

24TH ANNUAL

AUTOMOTIVE OUTLOOK SYMPOSIUM

THURSDAY, JUNE 1 - FRIDAY, JUNE 2, 2017

Consensus Forecast for 2017 & 2018

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2016 Automotive Outlook Symposium

Forecast Winners

Overall	Lawrence Nelson - Macroeconomic Advisers	
GDP, current dollars	Lawrence Nelson - Macroeconomic Advisers	
GDP price index, chain-type	Todd Tomalak - John Burns Real Estate Consulting	
Real GDP, chained dollars	Rajeev Dhawan - Georgia State University	
Personal consumption expenditures	Todd Tomalak - John Burns Real Estate Consulting	
Business fixed investment	Jack Kleinhenz - Kleinehnz & Associates	
Residential investment	John Silvia - Wells Fargo Securities	
Change in private inventories	Todd Tomalak - John Burns Real Estate Consulting	
Net exports	Todd Tomalak - John Burns Real Estate Consulting	
Government consumption expenditures and gross investment	Bernard J. Paniak - BJP Economics	
Industrial production	Todd Tomalak - John Burns Real Estate Consulting	
Car & light truck sales	Ken Mayland - ClearView Economics, LLC	
Housing starts	William Hickey - DTE Energy	Thomas J. Portz - Sterling Capital Management, Inc.
Oil Price	Romina Soria - Wisconsin DOR	
Unemployment rate	Arun Raha and Maira Trimble - Eaton	Ken Mayland - ClearView Economics, LLC
Inflation rate (CPI)	Sue Yingzi Su - General Motors	Lawrence Nelson - Macroeconomic Advisers
Treasury constant maturity one-year rate	William Shearin - Center Punch Economics	
Treasury constant maturity ten-year rate	William Hickey - DTE Energy	
J.P. Morgan broad nominal effective exchange rate		

Table 1 - Median Forecast of GDP and Related Items

	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
GDP, current dollars	3.5%	3.9%	4.3%	3.0%	4.6%	4.1%	4.2%	4.2%	4.3%	4.4%	4.4%
GDP price index, chain-type	1.6%	2.0%	2.1%	2.3%	1.6%	2.0%	2.1%	2.1%	2.1%	2.1%	2.1%
Real GDP, chained dollars*	2.0%	2.1%	2.3%	0.7%	3.1%	2.3%	2.3%	2.1%	2.2%	2.2%	2.2%
Personal consumption expenditures*	3.1%	2.1%	2.3%	0.3%	2.8%	2.5%	2.3%	2.4%	2.3%	2.4%	2.4%
Business fixed investment*	-0.1%	5.2%	4.0%	9.4%	3.9%	4.1%	4.2%	4.1%	4.0%	3.7%	3.8%
Residential investment*	1.1%	6.3%	3.4%	13.7%	4.8%	4.3%	3.6%	4.3%	5.1%	4.9%	4.0%
Change in private inventories (billions of constant dollars)**	\$49.6	\$42.5	\$40.0	\$10.3	\$33.3	\$38.6	\$42.5	\$44.0	\$43.9	\$42.5	\$40.0
Net exports of goods and services (billions of constant dollars)**	-\$605.0	-\$635.0	-\$682.7	-\$602.7	-\$611.8	-\$627.1	-\$635.0	-\$649.5	-\$663.5	-\$676.2	-\$682.7
Government consumption expenditures and gross investment*	0.2%	0.2%	0.9%	-1.7%	0.9%	1.1%	0.9%	0.8%	1.1%	1.2%	1.2%
Industrial production*	-0.1%	1.6%	1.7%	1.4%	3.1%	1.7%	1.7%	1.9%	1.8%	1.8%	1.9%
Car & light truck sales (millions - calendar year including imports)***	17.5	17.1	16.9	17.2	17.1	17.2	17.1	17.0	16.9	16.9	16.9
Housing starts (millions)***	1.18	1.26	1.32	1.25	1.25	1.26	1.28	1.30	1.32	1.33	1.34
Oil price (dollars per barrel of West Texas Intermediate)**	\$49.20	\$51.59	\$54.00	\$51.83	\$50.08	\$51.60	\$51.59	\$51.00	\$52.00	\$53.00	\$54.00
Unemployment rate**	4.7%	4.4%	4.4%	4.7%	4.5%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%
Inflation rate (consumer price index)*	1.8%	2.3%	2.3%	3.1%	2.5%	2.3%	2.3%	2.4%	2.4%	2.3%	2.3%
Treasury constant maturity 1-year rate**	0.76%	1.42%	1.89%	0.89%	1.10%	1.25%	1.42%	1.55%	1.66%	1.80%	1.89%
Treasury constant maturity 10-year rate**	2.13%	2.70%	3.11%	2.44%	2.42%	2.55%	2.70%	2.81%	2.95%	3.05%	3.11%
J.P. Morgan trade weighted OECD dollar*	3.7%	3.3%	3.5%	0.8%	0.9%	0.9%	0.7%	0.9%	0.9%	0.9%	0.5%

^{*}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

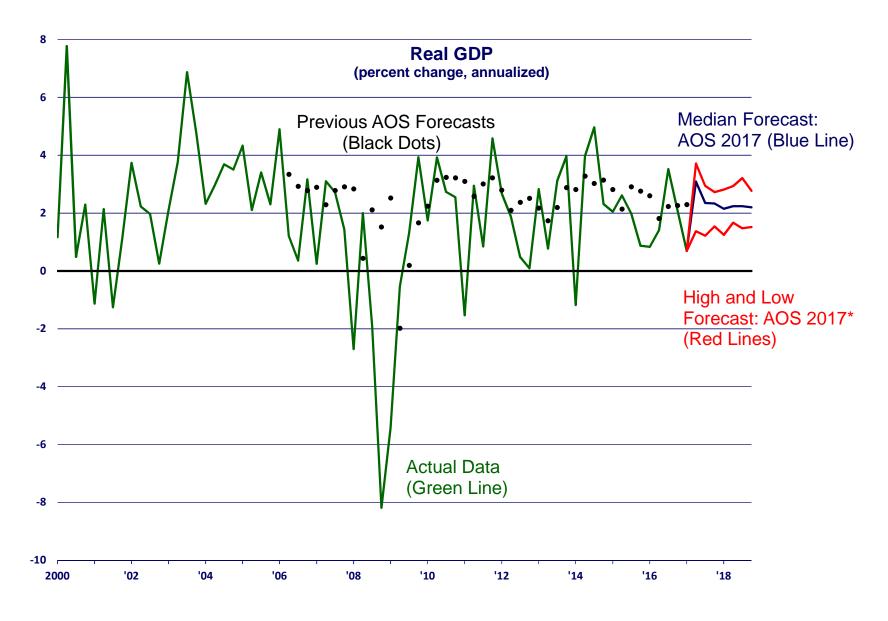
	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
GDP, current dollars*	3.5%	3.6%	4.0%	3.0%	4.0%	3.8%	3.8%	4.0%	3.9%	4.1%	4.0%
GDP price index, chain-type*	1.6%	1.8%	2.0%	2.3%	1.4%	1.9%	1.9%	1.9%	1.9%	2.1%	2.1%
Real GDP, chained dollars*	2.0%	2.0%	2.2%	0.7%	2.8%	2.2%	2.2%	2.2%	2.5%	2.5%	2.2%
Personal consumption expenditures*	3.1%	1.9%	2.4%	0.3%	2.6%	2.4%	2.3%	2.4%	2.3%	2.4%	2.3%
Business fixed investment*	-0.1%	5.0%	3.6%	9.4%	3.3%	4.1%	3.8%	3.7%	3.7%	3.6%	3.6%
Residential investment*	1.1%	6.2%	4.2%	13.7%	3.8%	5.0%	3.3%	4.4%	4.6%	4.5%	3.4%
Change in private inventories (billions of constant dollars)**	\$49.6	\$37.8	\$39.8	\$10.3	\$31.8	\$32.7	\$37.8	\$37.6	\$38.3	\$38.7	\$39.8
Net exports of goods and services (billions of constant dollars)**	-\$605.0	-\$627.5	-\$669.2	-\$602.7	-\$607.3	-\$616.3	-\$627.5	-\$637.7	-\$649.6	-\$660.4	-\$669.2
Government consumption expenditures and gross investment*	0.2%	0.4%	1.1%	-1.7%	1.7%	1.3%	0.9%	0.9%	1.2%	1.1%	1.2%
Industrial production*	-0.1%	2.0%	1.5%	1.4%	3.6%	1.6%	1.6%	1.5%	1.6%	1.6%	1.4%
Car & light truck sales (millions - calendar year including imports)***	17.5	17.3	17.2	17.2	17.2	17.3	17.3	17.2	17.2	17.2	17.2
Housing starts (millions)***	1.18	1.26	1.33	1.25	1.25	1.27	1.29	1.31	1.33	1.34	1.35
Oil price (dollars per barrel of West Texas Intermediate)**	\$49.20	\$51.26	\$53.83	\$51.83	\$50.51	\$51.56	\$51.26	\$51.51	\$52.96	\$53.49	\$53.83
Unemployment rate**	4.7%	4.5%	4.5%	4.7%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%
Inflation rate (consumer price index)*	1.8%	2.4%	2.3%	3.1%	2.1%	2.3%	2.2%	2.3%	2.4%	2.3%	2.3%
Treasury constant maturity 1-year rate**	0.76%	1.33%	1.77%	0.89%	1.03%	1.20%	1.33%	1.43%	1.58%	1.69%	1.77%
Treasury constant maturity 10-year rate**	2.13%	2.72%	3.11%	2.44%	2.44%	2.59%	2.72%	2.83%	2.93%	3.03%	3.11%
J.P. Morgan trade weighted OECD dollar*	3.7%	2.6%	2.5%	0.8%	0.1%	1.2%	0.5%	0.6%	0.7%	0.6%	0.6%

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

^{**}Annuals are Q4 value

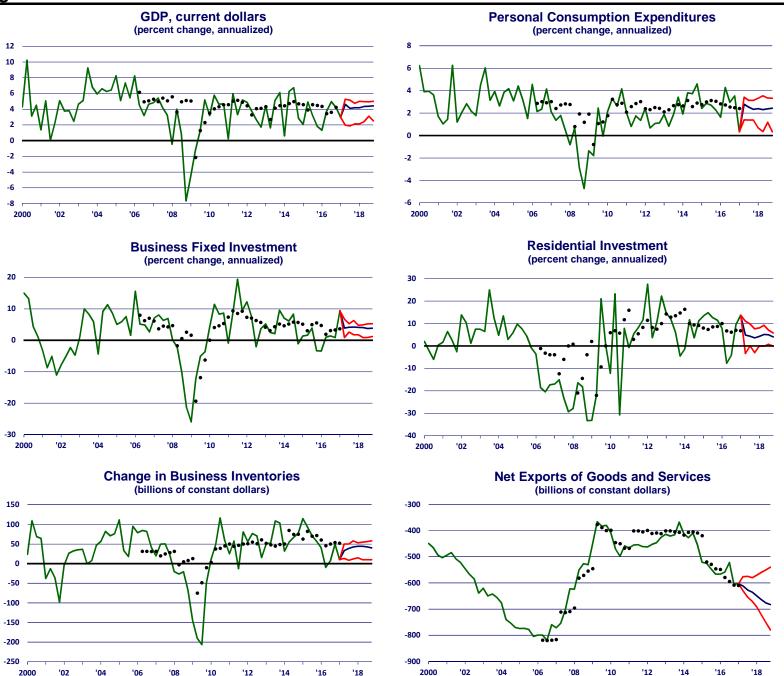
^{***}Annuals are yearly average

Figure 1 - Forecast of GDP and Related Items



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

Figure 2 - Forecast of GDP and Related Items



⁴ Federal Reserve Bank of Chicago - Twenty-Fourth Annual Automotive Outlook Symposium June 2, 2017

Figure 3 - Forecast of GDP and Related Items

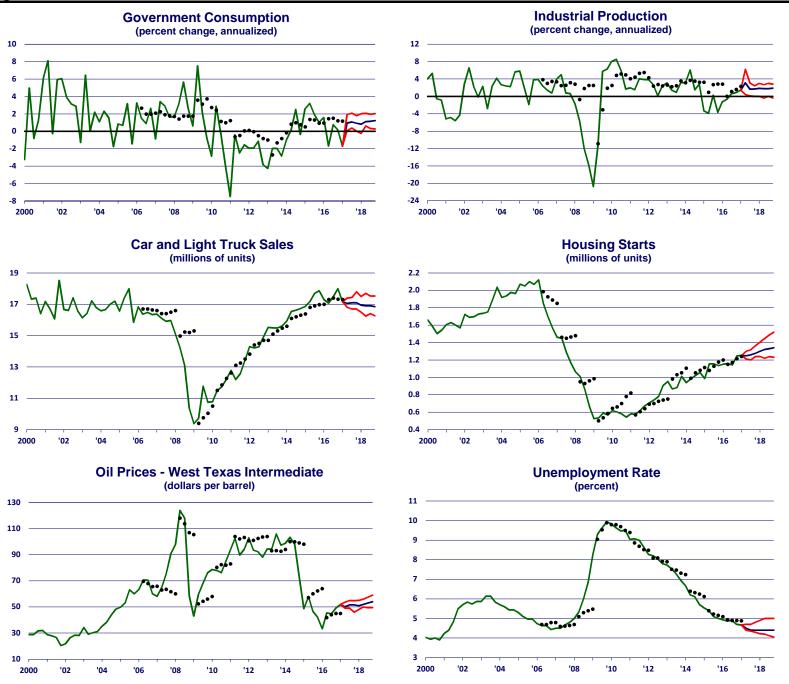
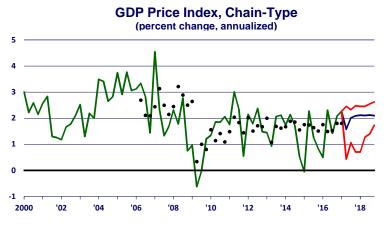
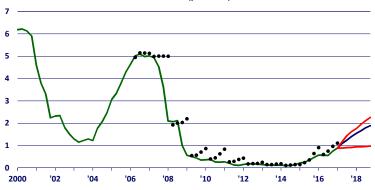


Figure 4 - Forecast of GDP and Related Items











Inflation Rate (CPI) (percent change, annualized)



J.P. Morgan Trade Weighted Dollar (percent change, annualized)

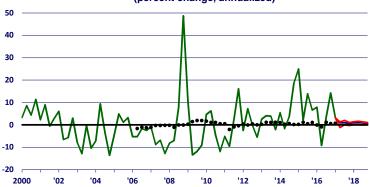


Table 3 - GDP, Current Dollars

	Q4	over Q4									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	0.50/			0.00/							
1	3.5%	4.00/	4.00/	3.0%	E 20/	E 20/	4 70/	E 00/	4.00/	4.00/	4.00/
4		4.6%	4.8%		5.3%	5.3%	4.7%	5.0%	4.9%	4.9%	4.6%
3		4.5%	4.5%		5.4%	5.2%	4.5%	4.9%	4.3%	4.4%	4.4%
5		4.4%	4.5%		5.1%	5.1%	4.6%	4.4%	4.4%	4.3%	4.6%
9		4.3%	4.8%		4.9%	4.7%	4.8%	4.5%	5.1%	4.8%	5.0%
12		4.3%	4.7%		5.3%	4.4%	4.4%	4.5%	5.0%	4.7%	4.5%
7		4.3%	4.5%		4.8%	4.7%	4.5%	4.6%	4.4%	4.4%	4.4%
19		4.2%	2.8%		4.9%	3.7%	5.4%	2.6%	2.4%	3.6%	2.6%
2		4.2%	5.0%		5.9%	4.6%	3.4%	4.8%	4.1%	6.1%	5.0%
22		4.1%	4.1%		4.8%	4.4%	4.3%	4.2%	4.1%	4.1%	3.9%
20		4.1%	4.2%		5.0%	4.1%	4.1%	4.1%	3.9%	4.3%	4.3%
11		4.0%	5.0%		4.0%	4.6%	4.6%	4.8%	4.9%	4.9%	5.2%
21		4.0%	4.1%		4.7%	3.9%	4.5%	4.1%	4.7%	3.9%	3.7%
8		3.9%	4.5%		4.7%	3.9%	4.2%	4.4%	4.5%	4.5%	4.6%
13		3.9%	4.3%		4.1%	4.2%	4.4%	3.9%	4.5%	4.5%	4.4%
10		3.9%	4.4%		4.7%	3.8%	4.2%	3.7%	4.5%	4.4%	4.9%
17		3.9%	3.9%		4.5%	4.1%	4.1%	3.2%	4.1%	4.0%	4.2%
15		3.8%	4.7%		3.1%	4.9%	4.3%	5.4%	4.4%	4.3%	4.8%
14		3.8%	4.4%		4.3%	3.6%	4.2%	4.2%	4.5%	4.4%	4.5%
23		3.7%	4.3%		3.6%	4.7%	3.4%	3.6%	4.3%	4.8%	4.7%
24		3.7%	3.8%		4.1%	3.5%	4.1%	3.8%	3.4%	3.9%	4.0%
25		2.5%	3.1%		2.0%	2.6%	2.6%	3.1%	3.1%	3.1%	3.1%
18		2.5%	4.4%		2.8%	1.9%	2.5%	7.4%	4.5%	3.3%	2.5%
1		2.5%	3.5%		0.1%	3.0%	4.0%	2.0%	3.3%	5.8%	2.8%
26		2.3%	2.8%		2.0%	2.1%	2.1%	3.1%	3.1%	3.1%	2.0%
27		2.3%	0.3%		4.6%	1.7%	0.0%	1.0%	0.0%	0.0%	0.0%
16		2.1%	2.3%								
6		1.2%	3.1%		-1.2%	1.1%	2.1%	2.1%	2.1%	3.1%	5.2%
MEDIAN		3.9%	4.3%		4.6%	4.1%	4.2%	4.2%	4.3%	4.4%	4.4%
MEAN		3.6%	4.0%		4.0%	3.8%	3.8%	4.0%	3.9%	4.1%	4.0%
STD DEV		0.9%	1.0%		1.6%	1.1%	1.1%	1.2%	1.1%	1.1%	1.2%
HIGH		4.6%	5.0%		5.9%	5.3%	5.4%	7.4%	5.1%	6.1%	5.2%
LOW		1.2%	0.3%		-1.2%	1.1%	0.0%	1.0%	0.0%	0.0%	0.0%

Table 4 - GDP Price Index, Chain-type

	Q4	over Q4									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	4.007			0.00/							
45	1.6%	0.50/	0.50/	2.3%	0.00/	0.50/	0.50/	0.50/	0.00/	0.00/	0.00/
15		2.5%	2.5%		2.9%	2.5%	2.5%	2.5%	2.3%	2.3%	2.8%
22		2.3%	2.0%		2.5%	2.3%	2.2%	2.1%	2.1%	2.0%	1.8%
19		2.3%	1.9%		2.3%	2.1%	2.5%	2.1%	1.7%	2.1%	1.7%
24		2.2%	2.2%		2.3%	1.8%	2.5%	2.1%	1.7%	2.4%	2.4%
21		2.2%	1.9%		2.5%	1.8%	2.1%	1.8%	2.5%	1.7%	1.7%
20		2.1%	2.1%		2.1%	2.1%	2.1%	2.1%	2.1%	2.1%	2.1%
13		2.1%	2.2%		1.7%	2.1%	2.3%	2.1%	2.1%	2.4%	2.1%
25		2.1%	2.1%		1.9%	2.1%	2.1%	2.1%	2.1%	2.1%	2.1%
23		2.1%	1.6%		0.4%	3.3%	2.3%	1.1%	1.3%	2.0%	2.1%
5		2.1%	2.2%		1.7%	2.1%	2.2%	2.3%	2.2%	2.1%	2.4%
9		2.0%	2.0%		1.8%	2.0%	2.1%	1.7%	2.3%	1.9%	2.1%
12		2.0%	2.1%		2.1%	1.8%	1.9%	2.0%	2.1%	2.0%	2.1%
18		2.0%	2.6%		1.0%	2.3%	2.5%	2.7%	2.5%	2.5%	2.6%
4		2.0%	2.2%		1.5%	2.0%	2.1%	2.2%	2.2%	2.2%	2.3%
3		2.0%	2.2%		1.5%	2.1%	2.0%	2.2%	2.1%	2.2%	2.2%
6		1.9%	1.9%		1.2%	2.1%	2.1%	2.1%	2.1%	1.4%	2.1%
7		1.9%	2.2%		1.5%	1.9%	2.0%	2.2%	2.1%	2.1%	2.2%
17		1.9%	1.9%		1.6%	2.0%	1.5%	1.7%	1.8%	1.9%	2.0%
11		1.7%	2.3%		0.8%	2.1%	1.8%	2.1%	2.5%	2.1%	2.4%
8		1.6%	2.3%		0.9%	1.4%	2.0%	2.3%	2.2%	2.4%	2.5%
10		1.6%	2.3%		0.9%	1.4%	2.0%	2.3%	2.2%	2.3%	2.4%
14		1.6%	2.3%		0.9%	1.4%	2.0%	2.3%	2.2%	2.3%	2.4%
2		1.6%	2.5%		2.3%	1.1%	0.7%	3.6%	0.7%	2.8%	2.8%
26		1.4%	1.8%		0.5%	1.8%	1.1%	0.7%	1.8%	2.8%	2.1%
27		0.8%	0.3%		0.1%	0.4%	0.4%	0.0%	0.4%	0.4%	0.4%
16		0.1%	2.1%								
1		-0.3%	0.9%		-3.6%	0.2%	0.2%	0.2%	1.4%	1.1%	1.1%
·		0.070	0.070		0.070	0.270	0.270	0.270	,0	,0	,0
MEDIAN		2.0%	2.1%		1.6%	2.0%	2.1%	2.1%	2.1%	2.1%	2.1%
MEAN		1.8%	2.0%		1.4%	1.9%	1.9%	1.9%	1.9%	2.1%	2.1%
STD DEV		0.6%	0.5%		1.2%	0.6%	0.6%	0.7%	0.5%	0.5%	0.5%
HIGH		2.5%	2.6%		2.9%	3.3%	2.5%	3.6%	2.5%	2.8%	2.8%
LOW		-0.3%	0.3%		-3.6%	0.2%	0.2%	0.0%	0.4%	0.4%	0.4%

Table 5 - Real GDP, Chained Dollars

	Q4	over Q4									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	0.00/			0.70/							
	2.0%	0.00/	0.50/	0.7%	2.00/	0.00/	2.00/	4.00/	4.00/	4 70/	4 70/
1		2.8%	2.5%		3.8%	2.9%	3.8%	1.9%	1.9%	4.7%	1.7%
2		2.6%	2.5% 2.3%		3.5% 3.7%	3.5% 3.1%	2.7% 2.5%	1.2% 2.7%	3.4%	3.2% 2.2%	2.1% 2.2%
		2.5%							2.2%		
4		2.4%	2.6%		3.4%	2.9%	2.4%	2.7%	2.6%	2.6%	2.6%
5		2.3%	2.2%		3.3%	2.9%	2.3%	2.1%	2.2%	2.1%	2.2%
6		2.3%	6.1%		3.8%	2.4%	2.4%	4.7%	9.5%	6.9%	3.4%
7		2.3%	2.3%		3.2%	2.8%	2.5%	2.4%	2.2%	2.2%	2.2%
8		2.3%	2.1%		3.7%	2.5%	2.1%	2.0%	2.2%	2.1%	2.0%
9		2.2%	2.8%		3.0%	2.6%	2.6%	2.7%	2.7%	2.8%	2.8%
10		2.2%	2.0%		3.7%	2.4%	2.1%	1.4%	2.3%	2.0%	2.4%
11		2.2%	2.7%		3.0%	2.6%	2.6%	2.7%	2.7%	2.8%	2.7%
12		2.2%	2.6%		3.0%	2.6%	2.4%	2.5%	2.8%	2.6%	2.4%
13		2.1%	2.9%		2.3%	2.6%	2.7%	2.7%	2.8%	3.1%	2.8%
14		2.1%	2.0%		3.3%	2.2%	2.1%	1.9%	2.2%	2.0%	2.0%
15		2.1%	2.3%		3.6%	2.3%	1.7%	2.8%	2.0%	2.0%	2.5%
16		2.0%	0.2%								
17		2.0%	2.0%		2.8%	2.1%	2.4%	1.4%	2.3%	2.1%	2.1%
18		1.9%	2.3%		3.1%	2.3%	1.6%	2.2%	2.3%	2.3%	2.5%
19		1.9%	0.9%		2.6%	1.5%	2.9%	0.5%	0.7%	1.5%	0.9%
20		1.9%	2.0%		2.8%	2.0%	2.0%	2.0%	1.8%	2.2%	2.2%
21		1.8%	2.5%		2.1%	2.1%	2.3%	2.3%	2.7%	2.6%	2.5%
22		1.8%	2.0%		2.2%	2.0%	2.1%	2.1%	1.9%	2.1%	2.1%
23		1.5%	2.7%		3.2%	1.3%	1.0%	2.5%	2.9%	2.7%	2.6%
24		1.4%	1.6%		1.9%	1.7%	1.5%	1.7%	1.7%	1.4%	1.5%
25		1.3%	1.8%		1.4%	1.2%	1.8%	1.8%	1.8%	1.8%	1.8%
26		1.0%	2.5%		0.2%	1.2%	1.9%	2.9%	2.4%	2.3%	2.3%
27		0.4%	0.1%		0.4%	0.4%	0.0%	0.4%	0.0%	0.0%	0.0%
MEDIAN		2.1%	2.3%		3.1%	2.3%	2.3%	2.1%	2.2%	2.2%	2.2%
MEAN			2.3% 2.2%		3.1% 2.8%	2.3% 2.2%	2.3% 2.2%	2.1% 2.2%	2.2% 2.5%		
		2.0%								2.5%	2.2%
STD DEV		0.5%	1.0%		1.0%	0.7%	0.7%	0.8%	1.6%	1.2%	0.6%
HIGH		2.8%	6.1%		3.8%	3.5%	3.8%	4.7%	9.5%	6.9%	3.4%
LOW		0.4%	0.1%		0.2%	0.4%	0.0%	0.4%	0.0%	0.0%	0.0%

Table 6 - Personal Consumption Expenditures

16		Q4	over Q4									
16	Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
16												
21 2.4% 2.9% 2.8% 3.4% 3.1% 3.1% 2.9% 2.9% 2.9% 6 2.4% 4.8% 2.4% 3.4% 3.4% 5.0% 3.3% 4.1% 3 2.4% 2.6% 3.8% 2.8% 2.6% 3.3% 2.3% 2.4% 2.4% 2 2.3% 2.7% 3.4% 2.5% 3.1% 3.0% 2.7% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.5% 2.4% 2.3% 2.1% 2.2% 3.1% 3.2% 3.7% 2.8% 2.2% 3.1% 3.2% 3.3% 3.4% 1.7% 1.1% 1.7% 1.1% 1.7% 1.1% 1.7% 1.1% 1.7% 1.1% 1.1% 1.2% 2.2% 2.1% 2.2% 2.1% 2.2% 2.1% 2.5% 2.2% 2.1% 2.5% 2.1% 2.1% <	10	3.1%	0.50/	0.00/	0.3%							
6						0.00/	0.40/	0.40/	0.40/	0.00/	0.00/	0.00/
3 2.4% 2.6% 3.8% 2.8% 2.6% 3.3% 2.3% 2.4% 2.4% 2 2.3% 2.7% 3.4% 2.5% 3.1% 3.0% 2.7% 2.5% 2.5% 13 2.3% 3.1% 3.2% 2.7% 3.6% 3.4% 2.6% 8 2.3% 2.2% 3.2% 3.7% 2.8% 2.2% 3.1% 3.2% 3.3% 3.4% 1 2.2% 2.3% 1.4% 2.8% 4.5% 0.7% 1.7% 5.1% 1.7% 10 2.2% 2.0% 3.2% 3.0% 2.3% 1.2% 2.2% 2.1% 2.5% 4 2.2% 2.0% 3.2% 3.0% 2.3% 1.2% 2.2% 2.1% 2.5% 4 2.2% 2.4% 3.4% 3.4% 2.7% 2.4% 3.6% 3.5% 3.3% 3.3% 2.2% 2.1% 2.2% 2.1% 2.2% 2.1% 2.2% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
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12 2.0% 2.6% 2.7% 2.5% 2.3% 2.7% 2.5% 2.5% 17 1.9% 2.1% 2.6% 1.9% 2.9% 1.4% 2.2% 2.3% 2.6% 22 1.9% 2.2% 2.8% 2.3% 2.3% 2.3% 2.2% 2.2% 20 1.8% 2.1% 2.6% 2.1% 2.2% 1.4% 1.9% 2.3% 2.4% 2.2% 1.4% 1.9% 2.2% 1.1% 2.1% 2.2% 1.4% 1.9% 2.4% 0.2% 1.2% 0.3% 2.4% 2.3% 2.4% 2.0% 2.1% 1.9% 2.4% 1.2% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% </td <td>11</td> <td></td> <td>2.9%</td>	11											2.9%
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22 1.9% 2.2% 2.8% 2.3% 2.3% 2.3% 2.2% 2.2% 20 1.8% 2.1% 2.6% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 2.1% 1.4% 1.4% 1.4% 1.9% 2.1% 1.9% 2.2% 1.4% 1.4% 1.9% 2.3% 3.3% 3.3% 3.3% 3.1% 3.2% 3.3% 3.3% 3.3% 3.1% 3.2% 3.2% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.0% 1.2% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.2% 0.2% 0.4% 0.3% 0.3% 0.2% 0.2% 0.4% 0.3% 0.3% 0.2% 0.2% 0.2%	12		2.0%	2.6%		2.7%	2.5%	2.3%	2.7%	2.7%	2.5%	2.5%
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15 1.7% 1.7% 3.4% 1.8% 1.4% 2.2% 1.4% 1.4% 1.9% 23 1.7% 3.2% 2.5% 2.0% 1.8% 3.2% 3.3% 3.3% 3.1% 5 1.7% 2.3% 2.1% 2.1% 2.2% 2.1% 2.3% 2.3% 2.4% 19 1.5% 1.0% 1.9% 2.1% 1.9% 2.4% 0.2% 1.2% 0.3% 26 1.0% 2.2% 1.0% 1.4% 1.4% 2.1% 2.4% 2.4% 2.0% 27 0.9% -0.3% 1.7% 1.4% 0.0% -0.3% -0.3% -0.3% -0.3% -0.3% 2.4% 2.3% 2.4% 2.3% 0.2% 0.2% MEDIAN 2.1% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% </td <td>22</td> <td></td> <td>1.9%</td> <td>2.2%</td> <td></td> <td>2.8%</td> <td>2.3%</td> <td>2.3%</td> <td>2.3%</td> <td>2.3%</td> <td>2.2%</td> <td>2.2%</td>	22		1.9%	2.2%		2.8%	2.3%	2.3%	2.3%	2.3%	2.2%	2.2%
23 1.7% 3.2% 2.5% 2.0% 1.8% 3.2% 3.3% 3.3% 3.1% 5 1.7% 2.3% 2.1% 2.1% 2.2% 2.1% 2.3% 2.3% 2.4% 19 1.5% 1.0% 1.9% 2.1% 1.9% 2.4% 0.2% 1.2% 0.3% 26 1.0% 2.2% 1.0% 1.4% 1.4% 2.1% 2.4% 2.4% 2.0% 27 0.9% -0.3% 1.7% 1.4% 0.0% -0.3%	20		1.8%	2.1%		2.6%	2.1%	2.1%	2.1%	2.1%	2.1%	2.1%
5 1.7% 2.3% 2.1% 2.1% 2.2% 2.1% 2.3% 2.3% 2.4% 19 1.5% 1.0% 1.9% 2.1% 1.9% 2.4% 0.2% 1.2% 0.3% 26 1.0% 2.2% 1.0% 1.4% 1.4% 2.1% 2.4% 2.4% 2.0% 27 0.9% -0.3% 1.7% 1.4% 0.0% -0.3% -0.3% -0.3% 25 0.3% 0.3% 0.2% 0.2% 0.4% 0.3% 0.3% 0.2% MEAN 1.9% 2.4% 2.6% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% STD DEV 0.5% 1.0% 0.8% 0.7% 0.9% 1.3% 1.1% 1.1% 1.0% HIGH 2.5% 4.8% 3.8% 3.4% 4.5% 6.9% 5.0% 5.1% 4.1%	15		1.7%	1.7%		3.4%	1.8%	1.4%	2.2%	1.4%	1.4%	1.9%
19 1.5% 1.0% 1.9% 2.1% 1.9% 2.4% 0.2% 1.2% 0.3% 26 1.0% 2.2% 1.0% 1.4% 1.4% 2.1% 2.4% 2.4% 2.0% 27 0.9% -0.3% 1.7% 1.4% 0.0% -0.3% -0.2% -0.2% -0.2% -0.2% -0.2% -0.2% -0.2% -0.2% -0.2%	23		1.7%	3.2%		2.5%	2.0%	1.8%	3.2%	3.3%	3.3%	3.1%
19 1.5% 1.0% 1.9% 2.1% 1.9% 2.4% 0.2% 1.2% 0.3% 26 1.0% 2.2% 1.0% 1.4% 1.4% 2.1% 2.4% 2.4% 2.0% 27 0.9% -0.3% 1.7% 1.4% 0.0% -0.3% -0.2% -0.2% -0.2% -0.2% -0.2% -0.2% -0.2% -0.2% -0.2%	5		1.7%	2.3%		2.1%	2.1%	2.2%	2.1%	2.3%	2.3%	2.4%
26 1.0% 2.2% 1.0% 1.4% 1.4% 2.1% 2.4% 2.4% 2.0% 27 0.9% -0.3% 1.7% 1.4% 0.0% -0.3% 0.2% 0.2% 0.4% 0.3% 0.2%	19			1.0%		1.9%			2.4%	0.2%	1.2%	
27 0.9% -0.3% 1.7% 1.4% 0.0% -0.3% -0.2% 0.2% 0.2% 0.2% 0.3% 0.3% 0.2%												2.0%
25 0.3% 0.3% 0.2% 0.2% 0.4% 0.3% 0.3% 0.2% 0.2% MEDIAN 2.1% 2.3% 2.8% 2.5% 2.3% 2.4% 2.3% 2.4% 2.4% MEAN 1.9% 2.4% 2.6% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% STD DEV 0.5% 1.0% 0.8% 0.7% 0.9% 1.3% 1.1% 1.1% 1.0% HIGH 2.5% 4.8% 3.8% 3.4% 4.5% 6.9% 5.0% 5.1% 4.1%	27		0.9%	-0.3%		1.7%					-0.3%	-0.3%
MEDIAN 2.1% 2.3% 2.8% 2.5% 2.3% 2.4% 2.3% 2.4% 2.4% MEAN 1.9% 2.4% 2.6% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% STD DEV 0.5% 1.0% 0.8% 0.7% 0.9% 1.3% 1.1% 1.1% 1.0% HIGH 2.5% 4.8% 3.8% 3.4% 4.5% 6.9% 5.0% 5.1% 4.1%												
MEAN 1.9% 2.4% 2.6% 2.4% 2.3% 2.4% 2.3% 2.4% 2.3% STD DEV 0.5% 1.0% 0.8% 0.7% 0.9% 1.3% 1.1% 1.1% 1.0% HIGH 2.5% 4.8% 3.8% 3.4% 4.5% 6.9% 5.0% 5.1% 4.1%			,-	1-								
STD DEV 0.5% 1.0% 0.8% 0.7% 0.9% 1.3% 1.1% 1.1% 1.0% HIGH 2.5% 4.8% 3.8% 3.4% 4.5% 6.9% 5.0% 5.1% 4.1%	MEDIAN		2.1%	2.3%		2.8%	2.5%	2.3%	2.4%	2.3%	2.4%	2.4%
STD DEV 0.5% 1.0% 0.8% 0.7% 0.9% 1.3% 1.1% 1.1% 1.0% HIGH 2.5% 4.8% 3.8% 3.4% 4.5% 6.9% 5.0% 5.1% 4.1%	MEAN		1.9%	2.4%		2.6%	2.4%	2.3%	2.4%	2.3%	2.4%	2.3%
HIGH 2.5% 4.8% 3.8% 3.4% 4.5% 6.9% 5.0% 5.1% 4.1%	STD DEV											1.0%
	HIGH											4.1%
	LOW			-0.3%							-0.3%	-0.3%

Table 7 - Business Fixed Investment

	Q4	over Q4									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	0.40/			0.40/							
	-0.1%	7.00/	4.40/	9.4%	C 70/	C 40/	F 7 0/	4 70/	4.00/	2.00/	2.00/
5		7.0%	4.1%		6.7%	6.1%	5.7%	4.7%	4.0%	3.8%	3.8%
4		6.2%	3.9%		4.3%	4.5%	6.8%	3.7%	4.0%	3.5%	4.4%
12		6.2%	7.5%		6.9%	4.7%	4.0%	7.3%	9.2%	6.7%	6.8%
11		6.0%	4.7%		5.4%	4.4%	4.7%	4.7%	4.9%	4.8%	4.6%
8		5.9%	4.7%		4.1%	5.3%	4.8%	4.7%	4.8%	4.7%	4.6%
6		5.8%	2.2%		-3.9%	10.3%	8.1%	4.4%	0.9%	0.9%	2.6%
10		5.8%	4.5%		4.1%	5.2%	4.7%	3.8%	4.6%	4.6%	5.0%
9		5.7%	4.5%		4.1%	4.5%	4.8%	4.6%	4.5%	4.5%	4.6%
23		5.6%	4.7%		6.7%	4.1%	2.4%	3.7%	4.7%	5.2%	5.2%
20		5.6%	4.6%		4.6%	4.2%	4.2%	4.2%	4.2%	5.0%	5.0%
14		5.5%	4.5%		3.5%	4.7%	4.6%	4.4%	4.6%	4.6%	4.4%
13		5.5%	5.2%		4.1%	4.1%	4.4%	4.7%	5.2%	5.3%	5.4%
17		5.2%	3.3%		3.9%	3.8%	3.7%	2.8%	4.9%	2.7%	2.9%
3		5.2%	4.2%		4.6%	4.1%	2.7%	7.1%	3.5%	3.2%	3.1%
1		5.1%	2.2%		2.3%	2.7%	6.3%	1.7%	1.7%	3.5%	1.7%
25		4.9%	2.0%		5.1%	2.7%	2.6%	2.6%	2.3%	2.1%	1.2%
21		4.7%	3.7%		1.0%	3.9%	4.8%	3.7%	3.5%	3.7%	3.8%
2		4.7%	4.1%		0.9%	4.3%	4.3%	4.2%	4.4%	4.0%	3.8%
18		4.5%	4.5%		0.5%	4.6%	3.7%	4.3%	4.3%	4.6%	4.8%
15		4.3%	3.9%		1.1%	3.2%	3.7%	4.1%	3.8%	3.7%	4.1%
22		4.2%	3.0%		2.3%	2.6%	2.9%	3.4%	2.2%	2.9%	3.6%
26		4.2%	2.6%		2.3%	3.6%	1.8%	1.8%	3.5%	3.5%	1.7%
7		4.2%	3.2%		2.2%	2.9%	2.5%	2.9%	3.4%	3.2%	3.3%
27		2.8%	-0.2%		1.4%	0.5%	0.2%	0.0%	-0.4%	-0.4%	0.0%
19		2.4%	0.3%		3.2%	1.1%	-3.8%	-1.2%	0.5%	0.9%	0.9%
16		2.3%	2.5%								
MEDIAN		5.2%	4.0%		3.9%	4.1%	4.2%	4.1%	4.0%	3.7%	3.8%
MEAN		5.0%	3.6%		3.3%	4.1%	3.8%	3.7%	3.7%	3.6%	3.6%
STD DEV		1.1%	1.5%		2.3%	1.7%	2.2%	1.8%	1.8%	1.5%	1.6%
HIGH		7.0%	7.5%		6.9%	10.3%	8.1%	7.3%	9.2%	6.7%	6.8%
LOW		2.3%	-0.2%		-3.9%	0.5%	-3.8%	-1.2%	-0.4%	-0.4%	0.0%

Table 8 - Residential Investment

	Q4	l over Q4									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	4.40/			40 70/							
40	1.1%	44.00/	F 70/	13.7%	40.40/	44.40/	0.00/	0.00/	0.00/	0.00/	4.70/
19		11.6%	5.7%		13.4%	11.1%	8.2%	3.0%	9.3%	6.0%	4.7%
5		10.3%	4.7%		11.1%	9.1%	7.6%	6.2%	5.1%	4.2%	3.4%
21		10.0%	8.1%		8.7%	9.4%	8.4%	7.5%	12.1%	7.1%	5.8%
2		9.1%	10.8%		6.4%	10.0%	6.4%	12.9%	12.5%	12.1%	5.8%
25		9.1%	6.2%		9.8%	6.5%	6.4%	4.4%	8.2%	6.1%	6.0%
12		8.9%	6.7%		7.0%	8.0%	7.0%	5.0%	7.0%	7.0%	8.0%
11		8.5%	5.5%		7.5%	6.5%	6.3%	5.8%	5.6%	5.4%	5.4%
9		8.3%	5.2%		6.7%	6.7%	6.5%	5.5%	5.1%	5.1%	5.1%
1		8.2%	-0.8%		13.4%	9.8%	-3.0%	9.6%	-3.0%	-3.0%	-6.0%
7		7.1%	5.3%		4.2%	4.8%	6.2%	6.7%	5.4%	4.9%	4.2%
8		6.5%	6.5%		4.9%	4.3%	3.6%	6.8%	7.5%	6.5%	5.1%
13		6.4%	3.5%		4.0%	4.2%	3.9%	3.8%	3.7%	3.3%	3.3%
4		6.3%	3.3%		3.2%	5.1%	3.7%	2.8%	3.1%	4.4%	3.0%
14		6.3%	6.7%		4.7%	3.8%	3.5%	7.0%	7.6%	6.7%	5.4%
10		6.1%	6.4%		4.9%	3.4%	2.9%	8.0%	6.9%	5.8%	5.1%
3		6.1%	3.1%		4.2%	2.6%	4.4%	2.9%	1.7%	3.9%	4.0%
26		5.7%	3.2%		3.0%	3.3%	3.2%	3.2%	3.2%	3.2%	3.1%
22		5.6%	3.0%		3.1%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
17		3.9%	2.1%		5.7%	5.2%	-8.0%	1.3%	6.3%	3.5%	-2.5%
18		3.8%	1.9%		-3.4%	4.3%	1.5%	4.3%	1.7%	0.7%	0.8%
27		3.3%	-0.1%		0.1%	0.1%	0.1%	0.0%	-0.1%	-0.1%	-0.1%
20		3.3%	2.5%		0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	5.0%
16		2.5%	2.7%								
23		2.4%	0.8%		4.8%	-2.1%	-5.6%	-4.2%	-0.7%	5.7%	2.7%
15		0.6%	3.1%		-14.9%	3.4%	2.3%	3.4%	3.0%	3.0%	3.0%
6		0.2%	1.8%		-17.2%	3.5%	3.4%	2.0%	0.0%	3.4%	2.0%
MEDIAN		6.3%	3.4%		4.8%	4.3%	3.6%	4.3%	5.1%	4.9%	4.0%
MEAN		6.2%	4.2%		3.8%	5.0%	3.3%	4.4%	4.6%	4.5%	3.4%
STD DEV		2.9%	2.6%		7.0%	3.2%	4.0%	3.4%	3.8%	2.8%	2.9%
HIGH		11.6%	10.8%		13.4%	11.1%	8.4%	12.9%	12.5%	12.1%	8.0%
LOW		0.2%	-0.8%		-17.2%	-2.1%	-8.0%	-4.2%	-3.0%	-3.0%	-6.0%

Table 9 - Change in Private Inventories

	Q	4 value									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	\$49.6	*	•	\$10.3	A . = .	^	* • • •	*	•	.	* · · · ·
19		\$65.0	\$10.0		\$15.0	-\$25.0	\$65.0	\$15.0	\$10.0	\$0.0	\$10.0
5		\$60.1	\$61.3		\$34.5	\$59.8	\$60.1	\$60.4	\$60.7	\$61.0	\$61.3
2		\$58.1	\$64.7		\$40.9	\$64.2	\$58.1	\$53.6	\$60.2	\$63.3	\$64.7
12		\$55.1	\$54.6		\$42.6	\$46.7	\$55.1	\$48.3	\$48.4	\$56.0	\$54.6
1		\$55.0	\$35.0		\$45.0	\$50.0	\$55.0	\$50.0	\$45.0	\$40.0	\$35.0
18		\$54.2	\$58.2		\$50.2	\$49.5	\$54.2	\$53.0	\$54.7	\$55.6	\$58.2
11		\$50.0	\$50.0		\$40.0	\$45.0	\$50.0	\$50.0	\$50.0	\$50.0	\$50.0
13		\$50.0	\$40.0		\$37.5	\$47.5	\$50.0	\$50.0	\$45.0	\$45.0	\$40.0
3		\$48.5	\$39.5		\$26.7	\$40.7	\$48.5	\$43.0	\$42.9	\$40.7	\$39.5
8		\$48.1	\$56.9		\$49.6	\$41.1	\$48.1	\$50.6	\$53.5	\$55.1	\$56.9
10		\$47.7	\$54.5		\$49.6	\$41.1	\$47.7	\$49.9	\$49.7	\$49.9	\$54.5
14		\$43.5	\$54.4		\$49.8	\$39.2	\$43.5	\$46.8	\$50.5	\$52.0	\$54.4
7		\$42.5	\$51.3		\$29.8	\$35.3	\$42.5	\$49.0	\$49.6	\$50.3	\$51.3
9		\$42.0	\$40.0		\$35.0	\$38.0	\$42.0	\$45.0	\$48.0	\$45.0	\$40.0
20		\$40.0	\$30.0		\$40.0	\$40.0	\$40.0	\$40.0	\$30.0	\$30.0	\$30.0
22		\$34.0	\$32.0		\$32.0	\$34.0	\$34.0	\$32.0	\$32.0	\$32.0	\$32.0
16		\$30.2	\$45.6				\$30.2				\$45.6
15		\$25.0	\$25.0		\$22.0	\$25.0	\$25.0	\$25.0	\$25.0	\$25.0	\$25.0
6		\$21.0	\$20.0		\$13.0	\$19.0	\$21.0	\$22.0	\$21.0	\$20.5	\$20.0
23		\$20.1	\$38.1		\$32.1	\$24.1	\$20.1	\$29.0	\$40.0	\$36.0	\$38.1
4		\$18.2	\$51.3		\$7.4	\$10.8	\$18.2	\$21.5	\$34.6	\$44.3	\$51.3
17		\$18.0	\$31.0		\$30.0	\$32.0	\$18.0	\$30.0	\$28.0	\$33.0	\$31.0
27		\$12.0	\$10.0		\$15.5	\$13.0	\$12.0	\$12.0	\$10.0	\$10.0	\$10.0
21		\$5.2	\$1.3		\$18.7	\$8.5	\$5.2	\$0.5	\$0.5	-\$0.3	\$1.3
26		\$2.0	\$40.0		\$5.5	\$5.0	\$2.0	\$25.0	\$30.0	\$35.0	\$40.0
MEDIAN		\$42.5	\$40.0		\$33.3	\$38.6	\$42.5	\$44.0	\$43.9	\$42.5	\$40.0
MEAN		\$37.8	\$39.8		\$31.8	\$32.7	\$37.8	\$37.6	\$38.3	\$38.7	\$39.8
STD DEV		\$17.7	\$16.6		\$13.5	\$19.5	\$17.7	\$15.5	\$16.0	\$17.3	\$16.6
HIGH		\$65.0	\$64.7		\$50.2	\$64.2	\$65.0	\$60.4	\$60.7	\$63.3	\$64.7
LOW		\$2.0	\$1.3		\$5.5	-\$25.0	\$2.0	\$0.5	\$0.5	-\$0.3	\$1.3
		+ -	÷			+	,—·•	,	,	,	

Table 10 - Net Exports of Goods and Services

	(Q4 value									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	-\$605.0	# 540.0	# =0.4.0	-\$602.7	#== 0.0	# 540.4	# 540.0	# 500.0	# 505.0	Φ=4= 4	# 504.0
15		-\$548.9	-\$504.6		-\$556.8	-\$546.4	-\$548.9	-\$532.2	-\$525.3	-\$517.4	-\$504.6
13		-\$559.0	-\$560.0		-\$576.0	-\$563.0	-\$559.0	-\$560.0	-\$560.0	-\$560.0	-\$560.0
6		-\$580.0	-\$560.0		-\$565.0	-\$575.0	-\$580.0	-\$575.0	-\$570.0	-\$565.0	-\$560.0
27		-\$580.0	-\$530.0		-\$600.0	-\$600.0	-\$580.0	-\$570.0	-\$560.0	-\$550.0	-\$530.0
26		-\$590.0	-\$570.0		-\$600.0	-\$595.0	-\$590.0	-\$585.0	-\$580.0	-\$575.0	-\$570.0
19		-\$602.0	-\$585.0		-\$600.0	-\$590.0	-\$602.0	-\$598.0	-\$595.0	-\$585.0	-\$585.0
1		-\$610.0	-\$540.0		-\$590.0	-\$600.0	-\$610.0	-\$580.0	-\$570.0	-\$550.0	-\$540.0
7		-\$619.9	-\$663.2		-\$605.3	-\$609.4	-\$619.9	-\$630.5	-\$638.7	-\$648.5	-\$663.2
3		-\$620.9	-\$654.7		-\$604.9	-\$610.4	-\$620.9	-\$629.9	-\$635.4	-\$642.8	-\$654.7
17		-\$621.0	-\$682.0		-\$623.0	-\$631.0	-\$621.0	-\$639.0	-\$659.0	-\$675.5	-\$682.0
4		-\$624.9	-\$760.3		-\$589.5	-\$594.5	-\$624.9	-\$651.1	-\$696.0	-\$729.8	-\$760.3
11		-\$633.2	-\$701.2		-\$608.8	-\$621.6	-\$633.2	-\$649.0	-\$666.5	-\$686.0	-\$701.2
9		-\$635.0	-\$650.0		-\$613.0	-\$629.0	-\$635.0	-\$650.0	-\$650.0	-\$650.0	-\$650.0
16		-\$635.7	-\$612.8				-\$635.7				-\$612.8
20		-\$636.9	-\$693.1		-\$614.0	-\$625.4	-\$636.9	-\$648.6	-\$660.4	-\$676.6	-\$693.1
22		-\$641.5	-\$682.7		-\$622.0	-\$631.4	-\$641.5	-\$655.1	-\$668.9	-\$675.7	-\$682.7
23		-\$644.6	-\$737.5		-\$610.7	-\$628.8	-\$644.6	-\$663.5	-\$687.0	-\$710.7	-\$737.5
21		-\$645.8	-\$702.3		-\$617.5	-\$631.7	-\$645.8	-\$659.9	-\$674.1	-\$688.2	-\$702.3
5		-\$647.0	-\$696.5		-\$613.8	-\$630.9	-\$647.0	-\$662.0	-\$675.2	-\$686.8	-\$696.5
14		-\$653.3	-\$747.1		-\$616.7	-\$630.9	-\$653.3	-\$678.0	-\$698.3	-\$719.8	-\$747.1
10		-\$654.0	-\$725.0		-\$619.7	-\$635.2	-\$654.0	-\$668.4	-\$680.7	-\$699.4	-\$725.0
8		-\$662.4	-\$757.9		-\$619.3	-\$638.3	-\$662.4	-\$688.0	-\$709.4	-\$731.0	-\$757.9
12		-\$669.9	-\$779.5		-\$645.7	-\$662.2	-\$669.9	-\$691.6	-\$721.0	-\$750.8	-\$779.5
18		-\$681.5	-\$814.4		-\$633.7	-\$654.3	-\$681.5	-\$711.2	-\$743.4	-\$777.0	-\$814.4
2		-\$689.9	-\$820.4		-\$630.0	-\$657.3	-\$689.9	-\$728.6	-\$766.3	-\$799.7	-\$820.4
MEDIAN		-\$635.0	-\$682.7		-\$611.8	-\$627.1	-\$635.0	-\$649.5	-\$663.5	-\$676.2	-\$682.7
MEAN		-\$627.5	-\$669.2		-\$607.3	-\$616.3	-\$627.5	-\$637.7	-\$649.6	-\$660.4	-\$669.2
STD DEV		\$35.0	\$88.9		\$20.3	\$28.3	\$35.0	\$49.1	\$62.1	\$76.1	\$88.9
HIGH		-\$548.9	-\$504.6		-\$556.8	-\$546.4	-\$548.9	-\$532.2	-\$525.3	-\$517.4	-\$504.6
LOW		-\$689.9	-\$820.4		-\$645.7	-\$662.2	-\$689.9	-\$728.6	-\$766.3	-\$799.7	-\$820.4

Table 11 - Government Consumption Expenditures and Gross Investment

	Q4	over Q4									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	0.2%			-1.7%							
6	0.270	5.8%	1.3%	1.7 70	19.2%	6.8%	0.0%	0.0%	1.3%	2.0%	1.9%
1		1.5%	2.4%		4.9%	2.1%	0.7%	1.4%	2.7%	2.7%	2.7%
27		1.1%	1.7%		0.7%	4.2%	1.4%	1.4%	1.4%	1.4%	2.7%
25		0.8%	2.0%		0.7%	2.1%	2.1%	2.1%	2.1%	2.0%	2.0%
7		0.7%	1.1%		1.6%	1.5%	1.2%	0.8%	1.1%	1.2%	1.2%
4		0.6%	0.7%		1.3%	1.5%	1.4%	0.9%	1.1%	0.8%	0.1%
20		0.6%	1.4%		1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%
17		0.6%	1.5%		1.2%	1.1%	1.8%	1.0%	2.1%	1.4%	1.6%
9		0.4%	1.4%		0.9%	1.1%	1.4%	1.3%	1.4%	1.5%	1.5%
15		0.4%	1.3%		1.0%	1.0%	1.3%	1.4%	1.5%	1.2%	1.2%
5		0.4%	0.8%		1.3%	0.9%	0.9%	0.8%	0.8%	0.8%	0.8%
3		0.3%	0.4%		0.2%	1.6%	1.2%	-1.8%	1.2%	1.2%	1.2%
11		0.2%	1.6%		0.0%	1.2%	1.3%	1.8%	1.7%	1.5%	1.4%
18		0.2%	0.4%		1.9%	0.4%	0.0%	-0.3%	0.3%	0.3%	1.1%
26		0.1%	0.8%		0.7%	0.7%	0.7%	0.7%	0.8%	0.8%	0.8%
10		0.1%	0.7%		1.2%	0.7%	0.2%	0.0%	0.6%	0.6%	1.4%
14		0.1%	0.7%		1.2%	0.7%	0.2%	0.0%	0.6%	0.6%	1.4%
8		0.1%	0.7%		1.2%	0.7%	0.2%	0.0%	0.6%	0.6%	1.4%
2		0.1%	2.5%		0.3%	-0.2%	1.9%	5.1%	3.0%	0.3%	1.8%
19		0.0%	0.8%		0.7%	1.4%	-0.4%	-0.3%	1.0%	1.8%	0.7%
22		0.0%	0.2%		0.6%	0.4%	0.5%	0.4%	0.4%	0.1%	0.0%
13		0.0%	0.8%		0.5%	0.6%	0.5%	0.6%	0.8%	0.8%	0.9%
12		-0.1%	0.9%		0.1%	1.2%	0.2%	0.8%	0.9%	1.2%	0.7%
23		-0.1%	1.2%		0.6%	0.4%	0.5%	1.2%	1.8%	0.9%	1.0%
21		-0.2%	1.0%		-0.9%	0.4%	1.7%	2.0%	0.6%	1.1%	0.3%
16		-3.8%	0.6%								
MEDIAN		0.2%	0.9%		0.9%	1.1%	0.9%	0.8%	1.1%	1.2%	1.2%
MEAN		0.4%	1.1%		1.7%	1.3%	0.9%	0.9%	1.2%	1.1%	1.2%
STD DEV		1.4%	0.6%		3.7%	1.4%	0.7%	1.2%	0.7%	0.6%	0.7%
HIGH		5.8%	2.5%		19.2%	6.8%	2.1%	5.1%	3.0%	2.7%	2.7%
LOW		-3.8%	0.2%		-0.9%	-0.2%	-0.4%	-1.8%	0.3%	0.1%	0.0%

Table 12 - Industrial Production

	Q4	over Q4									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	0.40/			4.40/							
6	-0.1%	0.40/	2.60/	1.4%	26.60/	2.70/	2.70/	2.60/	2.60/	2.60/	2 50/
6		8.4%	3.6%		26.6%	3.7%	3.7%	3.6%	3.6%	3.6%	3.5%
20		3.1%	-1.2%		6.3%	3.1%	1.5%	0.0%	-1.1%	-1.5%	-2.2%
12		3.0%	2.6%		6.2%	2.3%	2.3%	2.3%	2.4%	2.8%	2.8%
4		2.8%	2.9%		4.4%	2.9%	2.4%	3.0%	2.7%	3.0%	2.8%
5		2.6%	1.7%		3.4%	3.3%	2.5%	2.0%	1.7%	1.6%	1.5%
8		2.4%	2.5%		4.1%	1.8%	2.2%	2.4%	2.6%	2.6%	2.4%
10		2.4%	2.5%		4.1%	1.8%	2.2%	2.0%	2.7%	2.5%	2.7%
9		2.3%	2.1%		3.1%	2.3%	2.3%	1.9%	2.3%	2.3%	1.9%
11		2.3%	2.3%		3.1%	2.3%	2.3%	2.3%	2.3%	2.3%	2.3%
14		2.2%	2.4%		3.7%	1.5%	2.1%	2.2%	2.6%	2.5%	2.3%
23		2.0%	2.9%		3.4%	2.0%	1.3%	3.0%	3.0%	3.2%	2.5%
2		1.9%	1.5%		2.1%	2.3%	1.7%	1.7%	1.8%	1.2%	1.3%
15		1.7%	0.9%		5.1%	-0.8%	1.1%	0.8%	0.0%	1.5%	1.1%
21		1.6%	1.8%		1.4%	1.7%	1.8%	1.9%	1.9%	1.8%	1.6%
3		1.6%	2.0%		1.6%	1.7%	1.7%	2.2%	1.7%	1.9%	2.1%
17		1.4%	1.1%		1.2%	0.8%	2.3%	1.5%	1.1%	1.1%	0.8%
25		1.4%	0.8%		0.8%	2.3%	1.2%	1.1%	1.1%	0.4%	0.4%
7		1.4%	2.0%		1.6%	1.2%	1.4%	1.9%	1.7%	2.0%	2.3%
1		1.2%	-0.3%		3.1%	0.0%	0.4%	0.8%	-0.8%	-0.4%	-0.8%
26		1.1%	1.9%		0.4%	0.4%	2.3%	1.5%	1.5%	2.3%	2.3%
22		1.0%	0.6%		0.5%	1.1%	0.9%	0.2%	-0.4%	0.8%	2.0%
16		0.8%	1.5%								
18		0.8%	0.9%		0.4%	1.0%	0.5%	0.9%	1.8%	0.6%	0.3%
13		0.7%	1.2%		1.2%	0.4%	0.0%	0.8%	2.7%	0.8%	0.8%
19		0.7%	-0.4%		1.6%	0.8%	-0.8%	-2.3%	0.4%	0.8%	-0.4%
27		0.4%	0.0%		0.3%	0.1%	-0.4%	0.0%	0.0%	0.0%	0.0%
MEDIAN		1.6%	1.7%		3.1%	1.7%	1.7%	1.9%	1.8%	1.8%	1.9%
MEAN		2.0%	1.5%		3.6%	1.6%	1.6%	1.5%	1.6%	1.6%	1.4%
STD DEV		1.5%	1.1%		5.0%	1.1%	1.0%	1.2%	1.2%	1.2%	1.3%
HIGH		8.4%	3.6%		26.6%	3.7%	3.7%	3.6%	3.6%	3.6%	3.5%
LOW		0.4%	-1.2%		0.3%	-0.8%	-0.8%	-2.3%	-1.1%	-1.5%	-2.2%

Table 13 - Car and Light Truck Sales (millions)

Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	17.5			17.2							
6		20.8	24.3		21.0	22.0	23.0	24.0	24.2	24.4	24.7
26		17.5	17.7		17.5	17.6	17.8	17.5	17.7	17.7	17.8
17		17.4	17.0		17.3	17.4	17.6	16.7	16.8	17.0	17.4
4		17.3	17.5		17.3	17.4	17.5	17.5	17.5	17.5	17.5
24		17.3	16.9		17.4	17.4	17.1	16.8	16.5	17.0	17.2
2		17.2	16.8		17.2	17.3	17.2	17.0	16.9	16.7	16.7
1		17.2	16.9		17.0	16.9	17.8	17.4	17.0	16.8	16.5
21		17.2	17.1		17.4	17.2	17.0	17.0	17.0	17.1	17.1
8		17.2	17.0		17.1	17.3	17.2	17.1	17.1	17.0	16.9
7		17.2	17.1		17.1	17.2	17.2	17.2	17.1	17.1	17.1
18		17.1	17.0		16.8	17.3	17.3	17.1	17.0	16.9	16.9
3		17.1	17.2		17.0	17.2	17.1	17.2	17.2	17.2	17.2
5		17.1	17.0		17.1	17.0	17.0	17.0	17.0	17.0	17.0
13		17.1	16.5		17.1	16.9	17.1	16.7	16.7	16.5	16.2
9		17.0	16.9		17.0	17.0	16.9	16.9	16.9	16.9	16.9
11		17.0	16.9		17.0	17.0	16.9	16.9	16.9	16.9	16.8
19		17.0	16.3		16.9	17.2	16.8	16.5	16.2	16.2	16.1
20		17.0	16.5		17.1	17.0	16.8	16.7	16.5	16.4	16.3
25		17.0	16.8		17.0	17.0	16.8	16.8	16.8	16.8	16.8
15		16.9	16.9		16.8	16.9	16.8	17.0	17.1	16.8	16.6
22		16.8	16.7		16.7	16.7	16.7	16.7	16.7	16.7	16.7
12		16.7	16.2		16.7	16.6	16.4	16.0	16.2	16.3	16.3
23		16.6	16.3		16.8	16.6	16.0	16.2	16.2	16.4	16.3
MEDIAN		17.1	16.9		17.1	17.2	17.1	17.0	16.9	16.9	16.9
MEAN		17.1	17.2		17.1	17.2	17.1	17.0	17.2	17.2	17.2
STD DEV		0.8	1.6		0.8	1.0	1.3	1.5	1.5	1.6	1.7
HIGH		20.8	24.3		21.0	22.0	23.0	24.0	24.2	24.4	24.7
LOW		16.6	16.2		16.7	16.6	16.0	16.0	16.2	16.2	16.1
2011		10.0	10.2		10.7	10.0	10.0	10.0	10.2	10.2	10.1

Table 14 - Housing Starts (millions)

Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	1.18			1.25							
12		1.33	1.42		1.36	1.32	1.39	1.37	1.45	1.41	1.45
8		1.31	1.47		1.29	1.32	1.36	1.41	1.45	1.49	1.53
14		1.30	1.47		1.29	1.32	1.36	1.40	1.45	1.49	1.53
10		1.30	1.46		1.29	1.31	1.35	1.41	1.44	1.48	1.52
2		1.30	1.49		1.25	1.30	1.40	1.45	1.48	1.52	1.50
17		1.30	1.29		1.33	1.35	1.26	1.24	1.34	1.31	1.26
13		1.29	1.33		1.27	1.30	1.32	1.35	1.35	1.33	1.30
7		1.27	1.34		1.25	1.28	1.31	1.32	1.33	1.34	1.35
4		1.27	1.35		1.25	1.28	1.30	1.32	1.34	1.36	1.38
3		1.26	1.33		1.23	1.27	1.30	1.31	1.32	1.33	1.34
21		1.26	1.32		1.25	1.27	1.28	1.30	1.32	1.33	1.35
25		1.26	1.30		1.25	1.30	1.25	1.30	1.30	1.30	1.30
1		1.26	1.21		1.22	1.26	1.30	1.25	1.22	1.15	1.20
5		1.26	1.27		1.25	1.26	1.26	1.27	1.27	1.27	1.27
11		1.26	1.34		1.24	1.26	1.27	1.30	1.34	1.35	1.36
18		1.25	1.30		1.25	1.25	1.27	1.29	1.29	1.30	1.32
9		1.25	1.33		1.24	1.25	1.27	1.30	1.33	1.34	1.35
22		1.25	1.29		1.25	1.25	1.25	1.29	1.29	1.29	1.29
20		1.24	1.25		1.24	1.24	1.24	1.24	1.24	1.26	1.27
26		1.24	1.38		1.21	1.22	1.26	1.30	1.35	1.40	1.45
19		1.23	1.24		1.24	1.20	1.25	1.27	1.24	1.21	1.25
15		1.22	1.28		1.19	1.21	1.24	1.26	1.29	1.28	1.29
6		1.21	1.32		1.10	1.20	1.30	1.30	1.30	1.32	1.35
23		1.21	1.21		1.23	1.19	1.15	1.17	1.20	1.24	1.23
MEDIAN		1.26	1.32		1.25	1.26	1.28	1.30	1.32	1.33	1.34
MEAN		1.26	1.33		1.25	1.27	1.29	1.31	1.33	1.34	1.35
STD DEV		0.03	0.08		0.05	0.04	0.05	0.06	0.07	0.09	0.10
HIGH		1.33	1.49		1.36	1.35	1.40	1.45	1.48	1.52	1.53
LOW		1.21	1.21		1.10	1.19	1.15	1.17	1.20	1.15	1.20
<u> </u>											

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

	C	Q4 value									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	#40.00			Ф Г 4 ОО							
18	\$49.20	\$55.04	\$54.30	\$51.83	\$54.37	\$54.95	\$55.04	\$54.96	\$54.80	\$54.54	\$54.30
		\$55.00	\$55.00		\$51.00	\$53.00	\$55.00	\$55.00	\$55.00	\$55.00	\$55.00
26		\$55.00 \$54.79									
2			\$58.30		\$50.00	\$53.87	\$54.79	\$55.72	\$56.55	\$57.34	\$58.30
9 17		\$54.00	\$55.00		\$49.75	\$52.00	\$54.00	\$55.00	\$56.00	\$57.00	\$55.00
		\$53.34	\$54.85		\$49.76	\$51.02	\$53.34	\$54.49	\$54.97	\$55.03	\$54.85
13		\$53.30	\$59.00		\$49.00	\$51.60	\$53.30	\$54.00	\$54.40	\$57.50	\$59.00
11		\$53.00	\$54.00		\$52.00	\$56.00	\$53.00	\$54.00	\$56.00	\$57.00	\$54.00
14		\$53.00	\$56.00		\$52.00	\$53.00	\$53.00	\$54.00	\$55.00	\$55.00	\$56.00
16		\$52.47	\$50.05		450 30	05400	\$52.47	0.10.10	# 54.00	0 == 40	\$50.05
21		\$52.30	\$54.10		\$53.70	\$54.80	\$52.30	\$48.40	\$51.90	\$55.10	\$54.10
3		\$52.25	\$53.19		\$50.75	\$52.75	\$52.25	\$50.37	\$50.37	\$52.25	\$53.19
25		\$52.00	\$47.00		\$53.00	\$55.00	\$52.00	\$49.00	\$52.00	\$49.00	\$47.00
27		\$52.00	\$63.00		\$50.00	\$50.00	\$52.00	\$54.00	\$56.00	\$58.00	\$63.00
10		\$51.17	\$51.89		\$50.67	\$50.56	\$51.17	\$51.48	\$51.71	\$51.89	\$51.89
5		\$51.00	\$54.00		\$51.00	\$51.00	\$51.00	\$51.00	\$51.00	\$51.00	\$54.00
6		\$51.00	\$52.70		\$50.50	\$50.75	\$51.00	\$51.00	\$51.50	\$52.00	\$52.70
12		\$51.00	\$55.00		\$49.00	\$50.00	\$51.00	\$51.00	\$53.00	\$53.00	\$55.00
8		\$50.29	\$50.20		\$49.80	\$49.68	\$50.29	\$50.62	\$50.61	\$50.34	\$50.20
22		\$50.25	\$52.00		\$49.86	\$50.00	\$50.25	\$50.50	\$51.00	\$51.50	\$52.00
15		\$50.00	\$45.00		\$50.00	\$50.00	\$50.00	\$48.00	\$48.00	\$45.00	\$45.00
20		\$49.93	\$53.47		\$50.08	\$53.88	\$49.93	\$51.22	\$57.62	\$56.10	\$53.47
7		\$49.75	\$52.75		\$48.87	\$49.00	\$49.75	\$50.50	\$51.25	\$52.00	\$52.75
4		\$49.14	\$49.50		\$50.10	\$48.43	\$49.14	\$49.61	\$49.57	\$49.40	\$49.50
1		\$46.00	\$54.00		\$44.00	\$42.00	\$46.00	\$48.00	\$50.00	\$52.00	\$54.00
23		\$45.40	\$64.39		\$53.80	\$52.50	\$45.40	\$48.90	\$55.70	\$60.30	\$64.39
19		\$45.25	\$51.00		\$49.78	\$53.25	\$45.25	\$47.00	\$50.00	\$50.00	\$51.00
MEDIAN		\$51.59	\$54.00		\$50.08	\$51.60	\$51.59	\$51.00	\$52.00	\$53.00	\$54.00
MEAN		\$51.26	\$53.83		\$50.51	\$51.56	\$51.26	\$51.51	\$52.96	\$53.49	\$53.83
STD DEV		\$2.62	\$4.12		\$2.00	\$2.81	\$2.62	\$2.56	\$2.61	\$3.42	\$4.12
HIGH		\$55.04	\$64.39		\$54.37	\$56.00	\$55.04	\$55.72	\$57.62	\$60.30	\$64.39
LOW		\$45.25	\$45.00		\$44.00	\$42.00	\$45.25	\$47.00	\$48.00	\$45.00	\$45.00

Table 16 - Unemployment Rate

	Q	4 value									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	4.7%			4.7%							
23	4.770	5.0%	5.0%	4.770	4.8%	5.0%	5.0%	5.1%	5.0%	5.0%	5.0%
27		4.9%	5.4%		4.7%	4.8%	4.9%	5.1%	5.3%	5.4%	5.4%
25		4.8%	5.4%		4.7 % 4.5%	4.0 % 4.7%	4.9%	4.9%	5.0%	5.4%	5.4%
13		4.0 %	4.6%		4.5%	4.7%	4.7%	4.9%	4.7%	4.6%	4.6%
16		4.7%	4.0%		4.7 /0	4.7 /0	4.7%	4.7 /0	4.7 /0	4.0 /	4.0%
21		4.7 %	4.9 <i>%</i> 4.7%		4.6%	4.6%	4.7 %	4.6%	4.6%	4.7%	4.9%
18		4.5%	4.7 %		4.0%	4.6%	4.5%	4.5%	4.5%	4.7 %	4.7 %
6		4.5%	4.5%		4.7 %	4.0%	4.5%	4.7%	4.7%	4.5%	4.5%
20		4.5%	4.5 % 5.2%		4.5% 4.5%	4.5%	4.5% 4.5%	4.7 %	4.7 %	4.5 <i>%</i> 5.0%	5.2%
22		4.5%	4.5%		4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%
3		4.5%	4.5%		4.5%	4.5%	4.5%	4.3%	4.3%	4.3%	4.5%
5 5		4.4% 4.4%	4.2%		4.6% 4.5%	4.5% 4.4%	4.4% 4.4%	4.3% 4.4%	4.3% 4.4%	4.2%	4.2%
9		4.4%	4.3%		4.5%	4.4%	4.4%	4.4%	4.4%	4.3%	4.3%
11		4.4%			4.5%	4.4%	4.4%			4.3%	4.2%
17		4.4% 4.4%	4.2% 4.4%		4.4% 4.5%	4.4% 4.5%	4.4% 4.4%	4.3%	4.3%		
17								4.4%	4.4%	4.5%	4.4%
		4.4%	4.6%		4.5%	4.3%	4.4%	4.5%	4.6%	4.6%	4.6%
26		4.4%	4.4%		4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%
4		4.4%	4.0%		4.5%	4.4%	4.4%	4.3%	4.2%	4.1%	4.0%
14		4.4%	4.2%		4.5%	4.4%	4.4%	4.3%	4.3%	4.2%	4.2%
7		4.3%	4.2%		4.4%	4.4%	4.3%	4.3%	4.3%	4.2%	4.2%
1		4.3%	4.7%		4.4%	4.4%	4.3%	4.4%	4.5%	4.6%	4.7%
12		4.3%	4.4%		4.4%	4.4%	4.3%	4.2%	4.3%	4.4%	4.4%
2		4.3%	4.3%		4.5%	4.4%	4.3%	4.3%	4.3%	4.3%	4.3%
10		4.3%	4.1%		4.5%	4.4%	4.3%	4.3%	4.2%	4.2%	4.1%
8		4.3%	4.0%		4.5%	4.4%	4.3%	4.2%	4.2%	4.1%	4.0%
15		4.2%	3.6%		4.5%	4.4%	4.2%	4.1%	3.9%	3.7%	3.6%
MEDIAN		4.4%	4.4%		4.5%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%
MEAN		4.5%	4.5%		4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%
STD DEV		0.2%	0.4%		0.1%	0.2%	0.2%	0.3%	0.3%	0.3%	0.4%
HIGH		5.0%	5.4%		4.8%	5.0%	5.0%	5.2%	5.3%	5.4%	5.4%
LOW		4.2%	3.6%		4.4%	4.3%	4.2%	4.1%	3.9%	3.7%	3.6%

Table 17 - Consumer Price Index Inflation Rate

	Q4	over Q4									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	1.8%			3.1%							
21	1.0 /0	3.3%	3.8%	J. 1 /0	3.2%	3.4%	3.6%	3.7%	3.8%	3.8%	3.8%
27		3.1%	3.2%		3.1%	3.1%	3.1%	3.1%	3.2%	3.3%	3.4%
1		3.1%	2.9%		3.2%	3.1%	3.0%	3.1%	3.0%	2.9%	2.8%
17		3.0%	2.5%		2.9%	3.2%	2.7%	2.6%	2.4%	2.5%	2.5%
26		3.0%	2.9%		2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%
13		2.9%	2.7%		2.7%	2.8%	2.8%	2.7%	2.7%	2.7%	2.8%
19		2.8%	2.3%		2.7%	2.5%	2.9%	2.5%	2.2%	2.5%	2.2%
5		2.8%	3.0%		2.5%	2.8%	2.8%	2.8%	2.9%	2.9%	3.4%
15		2.7%	2.4%		2.7%	2.7%	2.4%	2.4%	2.4%	2.5%	2.5%
25		2.7%	2.5%		2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
20		2.6%	2.3%		2.6%	2.3%	2.3%	2.3%	2.3%	2.3%	2.3%
2		2.5%	2.7%		2.4%	2.2%	2.2%	2.4%	2.6%	2.8%	3.0%
23		2.3%	2.3%		1.9%	2.5%	1.9%	1.4%	2.5%	3.0%	2.5%
9		2.3%	2.3%		1.6%	2.2%	2.3%	2.4%	2.2%	2.2%	2.3%
12		2.3%	2.0%		3.1%	1.3%	1.7%	1.9%	2.1%	1.9%	2.0%
18		2.3%	2.0%		1.3%	2.3%	2.2%	2.1%	1.9%	1.9%	2.0%
22		2.2%	2.1%		1.6%	2.1%	2.1%	2.5%	2.3%	2.0%	1.8%
11		2.2%	2.3%		0.9%	2.1%	2.5%	2.4%	2.4%	2.2%	2.2%
3		2.1%	1.9%		4.2%	1.7%	-0.5%	1.6%	4.5%	1.8%	-0.1%
4		2.1%	1.8%		0.7%	2.8%	1.9%	1.3%	1.6%	2.1%	2.0%
7		2.1%	2.0%		1.6%	1.8%	1.8%	1.9%	2.0%	2.0%	2.1%
8		1.9%	1.9%		0.3%	1.8%	2.3%	2.1%	1.9%	1.8%	2.0%
14		1.9%	1.9%		0.3%	1.8%	2.3%	2.1%	1.8%	1.8%	1.9%
10		1.9%	1.9%		0.3%	1.8%	2.3%	2.1%	1.8%	1.8%	1.9%
6		0.9%	0.2%		0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
MEDIAN		2.3%	2.3%		2.5%	2.3%	2.3%	2.4%	2.4%	2.3%	2.3%
MEAN		2.4%	2.3%		2.1%	2.3%	2.2%	2.3%	2.4%	2.3%	2.3%
STD DEV		0.5%	0.6%		1.1%	0.7%	0.8%	0.7%	0.8%	0.7%	0.8%
HIGH		3.3%	3.8%		4.2%	3.4%	3.6%	3.7%	4.5%	3.8%	3.8%
LOW		0.9%	0.2%		0.2%	0.2%	-0.5%	0.2%	0.2%	0.2%	-0.1%

Table 18 - Treasury Constant Maturity - One-year Rate

	Q T V C	ılue									
Individual	2016 2	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	0.76%			0.89%							
9		70%	2.00%	0.09 /6	1.14%	1.45%	1.70%	1.75%	1.80%	1.95%	2.00%
8		70%	2.69%		1.13%	1.40%	1.70%	1.93%	2.21%	2.46%	2.69%
12		63%	2.09%		1.17%	1.46%	1.63%	1.69%	1.93%	2.04%	2.09%
19		59%	1.85%		0.95%	1.21%	1.59%	1.65%	1.70%	1.75%	1.85%
11		56%	2.18%		1.19%	1.45%	1.56%	1.60%	1.66%	1.92%	2.18%
22		56%	2.10%		1.21%	1.48%	1.56%	1.76%	1.82%	2.00%	2.26%
5		55%	2.25%		1.10%	1.30%	1.55%	1.80%	1.95%	2.10%	2.25%
14		53%	2.25%		1.10%	1.31%	1.53%	1.73%	1.95%	2.10%	2.39%
15		50%	1.60%		1.12%	1.25%	1.50%	1.75%	1.60%	1.60%	1.60%
4		49%	1.89%		1.11%	1.25%	1.49%	1.53%	1.57%	1.73%	1.89%
17		49% 44%	2.14%								2.14%
17 25		39%			1.10% 0.89%	1.29%	1.44%	1.60%	1.78%	1.95%	
23		39% 37%	1.89%			1.14%	1.39%	1.39%	1.64% 1.87%	1.64%	1.89%
			2.12%		1.18%	1.38%	1.37%	1.45%		2.12%	2.12%
13		37%	1.85%		1.13%	1.22%	1.37%	1.61%	1.92%	1.89%	1.85%
1		25%	1.60%		1.00%	1.00%	1.25%	1.25%	1.50%	1.55%	1.60%
21		17%	1.68%		0.95%	1.06%	1.17%	1.29%	1.41%	1.54%	1.68%
2		12%	2.00%		1.00%	1.01%	1.12%	1.25%	1.55%	1.80%	2.00%
20		11%	1.45%		0.94%	1.02%	1.11%	1.19%	1.28%	1.36%	1.45%
16		95%	1.01%		0.000/	0.040/	0.95%	0.000/	0.040/	0.000/	1.01%
27		92%	0.98%		0.89%	0.91%	0.92%	0.93%	0.94%	0.96%	0.98%
26		90%	0.95%		0.90%	0.90%	0.90%	0.95%	0.95%	0.95%	0.95%
6	0.5	50%	0.09%		0.46%	0.48%	0.50%	0.06%	0.07%	0.08%	0.09%
MEDIAN MEAN		42% 33%	1.89% 1.77%		1.10% 1.03%	1.25% 1.20%	1.42% 1.33%	1.55% 1.43%	1.66% 1.58%	1.80% 1.69%	1.89% 1.77%
STD DEV		30%	0.57%		0.16%	0.24%	0.30%	0.40%	0.46%	0.51%	0.57%
HIGH		70%	2.69%		1.21%	1.48%	1.70%	1.93%	2.21%	2.46%	2.69%
LOW		50%	0.09%		0.46%	0.48%	0.50%	0.06%	0.07%	0.08%	0.09%

Table 19 - Treasury Constant Maturity - Ten-year Rate

	G	Q4 value									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	0.400/			0.4407							
00	2.13%	0.050/	0.000/	2.44%	0.000/	0.470/	2.050/	2 200/	2 540/	2.700/	2.000/
23		3.65%	3.82%		2.82%	3.17%	3.65%	3.29%	3.51%	3.70%	3.82%
2		3.00%	3.95%		2.49%	2.79%	3.00%	3.21%	3.51%	3.74%	3.95%
22		3.00%	3.50%		2.40%	2.80%	3.00%	3.20%	3.30%	3.40%	3.50%
25		3.00%	3.50%		2.44%	2.75%	3.00%	3.00%	3.25%	3.25%	3.50%
21		2.90%	3.93%		2.58%	2.71%	2.90%	3.16%	3.36%	3.67%	3.93%
17		2.88%	3.19%		2.68%	2.79%	2.88%	2.93%	2.98%	3.05%	3.19%
5		2.87%	3.75%		2.42%	2.62%	2.87%	3.14%	3.34%	3.55%	3.75%
18		2.85%	3.40%		2.65%	2.80%	2.85%	3.10%	3.20%	3.30%	3.40%
9		2.75%	2.90%		2.40%	2.55%	2.75%	2.77%	2.80%	2.85%	2.90%
11		2.75%	2.94%		2.55%	2.72%	2.75%	2.76%	2.78%	2.86%	2.94%
4		2.73%	3.38%		2.35%	2.56%	2.73%	2.95%	3.04%	3.24%	3.38%
19		2.71%	2.90%		2.56%	2.62%	2.71%	2.75%	2.80%	2.85%	2.90%
3		2.70%	3.25%		2.36%	2.52%	2.70%	2.90%	3.03%	3.14%	3.25%
1		2.70%	2.40%		2.30%	2.60%	2.70%	2.60%	2.50%	2.45%	2.40%
8		2.64%	3.21%		2.34%	2.45%	2.64%	2.81%	2.95%	3.09%	3.21%
12		2.61%	2.54%		2.37%	2.49%	2.61%	2.44%	2.53%	2.49%	2.54%
7		2.60%	3.22%		2.36%	2.41%	2.60%	2.81%	2.98%	3.12%	3.22%
10		2.60%	3.00%		2.50%	2.55%	2.60%	2.70%	2.80%	2.90%	3.00%
13		2.60%	3.10%		2.35%	2.43%	2.60%	2.88%	2.95%	3.10%	3.10%
14		2.59%	3.13%		2.34%	2.42%	2.59%	2.75%	2.89%	3.02%	3.13%
16		2.53%	2.60%				2.53%				2.60%
6		2.50%	3.00%		2.42%	2.49%	2.50%	2.60%	2.65%	2.75%	3.00%
27		2.46%	2.55%		2.44%	2.45%	2.46%	2.48%	2.49%	2.50%	2.55%
26		2.45%	2.50%		2.45%	2.45%	2.45%	2.50%	2.50%	2.50%	2.50%
20		2.37%	2.71%		2.20%	2.28%	2.37%	2.45%	2.54%	2.62%	2.71%
15		2.35%	2.60%		2.25%	2.35%	2.35%	2.50%	2.50%	2.60%	2.60%
.0		2.0070	2.0070		2.2070	2.0070	2.0070	2.0070	2.0070	2.0070	2.0070
MEDIAN		2.70%	3.11%		2.42%	2.55%	2.70%	2.81%	2.95%	3.05%	3.11%
MEAN		2.72%	3.11%		2.44%	2.59%	2.72%	2.83%	2.93%	3.03%	3.11%
STD DEV		0.26%	0.44%		0.14%	0.19%	0.26%	0.25%	0.32%	0.38%	0.44%
HIGH		3.65%	3.95%		2.82%	3.17%	3.65%	3.29%	3.51%	3.74%	3.95%
LOW		2.35%	2.40%		2.20%	2.28%	2.35%	2.44%	2.49%	2.45%	2.40%
-											

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

	Q4	over Q4									
Individual	2016	2017	2018	Q117	Q217	Q317	Q417	Q118	Q218	Q318	Q418
	3.7%			0.8%							
23		8.5%	-6.6%		1.3%	5.1%	1.1%	-2.4%	-1.9%	-1.4%	-1.0%
21		6.5%	6.9%		2.0%	2.0%	1.6%	1.4%	1.6%	1.6%	2.1%
17		4.7%	4.8%		3.0%	1.2%	-0.3%	0.7%	2.4%	1.3%	0.3%
2		4.3%	8.8%		1.0%	2.0%	0.5%	2.0%	2.5%	2.0%	2.0%
19		4.0%	4.9%		1.2%	2.5%	-0.5%	2.1%	0.7%	1.0%	1.0%
26		3.5%	3.6%		0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%
27		3.3%	4.1%		0.9%	0.6%	1.0%	1.0%	1.0%	1.0%	1.0%
13		3.1%	3.5%		0.9%	0.7%	0.7%	0.9%	0.9%	0.9%	0.8%
15		2.4%	3.0%		0.4%	0.5%	0.7%	0.9%	1.1%	0.5%	0.5%
4		2.1%	0.0%		-1.1%	1.2%	1.3%	0.8%	0.0%	-0.5%	-0.3%
3		-0.9%	0.2%		-1.5%	-0.2%	0.0%	0.0%	0.1%	0.0%	0.0%
22		-1.4%	-0.6%		-1.2%	-0.5%	-0.5%	-0.4%	-0.2%	-0.1%	0.0%
5		-6.1%	0.0%		-6.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

MEDIAN	3.3%	3.5%	0.9%	0.9%	0.7%	0.9%	0.9%	0.9%	0.5%
MEAN	2.6%	2.5%	0.1%	1.2%	0.5%	0.6%	0.7%	0.6%	0.6%
STD DEV	3.6%	3.8%	2.3%	1.4%	0.7%	1.1%	1.1%	0.9%	0.8%
HIGH	8.5%	8.8%	3.0%	5.1%	1.6%	2.1%	2.5%	2.0%	2.1%
LOW	-6.1%	-6.6%	-6.9%	-0.5%	-0.5%	-2.4%	-1.9%	-1.4%	-1.0%

Table 21a - Individual Forecasts for 2017

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	Net exports	Government consumption expenditures and gross investment
marriada	dollaro	Onain typo	donaro	охронакагоо	invocation	mivodinion.	mvontonoo	охроно	grood invocations
1	2.5%	-0.3%	2.8%	2.2%	5.1%	8.2%	\$55.0	-\$610.0	1.5%
2	4.2%	1.6%	2.6%	2.3%	4.7%	9.1%	\$58.1	-\$689.9	0.1%
3	4.5%	2.0%	2.5%	2.4%	5.2%	6.1%	\$48.5	-\$620.9	0.3%
4	4.6%	2.0%	2.4%	2.2%	6.2%	6.3%	\$18.2	-\$624.9	0.6%
5	4.4%	2.1%	2.3%	1.7%	7.0%	10.3%	\$60.1	-\$647.0	0.4%
6	1.2%	1.9%	2.3%	2.4%	5.8%	0.2%	\$21.0	-\$580.0	5.8%
7	4.3%	1.9%	2.3%	2.2%	4.2%	7.1%	\$42.5	-\$619.9	0.7%
8	3.9%	1.6%	2.3%	2.3%	5.9%	6.5%	\$48.1	-\$662.4	0.1%
9	4.3%	2.0%	2.2%	2.0%	5.7%	8.3%	\$42.0	-\$635.0	0.4%
10	3.9%	1.6%	2.2%	2.2%	5.8%	6.1%	\$47.7	-\$654.0	0.1%
11	4.0%	1.7%	2.2%	2.0%	6.0%	8.5%	\$50.0	-\$633.2	0.2%
12	4.3%	2.0%	2.2%	2.0%	6.2%	8.9%	\$55.1	-\$669.9	-0.1%
13	3.9%	2.1%	2.1%	2.3%	5.5%	6.4%	\$50.0	-\$559.0	0.0%
14	3.8%	1.6%	2.1%	2.1%	5.5%	6.3%	\$43.5	-\$653.3	0.1%
15	3.8%	2.5%	2.1%	1.7%	4.3%	0.6%	\$25.0	-\$548.9	0.4%
16	2.1%	0.1%	2.0%	2.5%	2.3%	2.5%	\$30.2	-\$635.7	-3.8%
17	3.9%	1.9%	2.0%	1.9%	5.2%	3.9%	\$18.0	-\$621.0	0.6%
18	2.5%	2.0%	1.9%	2.3%	4.5%	3.8%	\$54.2	-\$681.5	0.2%
19	4.2%	2.3%	1.9%	1.5%	2.4%	11.6%	\$65.0	-\$602.0	0.0%
20	4.1%	2.1%	1.9%	1.8%	5.6%	3.3%	\$40.0	-\$636.9	0.6%
21	4.0%	2.2%	1.8%	2.4%	4.7%	10.0%	\$5.2	-\$645.8	-0.2%
22	4.1%	2.3%	1.8%	1.9%	4.2%	5.6%	\$34.0	-\$641.5	0.0%
23	3.7%	2.1%	1.5%	1.7%	5.6%	2.4%	\$20.1	-\$644.6	-0.1%
24	3.7%	2.2%	1.4%						
25	2.5%	2.1%	1.3%	0.3%	4.9%	9.1%			0.8%
26	2.3%	1.4%	1.0%	1.0%	4.2%	5.7%	\$2.0	-\$590.0	0.1%
27	2.3%	0.8%	0.4%	0.9%	2.8%	3.3%	\$12.0	-\$580.0	1.1%
X1									
MEDIAN	3.9%	2.0%	2.1%	2.1%	5.2%	6.3%	\$42.5	-\$635.0	0.2%
MEAN	3.6%	1.8%	2.0%	1.9%	5.0%	6.2%	\$37.8	-\$627.5	0.4%
STD DEV	0.9%	0.6%	0.5%	0.5%	1.1%	2.9%	\$17.7	\$35.0	1.4%
HIGH	4.6%	2.5%	2.8%	2.5%	7.0%	11.6%	\$65.0	-\$548.9	5.8%
LOW	1.2%	-0.3%	0.4%	0.3%	2.3%	0.2%	\$2.0	-\$689.9	-3.8%

Table 21b - Individual Forecasts for 2017

Individual	Industrial	Car & light truck sales	Housing	Oil Price	Unemployment	Inflation rate	Treasury constant maturity	Treasury constant maturity	J.P. Morgan trade weighted OECD dollar
maividuai	production	truck sales	starts	Price	rate	(CPI)	one-year rate	ten-year rate	OECD dollar
1	1.2%	17.8	1.30	\$46.00	4.3%	3.1%	1.25%	2.70%	
2	1.9%	17.2	1.40	\$54.79	4.3%	2.5%	1.12%	3.00%	4.3%
3	1.6%	17.1	1.30	\$52.25	4.4%	2.1%		2.70%	-0.9%
4	2.8%	17.5	1.30	\$49.14	4.4%	2.1%	1.49%	2.73%	2.1%
5	2.6%	17.0	1.26	\$51.00	4.4%	2.8%	1.55%	2.87%	-6.1%
6	8.4%	23.0	1.30	\$51.00	4.5%	0.9%	0.50%	2.50%	
7	1.4%	17.2	1.31	\$49.75	4.3%	2.1%		2.60%	
8	2.4%	17.2	1.36	\$50.29	4.3%	1.9%	1.70%	2.64%	
9	2.3%	16.9	1.27	\$54.00	4.4%	2.3%	1.70%	2.75%	
10	2.4%		1.35	\$51.17	4.3%	1.9%		2.60%	
11	2.3%	16.9	1.27	\$53.00	4.4%	2.2%	1.56%	2.75%	
12	3.0%	16.4	1.39	\$51.00	4.3%	2.3%	1.63%	2.61%	
13	0.7%	17.1	1.32	\$53.30	4.7%	2.9%	1.37%	2.60%	3.1%
14	2.2%		1.36	\$53.00	4.4%	1.9%	1.53%	2.59%	
15	1.7%	16.8	1.24	\$50.00	4.2%	2.7%	1.50%	2.35%	2.4%
16	0.8%	17.5	1.31	\$52.47	4.7%		0.95%	2.53%	
17	1.4%	17.6	1.26	\$53.34	4.4%	3.0%	1.44%	2.88%	4.7%
18	0.8%	17.3	1.27	\$55.04	4.5%	2.3%		2.85%	
19	0.7%	16.8	1.25	\$45.25	4.4%	2.8%	1.59%	2.71%	4.0%
20	3.1%	16.8	1.24	\$49.93	4.5%	2.6%	1.11%	2.37%	
21	1.6%	17.0	1.28	\$52.30	4.6%	3.3%	1.17%	2.90%	6.5%
22	1.0%	16.7	1.25	\$50.25	4.5%	2.2%	1.56%	3.00%	-1.4%
23	2.0%	16.0	1.15	\$45.40	5.0%	2.3%	1.37%	3.65%	8.5%
24		17.1							
25	1.4%	16.8	1.25	\$52.00	4.8%	2.7%	1.39%	3.00%	
26	1.1%	17.8	1.26	\$55.00	4.4%	3.0%	0.90%	2.45%	3.5%
27	0.4%	17.2	1.10	\$52.00	4.9%	3.1%	0.92%	2.46%	3.3%
X1		17.4		·					
EDIAN	1.6%	17.1	1.28	\$51.59	4.4%	2.3%	1.42%	2.70%	3.3%
EAN	2.0%	17.3	1.28	\$51.26	4.5%	2.4%	1.33%	2.72%	2.6%
TD DEV	1.5%	1.2	0.06	\$2.62	0.2%	0.5%	0.30%	0.26%	3.6%
GH	8.4%	23.0	1.40	\$55.04	5.0%	3.3%	1.70%	3.65%	8.5%
OW	0.4%	16.0	1.40	\$45.25	4.2%	0.9%	0.50%	2.35%	-6.1%
J V V	U. 4 /0	10.0	1.10	φ45.25	4.4/0	0.370	0.5076	2.30/0	-0.1/0

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