	1.30%	1.51%	1.68%
MEAN		0.91%	1.50%		0.64%	0.76%	0.91%	1.06%	1.21%	1.36%	1.50%
STD DEV		0.26%	0.60%		0.15%	0.21%	0.26%	0.35%	0.43%	0.53%	0.60%
HIGH		1.67%	2.68%		1.23%	1.40%	1.67%	1.95%	2.23%	2.51%	2.68%
LOW		0.45%	0.61%		0.45%	0.41%	0.45%	0.44%	0.58%	0.61%	0.61%

Table 19 - Treasury constant maturity - 10 year rate

Individual	Q4 value			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	2.19%			1.92%							
14		2.85%	2.60%		2.60%	2.70%	2.85%	2.90%	2.95%	2.65%	2.60%
2		2.80%	3.80%		2.20%	2.50%	2.80%	3.20%	3.50%	3.70%	3.80%
9		2.60%	3.25%		2.00%	2.30%	2.60%	2.80%	2.90%	3.10%	3.25%
11		2.46%	3.22%		1.97%	2.25%	2.46%	2.68%	2.88%	3.06%	3.22%
12		2.40%	2.70%		2.00%	2.20%	2.40%	2.40%	2.60%	2.70%	2.70%
17		2.38%	2.69%		2.27%	2.41%	2.38%	2.37%	2.53%	2.61%	2.69%
8		2.36%	2.67%		1.91%	2.22%	2.36%	2.47%	2.53%	2.60%	2.67%
7		2.36%	3.10%		1.84%	2.04%	2.36%	2.58%	2.77%	2.95%	3.10%
22		2.34%	2.47%		1.92%	2.25%	2.34%	2.50%	2.46%	2.47%	2.47%
23		2.33%	2.90%		1.93%	2.26%	2.33%	2.51%	2.60%	2.70%	2.90%
5		2.30%	2.74%		2.20%	2.50%	2.30%	2.60%	2.50%	2.62%	2.74%
21		2.28%	3.21%		1.84%	2.02%	2.28%	2.51%	2.74%	2.98%	3.21%
18		2.28%	2.81%		1.83%	2.11%	2.28%	2.37%	2.45%	2.57%	2.81%
1		2.25%	2.93%		1.95%	2.10%	2.25%	2.25%	2.48%	2.70%	2.93%
19		2.25%	2.25%		2.05%	1.95%	2.25%	2.19%	2.20%	2.25%	2.25%
16		2.20%	2.70%		2.00%	2.10%	2.20%	2.40%	2.50%	2.60%	2.70%
3		2.20%	2.95%		1.85%	1.96%	2.20%	2.25%	2.50%	2.75%	2.95%
6		2.17%	2.95%		1.81%	1.95%	2.17%	2.38%	2.60%	2.81%	2.95%
25		2.12%	2.19%		1.95%	2.01%	2.12%	2.07%	2.16%	2.24%	2.19%
4		2.12%	2.61%		1.81%	1.93%	2.12%	2.31%	2.45%	2.55%	2.61%
10		2.10%	2.60%		1.80%	1.90%	2.10%	2.30%	2.44%	2.54%	2.60%
15		2.03%	2.53%		1.84%	1.93%	2.03%	2.17%	2.30%	2.50%	2.53%
13		2.02%	2.47%		1.89%	1.95%	2.02%	2.11%	2.22%	2.38%	2.47%
27		2.00%	2.20%		1.85%	1.95%	2.00%	2.10%	2.20%	2.20%	2.20%
26		1.99%	2.10%		1.95%	1.99%	1.99%	2.00%	2.00%	2.10%	2.10%
20		1.85%	1.90%		1.82%	1.89%	1.85%	1.99%	2.05%	2.00%	1.90%
24		1.70%	1.55%		1.75%	1.70%	1.70%	1.65%	1.60%	1.60%	1.55%
MEDIAN		2.25%	2.69%		1.92%	2.04%	2.25%	2.37%	2.50%	2.60%	2.69%
MEAN		2.25%	2.67%		1.96%	2.11%	2.25%	2.37%	2.49%	2.59%	2.67%
STD DEV		0.25%	0.46%		0.18%	0.22%	0.25%	0.31%	0.35%	0.39%	0.46%
HIGH		2.85%	3.80%		2.60%	2.70%	2.85%	3.20%	3.50%	3.70%	3.80%
LOW		1.70%	1.55%		1.75%	1.70%	1.70%	1.65%	1.60%	1.60%	1.55%

Table 20 - J.P. Morgan trade weighted OECD dollar

Individual	Q4 over Q4			Q116	Q216	Q316	Q416	Q117	Q217	Q317	Q417
	2015	2016	2017								
	11.6%			7.9%							
2		7.4%	11.2%		1.8%	1.5%	2.0%	2.5%	3.0%	2.8%	2.5%
25		7.2%	5.3%		1.7%	1.5%	1.9%	1.4%	1.6%	1.0%	1.2%
14		7.2%	7.5%		1.4%	1.8%	1.9%	1.9%	1.9%	1.8%	1.7%
16		6.9%	6.3%		1.6%	1.6%	1.6%	1.7%	1.5%	1.5%	1.5%
5		6.3%	4.7%		1.2%	0.8%	2.2%	2.0%	1.8%	1.4%	-0.6%
26		5.4%	4.1%		1.2%	1.2%	1.0%	1.0%	1.0%	1.0%	1.0%
20		2.6%	3.8%		-1.8%	2.2%	0.3%	1.2%	1.9%	0.5%	0.2%
23		2.3%	-0.8%		-1.2%	1.3%	0.3%	0.1%	0.4%	0.0%	-1.2%
22		0.8%	-1.6%		-2.4%	1.2%	0.1%	-0.2%	0.0%	-0.3%	-1.0%
8		0.5%	-1.1%		-2.1%	0.7%	0.1%	-0.2%	-0.3%	-0.3%	-0.3%
18		0.5%	-4.1%		-0.5%	-0.4%	-0.5%	-0.5%	-1.1%	-1.3%	-1.2%
6		-0.6%	2.2%		-4.1%	0.6%	1.1%	0.5%	0.5%	0.5%	0.5%
15		-4.9%	-3.5%		-3.4%	-1.4%	-2.0%	-1.3%	-1.1%	-0.7%	-0.5%
21		-11.3%	0.0%		-13.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
MEDIAN		2.4%	3.0%		-0.9%	1.2%	0.7%	0.8%	0.8%	0.5%	0.1%
MEAN		2.2%	2.4%		-1.4%	0.9%	0.7%	0.7%	0.8%	0.6%	0.3%
STD DEV		5.2%	4.3%		3.8%	0.9%	1.1%	1.1%	1.2%	1.1%	1.1%
HIGH		7.4%	11.2%		1.8%	2.2%	2.2%	2.5%	3.0%	2.8%	2.5%
LOW		-11.3%	-4.1%		-13.0%	-1.4%	-2.0%	-1.3%	-1.1%	-1.3%	-1.2%

Table 21a - Individual forecasts for 2016

Individual	GDP current dollars	GDP price index, Chain-type	Real GDP, chained dollars	Personal consumption expenditures	Business fixed investment	Residential investment	Change in private inventories	Government consumption Net exports	Government expenditures and gross investment
1	3.9%	1.6%	2.3%	2.7%	2.4%	13.6%	\$47.1	-\$624.5	1.3%
2	3.2%	1.1%	2.1%	3.2%	1.7%	6.1%	\$63.6	-\$594.6	-2.0%
3	2.9%	1.4%	2.1%	2.5%	0.4%	10.7%	\$65.0	-\$617.0	1.4%
4	3.2%	1.1%	2.1%	2.5%	0.1%	10.1%	\$53.8	-\$576.8	1.5%
5	3.8%	1.6%	2.1%	1.1%	3.0%	14.0%	\$42.8	-\$536.3	2.6%
6	3.3%	1.3%	1.9%	2.2%	0.0%	7.8%	\$70.0	-\$578.6	1.9%
7	3.5%	1.6%	1.9%	2.7%	1.4%	8.4%	\$32.7	-\$621.8	1.3%
8	3.5%	1.6%	1.9%	2.8%	1.2%	7.9%	\$14.9	-\$613.7	1.5%
9	3.6%	1.6%	1.9%	2.3%	1.3%	10.2%	\$60.0	-\$616.5	0.9%
10	3.0%	1.1%	1.9%	2.5%	0.0%	0.5%	-\$3.3	-\$536.1	1.5%
11	3.4%	1.6%	1.8%	2.7%	1.2%	7.7%	\$29.6	-\$617.5	1.3%
12	2.6%	0.9%	1.8%	2.0%	2.3%	6.6%	\$40.0	-\$572.7	1.3%
13	3.4%	1.6%	1.8%	2.5%	-0.1%	10.1%	\$65.0	-\$613.4	1.5%
14	3.1%	1.0%	1.8%	2.6%	0.9%	9.1%	\$59.0	-\$588.0	1.2%
15	3.4%	1.7%	1.7%	2.4%	-1.4%	10.2%	\$79.6	-\$617.0	0.8%
16	2.0%	1.7%	1.7%	2.3%	-2.0%	8.7%	\$70.0	-\$590.0	1.4%
17	2.6%	0.9%	1.7%	2.5%	-3.7%	8.5%	\$55.0	-\$580.1	1.3%
18	2.9%	1.4%	1.5%	2.3%	-0.2%	7.7%	\$23.9	-\$574.8	0.9%
19	3.4%	1.9%	1.5%	2.5%	1.0%	7.4%	\$30.0	-\$634.3	1.5%
20	3.3%	1.8%	1.5%	2.5%	-2.7%	10.4%	\$45.0	-\$608.6	1.3%
21	3.0%	1.5%	1.5%	2.1%	-0.2%	9.3%	\$69.9	-\$631.4	1.0%
22	2.9%	1.5%	1.4%	2.5%	0.5%	5.7%	\$3.0	-\$628.2	1.4%
23	3.2%	2.1%	1.1%	2.4%	0.1%	4.2%	-\$5.0	-\$637.9	1.4%
24	1.9%	1.5%	0.9%	1.3%	4.2%	1.0%	\$30.0	-\$645.3	1.0%
25	2.3%	0.8%	0.8%	2.5%	-2.6%	11.9%	\$72.1	-\$582.1	1.4%
26	1.0%	0.8%	0.8%	1.4%	6.2%	9.1%	\$60.0	-\$577.0	2.2%
27	1.3%	0.6%	0.7%	0.8%	-0.1%	5.0%	\$75.0	-\$585.0	0.5%
MEDIAN	3.2%	1.5%	1.8%	2.5%	0.4%	8.5%	\$53.8	-\$608.6	1.3%
MEAN	3.0%	1.4%	1.6%	2.3%	0.6%	8.2%	\$46.2	-\$600.0	1.2%
STD DEV	0.7%	0.4%	0.4%	0.5%	2.0%	3.1%	\$23.9	\$28.1	0.8%
HIGH	3.9%	2.1%	2.3%	3.2%	6.2%	14.0%	\$79.6	-\$536.1	2.6%
LOW	1.0%	0.6%	0.7%	0.8%	-3.7%	0.5%	-\$5.0	-\$645.3	-2.0%

Table 21b - Individual forecasts for 2016

Individual	Industrial production	Car & light truck sales	Housing starts	Oil Price	Unemployment rate	Inflation rate (CPI)	Treasury	Treasury	J.P. Morgan
							constant maturity one-year rate	constant maturity ten-year rate	trade weighted OECD dollar
1	1.5%		1.29	\$47.13	4.5%	1.9%		2.25%	
2	0.2%	17.3	1.16	\$45.00	4.9%	0.4%	0.90%	2.80%	7.4%
3	1.1%	17.1	1.20	\$50.00	4.7%	1.4%	1.00%	2.20%	
4	0.6%	17.6	1.19	\$43.00	4.9%	1.3%		2.12%	
5	0.5%	17.3	1.19	\$33.50	5.1%	1.1%	1.00%	2.30%	6.3%
6	0.7%	17.3	1.15	\$46.00	4.7%	1.1%	1.67%	2.17%	-0.6%
7	0.7%		1.21	\$47.00	4.9%	1.9%	1.06%	2.36%	
8	1.0%	17.8	1.17	\$35.64	4.9%	1.5%	1.01%	2.36%	0.5%
9	0.6%	17.2	1.25		4.8%	1.5%	1.00%	2.60%	
10	0.0%	17.6	1.18	\$45.00	5.0%	1.2%		2.10%	
11	0.5%	17.3	1.19	\$46.04	4.8%	1.9%	1.09%	2.46%	
12	-0.2%	17.3	1.15	\$38.15	5.2%	1.1%	0.80%	2.40%	
13	0.3%	17.1	1.20	\$45.00	4.7%	1.7%	1.01%	2.02%	
14	0.9%	17.1	1.17	\$52.00	4.9%	1.2%	0.90%	2.85%	7.2%
15	0.2%	17.6	1.24	\$40.00	4.6%	1.7%	1.31%	2.03%	-4.9%
16	2.3%	17.6	1.19	\$52.00	5.1%	0.6%	0.8%	2.20%	6.9%
17	-0.4%	17.1	1.13	\$40.62	4.7%	1.1%	1.00%	2.38%	
18	-0.4%	16.8	1.15	\$47.69	5.1%	1.0%	0.45%	2.28%	0.5%
19	0.2%	17.3	1.22	\$43.99	4.7%	0.7%	0.68%	2.25%	
20	-1.0%	17.2	1.17	\$51.30	4.7%	1.0%	0.59%	1.85%	2.6%
21	-0.7%	17.1	1.16	\$41.00	4.8%	1.7%	0.94%	2.28%	-11.3%
22	-0.9%	17.6	1.15	\$50.49	5.0%	1.8%	1.02%	2.34%	0.8%
23	-1.5%	17.6	1.15	\$53.68	5.1%	2.0%	1.11%	2.33%	2.3%
24	-0.7%	16.9	1.14	\$35.00	5.2%		0.60%	1.70%	
25	-1.6%	17.3	1.15	\$41.89	5.0%	0.2%	0.56%	2.12%	7.2%
26	0.5%	17.5	1.15	\$40.00	4.9%	0.0%	0.60%	1.99%	5.4%
27	-0.4%	17.4	1.09	\$25.00	5.8%	0.1%	0.75%	2.00%	
MEDIAN	0.2%	17.3	1.17	\$45.00	4.9%	1.2%	0.97%	2.25%	2.4%
MEAN	0.1%	17.3	1.18	\$43.70	4.9%	1.2%	0.91%	2.25%	2.2%
STD DEV	0.9%	0.2	0.04	\$6.53	0.3%	0.6%	0.26%	0.25%	5.2%
HIGH	2.3%	17.8	1.29	\$53.68	5.8%	2.0%	1.67%	2.85%	7.4%
LOW	-1.6%	16.8	1.09	\$25.00	4.5%	0.0%	0.45%	1.70%	-11.3%

Contributors

Bryan Bezold	Ford Motor Company
Charles Chesbrough	Original Equipment Suppliers Association
Rajeev Dhawan	Georgia State University
Robert Dicianni	ArcelorMittal USA LLC
Gabriel M. Ehrlich; Matthew G. Hall; Daniil Manaenkov; Ben S. Meiselman; Aditi Thapar	RSQE - University of Michigan
Megan Fietsam	State Farm
William Hickey	DTE Energy
Sam Kahan and Kenny Vieth	ACT Research
Jack Kleinhenz	Kleinhenz & Associates
Ken Mayland	ClearView Economics, LLC
Lawrence Nelson	Macroeconomic Advisers
Bernard J. Paniak	BJP Economics
Thomas J. Portz	Sterling Capital Management, Inc.
Arun Raha and Maira Trimble	Eaton
Matías Scaglione	Wisconsin Department of Workforce Development
William Shearin	Center Punch Economics
John Silvia	Wells Fargo Securities
Romina Soria	Wisconsin DOR
Laura Spingola	Trade Resources Ltd.
Jim Stansell	Michigan House Fiscal Agency
Sue Yingzi Su	General Motors
Carl Tannenbaum	Northern Trust
Todd Tomalak	John Burns Real Estate Consulting
Evert Van Der Heide	Calvin College
Willard (Bill) Witte	Witte Econometrics/FTR Transportation Intelligence
Richard Yamarone	Bloomberg, LP
Mark Zhang	Navistar Inc.