

Mid-Year Update

Economic Forecast Revenues Through January Revised Forecast FY 2018-19 Preliminary Forecast FY 2019-20

January 29, 2019



Forecast: June 2018 vs Jan 2019

			Annual Growth or Change				
		2016	2017	2018	2019	2020	
Real GDP	Jun 2018	0.9%	1.8%	2.3%	2.2%		
	Jan 2019	1.2%	2.2%	2.2%	2.0%	1.9%	
Wages-Salaries	Jun 2018	1.3%	3.8%	4.3%	4.2%		
	Jan 2019	1.3%	4.0%	4.1%	4.0%	3.9%	
Philly CPI-U	Jun 2018	0.6%	1.3%	1.8%	2.2%		
	Jan 2019	0.6%	1.3%	1.5%	1.8%	2.0%	
Net Jobs (000s)	Jun 2018	50.0	62.9	62.5	57.1		
	Jan 2019	50.0	62.9	70.9	58.7	54.7	

Note: Real GDP and Wage data revised for 2016 and 2017.

Source: Historical data from U.S. Bureau of Economic Analysis and U.S. Bureau of Labor Statistics. Forecasts by IFO.



Annual Economic Trends

	2015	2016	2017	2018	2019
United States					
Real GDP	2.9%	1.6%	2.2%	2.9%	2.6%
Wages-Salaries	5.1%	2.9%	4.6%	4.4%	4.2%
Equipment Investment	2.5%	-2.5%	5.5%	7.3%	4.4%
Pennsylvania					
Real GDP	2.0%	1.2%	2.2%	2.2%	2.0%
Wages-Salaries	3.9%	1.5%	4.0%	4.1%	4.0%
Net Jobs (000s)	47.3	50.0	62.9	70.9	58.7
U.S. Financials					
Corporate Domestic Profits	-3.5%	-1.1%	2.3%	8.6%	7.7%
10 Year Note	2.14	1.84	2.33	2.93	3.31
S&P 500 Index	5.8%	2.0%	16.6%	12.2%	n.a.

Note: S&P 500 Index uses average values for entire year.

Source: U.S. Bureau of Economic Analysis, U.S. Bureau of Labor Statistics. U.S. forecasts by IHS Markit. PA forecasts by IFO.



Recent Quarterly Economic Trends

	2018.1	2018.2	2018.3	2018.4	2019.1
United States					
Real GDP	2.2%	4.2%	3.5%	2.5%	1.9%
Wages-Salaries	4.6%	4.5%	4.2%	4.3%	3.9%
Equipment Investment	9.5%	8.2%	6.6%	4.8%	3.5%
Pennsylvania					
Real GDP	0.6%	3.6%	3.0%	2.5%	
Wages-Salaries	4.1%	4.0%	3.4%	4.3%	
U.S. Financials					
Corporate Domestic Profits	5.7%	6.5%	11.8%	10.2%	11.9%
10 Year Note	2.76	2.92	2.93	3.11	2.75
S&P 500 Index (prior year)	11.8%	12.2%	17.7%	-6.2%	0.1%
S&P 500 Index (prior qtr)	-1.2%	2.9%	7.2%	-14.0%	5.5%

Notes: Real GDP growth rates are quarterly annualized rates. S&P 500 Index uses values from end of quarter. Value for 2019.1 is close for Jan. 28, 2019. Non-GDP growth rates are year-over-year. Source: U.S. forecasts from IHS Markit. Data from U.S. Bureau of Economic Analysis and Wall Street Journal.

IFO

Annual PA Employment Growth (000s)

	2015	2016	2017	2018
Mining-Logging	-3.8	-8.9	1.6	1.9
Construction	6.6	3.8	9.6	6.1
Manufacturing	0.1	-8.1	1.7	4.5
Wholesale-Retail	1.2	-3.8	-8.6	-8.9
Transport-Storage	11.2	9.5	8.0	8.5
Professional Services	17.9	13.9	8.7	11.9
Healthcare-Social Service	11.1	22.6	26.9	30.0
Leisure-Hospitality	7.9	12.4	8.6	10.8
State-Federal Gov't	0.2	1.0	-0.6	-0.3
Local Gov't	-6.7	-2.2	0.6	-1.0
All Other Sectors	<u>1.5</u>	<u>9.7</u>	<u>6.4</u>	<u>7.4</u>
Total Job Gains	47.3	50.0	62.9	70.9

Note: Figures represent change in average level for calendar year.

Source: U.S. Bureau of Labor Statistics. Figures for 2018 based on preliminary data through December.



Factors That Could Impact Growth

Maintain / Boost

- Strong labor market
- Solid income growth
- Stable interest rates
- Low/stable energy prices

Constrain / Reduce

- International slowdown
- Federal shut down (?)
- Federal tax cut / refunds
- Consumer sentiment
- Stock market volatility



FYTD Revenues Through January

	Actual R	evenues	IFO Estimate		Admin Es	timate
	Amount	Growth	Amount	\$ Diff	Amount	\$ Diff
General Fund	\$18,144	4.5%	\$17,835	\$310	\$17,865	\$279
Corp. Net Income	1,651	24.7	1,459	191	1,383	267
Sales - Non-Motor	5,758	8.1	5,599	158	5,617	141
Sales - Motor Veh.	873	9.2	825	48	813	61
PIT - Withholding	6,041	3.3	6,076	-35	6,126	-85
PIT - Other	1,317	-9.5	1,489	-172	1,591	-274
Cigarette	660	-6.2	660	0	665	-4
Inheritance	594	6.5	593	1	605	-11
Gaming Expansion	148	n.a.	86	62	n.a.	n.a.
All Other	1,101	-12.7	1,047	55	1,065	185

Note: Millions of dollars. Tax revenues up 5.7% from prior fiscal year.



Growth Rate Comparison Thru January

	Projected	Actual
General Fund	2.7%	4.5%
Corporate Net Income	10.3%	24.7%
Sales - Non-Motor	5.1%	8.1%
Sales - Motor Vehicle	4.1%	10.2%
PIT - Withholding	3.9%	3.3%
PIT - Other	2.2%	-9.6%
Cigarette	-6.3%	-6.2%
Inheritance	6.3%	6.5%
Gaming Expansion	n.a.	n.a.
All Other	-17.0%	-12.1%

IFO

Update for FY 2018-19

	IFO Official	Mid-Year Update		
	Estimate	Amount	\$ Change	Growth
General Fund	\$33,899	\$34,272	\$373	-0.9%
Corporate Net Income	3,075	3,280	206	13.9
Sales - Non-Motor	9,324	9,562	239	6.4
Sales - Motor Vehicle	1,427	1,497	69	7.4
PIT - Withholding	10,450	10,424	-26	3.9
PIT - Other	3,530	3,282	-248	-2.4
Cigarette	1,136	1,138	2	-5.0
Inheritance	1,046	1,046	0	2.6
Gaming Expansion	86	201	114	56.0
All Other	3,826	3,843	17	-30.9

Note: Millions of dollars. The IFO Official Estimate was \$76 million lower than the Administration. Growth rate for tax revenues is 4.6%.

Personal Income Tax Trends

Withholding for CY 2018 close to forecast (4.1%).

• Wage growth slightly lower than expected.

Estimated payments strong until Dec-Jan.

- April (+16.4%) | June (+9.7%) | Sept (+14.8%).
- Jan-Dec: -32.1% vs.17-18 and -9.5% vs. 16-17.
- Large stock of overpayment credits (speculative).
- S&P 500 Index drops -14.4% from September high to year end.

Reduce Mar-Apr final payments by \$50 million.

• 10.5% growth revised down to 5.1%. Some downside risk.

Sales and Use Tax Trends

Strong growth in non-motor vehicle revenues.

- Up +8.1% thru Jan. | Adding +\$239 million to official.
- Big gain: marketplace sales act (Act 43 of 2017).
- Original FY 18-19 estimate is \$40 million. Revise to \$257 million.

Motor vehicle revenues very strong.

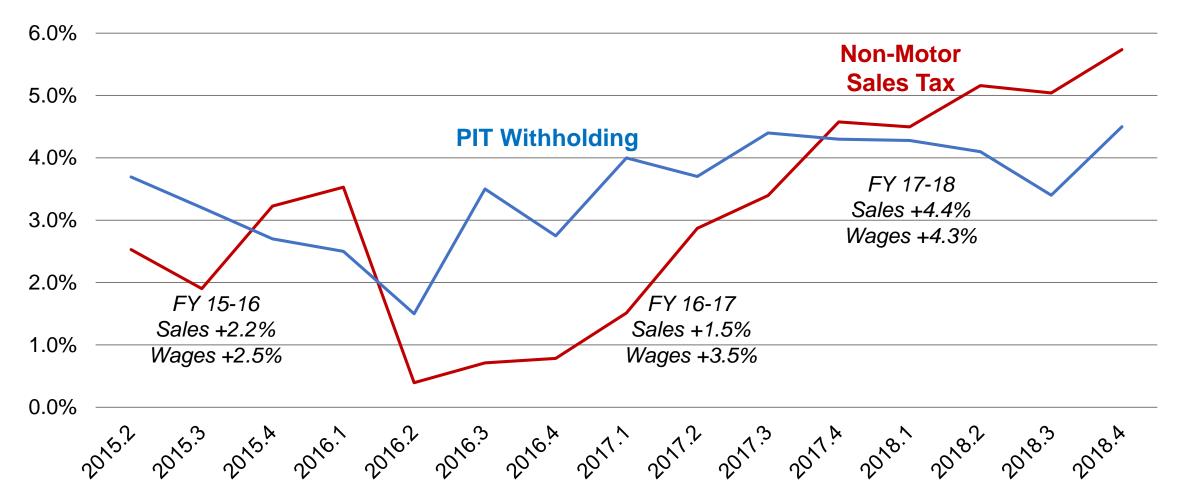
- Up +10.2% thru Jan. | Adding \$69 million to official.
- U.S. passenger car sales down -13.1% in 2018.
- Truck and SUVs up +8.0%. Total sales +0.3%.
- A shift in mix of sales drives revenue gains.

Sales and Use Tax Base Expansion

	15-16	16-17	17-18	18-19	19-20
Non-Motor Sales Tax	\$8,448	\$8,638	\$8,989	\$9,562	\$9,934
Growth Rate	3.4%	2.2%	4.1%	6.4%	3.9%
Less: Internet Sales Revenues	\$220	\$285	\$380	\$580	\$670
Equals: Baseline Revenues	\$8,228	\$8,353	\$8,609	\$8,982	\$9,264
Growth Rate		1.5%	3.1%	4.3%	3.1%

Note: Millions of dollars. Internet Sales Revenues include (1) e-commerce/nexus, (2) digital downloads and (3) marketplace sales.

Sales-Use vs. Withholding Growth



Note: Sales tax series controls for expanded tax base and transfers. PIT withholding controls for shifting due dates.

Corporate Net Income Tax Trends

Estimated payments very backloaded for TY 2018.

- March (+9.0%) | June (+5.5%) | Sept (+20.0%) | Dec (+25.7%).
- U.S. Domestic Profits stronger: +6.3% forecast, +9.3% thru Q3.
- Base broadening impact: +\$125 million (permanent).

Regular or final payments also very strong.

- Up +33% for July to January.
- Settlement payments for old tax years. Overpayments too?

Looking forward: modest growth.

- Shifting profits out of 2017 to 2018 (temporary).
- Pull forward of settlement payments (temporary).



Gaming Expansion Estimates

	17-18	18-19	19-20
iGaming	\$0	\$118	\$6
Category 4	127	0	13
Sports Wagering	0	75	28
All Other	<u>2</u>	<u>8</u>	<u>10</u>
Total	\$129	\$201	\$56
Note: Millions of dollars.			

Initial Outlook for FY 2019-20

	Amount	\$ Change	Growth
General Fund	\$35,272	\$1,000	2.9%
Corporate Net Income	3,378	98	3.0
Sales - Non-Motor	9,934	372	3.9
Sales - Motor Vehicle	1,533	36	2.4
PIT - Withholding	10,846	422	4.0
PIT - Other	3,500	218	6.6
Cigarette	1,094	-44	-3.8
Inheritance	1,066	20	1.9
Gaming Expansion	56	-144	-71.9
All Other	3,864	21	0.5
Note: Millions of dollars. General Fund growth rate without Gaming Expansion is	s 3.3%.		

Factors That Impact Revenue Forecasts

Has the federal shutdown been resolved?

• Will IRS process refunds in a timely fashion?

How strong is the international slowdown?

Have interest rates stabilized?

- Federal deficit continues to grow. Fed continues to shrink portfolio.
- China cuts back on bond purchases.

On-going impact of federal tax cuts.

- Most tax cuts already realized. Some start to reverse (bonus depr.).
- TY 2016: PA federal tax refunds were \$14.1 billion. Higher or lower?

Summary

Through January, actual revenues exceed estimates.

- IFO: +\$310 million gain.
- Administration: +\$279 million gain.

Most net gains are permanent.

- SUT internet sales. Higher corporate profits.
- Profit shifting and gaming gains are temporary.

Slower growth, but no recession for FY 2019-20.

- Most of federal tax cut has been realized. Starts to reverse.
- International slow down.
- Some downside risk to FY 2019-20 forecast.

