31ST ANNUAL **ECONOMIC SYMPOSIUM**



FRIDAY, DECEMBER 1, 2017

Consensus Outlook for 2018

William A. Strauss Senior Economist and Economic Advisor Associate Economist

Thomas C. Haasl

2016 Economic Outlook Symposium

Forecast Winners

Overall	Richard Yamarone - Bloomberg, LP	
GDP, current dollars	Hui Jiang - Kohler	
GDP price index, chain-type	Hui Jiang - Kohler	
Real GDP, chained dollars	Tom Guthrie - FM Fincorp	
Personal consumption expenditures	Hui Jiang - Kohler	
Business fixed investment	Kenny Vieth - ACT Research	
Residential investment	Robert J.Kolbe - RJK Enterprises, Inc.	
Change in private inventories	John Baker Welch - William Blair	
Net exports	John Silvia - Wells Fargo	
Government consumption expenditures and gross investment	Robert Dicianni - ArcelorMittal USA LLC	
Industrial production	Bryan Bezold - Ford Motor Company	
Car & light truck sales	Amy Ebben - ArcelorMittal	Evert Van Der Heide - Calvin College
Housing starts	Todd Tomalak - John Burns Real Estate Consulting	
Oil Price	Jeff Tennant - OSG USA, INC.	
Unemployment rate	David Lauer - US Bureau of Labor Statistics	
Inflation rate (CPI)	Kenny Vieth - ACT Research	Evert Van Der Heide - Calvin College
Treasury constant maturity one-year rate	Jan Pflugfelder - KOMET	Romina Soria - Wisconsin Department of Revenue
Treasury constant maturity ten-year rate	Jan Pflugfelder - KOMET	
J.P. Morgan broad nominal effective exchange rate	Kenny Vieth - ACT Research	

Table 1 - Median Forecast of GDP and Related Items

	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
GDP, current dollars*	3.4%	4.1%	4.1%	5.2%	3.9%	4.0%	4.1%	4.2%	4.0%
GDP price index, chain-type*	1.5%	1.7%	1.8%	2.2%	1.6%	1.7%	1.7%	1.9%	1.9%
Real GDP, chained dollars*	1.8%	2.5%	2.3%	3.0%	2.6%	2.3%	2.3%	2.3%	2.2%
Personal consumption expenditures*	2.8%	2.6%	2.3%	2.4%	2.8%	2.5%	2.4%	2.4%	2.3%
Business fixed investment*	0.7%	5.4%	3.5%	3.9%	3.9%	3.9%	4.0%	3.9%	3.4%
Residential investment*	2.5%	-0.2%	3.3%	-6.0%	2.5%	4.1%	3.9%	3.9%	3.4%
Change in private inventories (billions of constant dollars)**	\$63.1	\$37.9	\$41.8	\$35.8	\$37.9	\$38.4	\$42.0	\$39.9	\$41.8
Net exports of goods and services (billions of constant dollars)**	-\$631.1	-\$602.7	-\$627.9	-\$595.5	-\$602.7	-\$612.3	-\$618.1	-\$625.0	-\$627.9
Government consumption expenditures and gross investment*	0.4%	-0.1%	0.6%	-0.1%	0.5%	0.6%	0.7%	0.7%	0.8%
Industrial production*	-0.1%	1 9%	1 9%	-0.3%	0.9%	1 9%	1 9%	1 9%	1 7%
Industrial production* Car & light truck sales (millions - calendar year including imports)***	-0.1%	1.9%	1.9%	-0.3%	0.9%	1.9%	1.9%	1.9%	1.7%
Car & light truck sales (millions - calendar year including imports)***	17.5	17.1	17.0	17.1	17.2	17.0	16.9	16.9	16.9
Car & light truck sales (millions - calendar year including imports)*** Housing starts (millions)***	17.5 1.18	17.1 1.19	17.0 1.26	17.1 1.16	17.2 1.19	17.0 1.21	16.9 1.24	16.9 1.23	16.9 1.25
Car & light truck sales (millions - calendar year including imports)***	17.5	17.1	17.0	17.1	17.2	17.0	16.9	16.9	16.9
Car & light truck sales (millions - calendar year including imports)*** Housing starts (millions)***	17.5 1.18	17.1 1.19	17.0 1.26	17.1 1.16	17.2 1.19	17.0 1.21	16.9 1.24	16.9 1.23	16.9 1.25
Car & light truck sales (millions - calendar year including imports)*** Housing starts (millions)*** Oil price (dollars per barrel of West Texas Intermediate)**	17.5 1.18 \$49.20	17.1 1.19 \$52.31	17.0 1.26 \$53.18	17.1 1.16 \$48.16	17.2 1.19 \$52.31	17.0 1.21 \$52.90	16.9 1.24 \$52.23	16.9 1.23 \$52.00	16.9 1.25 \$53.18
Car & light truck sales (millions - calendar year including imports)*** Housing starts (millions)*** Oil price (dollars per barrel of West Texas Intermediate)** Unemployment rate**	17.5 1.18 \$49.20 4.7%	17.1 1.19 \$52.31 4.2%	17.0 1.26 \$53.18 4.1%	17.1 1.16 \$48.16 4.3%	17.2 1.19 \$52.31 4.2%	17.0 1.21 \$52.90 4.1%	16.9 1.24 \$52.23 4.1%	16.9 1.23 \$52.00 4.1%	16.9 1.25 \$53.18 4.1%
Car & light truck sales (millions - calendar year including imports)*** Housing starts (millions)*** Oil price (dollars per barrel of West Texas Intermediate)** Unemployment rate** Inflation rate (consumer price index)*	17.5 1.18 \$49.20 4.7% 1.8%	17.1 1.19 \$52.31 4.2% 1.8%	17.0 1.26 \$53.18 4.1% 2.0%	17.1 1.16 \$48.16 4.3% 2.0%	17.2 1.19 \$52.31 4.2% 2.2%	17.0 1.21 \$52.90 4.1% 2.1%	16.9 1.24 \$52.23 4.1% 2.1%	16.9 1.23 \$52.00 4.1% 2.0%	16.9 1.25 \$53.18 4.1% 2.1%

^{*}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

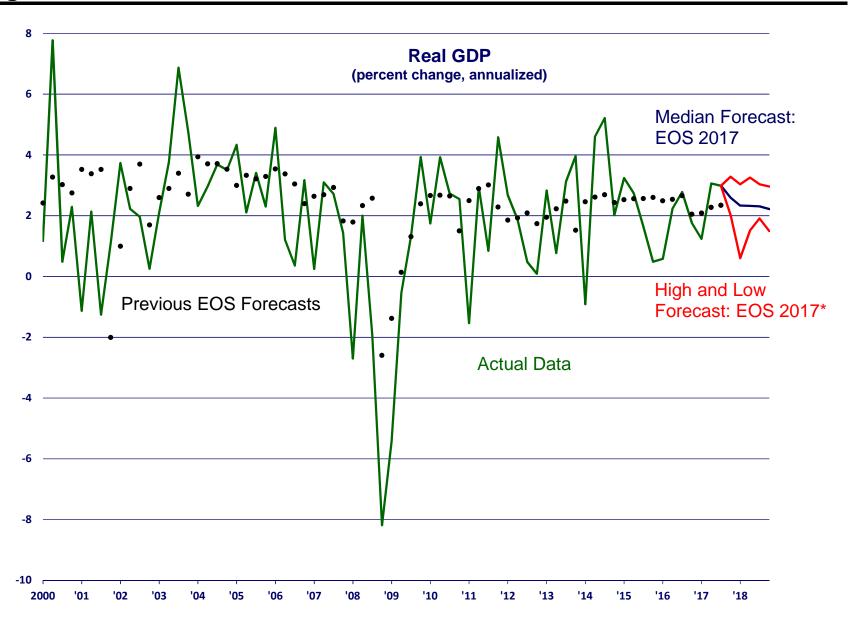
2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
3.4%	4.1%	4.0%	5.2%	3.8%	3.7%	4.2%	4.2%	3.9%
1.5%	1.6%	1.8%	2.2%	1.3%	1.6%	1.7%	2.0%	1.9%
1.8%	2.5%	2.2%	3.0%	2.7%	2.1%	2.4%	2.3%	2.2%
2.8%	2.5%	2.0%	2.4%	2.4%	2.0%	2.1%	2.1%	2.0%
0.7%	5.3%	3.1%	3.9%	3.6%	3.5%	3.2%	3.2%	2.6%
2.5%	-0.3%	3.9%	-6.0%	2.0%	4.6%	5.3%	3.8%	2.5%
\$63.1	\$33.8	\$44.3	\$35.8	\$33.8	\$36.9	\$44.8	\$44.6	\$44.3
-\$631.1	-\$605.1	-\$633.1	-\$595.5	-\$605.1	-\$606.8	-\$621.3	-\$628.9	-\$633.1
0.4%	0.0%	1.1%	-0.1%	1.0%	1.1%	1.2%	1.1%	1.0%
-0.1%	2 0%	1 6%	-0 3%	1 1%	1 5%	1 9%	1 5%	1.8%
								16.8
								1.25
\$49.20	\$52.51	\$52.70	\$48.16	\$52.51	\$52.42	\$52.34	\$52.15	\$52.70
4.7%	4.2%	4.1%	4.3%	4.2%	4.2%	4.2%	4.1%	4.1%
1.8%	1.8%	2.0%	2.0%	2.3%	2.1%	1.9%	2.1%	2.2%
0.76%	1.43%	2.00%	1.24%	1.43%	1.56%	1.71%	1.86%	2.00%
0.7076	1.4070	,					110070	2.0070
2.13%	2.47%	2.94%	2.24%	2.47%	2.58%	2.70%	2.83%	2.94%
	3.4% 1.5% 1.8% 2.8% 0.7% 2.5% \$63.1 -\$631.1 0.4% -0.1% 17.5 1.18 \$49.20 4.7% 1.8%	3.4% 4.1% 1.5% 1.6% 1.8% 2.5% 2.8% 2.5% 0.7% 5.3% 2.5% -0.3% \$63.1 \$33.8 -\$631.1 -\$605.1 0.4% 0.0% 17.5 17.2 1.18 1.20 \$49.20 \$52.51 4.7% 4.2% 1.8% 1.8%	3.4% 4.1% 4.0% 1.5% 1.6% 1.8% 1.8% 2.5% 2.2% 2.8% 2.5% 2.0% 0.7% 5.3% 3.1% 2.5% -0.3% 3.9% \$63.1 \$33.8 \$44.3 -\$631.1 -\$605.1 -\$633.1 0.4% 0.0% 1.1% -0.1% 2.0% 1.6% 17.5 17.2 17.0 1.18 1.20 1.27 \$49.20 \$52.51 \$52.70 4.7% 4.2% 4.1% 1.8% 1.8% 2.0%	3.4% 4.1% 4.0% 5.2% 1.5% 1.6% 1.8% 2.2% 1.8% 2.5% 2.2% 3.0% 2.8% 2.5% 2.0% 2.4% 0.7% 5.3% 3.1% 3.9% 2.5% -0.3% 3.9% -6.0% \$63.1 \$33.8 \$44.3 \$35.8 -\$631.1 -\$605.1 -\$633.1 -\$595.5 0.4% 0.0% 1.1% -0.1% -0.1% 2.0% 1.6% -0.3% 17.5 17.2 17.0 17.1 1.18 1.20 1.27 1.16 \$49.20 \$52.51 \$52.70 \$48.16 4.7% 4.2% 4.1% 4.3% 1.8% 2.0% 2.0%	3.4% 4.1% 4.0% 5.2% 3.8% 1.5% 1.6% 1.8% 2.2% 1.3% 1.8% 2.5% 2.2% 3.0% 2.7% 2.8% 2.5% 2.0% 2.4% 2.4% 0.7% 5.3% 3.1% 3.9% 3.6% 2.5% -0.3% 3.9% -6.0% 2.0% \$63.1 \$33.8 \$44.3 \$35.8 \$33.8 -\$631.1 -\$605.1 -\$633.1 -\$595.5 -\$605.1 0.4% 0.0% 1.1% -0.1% 1.0% -0.1% 2.0% 1.6% -0.3% 1.1% 17.5 17.2 17.0 17.1 17.2 1.18 1.20 1.27 1.16 1.21 \$49.20 \$52.51 \$52.70 \$48.16 \$52.51 4.7% 4.2% 4.1% 4.3% 4.2% 1.8% 1.8% 2.0% 2.0% 2.3%	3.4% 4.1% 4.0% 5.2% 3.8% 3.7% 1.5% 1.6% 1.8% 2.2% 1.3% 1.6% 1.8% 2.5% 2.2% 3.0% 2.7% 2.1% 2.8% 2.5% 2.0% 2.4% 2.4% 2.0% 0.7% 5.3% 3.1% 3.9% 3.6% 3.5% 2.5% -0.3% 3.9% -6.0% 2.0% 4.6% \$63.1 \$33.8 \$44.3 \$35.8 \$33.8 \$36.9 -\$631.1 -\$605.1 -\$633.1 -\$595.5 -\$605.1 -\$606.8 0.4% 0.0% 1.1% -0.1% 1.0% 1.1% -0.1% 2.0% 1.6% -0.3% 1.1% 1.5% 17.5 17.2 17.0 17.1 17.2 16.9 1.18 1.20 1.27 1.16 1.21 1.21 \$49.20 \$52.51 \$52.70 \$48.16 \$52.51 \$52.42 4.7% 4.2% 4.1% 4.3% 4.2% 4.2% 1.8% 1.8% <td>3.4% 4.1% 4.0% 5.2% 3.8% 3.7% 4.2% 1.5% 1.6% 1.8% 2.2% 1.3% 1.6% 1.7% 1.8% 2.5% 2.2% 3.0% 2.7% 2.1% 2.4% 2.8% 2.5% 2.0% 2.4% 2.4% 2.0% 2.1% 0.7% 5.3% 3.1% 3.9% 3.6% 3.5% 3.2% 2.5% -0.3% 3.9% -6.0% 2.0% 4.6% 5.3% \$63.1 \$33.8 \$44.3 \$35.8 \$33.8 \$36.9 \$44.8 -\$631.1 -\$605.1 -\$633.1 -\$595.5 -\$605.1 -\$606.8 -\$621.3 0.4% 0.0% 1.1% -0.1% 1.0% 1.1% 1.2% -0.1% 2.0% 1.6% -0.3% 1.1% 1.5% 1.9% 17.5 17.2 17.0 17.1 17.2 16.9 16.9 1.18 1.20 1.27 1.16 <td< td=""><td>3.4% 4.1% 4.0% 5.2% 3.8% 3.7% 4.2% 4.2% 1.5% 1.6% 1.8% 2.2% 1.3% 1.6% 1.7% 2.0% 1.8% 2.5% 2.2% 3.0% 2.7% 2.1% 2.4% 2.3% 2.8% 2.5% 2.0% 2.4% 2.0% 2.1% 2.1% 0.7% 5.3% 3.1% 3.9% 3.6% 3.5% 3.2% 3.2% 2.5% -0.3% 3.9% -6.0% 2.0% 4.6% 5.3% 3.8% \$63.1 \$33.8 \$44.3 \$35.8 \$33.8 \$36.9 \$44.8 \$44.6 -\$631.1 -\$605.1 -\$633.1 -\$595.5 -\$605.1 -\$606.8 -\$621.3 -\$628.9 0.4% 0.0% 1.1% -0.1% 1.0% 1.1% 1.2% 1.1% -0.1% 2.0% 1.6% -0.3% 1.1% 1.5% 1.9% 1.5% 17.5 17.2 17.0</td></td<></td>	3.4% 4.1% 4.0% 5.2% 3.8% 3.7% 4.2% 1.5% 1.6% 1.8% 2.2% 1.3% 1.6% 1.7% 1.8% 2.5% 2.2% 3.0% 2.7% 2.1% 2.4% 2.8% 2.5% 2.0% 2.4% 2.4% 2.0% 2.1% 0.7% 5.3% 3.1% 3.9% 3.6% 3.5% 3.2% 2.5% -0.3% 3.9% -6.0% 2.0% 4.6% 5.3% \$63.1 \$33.8 \$44.3 \$35.8 \$33.8 \$36.9 \$44.8 -\$631.1 -\$605.1 -\$633.1 -\$595.5 -\$605.1 -\$606.8 -\$621.3 0.4% 0.0% 1.1% -0.1% 1.0% 1.1% 1.2% -0.1% 2.0% 1.6% -0.3% 1.1% 1.5% 1.9% 17.5 17.2 17.0 17.1 17.2 16.9 16.9 1.18 1.20 1.27 1.16 <td< td=""><td>3.4% 4.1% 4.0% 5.2% 3.8% 3.7% 4.2% 4.2% 1.5% 1.6% 1.8% 2.2% 1.3% 1.6% 1.7% 2.0% 1.8% 2.5% 2.2% 3.0% 2.7% 2.1% 2.4% 2.3% 2.8% 2.5% 2.0% 2.4% 2.0% 2.1% 2.1% 0.7% 5.3% 3.1% 3.9% 3.6% 3.5% 3.2% 3.2% 2.5% -0.3% 3.9% -6.0% 2.0% 4.6% 5.3% 3.8% \$63.1 \$33.8 \$44.3 \$35.8 \$33.8 \$36.9 \$44.8 \$44.6 -\$631.1 -\$605.1 -\$633.1 -\$595.5 -\$605.1 -\$606.8 -\$621.3 -\$628.9 0.4% 0.0% 1.1% -0.1% 1.0% 1.1% 1.2% 1.1% -0.1% 2.0% 1.6% -0.3% 1.1% 1.5% 1.9% 1.5% 17.5 17.2 17.0</td></td<>	3.4% 4.1% 4.0% 5.2% 3.8% 3.7% 4.2% 4.2% 1.5% 1.6% 1.8% 2.2% 1.3% 1.6% 1.7% 2.0% 1.8% 2.5% 2.2% 3.0% 2.7% 2.1% 2.4% 2.3% 2.8% 2.5% 2.0% 2.4% 2.0% 2.1% 2.1% 0.7% 5.3% 3.1% 3.9% 3.6% 3.5% 3.2% 3.2% 2.5% -0.3% 3.9% -6.0% 2.0% 4.6% 5.3% 3.8% \$63.1 \$33.8 \$44.3 \$35.8 \$33.8 \$36.9 \$44.8 \$44.6 -\$631.1 -\$605.1 -\$633.1 -\$595.5 -\$605.1 -\$606.8 -\$621.3 -\$628.9 0.4% 0.0% 1.1% -0.1% 1.0% 1.1% 1.2% 1.1% -0.1% 2.0% 1.6% -0.3% 1.1% 1.5% 1.9% 1.5% 17.5 17.2 17.0

^{*}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



^{*} Excludes the two highest and lowest forecasts.

Figure 2 - Forecast of GDP and Related Items

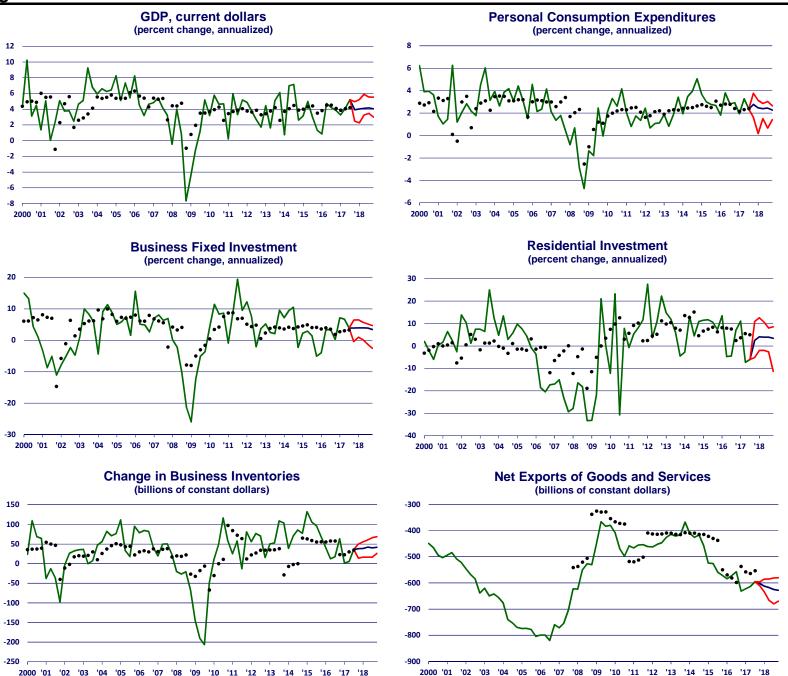


Figure 3 - Forecast of GDP and Related Items

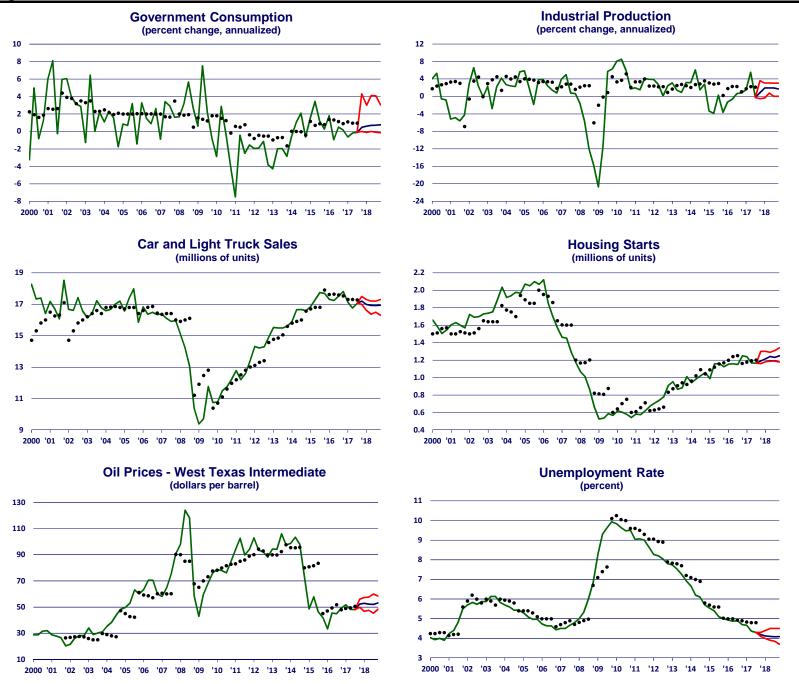
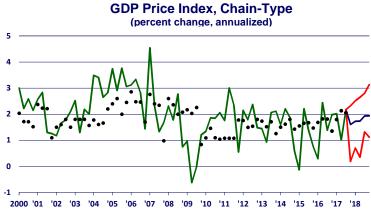
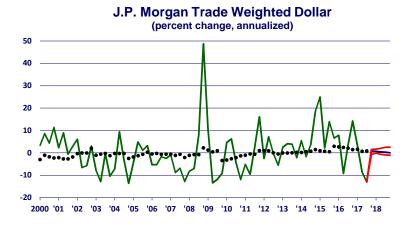
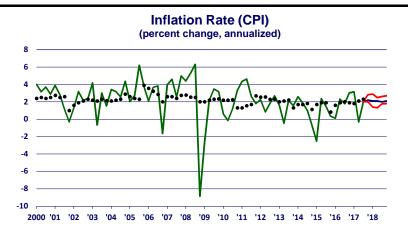


Figure 4 - Forecast of GDP and Related Items









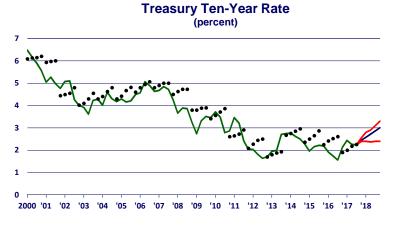


Table 3 - GDP, Current Dollars

	Q4	over Q4							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	3.4%			5.2%					
3	J. 4 /0	4.0%	5.7%	J.Z /0	3.6%	5.9%	6.0%	5.3%	5.7%
1		4.3%	5.6%		4.5%	5.2%	5.6%	5.5%	5.9%
6		2.7%	5.6%		-1.7%	5.3%	5.9%	5.5%	5.5%
5		4.1%	4.7%		3.8%	3.5%	4.1%	6.1%	5.0%
10		4.2%	4.7%		4.3%	4.5%	4.9%	4.6%	4.6%
16		4.6%	4.6%		6.0%	5.0%	4.7%	4.4%	4.4%
13		4.1%	4.5%		3.8%	4.7%	3.9%	5.5%	4.1%
14		4.2%	4.5%		4.3%	4.5%	4.5%	4.5%	4.5%
7		4.4%	4.5%		4.9%	3.5%	5.8%	3.9%	4.7%
4		4.5%	4.4%		5.5%	4.6%	4.4%	4.2%	4.3%
19		4.0%	4.3%		3.3%	4.0%	6.0%	3.4%	3.7%
8		4.3%	4.2%		4.7%	4.1%	4.3%	4.4%	3.9%
15		4.2%	4.1%		4.2%	4.1%	4.1%	4.2%	4.1%
17		4.3%	4.0%		4.5%	3.8%	4.1%	4.2%	4.0%
12		4.0%	4.0%		3.4%	3.9%	4.0%	4.1%	3.9%
11		4.1%	4.0%		3.9%	4.0%	4.1%	4.0%	3.8%
20		4.2%	3.9%		4.2%	3.7%	4.0%	4.1%	4.0%
21		4.2%	3.7%		4.2%	2.9%	3.7%	4.3%	4.0%
24		4.1%	3.5%		3.7%	3.3%	0.4%	7.2%	3.3%
18		4.1%	3.5%		3.8%	3.1%	4.0%	3.6%	3.2%
26		3.6%	3.1%		2.0%	0.5%	3.9%	3.8%	4.2%
22		4.1%	3.0%		3.7%	2.3%	3.2%	3.5%	3.0%
25		4.1%	2.9%		3.9%	0.3%	3.3%	4.1%	4.0%
23		4.1%	2.8%		3.8%	2.3%	3.9%	3.9%	1.2%
27		3.8%	0.7%		2.5%	4.7%	3.3%	-2.2%	-2.7%
MEDIAN		4.1%	4.1%		3.9%	4.0%	4.1%	4.2%	4.0%
MEAN		4.1%	4.0%		3.8%	3.7%	4.2%	4.2%	3.9%
STD DEV		0.4%	1.0%		1.4%	1.3%	1.1%	1.6%	1.6%
HIGH		4.6%	5.7%		6.0%	5.9%	6.0%	7.2%	5.9%
LOW		2.7%	0.7%		-1.7%	0.3%	0.4%	-2.2%	-2.7%

Table 4 - GDP Price Index, Chain-type

	Q4	over Q4							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	1.5%			2.2%					
3	1.5%	1.5%	2.9%	2.270	0.9%	2.8%	2.6%	2.8%	3.1%
6		0.1%	2.8%		-4.7%	2.5%	2.0%	2.8%	3.17
1		2.0%	2.4%		2.7%	2.1%	2.5%	2.4%	2.8%
16		1.9%	2.4%		2.4%	2.6%	2.6%	2.4%	2.0%
5		1.6%	2.2%		1.3%	1.8%	2.5%	2.1%	2.49
13		1.7%	2.2%		1.6%	2.1%	2.1%	2.5%	2.19
10		1.7%	2.1%		1.7%	2.1%	2.1%	2.2%	2.0%
19		1.6%	2.1%		1.0%	1.5%	3.9%	1.3%	1.6%
11		1.8%	2.1%		2.0%	2.1%	2.1%	2.1%	1.9%
24		1.7%	1.9%		1.6%	1.8%	-1.0%	5.4%	1.7%
14		1.9%	1.9%		2.3%	2.1%	1.4%	1.7%	2.49
7		1.7%	1.9%		1.6%	2.0%	1.9%	1.8%	1.7%
15		1.7%	1.8%		1.5%	1.6%	1.7%	2.0%	2.0%
21		1.7%	1.8%		1.5%	1.6%	1.7%	2.0%	2.0%
20		1.7%	1.8%		1.5%	1.6%	1.7%	2.0%	2.0%
18		1.7%	1.8%		1.7%	2.2%	1.0%	2.1%	1.8%
17		1.7%	1.8%		1.7%	1.5%	1.8%	1.9%	1.9%
4		1.8%	1.6%		2.1%	1.7%	1.5%	1.6%	1.7%
12		1.7%	1.6%		1.6%	1.6%	1.6%	1.6%	1.6%
25		1.7%	1.6%		1.6%	1.1%	1.8%	1.8%	1.79
8		1.7%	1.6%		2.3%	1.1%	1.8%	1.7%	1.49
23		1.5%	1.5%		0.9%	0.7%	0.4%	1.1%	3.9%
2		1.7%	1.5%		1.6%	2.1%	1.4%	1.4%	1.0%
22		1.6%	1.2%		1.4%	1.1%	1.1%	1.4%	1.1%
26		1.3%	0.9%		0.2%	-1.9%	1.1%	1.4%	2.5%
27		1.3%	-0.4%		0.2%	0.4%	-0.4%	-0.7%	-1.1%
21		1.070	0.476		0.270	0.470	0.470	0.776	1.17
MEDIAN		1.7%	1.8%		1.6%	1.7%	1.7%	1.9%	1.9%
MEAN		1.6%	1.8%		1.3%	1.6%	1.7%	2.0%	1.99
STD DEV		0.3%	0.6%		1.3%	0.9%	1.0%	0.9%	0.9%
HIGH		2.0%	2.9%		2.7%	2.8%	3.9%	5.4%	3.9%
LOW		0.1%	-0.4%		-4.7%	-1.9%	-1.0%	-0.7%	-1.1%

Table 5 - Real GDP, Chained Dollars

	Q4	l over Q4							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	1.8%			3.0%					
1	1.8%	2.3%	3.0%	3.0%	1.7%	3.0%	3.0%	3.0%	3.0%
2		3.6%	3.0%		7.2%	3.6%	-0.7%	4.0%	5.3%
3		3.6% 2.5%	3.0% 2.8%		7.2% 2.7%	3.6% 2.9%	-0.7% 3.3%	4.0% 2.5%	2.4%
4		2.5%	2.7%		3.3%	2.9%	2.8%	2.5%	2.4%
		2.5%			2.9%				2.0%
5		2.5% 2.6%	2.7%			2.3% 2.6%	2.8% 3.0%	3.5% 2.6%	
6 7			2.7%		3.0%				2.4%
		2.6%	2.6%		3.3%	1.5%	3.8%	2.1%	3.0%
8		2.4%	2.5%		2.5%	2.3%	2.5%	2.6%	2.6%
9		2.6%	2.5%		3.1%	2.6%	2.3%	2.3%	2.8%
10		2.5%	2.5%		2.5%	2.3%	2.7%	2.4%	2.6%
11		2.4%	2.4%		2.3%	2.5%	2.5%	2.5%	2.3%
12		2.6%	2.4%		3.0%	2.3%	2.3%	2.5%	2.3%
13		2.3%	2.3%		2.1%	2.5%	1.7%	2.9%	2.0%
14		2.5%	2.3%		2.6%	2.3%	2.3%	2.2%	2.2%
15		2.5%	2.2%		2.6%	2.4%	2.3%	2.1%	2.1%
16		2.7%	2.2%		3.5%	2.3%	2.0%	2.2%	2.4%
17		2.5%	2.2%		2.7%	2.3%	2.3%	2.3%	2.0%
18		2.3%	2.2%		2.1%	1.6%	2.9%	2.3%	1.9%
19		2.4%	2.1%		2.2%	2.5%	2.1%	2.0%	2.0%
20		2.5%	2.1%		2.6%	2.0%	2.2%	2.0%	2.0%
21		2.5%	1.8%		2.6%	1.2%	1.9%	2.2%	2.0%
22		2.4%	1.8%		2.2%	1.2%	2.1%	2.0%	1.9%
23		2.6%	1.7%		3.2%	0.6%	2.7%	2.3%	1.3%
24		2.3%	1.6%		2.0%	1.5%	1.5%	1.7%	1.5%
25		2.4%	1.3%		2.2%	-0.7%	1.5%	2.3%	2.2%
26		2.2%	1.2%		1.6%	-1.3%	2.3%	1.9%	1.9%
27		2.4%	1.1%		2.3%	4.2%	3.6%	-1.5%	-1.7%
MEDIAN		2.5%	2.3%		2.6%	2.3%	2.3%	2.3%	2.2%
MEAN		2.5%	2.2%		2.7%	2.1%	2.4%	2.3%	2.2%
STD DEV		0.2%	0.5%		1.0%	1.1%	0.8%	0.9%	1.0%
HIGH		3.6%	3.0%		7.2%	4.2%	3.8%	4.0%	5.3%
LOW		2.2%	1.1%		1.6%	-1.3%	-0.7%	-1.5%	-1.7%

Table 6 - Personal Consumption Expenditures

	Q4	l over Q4							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	2.8%			2.4%					
7	2.070	2.8%	3.5%	2.470	3.6%	3.1%	4.1%	3.2%	3.6%
1		2.6%	2.7%		2.7%	3.5%	2.9%	3.0%	1.4%
6		2.6%	2.7%		2.7%	2.6%	2.5%	2.7%	2.6%
4		2.7%	2.6%		3.2%	2.6%	2.7 %	2.7 %	2.6%
8		2.6%	2.6%		3.0%	2.5%	2.6%	2.6%	2.6%
3		2.4%	2.5%		2.2%	2.5%	2.7%	2.5%	2.5%
15		2.4%	2.5%		3.0%	2.6%	2.7 %	2.4%	2.4%
12		2.8%	2.5%		3.8%	2.7%	2.5%	2.4%	2.4%
12		2.5%	2.5%		2.5%	2.7%	2.5%	2.5%	2.2%
10		2.6%	2.4%		2.8%	2.5%	2.3%	2.4%	2.5%
5		2.6%	2.4%		2.0%	2.5%	2.3%	2.5%	2.6%
16		2.4% 2.8%	2.4% 2.4%		2.2% 3.5%	2.1%	2.3% 2.3%	2.7% 2.4%	2.5%
17		2.6%			2.8%				
9			2.4%			2.3%	2.4%	2.4%	2.4%
		-0.7%	2.3%		-9.6%	2.8%	3.5%	0.7%	2.3%
14		2.6%	2.3%		3.0%	2.5%	2.3%	2.2%	2.1%
20		2.6%	2.3%		3.0%	2.0%	2.4%	2.4%	2.2%
19		2.9%	2.2%		3.9%	1.0%	2.2%	2.8%	2.9%
18		2.5%	2.2%		2.3%	2.4%	2.2%	2.1%	2.1%
21		2.6%	2.1%		2.9%	1.0%	2.2%	2.8%	2.3%
24		2.4%	2.0%		2.1%	2.1%	1.5%	2.3%	2.1%
13		2.6%	2.0%		2.8%	2.3%	2.1%	1.9%	1.6%
23		2.4%	1.6%		2.0%	0.2%	1.4%	3.5%	1.5%
26		2.3%	1.3%		1.6%	-1.3%	2.5%	2.0%	2.1%
22		2.5%	1.2%		2.6%	0.3%	1.8%	1.4%	1.5%
25		2.2%	1.0%		1.1%	-3.0%	2.7%	2.9%	1.6%
27		2.6%	-0.2%		2.8%	2.2%	2.3%	-2.9%	-2.3%
2		3.6%	-1.2%		6.9%	4.5%	-5.9%	-1.8%	-1.3%
MEDIAN		2.6%	2.3%		2.8%	2.5%	2.4%	2.4%	2.3%
MEAN		2.5%	2.0%		2.4%	2.0%	2.1%	2.1%	2.0%
STD DEV		0.7%	0.9%		2.6%	1.5%	1.7%	1.4%	1.2%
HIGH		3.6%	3.5%		6.9%	4.5%	4.1%	3.5%	3.6%
LOW		-0.7%	-1.2%		-9.6%	-3.0%	-5.9%	-2.9%	-2.3%

Table 7 - Business Fixed Investment

	Q4	over Q4							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	0.7%			3.9%					
4	0.7%	5.9%	5.6%	3.9%	6.1%	6.5%	5.9%	5.2%	4.7%
16		6.0%	5.5%		6.4%	6.2%	5.1%	5.0%	5.5%
3		5.2%	5.1%		3.3%	5.1%	5.7%	5.4%	4.1%
12		5.7%	4.6%		5.0%	4.2%	4.2%	5.0%	5.0%
15		5.5%	4.5%		4.3%	4.1%	5.0%	4.5%	4.3%
10		5.8%	4.3%		5.5%	4.0%	4.7%	4.4%	4.3%
5		5.6%	4.3%		4.8%	4.3%	4.3%	4.2%	4.2%
8		5.7%	4.1%		5.1%	4.8%	4.1%	4.0%	3.7%
20		5.5%	4.1%		4.3%	3.6%	4.6%	4.3%	4.1%
6		5.2%	4.1%		3.0%	4.1%	5.1%	4.1%	3.0%
23		4.9%	3.8%		2.0%	4.5%	5.7%	2.9%	2.2%
21		5.5%	3.7%		4.2%	3.7%	4.1%	3.6%	3.4%
11		5.4%	3.7%		3.7%	3.8%	3.9%	3.6%	3.4%
22		5.1%	3.5%		2.6%	3.4%	3.4%	3.5%	3.7%
17		5.8%	3.4%		5.6%	2.5%	3.8%	3.9%	3.6%
19		4.7%	3.4%		1.0%	2.9%	4.9%	4.5%	1.5%
14		5.5%	3.2%		4.3%	3.9%	1.1%	3.3%	4.5%
9		4.3%	3.2%		-0.4%	6.7%	3.1%	6.7%	-3.5%
1		5.1%	3.0%		2.7%	3.0%	3.0%	3.0%	3.0%
26		6.2%	2.7%		6.9%	1.0%	3.9%	2.9%	3.2%
18		5.3%	2.7%		3.4%	2.9%	2.7%	2.6%	2.5%
13		5.4%	2.3%		3.8%	3.4%	0.5%	2.1%	3.4%
25		4.3%	1.7%		-0.4%	-5.1%	4.0%	4.5%	3.7%
27		2.9%	1.1%		-5.5%	7.2%	1.7%	-1.7%	-2.6%
7		4.6%	-0.1%		0.7%	1.4%	0.2%	-1.0%	-0.9%
24		5.4%	-1.4%		3.9%	-4.4%	-1.5%	-1.3%	1.5%
2		6.9%	-2.8%		9.9%	5.8%	-7.7%	-3.2%	-5.5%
_		0.070	2.0 %		0.070	0.070	/2	0.270	0.07
MEDIAN MEAN		5.4% 5.3%	3.5% 3.1%		3.9% 3.6%	3.9% 3.5%	4.0% 3.2%	3.9% 3.2%	3.4% 2.6%
STD DEV									
HIGH		0.7% 6.9%	1.9% 5.6%		2.8% 9.9%	2.7% 7.2%	2.8% 5.9%	2.3% 6.7%	2.6%
			5.6%						5.5%
LOW		2.9%	-2.8%		-5.5%	-5.1%	-7.7%	-3.2%	-5.5%

Table 8 - Residential Investment

							over Q4	Q4	
Q418	Q318	Q218	Q118	Q417	Q317	2018	2017	2016	Individual
					-6.0%			2.5%	
16.8%	13.3%	10.4%	7.5%	-5.2%	0.070	11.9%	-2.1%	2.070	3
8.5%	5.3%	2.0%	12.6%	10.7%		7.0%	1.7%		7
3.3%	6.8%	10.7%	7.1%	-6.7%		7.0%	-2.5%		5
4.5%	5.9%	7.5%	9.8%	2.5%		6.9%	-0.2%		17
7.0%	7.5%	8.0%	5.0%	-1.0%		6.9%	-1.1%		8
6.5%	7.0%	6.0%	5.0%	5.0%		6.1%	0.4%		10
6.8%	8.5%	5.9%	1.7%	-0.8%		5.7%	-1.0%		14
-11.9%	-3.1%	21.0%	18.1%	3.5%		5.1%	0.0%		27
3.2%	5.5%	5.8%	4.4%	4.5%		4.7%	0.3%		18
3.3%	4.0%	4.8%	4.8%	3.5%		4.2%	0.0%		11
5.9%	5.2%	3.9%	1.6%	-1.7%		4.1%	-1.2%		4
2.3%	3.4%	3.6%	4.6%	3.5%		3.5%	0.0%		22
3.5%	3.7%	3.9%	2.4%	-0.8%		3.4%	-1.0%		15
3.7%	3.4%	4.3%	1.8%	9.2%		3.3%	1.4%		26
3.6%	3.7%	3.5%	2.2%	-0.8%		3.2%	-1.0%		20
3.6%	5.6%	3.3%	0.4%	-2.3%		3.2%	-1.4%		13
4.2%	2.4%	3.5%	2.6%	10.9%		3.2%	1.8%		23
0.6%	3.2%	5.2%	3.7%	2.4%		3.2%	-0.2%		16
2.3%	2.0%	2.7%	2.2%	2.6%		2.3%	-0.2%		6
-16.4%	8.0%	31.7%	-9.0%	-13.7%		2.0%	-4.4%		1
-11.3%	4.0%	-3.9%	20.0%	13.3%		1.6%	2.3%		24
0.0%	-2.6%	-2.0%	9.1%	4.2%		1.0%	0.2%		2
10.9%	-7.2%	-6.0%	7.2%	12.8%		0.9%	2.2%		19
1.9%	1.2%	-0.4%	-0.5%	1.6%		0.5%	-0.4%		21
2.0%	2.0%	0.0%	-3.0%	-5.0%		0.2%	-2.1%		12
0.0%	1.4%	1.4%	-2.0%	0.7%		0.2%	-0.6%		25
3.4% 2.5%	3.9% 3.8%	3.9% 5.3%	4.1% 4.6%	2.5% 2.0%		3.3% 3.9%	-0.2% -0.3%		MEDIAN MEAN
6.7%	4.0%	7.3%	6.0%	6.1%		2.6%	1.5%		STD DEV
16.8%	13.3%	31.7%	20.0%	13.3%		11.9%	2.3%		HIGH
-16.4%	-7.2%	-6.0%	-9.0%	-13.7%		0.2%	-4.4%		LOW

Table 9 - Change in Private Inventories

	C)4 value							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	CO 4			#25.0					
24	\$63.1	-\$3.4	\$70.0	\$35.8	-\$3.4	-\$10.4	\$112.9	\$101.2	\$70.0
5		\$50.0	\$70.0		\$50.0	\$45.0	\$58.0	\$66.0	\$70.0
3		\$50.8	\$68.7		\$50.8	\$45.0 \$45.3	\$55.0 \$57.0	\$66.9	\$68.7
4		\$48.0	\$61.3		\$48.0	\$60.4	\$60.7	\$61.0	\$61.3
15		\$45.4	\$58.1		\$45.4	\$55.7	\$60.1	\$60.9	\$58.1
17		\$38.3	\$57.5		\$38.3	\$51.2	\$52.7	\$55.9	\$57.5
20		\$45.4	\$55.3		\$45.4	\$55.8	\$58.2	\$57.1	\$55.3
27		\$40.0	\$55.0		\$40.0	\$43.0	\$45.0	\$50.0	\$55.0
21		\$45.4	\$53.1		\$45.4	\$55.5	\$58.4	\$56.9	\$53.1
16		\$39.6	\$45.9		\$39.6	\$38.4	\$35.1	\$40.5	\$45.9
8		\$50.0	\$45.0		\$50.0	\$50.0	\$50.0	\$48.0	\$45.0
10		\$24.1	\$44.3		\$24.1	\$16.3	\$31.9	\$35.4	\$44.3
13		\$42.9	\$43.9		\$42.9	\$51.2	\$52.6	\$49.5	\$43.9
23		\$37.8	\$39.6		\$37.8	\$38.4	\$38.9	\$39.4	\$39.6
11		\$38.0	\$39.3		\$38.0	\$38.1	\$38.6	\$39.2	\$39.3
6		\$36.1	\$38.2		\$36.1	\$36.6	\$37.1	\$37.6	\$38.2
18		\$16.0	\$37.7		\$16.0	\$44.3	\$47.4	\$34.8	\$37.7
1		\$32.4	\$37.4		\$32.4	\$33.9	\$37.7	\$38.0	\$37.4
25		\$36.0	\$36.5		\$36.0	\$36.5	\$35.5	\$36.0	\$36.5
19		\$0.2	\$36.0		\$0.2	\$30.2	\$60.4	\$46.6	\$36.0
2		\$36.5	\$35.1		\$36.5	\$36.2	\$35.8	\$35.4	\$35.1
12		\$35.0	\$30.0		\$35.0	\$35.0	\$35.0	\$35.0	\$30.0
14		\$15.3	\$27.9		\$15.3	\$46.5	\$12.6	\$15.9	\$27.9
7		\$39.0	\$26.0		\$39.0	-\$15.0	\$12.0	\$10.0	\$26.0
22		\$25.0	\$25.0		\$25.0	\$25.0	\$25.0	\$25.0	\$25.0
26		\$14.0	\$15.9		\$14.0	\$17.4	\$16.2	\$16.2	\$15.9
MEDIAN		\$37.9	\$41.8		\$37.9	\$38.4	\$42.0	\$39.9	\$41.8
MEAN		\$33.8	\$44.3		\$33.8	\$36.9	\$44.8	\$44.6	\$44.3
STD DEV		\$14.4	\$14.2		\$14.4	\$18.0	\$19.8	\$18.6	\$14.2
HIGH		\$50.8	\$70.0		\$50.8	\$60.4	\$112.9	\$101.2	\$70.0
LOW		-\$3.4	\$15.9		-\$3.4	-\$15.0	\$12.0	\$10.0	\$15.9

Table 10 - Net Exports of Goods and Services

	(Q4 value							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	-\$631.1			-\$595.5					
22	-ψ051.1	-\$596.4	-\$566.4	-ψ000.0	-\$596.4	-\$585.5	-\$585.4	-\$572.4	-\$566.4
27		-\$610.0	-\$570.0		-\$610.0	-\$590.0	-\$580.0	-\$575.0	-\$570.0
18		-\$592.4	-\$580.3		-\$592.4	-\$586.9	-\$582.1	-\$580.9	-\$580.3
12		-\$596.5	-\$597.8		-\$596.5	-\$597.5	-\$596.5	-\$595.4	-\$597.8
25		-\$597.0	-\$599.0		-\$597.0	-\$585.1	-\$591.0	-\$595.5	-\$599.0
6		-\$596.7	-\$607.2		-\$596.7	-\$508.8	-\$601.2	-\$604.2	-\$607.2
7		-\$600.0	-\$610.0		-\$600.0	-\$602.0	-\$595.0	-\$603.0	-\$610.0
13		-\$608.5	-\$613.6		-\$608.5	-\$619.1	-\$610.5	-\$613.5	-\$613.6
1		-\$600.7	-\$618.9		-\$600.7	-\$605.2	-\$609.7	-\$614.3	-\$618.9
19		-\$610.8	-\$624.1		-\$610.8	-\$591.7	-\$613.2	-\$610.5	-\$624.1
26		-\$603.3	-\$624.2		-\$603.3	-\$606.3	-\$615.2	-\$617.3	-\$624.2
2		-\$601.0	-\$627.0		-\$601.0	-\$609.0	-\$615.0	-\$624.0	-\$627.0
8		-\$602.0	-\$627.6		-\$602.0	-\$612.1	-\$621.0	-\$625.9	-\$627.6
14		-\$607.0	-\$628.2		-\$607.0	-\$619.5	-\$614.5	-\$621.8	-\$628.2
4		-\$601.7	-\$640.2		-\$601.7	-\$614.3	-\$622.0	-\$631.5	-\$640.2
23		-\$640.0	-\$641.0		-\$640.0	-\$634.4	-\$632.0	-\$640.1	-\$641.0
24		-\$600.0	-\$647.9		-\$600.0	-\$604.0	-\$686.1	-\$662.9	-\$647.9
5		-\$605.0	-\$650.0		-\$605.0	-\$635.0	-\$666.0	-\$680.0	-\$650.0
10		-\$610.7	-\$654.1		-\$610.7	-\$612.5	-\$627.8	-\$643.6	-\$654.1
21		-\$606.3	-\$655.6		-\$606.3	-\$616.4	-\$629.6	-\$646.0	-\$655.6
16		-\$592.6	-\$659.5		-\$592.6	-\$615.4	-\$635.5	-\$652.0	-\$659.5
17		-\$602.1	-\$662.7		-\$602.1	-\$614.6	-\$626.3	-\$643.6	-\$662.7
20		-\$606.8	-\$667.8		-\$606.8	-\$617.9	-\$633.4	-\$654.2	-\$667.8
11		-\$630.0	-\$670.0		-\$630.0	-\$640.0	-\$660.0	-\$680.0	-\$670.0
15		-\$606.8	-\$676.0		-\$606.8	-\$620.4	-\$639.5	-\$661.4	-\$676.0
3		-\$607.3	-\$740.7		-\$607.3	-\$634.3	-\$666.2	-\$701.9	-\$740.7
MEDIAN		-\$602.7	-\$627.9		-\$602.7	-\$612.3	-\$618.1	-\$625.0	-\$627.9
MEAN		-\$605.1	-\$633.1		-\$605.1	-\$606.8	-\$621.3	-\$628.9	-\$633.1
STD DEV		\$10.2	\$36.6		\$10.2	\$24.8	\$26.5	\$32.7	\$36.6
HIGH		-\$592.4	-\$566.4		-\$592.4	-\$508.8	-\$580.0	-\$572.4	-\$566.4
LOW		-\$640.0	-\$740.7		-\$640.0	-\$640.0	-\$686.1	-\$701.9	-\$740.7

Table 11 - Government Consumption Expenditures and Gross Investment

	Q4	l over Q4							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	0.4%			-0.1%					
27	0.4 /0	0.8%	4.3%	-0.176	4.3%	4.9%	4.1%	4.1%	4.0%
3		0.1%	3.5%		1.5%	6.3%	4.5%	0.9%	2.4%
1		0.8%	3.0%		4.4%	3.0%	1.7%	4.4%	3.0%
5		0.0%	1.7%		0.8%	2.8%	4.2%	4.1%	-4.0%
23		1.2%	1.3%		5.9%	1.2%	1.2%	1.2%	1.4%
6		0.0%	1.3%		1.0%	1.0%	2.0%	1.0%	1.0%
11		0.0%	1.2%		0.8%	1.0%	1.2%	1.2%	1.2%
25		0.0%	1.0%		0.9%	1.0%	1.0%	1.0%	1.0%
22		-0.1%	1.0%		0.5%	1.1%	1.4%	0.8%	0.6%
24		0.4%	1.0%		2.7%	1.5%	-0.9%	-0.7%	3.9%
4		-0.1%	0.8%		0.7%	0.8%	0.8%	0.8%	0.9%
18		-0.1%	0.7%		0.5%	0.6%	0.6%	0.7%	0.8%
8		-0.2%	0.7%		0.2%	0.2%	0.8%	0.8%	0.8%
10		-0.2%	0.6%		-0.2%	0.6%	1.2%	0.5%	0.3%
21		-0.2%	0.6%		0.0%	0.5%	0.6%	0.7%	0.6%
20		-0.2%	0.6%		0.0%	0.4%	0.6%	0.7%	0.6%
15		-0.2%	0.6%		0.0%	0.5%	0.6%	0.7%	0.6%
9		-0.2%	0.6%		0.0%	0.4%	0.6%	0.7%	0.6%
14		-0.2%	0.6%		0.0%	0.4%	0.6%	0.7%	0.6%
2		-0.1%	0.6%		0.4%	-1.8%	1.5%	1.4%	1.2%
13		-0.2%	0.5%		0.0%	0.4%	0.6%	0.6%	0.3%
17		-0.2%	0.5%		0.3%	0.1%	0.3%	0.8%	0.8%
12		-0.2%	0.2%		0.0%	0.0%	0.0%	0.0%	1.0%
7		0.1%	0.2%		1.2%	0.3%	0.1%	0.3%	0.3%
16		-0.2%	0.2%		0.1%	0.8%	0.7%	-0.4%	-0.3%
19		-0.3%	-0.2%		-0.1%	-0.1%	-0.6%	-0.1%	-0.2%
26		-0.1%	-0.6%		0.6%	-3.6%	0.4%	0.3%	0.3%
20		0.170	0.070		0.070	0.070	0.170	0.070	0.070
MEDIAN		-0.1%	0.6%		0.5%	0.6%	0.7%	0.7%	0.8%
MEAN		0.0%	1.0%		1.0%	0.9%	1.1%	1.0%	0.9%
STD DEV		0.4%	1.0%		1.5%	1.8%	1.3%	1.2%	1.4%
HIGH		1.2%	4.3%		5.9%	6.3%	4.5%	4.4%	4.0%
LOW		-0.3%	-0.6%		-0.2%	-3.6%	-0.9%	-0.7%	-4.0%

Table 12 - Industrial Production

	Q4	over Q4							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	-0.1%			-0.3%					
16	-0.1%	2.3%	3.1%	-0.3%	2.4%	3.9%	3.4%	2.8%	2.2%
1		1.9%	3.0%		1.0%	3.1%	3.4%	3.0%	3.0%
6		1.6%	2.8%		-0.1%	1.9%	3.1%	3.0%	3.0%
15		2.4%	2.7%		3.1%	3.1%	3.1%	2.3%	2.4%
17		2.4%	2.7%		2.3%	2.4%	2.5%	2.8%	2.4%
20		2.4%	2.5%		3.1%	2.4%	2.9%	2.0%	2.3%
4		2.4%	2.4%		1.9%	2.6%	2.4%	2.2%	2.2%
		1.7%			0.3%	2.3%	2.4%	2.2%	2.3%
8 21		2.4%	2.3% 2.2%		3.0%	2.3% 2.7%	2.3% 2.6%	2.3% 1.8%	2.3% 1.9%
9		2.4%	2.2%			2.7%	2.0%	2.2%	2.2%
14		2.6%			3.6% 3.7%	2.4%	1.9%		2.2%
			2.2%					2.3%	
10		1.9%	2.0%		0.9%	3.0%	2.0%	2.2%	0.9%
5		1.7%	1.9%		-0.1%	1.9%	2.1%	1.9%	1.6%
3		1.7%	1.9%		-0.1%	1.9%	2.1%	1.9%	1.6%
24		1.6%	1.7%		-0.1%	1.9%	1.5%	1.9%	1.5%
11		1.7%	1.7%		0.3%	1.9%	1.7%	1.7%	1.5%
25		1.5%	1.6%		-0.5%	-3.8%	1.5%	3.1%	5.8%
12		2.7%	1.5%		4.1%	1.5%	1.9%	1.5%	1.1%
18		1.0%	1.3%		-2.7%	0.8%	1.4%	1.2%	1.7%
2		1.6%	1.2%		-0.1%	1.1%	0.8%	1.5%	1.5%
23		1.5%	1.0%		-0.5%	1.1%	1.9%	0.8%	0.4%
26		2.2%	0.9%		2.2%	-0.4%	1.7%	1.1%	1.3%
7		1.5%	0.9%		-0.5%	1.5%	1.5%	0.4%	0.0%
13		2.0%	0.3%		1.4%	2.3%	1.9%	-5.2%	2.3%
22		1.7%	0.2%		0.3%	0.8%	0.0%	0.0%	0.0%
27		1.7%	-0.8%		0.3%	0.8%	-1.1%	-1.9%	-0.8%
19		1.9%	-1.1%		1.0%	-6.6%	0.8%	0.7%	0.8%
MEDIAN		1.9%	1.9%		0.9%	1.9%	1.9%	1.9%	1.7%
MEAN		2.0%	1.6%		1.1%	1.5%	1.9%	1.5%	1.8%
STD DEV		0.4%	1.0%		1.6%	2.1%	1.0%	1.7%	1.2%
HIGH		2.7%	3.1%		4.1%	3.9%	3.4%	3.1%	5.8%
LOW		1.0%	-1.1%		-2.7%	-6.6%	-1.1%	-5.2%	-0.8%

Table 13 - Car and Light Truck Sales (millions)

Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	17.5			17.1					
x3		18.5	18.5						
x2		17.2	17.7						
22		17.7	17.5		17.5	17.0	17.0	18.0	18.0
2		17.0	17.4		17.0	17.2	17.1	17.2	17.4
27		17.2	17.2		17.4	17.8	17.4	17.0	16.7
4		17.1	17.2		17.6	17.3	17.3	17.2	17.1
18		17.1	17.2		17.2	17.2	17.2	17.2	17.1
24		17.2	17.1		17.2	17.2	17.1	17.1	17.1
23		17.1	17.1		17.1	17.3	17.2	16.9	17.1
6			17.1		17.1	17.1	17.1	17.1	17.0
15		17.1	17.1		17.4	17.0	17.1	17.1	17.0
17		17.1	17.1		17.6	17.1	17.1	17.1	17.0
14		17.1	17.0		17.3	17.0	17.0	17.0	17.0
12		17.1	17.0		17.2	17.1	17.0	17.0	16.9
25		17.3	17.0		17.3	16.7	16.8	16.9	17.0
3		17.0	17.0		17.2	16.9	17.1	16.9	16.8
5		17.0	16.9		17.2	16.9	16.9	16.9	16.8
7		17.1	16.9		17.4	16.9	16.6	16.8	17.1
8		17.0	16.8		17.2	16.8	16.8	16.7	16.7
11		17.2	16.8		17.1	16.9	16.8	16.8	16.8
13		17.0	16.8		17.2	16.8	16.9	16.8	16.6
26		16.7	16.7		16.8	16.7	16.8	16.7	16.6
16		17.1	16.6		17.5	17.1	16.6	16.5	16.3
1		17.0	16.6		16.8	14.8	16.8	17.6	17.3
x1		17.1	16.6						
19		17.1	16.5		17.3	16.6	16.2	16.5	16.7
10		17.1	16.5		17.5	16.6	16.3	16.6	16.3
9		17.0	16.1		17.1	16.5	16.4	16.1	15.5
MEDIAN		17.1	17.0		17.2	17.0	16.9	16.9	16.9
MEAN		17.2	17.0		17.2	16.9	16.9	16.9	16.8
STD DEV		0.3	0.4		0.2	0.5	0.3	0.3	0.4
HIGH		18.5	18.5		17.6	17.8	17.4	17.6	17.4
LOW		16.7	16.1		16.8	14.8	16.3	16.1	15.5

Table 14 - Housing Starts (millions)

Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	1.18			1.16					
3		1.22	1.52		1.32	1.39	1.47	1.56	1.65
x1		1.18	1.40						
x2		1.18	1.40						
x3		1.40	1.40						
22		1.20	1.30		1.24	1.26	1.29	1.31	1.32
23		1.20	1.30		1.30	1.30	1.30	1.30	1.40
24		1.18	1.29		1.17	1.23	1.26	1.31	1.34
5		1.20	1.28		1.30	1.31	1.25	1.22	1.25
8		1.22	1.28		1.27	1.27	1.28	1.28	1.29
11		1.23	1.28		1.30	1.27	1.26	1.25	1.24
17		1.20	1.27		1.23	1.25	1.27	1.28	1.28
7		1.21	1.26		1.26	1.28	1.26	1.23	1.28
26		1.21	1.26		1.23	1.24	1.26	1.27	1.28
16		1.20	1.26		1.23	1.25	1.26	1.25	1.27
15		1.19	1.26		1.19	1.21	1.24	1.27	1.30
14		1.19	1.25		1.19	1.21	1.24	1.27	1.29
20		1.19	1.25		1.19	1.21	1.24	1.27	1.30
2		1.20	1.25		1.15	1.20	1.20	1.30	1.30
10		1.18	1.24		1.16	1.22	1.24	1.24	1.25
13		1.19	1.23		1.19	1.20	1.24	1.19	1.28
4		1.19	1.22		1.20	1.21	1.22	1.23	1.24
12		1.24	1.22		1.23	1.22	1.22	1.22	1.23
27		1.19	1.22		1.20	1.25	1.25	1.20	1.18
19		1.19	1.21		1.20	1.19	1.20	1.21	1.25
6			1.20		1.17	1.20	1.20	1.20	1.20
21		1.19	1.20		1.19	1.18	1.19	1.20	1.22
18		1.19	1.18		1.19	1.19	1.17	1.18	1.18
1		1.18	1.14		1.13	1.02	1.26	1.19	1.16
25		1.16	1.13		1.16	1.11	1.13	1.14	1.13
MEDIAN		1.19	1.26		1.19	1.21	1.24	1.23	1.25
MEAN		1.20	1.27		1.21	1.21	1.23	1.24	1.25
STD DEV		0.04	0.08		0.04	0.06	0.04	0.04	0.05
HIGH		1.40	1.52		1.30	1.31	1.29	1.31	1.34
LOW		1.16	1.13		1.13	1.02	1.13	1.14	1.13

Table 15 - Oil Price (West Texas Intermediate, Dollars Per Barrel)

	(Q4 value							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	\$49.20			\$48.16					
22	Ψ10.20	\$56.00	\$60.00	ψ10.10	\$56.00	\$56.00	\$56.00	\$60.00	\$60.00
19		\$54.52	\$59.21		\$54.52	\$57.11	\$53.28	\$53.14	\$59.21
23		\$56.20	\$58.50		\$56.20	\$57.60	\$58.40	\$60.00	\$58.50
11		\$55.10	\$57.75		\$55.10	\$58.00	\$59.00	\$61.00	\$57.75
5		\$53.00	\$55.00		\$53.00	\$52.90	\$53.30	\$54.00	\$55.00
20		\$53.50	\$54.97		\$53.50	\$51.18	\$53.05	\$53.50	\$54.97
1		\$49.78	\$54.75		\$49.78	\$50.65	\$54.25	\$55.80	\$54.75
18		\$52.01	\$54.70		\$52.01	\$54.59	\$51.50	\$51.25	\$54.70
3		\$52.00	\$54.64		\$52.00	\$52.93	\$53.37	\$54.03	\$54.64
12		\$49.99	\$53.47		\$49.99	\$51.22	\$57.62	\$56.10	\$53.47
9		\$51.67	\$53.42		\$51.67	\$49.44	\$51.31	\$51.80	\$53.42
15		\$51.56	\$53.39		\$51.56	\$49.47	\$51.36	\$51.80	\$53.39
17		\$52.23	\$53.23		\$52.23	\$52.23	\$52.23	\$52.73	\$53.23
21		\$52.65	\$53.18		\$52.65	\$54.14	\$54.18	\$53.73	\$53.18
6		\$56.00	\$53.00		\$56.00	\$55.00	\$53.00	\$53.00	\$53.00
14		\$52.31	\$53.00		\$52.31	\$48.75	\$50.73	\$51.40	\$53.00
4		\$52.00	\$52.39		\$52.00	\$52.00	\$52.00	\$52.00	\$52.39
13		\$51.70	\$51.50		\$51.70	\$52.00	\$50.50	\$51.80	\$51.50
8		\$52.00	\$51.00		\$52.00	\$48.00	\$50.00	\$48.00	\$51.00
26		\$53.46	\$50.77		\$53.46	\$54.06	\$53.64	\$52.87	\$50.77
7		\$53.00	\$50.00		\$53.00	\$57.23	\$52.34	\$49.00	\$50.00
10		\$53.50	\$50.00		\$53.50	\$53.50	\$51.24	\$49.70	\$50.00
16		\$52.86	\$48.71		\$52.86	\$54.00	\$49.19	\$45.36	\$48.71
24		\$50.90	\$48.60		\$50.90	\$45.20	\$47.40	\$44.70	\$48.60
25		\$48.50	\$48.30		\$48.50	\$46.50	\$47.50	\$48.10	\$48.30
27		\$53.00	\$48.00		\$53.00	\$55.00	\$52.00	\$50.00	\$48.00
2		\$48.20	\$41.30		\$48.20	\$46.75	\$44.75	\$43.30	\$41.30
MEDIAN MEAN		\$52.31 \$52.51	\$53.18 \$52.70		\$52.31 \$52.51	\$52.90 \$52.42	\$52.23 \$52.34	\$52.00 \$52.15	\$53.18 \$52.70
STD DEV		\$5∠.51 \$1.99	\$3.88		ъэ≥.эт \$1.99		\$3.14	φ32.13 \$4.22	\$3.88
HIGH		\$1.99 \$56.20	\$3.88 \$60.00			\$3.44			\$3.88 \$60.00
LOW		\$56.20 \$48.20	\$60.00 \$41.30		\$56.20 \$48.20	\$58.00 \$45.20	\$59.00 \$44.75	\$61.00 \$43.30	\$60.00
		Ψ.σ.Ξο	ψ···σο		ψ.J. <u>L</u> U	ψ.J. <u>L</u> U	Ψ	ψ.5.00	Ţ50

Table 16 - Unemployment Rate

	C	4 value							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	4.70/			4.00/					
12	4.7%	4.1%	4.8%	4.3%	4.1%	4.1%	4.4%	4.6%	4.8%
27		4.1%	4.7%		4.1%	4.1%	4.4%	4.6%	4.0%
2 <i>1</i> 24		4.3% 4.3%	4.7% 4.5%		4.3% 4.3%	4.2% 4.3%	4.3% 4.4%		4.7%
1		4.3%	4.4%		4.3%	4.8%	4.4%	4.4% 4.5%	4.5%
11		4.2%	4.4%		4.2%	4.0%	4.0%	4.5%	4.4%
26		4.2%	4.4%		4.2%	4.2% 4.4%	4.2%	4.4%	4.4%
23		4.3%	4.3%		4.3%	4.4%	4.3%	4.3%	4.3%
23									
		4.3%	4.2%		4.3%	4.4%	4.5%	4.3%	4.2%
25		4.1%	4.2%		4.1%	4.3%	4.5%	4.3%	4.2%
13		4.2%	4.2%		4.2%	4.1%	4.2%	4.2%	4.2%
17		4.2%	4.1%		4.2%	4.2%	4.2%	4.2%	4.1%
6		4.3%	4.1%		4.3%	4.2%	4.1%	4.1%	4.1%
19		4.4%	4.1%		4.4%	4.3%	4.3%	4.2%	4.1%
21		4.2%	4.1%		4.2%	4.1%	4.1%	4.1%	4.1%
20		4.2%	4.1%		4.2%	4.1%	4.1%	4.1%	4.1%
16		4.2%	4.0%		4.2%	4.1%	4.1%	4.1%	4.0%
7		4.2%	4.0%		4.2%	4.0%	3.9%	3.9%	4.0%
4		4.1%	4.0%		4.1%	4.1%	4.0%	4.0%	4.0%
9		4.2%	4.0%		4.2%	4.0%	4.0%	4.0%	4.0%
14		4.2%	4.0%		4.2%	4.0%	4.0%	4.0%	4.0%
15		4.2%	4.0%		4.2%	4.1%	4.0%	4.0%	4.0%
5		4.1%	3.9%		4.1%	4.0%	3.9%	4.0%	3.9%
8		4.1%	3.9%		4.1%	4.1%	4.0%	3.9%	3.9%
10		4.1%	3.8%		4.1%	4.0%	3.9%	3.8%	3.8%
22		4.2%	3.7%		4.2%	4.2%	3.9%	3.9%	3.7%
18		4.2%	3.7%		4.2%	4.1%	4.0%	3.9%	3.7%
3		4.1%	3.7%		4.1%	4.0%	3.8%	3.8%	3.7%
MEDIAN		4.2%	4.1%		4.2%	4.1%	4.1%	4.1%	4.1%
MEAN		4.2%	4.1%		4.2%	4.2%	4.2%	4.1%	4.1%
STD DEV		0.1%	0.3%		0.1%	0.2%	0.2%	0.2%	0.3%
HIGH		4.4%	4.8%		4.4%	4.8%	4.6%	4.6%	4.8%
LOW		4.1%	3.7%		4.1%	4.0%	3.8%	3.8%	3.7%

Table 17 - Consumer Price Index Inflation Rate

	Q4	l over Q4							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	4.00/			0.00/					
1	1.8%	1.7%	3.0%	2.0%	2.1%	2.9%	3.1%	3.0%	3.0%
6		1.7%	2.5%		2.1%	2.3%	2.5%	2.7%	2.7%
		1.7%	2.5% 2.5%		2.1%				
13 3		2.0%	2.5%		3.0%	2.5% 2.0%	2.5% 2.1%	2.5% 2.6%	2.5% 2.8%
11		1.8%	2.3%		2.2%	2.3%	2.3%	2.4%	2.4%
23		1.7%	2.3%		2.1%	2.2%	2.2%	2.3%	2.4%
27		1.7%	2.2%		2.0%	2.2%	2.3%	2.3%	2.2%
7		1.7%	2.2%		2.0%	2.4%	2.3%	2.2%	2.1%
2		1.7%	2.2%		2.0%	2.1%	2.2%	2.3%	2.3%
10		1.7%	2.2%		1.9%	2.2%	2.4%	2.3%	2.0%
12		1.7%	2.1%		2.1%	1.9%	2.1%	2.1%	2.3%
16		1.8%	2.1%		2.4%	2.3%	2.2%	2.0%	1.9%
24		1.7%	2.0%		2.1%	2.1%	2.1%	2.0%	2.0%
5		1.7%	2.0%		2.0%	1.8%	2.2%	1.9%	2.1%
8		2.0%	2.0%		3.0%	2.1%	2.1%	2.3%	1.4%
4		1.8%	1.9%		2.5%	2.0%	1.8%	1.9%	2.1%
9		1.8%	1.9%		2.5%	2.1%	1.4%	1.9%	2.3%
14		1.8%	1.9%		2.5%	2.1%	1.4%	1.9%	2.3%
19		1.9%	1.8%		2.8%	2.9%	-0.2%	1.9%	2.7%
18		1.7%	1.8%		2.1%	1.4%	1.8%	2.2%	1.9%
22		1.8%	1.8%		2.3%	2.9%	0.8%	1.6%	1.8%
15		1.9%	1.7%		2.8%	1.8%	1.3%	1.9%	1.9%
21		1.9%	1.7%		2.8%	1.8%	1.3%	1.9%	1.9%
20		1.9%	1.7%		2.8%	1.8%	1.3%	1.9%	1.9%
26		1.7%	1.7%		1.8%	1.7%	1.4%	1.9%	1.8%
17		1.9%	1.5%		2.8%	0.9%	1.7%	1.8%	1.8%
25		1.7%	1.5%		2.0%	1.1%	1.5%	1.6%	1.8%
MEDIAN		1.8%	2.0%		2.2%	2.1%	2.1%	2.0%	2.1%
MEAN		1.8%	2.0%		2.3%	2.1%	1.9%	2.1%	2.2%
STD DEV		0.1%	0.3%		0.4%	0.5%	0.6%	0.3%	0.4%
HIGH		2.0%	3.0%		3.0%	2.9%	3.1%	3.0%	3.0%
LOW		1.7%	1.5%		1.8%	0.9%	-0.2%	1.6%	1.4%

Table 18 - Treasury Constant Maturity - One-year Rate

	C	Q4 value							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	0.76%			1.24%					
3	0.7070	1.48%	2.66%	1.27/0	1.48%	1.73%	2.02%	2.28%	2.66%
5		1.48%	2.40%		1.48%	1.70%	2.00%	2.25%	2.40%
15		1.44%	2.39%		1.44%	1.66%	1.89%	2.14%	2.39%
26		1.34%	2.34%		1.34%	1.60%	1.81%	2.02%	2.34%
16		1.55%	2.24%		1.55%	1.63%	1.78%	2.05%	2.24%
20		1.44%	2.22%		1.44%	1.65%	1.81%	2.01%	2.229
13		1.42%	2.22%		1.42%	1.62%	1.84%	2.03%	2.22%
4		1.41%	2.12%		1.41%	1.60%	1.72%	1.95%	2.12%
6		1.37%	2.10%		1.37%	1.50%	1.60%	1.70%	2.10%
8		1.55%	2.05%		1.55%	1.68%	1.80%	1.87%	2.05%
14		1.55%	2.05%		1.55%	1.68%	1.80%	1.87%	2.05%
18		1.41%	2.02%		1.41%	1.54%	1.77%	1.89%	2.02%
1		1.37%	2.00%		1.37%	1.40%	1.65%	1.74%	2.00%
27		1.50%	2.00%		1.50%	1.50%	1.75%	2.00%	2.00%
10		1.37%	1.98%		1.37%	1.76%	1.91%	1.91%	1.98%
11		1.41%	1.90%		1.41%	1.70%	1.70%	1.80%	1.90%
2		1.40%	1.80%		1.40%	1.40%	1.55%	1.80%	1.80%
7		1.35%	1.70%		1.35%	1.55%	1.65%	1.65%	1.70%
22		1.45%	1.70%		1.45%	1.60%	1.65%	1.65%	1.70%
23		1.50%	1.70%		1.50%	1.40%	1.40%	1.50%	1.70%
25		1.45%	1.70%		1.45%	1.50%	1.50%	1.70%	1.70%
24		1.35%	1.65%		1.35%	1.47%	1.59%	1.64%	1.65%
12		1.30%	1.60%		1.30%	1.30%	1.40%	1.50%	1.60%
19		1.47%	1.46%		1.47%	1.27%	1.42%	1.64%	1.46%
MEDIAN MEAN		1.43% 1.43%	2.01% 2.00%		1.43% 1.43%	1.60% 1.56%	1.74% 1.71%	1.87% 1.86%	2.01% 2.00%
STD DEV		0.07%	0.29%		0.07%	0.13%	0.17%	0.21%	0.29%
HIGH		1.55%	2.66%		1.55%	1.76%	2.02%	2.28%	2.66%
LOW		1.30%	1.46%		1.30%	1.27%	1.40%	1.50%	1.46%

Table 19 - Treasury Constant Maturity - Ten-year Rate

	C	Q4 value							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	2.13%			2.24%					
3	2.13/0	2.49%	3.74%	2.24 /0	2.49%	2.86%	3.15%	3.44%	3.74%
5		2.48%	3.70%		2.48%	2.80%	3.10%	3.40%	3.70%
6		2.50%	3.30%		2.50%	2.70%	2.90%	3.10%	3.30%
11		2.45%	3.30%		2.45%	2.75%	2.80%	3.10%	3.30%
4		2.49%	3.27%		2.49%	2.71%	2.88%	3.09%	3.27%
23		2.70%	3.20%		2.70%	2.80%	2.80%	3.00%	3.20%
1		2.40%	3.19%		2.40%	2.46%	2.72%	2.78%	3.19%
16		2.47%	3.17%		2.47%	2.57%	2.75%	2.95%	3.17%
2		2.40%	3.10%		2.40%	2.60%	2.80%	3.10%	3.10%
13		2.47%	3.10%		2.47%	2.62%	2.83%	2.99%	3.10%
24		2.40%	3.07%		2.40%	2.60%	2.75%	3.00%	3.07%
15		2.44%	3.04%		2.44%	2.56%	2.74%	2.91%	3.04%
14		2.44%	3.04%		2.44%	2.56%	2.74%	2.91%	3.04%
20		2.44%	2.99%		2.44%	2.56%	2.72%	2.87%	2.99%
17		2.41%	2.95%		2.41%	2.53%	2.71%	2.86%	2.95%
25		2.55%	2.90%		2.55%	2.60%	2.60%	2.85%	2.90%
26		2.44%	2.83%		2.44%	2.62%	2.73%	2.83%	2.83%
8		2.49%	2.78%		2.49%	2.57%	2.66%	2.71%	2.78%
21		2.40%	2.75%		2.40%	2.45%	2.50%	2.60%	2.75%
18		2.60%	2.71%		2.60%	2.59%	2.37%	2.26%	2.71%
12		2.40%	2.50%		2.40%	2.40%	2.40%	2.40%	2.50%
10		2.46%	2.48%		2.46%	2.46%	2.51%	2.41%	2.48%
7		2.45%	2.40%		2.45%	2.65%	2.60%	2.50%	2.40%
27		2.49%	2.40%		2.49%	2.50%	2.65%	2.70%	2.40%
19		2.50%	2.33%		2.50%	2.20%	2.36%	2.60%	2.33%
22		2.33%	2.30%		2.33%	2.38%	2.37%	2.30%	2.30%
MEDIAN		2.45%	3.01%		2.45%	2.58%	2.72%	2.87%	3.01%
MEAN		2.47%	2.94%		2.47%	2.58%	2.70%	2.83%	2.94%
STD DEV		0.07%	0.38%		0.07%	0.14%	0.20%	0.30%	0.38%
HIGH		2.70%	3.74%		2.70%	2.86%	3.15%	3.44%	3.74%
LOW		2.33%	2.30%		2.33%	2.20%	2.36%	2.26%	2.30%

Table 20 - J.P. Morgan Trade Weighted OECD Dollar

	Q	4 over Q4							
Individual	2016	2017	2018	Q317	Q417	Q118	Q218	Q318	Q418
	3.7%			-3.4%					
24		-10.0%	10.3%		-5.4%	1.3%	3.5%	2.6%	2.5%
23		-2.9%	8.9%		2.0%	2.1%	2.3%	2.0%	2.2%
5		-3.4%	8.8%		1.5%	1.5%	2.0%	2.5%	2.5%
6		-5.8%	7.7%		-1.0%	0.0%	1.5%	2.5%	3.5%
1		-3.8%	6.6%		1.1%	-0.8%	2.1%	2.3%	2.9%
11		-4.7%	4.0%		0.2%	0.8%	0.9%	0.9%	1.3%
18		-3.6%	1.5%		1.3%	2.8%	-0.5%	0.5%	-1.3%
14		-4.1%	1.3%		0.8%	0.6%	0.5%	0.1%	0.1%
2		-3.9%	1.0%		1.0%	-1.5%	1.0%	1.5%	0.0%
13		-4.5%	0.6%		0.4%	1.0%	0.4%	-0.3%	-0.4%
7		-5.5%	0.5%		-0.7%	1.3%	1.2%	-0.8%	-1.2%
25		-4.6%	0.3%		0.3%	0.1%	0.0%	0.3%	-0.1%
26		-5.5%	0.2%		-0.7%	0.2%	0.1%	0.0%	-0.1%
4		0.6%	0.0%		5.7%	0.0%	0.0%	0.0%	0.0%
19		-4.2%	-1.4%		0.7%	1.7%	-1.4%	-2.8%	1.2%
16		-4.1%	-1.9%		0.7%	0.3%	-0.6%	-1.0%	-0.6%
10		-3.8%	-3.2%		1.1%	-0.1%	-1.1%	-1.0%	-1.1%

MEDIAN	-4.1%	1.0%	0.7%	0.6%	0.5%	0.3%	0.0%
MEAN	-4.3%	2.6%	0.5%	0.7%	0.7%	0.5%	0.7%
STD DEV	2.0%	4.1%	2.1%	1.0%	1.3%	1.5%	1.5%
HIGH	0.6%	10.3%	5.7%	2.8%	3.5%	2.6%	3.5%
LOW	-10.0%	-3.2%	-5.4%	-1.5%	-1.4%	-2.8%	-1.3%

Table 21a - Individual Forecasts for 2018

									Government
	GDP	GDP price	Real GDP,	Personal	Business		Change		consumption
	current	index,	chained	consumption	fixed	Residential	in private	Net	expenditures and
Individual	dollars	Chain-type	dollars	expenditures	investment	investment	inventories	exports	gross investment
1	5.6%	2.4%	3.0%	2.7%	3.0%	2.0%	\$37.4	-\$618.9	3.0%
2	-2.0%	1.5%	3.0%	-1.2%	-2.8%	1.0%	\$35.1	-\$627.0	0.6%
3	5.7%	2.9%	2.8%	2.5%	5.1%	11.9%	\$68.7	-\$740.7	3.5%
4	4.4%	1.6%	2.7%	2.6%	5.6%	4.1%	\$61.3	-\$640.2	0.8%
5	4.7%	2.2%	2.7%	2.4%	4.3%	7.0%	\$70.0	-\$650.0	1.7%
6	5.6%	2.8%	2.7%	2.7%	4.1%	2.3%	\$38.2	-\$607.2	1.3%
7	4.5%	1.9%	2.6%	3.5%	-0.1%	7.0%	\$26.0	-\$610.0	0.2%
8	4.2%	1.6%	2.5%	2.6%	4.1%	6.9%	\$45.0	-\$627.6	0.7%
9			2.5%	2.3%	3.2%				0.6%
10	4.7%	2.1%	2.5%	2.4%	4.3%	6.1%	\$44.3	-\$654.1	0.6%
11	4.0%	2.1%	2.4%	2.5%	3.7%	4.2%	\$39.3	-\$670.0	1.2%
12	4.0%	1.6%	2.4%	2.5%	4.6%	0.2%	\$30.0	-\$597.8	0.2%
13	4.5%	2.2%	2.3%	2.0%	2.3%	3.2%	43.9	-\$613.6	0.5%
14	4.5%	1.9%	2.3%	2.3%	3.2%	5.7%	\$27.9	-\$628.2	0.6%
15	4.1%	1.8%	2.2%	2.5%	4.5%	3.4%	\$58.1	-\$676.0	0.6%
16	4.6%	2.4%	2.2%	2.4%	5.5%	3.2%	\$45.9	-\$659.5	0.2%
17	4.0%	1.8%	2.2%	2.4%	3.4%	6.9%	\$57.5	-\$662.7	0.5%
18	3.5%	1.8%	2.2%	2.2%	2.7%	4.7%	\$37.7	-\$580.3	0.7%
19	4.3%	2.1%	2.1%	2.2%	3.4%	0.9%	\$36.0	-\$624.1	-0.2%
20	3.9%	1.8%	2.1%	2.3%	4.1%	3.2%	\$55.3	-\$667.8	0.6%
21	3.7%	1.8%	1.8%	2.1%	3.7%	0.5%	\$53.1	-\$655.6	0.6%
22	3.0%	1.2%	1.8%	1.2%	3.5%	3.5%	\$25.0	-\$566.4	1.0%
23	2.8%	1.5%	1.7%	1.6%	3.8%	3.2%	\$39.6	-\$641.0	1.3%
24	3.5%	1.9%	1.6%	2.0%	-1.4%	1.6%	\$70.0	-\$647.9	1.0%
25	2.9%	1.6%	1.3%	1.0%	1.7%	0.2%	\$36.5	-\$599.0	1.0%
26	3.1%	0.9%	1.2%	1.3%	2.7%	3.3%	\$15.9	-\$624.2	-0.6%
27	0.7%	-0.4%	1.1%	-0.2%	1.1%	5.1%	\$55.0	-\$570.0	4.3%
x1							,	• • • • • • • • • • • • • • • • • • • •	
x2									
x3									
EDIAN	4.1%	1.8%	2.3%	2.3%	3.5%	3.3%	\$41.8	-\$627.9	0.6%
EAN	3.8%	1.8%	2.2%	2.0%	3.1%	3.9%	\$44.3	-\$633.1	1.0%
TD DEV	1.5%	0.6%	0.5%	0.9%	1.9%	2.6%	\$14.2	\$36.6	1.0%
IGH	5.7%	2.9%	3.0%	3.5%	5.6%	11.9%	\$70.0	-\$566.4	4.3%
DW.	-2.0%	-0.4%	1.1%	-1.2%	-2.8%	0.2%	\$15.9	-\$740.7	-0.6%

Table 21b - Individual Forecasts for 2018

Individual	Industrial production	Car & light truck sales	Housing starts	Oil Price	Unemployment rate	Inflation rate (CPI)	Treasury constant maturity one-year rate	Treasury constant maturity ten-year rate	J.P. Morgan trade weighted OECD dollar
marriada	production	truok ouloo	otarto	1 1100	rato	(01.1)	one your rate	ton your rate	OLOD dollar
1	3.0%	16.6	1.1	\$54.75	4.4%	3.0%	2.00%	3.19%	6.6%
2	1.2%	17.4	1.25	\$41.30	4.2%	2.2%	1.80%	3.10%	1.0%
3	1.9%	17.0	1.52	\$54.64	3.7%	2.4%	2.66%	3.74%	
4	2.4%	17.2	1.22	\$52.39	4.0%	1.9%	2.12%	3.27%	0.0%
5	1.9%	16.9	1.28	\$55.00	3.9%	2.0%	2.40%	3.70%	8.8%
6	2.8%	17.1	1.20	\$53.00	4.1%	2.5%	2.10%	3.30%	7.7%
7	0.9%	16.9	1.26	\$50.00	4.0%	2.2%	1.70%	2.40%	0.5%
8	2.3%	16.8	1.28	\$51.00	3.9%	2.0%	2.05%	2.78%	
9	2.2%	16.1		\$53.42	4.0%	1.9%			
10	2.0%	16.5	1.24	\$50.00	3.8%	2.2%	1.98%	2.48%	-3.2%
11	1.7%	16.8	1.28	\$57.75	4.4%	2.3%	1.90%	3.30%	4.0%
12	1.5%	17.0	1.22	\$53.47	4.8%	2.1%	1.60%	2.50%	
13	0.3%	16.8	1.2	\$51.50	4.2%	2.5%	2.22%	3.10%	0.6%
14	2.2%	17.0	1.25	\$53.00	4.0%	1.9%	2.05%	3.04%	1.3%
15	2.7%	17.1	1.26	\$53.39	4.0%	1.7%	2.39%	3.04%	
16	3.1%	16.6	1.26	\$48.71	4.0%	2.1%	2.24%	3.17%	-1.9%
17	2.7%	17.1	1.27	\$53.23	4.1%	1.5%		2.95%	
18	1.3%	17.2	1.18	\$54.70	3.7%	1.8%	2.02%	2.71%	1.5%
19	-1.1%	16.5	1.21	\$59.21	4.1%	1.8%	1.46%	2.33%	-1.4%
20	2.5%		1.25	\$54.97	4.1%	1.7%	2.22%	2.99%	
21	2.2%		1.20	\$53.18	4.1%	1.7%		2.75%	
22	0.2%	17.5	1.30	\$60.00	3.7%	1.8%	1.70%	2.30%	
23	1.0%	17.1	1.30	\$58.50	4.3%	2.3%	1.70%	3.20%	8.9%
24	1.7%	17.1	1.29	\$48.60	4.5%	2.0%	1.65%	3.07%	10.3%
25	1.6%	17.0	1.13	\$48.30	4.2%	1.5%	1.70%	2.90%	0.3%
26	0.9%	16.7	1.26	\$50.77	4.3%	1.7%	2.34%	2.83%	0.2%
27	-0.8%	17.2	1.22	\$48.00	4.7%	2.2%	2.00%	2.40%	
x1		16.6	1.40	* 10.00	,				
x2		17.7	1.40						
x3		18.5	1.40						
		. 3.0	•						
EDIAN	1.9%	17.0	1.26	\$53.18	4.1%	2.0%	2.01%	3.01%	1.0%
EAN	1.6%	17.0	1.27	\$52.70	4.1%	2.0%	2.00%	2.94%	2.6%
D DEV	1.0%	0.4	0.08	\$3.88	0.3%	0.3%	0.29%	0.38%	4.1%
GH	3.1%	18.5	1.52	\$60.00	4.8%	3.0%	2.66%	3.74%	10.3%
W	-1.1%	16.1	1.13	\$41.30	3.7%	1.5%	1.46%	2.30%	-3.2%

Contributors

Bryan Bezold	Ford Motor Company
Charles Chesbrough	Cox Automotive
Melvyn Cohen	Madison Financial Consulting
Rajeev Dhawan	Georgia State University
Megan Fietsam	State Farm Insurance
Tom Guthrie	FM Fincorp
William Hickey	DTE Energy
Robert J. Kolbe	RJK Enterprises, Inc.
Monalisa Kulkarni	State Farm Insurance
Daniil Manaenkov	RSQE
Lawrence Nelson	Macroeconomic Advisers
Bernard J. Paniak	BJP Economics
Timothy J. Portz	Sterling Capital Management, Inc.
Thomas J. Portz	Sterling Capitl Management, Inc.
Loc Quach	Moody's Analytics
William V Rapp	New Jersey Institute of Technology
William Shearin	Center Punch Economics
John Silvia	Wells Fargo
Romina Soria	Wisconsin Department of Revenue
Laura Spingola	TRADE RESOURCES Ltd.
Yingzi Su	General Motors
Todd Tomalak	John Burns Real Estate Consulting
Evert Van Der Heide	Calvin College
Eric Wagner	Kohler Co.
Bill Walker	Clean Air Engineering, Inc.
Bill Witte	Witte Econometrics/FTR
Richard Yamarone	Bloomberg, LP
Glenn Zetek	Komatsu America Corp
Mark Zhang	Navistar, Inc.
Sam Kahan	ACT RESEARCH