

Table 9a. U.S. Macroeconomic Indicators and CO₂ Emissions

U.S. Energy Information Administration | Short-Term Energy Outlook - December 2016

	2015				2016				2017				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	2015	2016	2017
Macroeconomic															
Real Gross Domestic Product (billion chained 2009 dollars - SAAR)	16,269	16,374	16,455	16,491	16,525	16,583	16,702	16,786	16,880	16,968	17,060	17,142	16,397	16,649	17,013
Real Personal Consumption Expend. (billion chained 2009 dollars - SAAR)	11,102	11,181	11,256	11,319	11,365	11,485	11,546	11,624	11,688	11,751	11,822	11,887	11,215	11,505	11,787
Real Fixed Investment (billion chained 2009 dollars - SAAR)	2,727	2,756	2,795	2,793	2,787	2,779	2,775	2,818	2,855	2,892	2,922	2,946	2,768	2,789	2,904
Business Inventory Change (billion chained 2009 dollars - SAAR)	129	105	77	63	42	-15	10	-2	-12	-4	1	12	93	9	-1
Real Government Expenditures (billion chained 2009 dollars - SAAR)	2,858	2,881	2,894	2,902	2,913	2,901	2,905	2,915	2,922	2,922	2,922	2,922	2,884	2,908	2,922
Real Exports of Goods & Services (billion chained 2009 dollars - SAAR)	2,121	2,136	2,120	2,106	2,102	2,111	2,162	2,140	2,157	2,172	2,189	2,206	2,121	2,129	2,181
Real Imports of Goods & Services (billion chained 2009 dollars - SAAR)	2,642	2,660	2,668	2,672	2,668	2,670	2,685	2,696	2,720	2,755	2,786	2,821	2,661	2,680	2,770
Real Disposable Personal Income (billion chained 2009 dollars - SAAR)	12,183	12,300	12,399	12,491	12,556	12,621	12,688	12,747	12,839	12,918	12,988	13,064	12,343	12,653	12,952
Non-Farm Employment (millions)	140.8	141.5	142.2	142.9	143.5	144.0	144.6	145.1	145.6	145.9	146.2	146.5	141.8	144.3	146.1
Civilian Unemployment Rate (percent)	5.6	5.4	5.2	5.0	4.9	4.9	4.9	4.9	4.8	4.7	4.7	4.7	5.3	4.9	4.7
Housing Starts (millions - SAAR)	0.99	1.16	1.16	1.13	1.15	1.16	1.14	1.16	1.18	1.21	1.24	1.27	1.11	1.15	1.23
Industrial Production Indices (Index, 2012=100)															
Total Industrial Production	105.8	105.1	105.5	104.6	104.1	103.9	104.4	104.0	104.0	104.5	105.5	106.3	105.2	104.1	105.1
Manufacturing	103.2	103.4	103.9	103.7	103.9	103.6	103.9	103.9	104.3	104.5	105.1	106.0	103.6	103.8	105.0
Food	103.1	102.6	103.4	103.2	104.4	104.8	105.4	105.8	106.3	106.8	107.3	107.9	103.1	105.1	107.1
Paper	98.9	98.5	97.0	96.6	96.4	95.6	95.1	94.5	94.4	94.3	94.4	94.4	97.7	95.4	94.4
Petroleum and Coal Products	102.4	104.7	105.7	106.9	106.5	105.5	105.5	105.5	106.3	106.7	107.2	107.8	104.9	105.7	107.0
Chemicals	97.9	97.9	97.7	98.5	99.1	98.3	98.2	98.6	99.3	100.0	100.8	101.7	98.0	98.6	100.4
Nonmetallic Mineral Products	111.3	111.7	113.0	116.1	117.1	115.6	113.9	114.6	115.3	116.0	117.0	117.9	113.0	115.3	116.6
Primary Metals	98.2	97.1	96.6	95.0	94.8	95.6	93.2	92.7	92.8	92.5	92.5	92.7	96.7	94.1	92.6
Coal-weighted Manufacturing (a)	102.0	102.1	102.2	102.5	102.8	102.2	101.4	101.3	101.8	102.1	102.5	103.2	102.2	101.9	102.4
Distillate-weighted Manufacturing (a)	104.4	104.5	105.3	106.0	106.2	105.7	105.3	105.4	105.9	106.4	107.1	107.8	105.0	105.7	106.8
Electricity-weighted Manufacturing (a)	102.9	103.1	103.3	103.3	103.5	102.9	102.8	102.8	103.2	103.5	104.0	104.9	103.1	103.0	103.9
Natural Gas-weighted Manufacturing (a)	102.3	103.4	103.5	104.1	104.4	103.5	103.8	104.0	104.6	105.2	106.0	107.1	103.3	103.9	105.7
Price Indexes															
Consumer Price Index (all urban consumers) (index, 1982-1984=1.00)	2.35	2.37	2.38	2.38	2.38	2.39	2.40	2.42	2.43	2.45	2.47	2.48	2.37	2.40	2.46
Producer Price Index: All Commodities (index, 1982=1.00)	1.92	1.92	1.90	1.87	1.83	1.84	1.86	1.88	1.89	1.90	1.91	1.93	1.90	1.85	1.91
Producer Price Index: Petroleum (index, 1982=1.00)	1.71	1.96	1.85	1.52	1.21	1.46	1.53	1.60	1.60	1.69	1.73	1.71	1.76	1.45	1.68
GDP Implicit Price Deflator (index, 2009=100)	109.3	109.9	110.3	110.5	110.6	111.3	111.7	112.3	113.0	113.6	114.3	114.9	110.0	111.5	114.0
Miscellaneous															
Vehicle Miles Traveled (b) (million miles/day)	7,957	8,940	8,863	8,538	8,195	9,169	9,061	8,679	8,311	9,274	9,134	8,800	8,577	8,777	8,882
Air Travel Capacity (Available ton-miles/day, thousands)	517	574	584	562	548	602	606	590	544	579	603	593	560	587	580
Aircraft Utilization (Revenue ton-miles/day, thousands)	322	356	365	344	326	365	376	364	325	358	379	366	347	358	357
Airline Ticket Price Index (index, 1982-1984=100)	286.4	313.0	283.3	286.2	281.8	305.0	273.0	283.2	284.9	312.8	293.4	302.7	292.2	285.8	298.5
Raw Steel Production (million short tons per day)	0.247	0.242	0.248	0.226	0.238	0.247	0.238	0.226	0.224	0.232	0.208	0.176	0.241	0.237	0.210
Carbon Dioxide (CO₂) Emissions (million metric tons)															
Petroleum	564	573	586	571	571	571	586	586	566	578	588	592	2,295	2,315	2,324
Natural Gas	468	312	326	369	440	328	344	376	447	324	338	391	1,476	1,489	1,501
Coal	394	351	426	311	312	299	422	350	344	316	392	353	1,483	1,382	1,406
Total Energy (c)	1,429	1,238	1,342	1,255	1,326	1,201	1,355	1,315	1,361	1,221	1,322	1,339	5,264	5,197	5,242

- = no data available

SAAR = Seasonally-adjusted annual rate

 (a) Fuel share weights of individual sector indices based on EIA *Manufacturing Energy Consumption Survey*.

(b) Total highway travel includes gasoline and diesel fuel vehicles.

(c) Includes electric power sector use of geothermal energy and non-biomass waste.

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

Historical data: Latest data available from U.S. Department of Commerce, Bureau of Economic Analysis; Federal Reserve System, Statistical release G17; Federal Highway Administration; and Federal Aviation Administration. Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model. Macroeconomic projections are based on Global Insight Model of the U.S. Economy.