Independent Statistics & Analysis
U.S. Energy Information Administration

June 2018

Short-Term Energy Outlook (STEO)

Forecast highlights

Global liquid fuels

- Brent crude oil spot prices averaged $77 per barrel (b) in May, an increase of $5/b from the April level and the highest monthly average price since November 2014. EIA forecasts Brent spot prices will average $71/b in 2018 and $68/b in 2019. The 2019 forecast price is $2/b higher than in the May STEO. EIA expects West Texas Intermediate (WTI) crude oil prices will average almost $7/b lower than Brent prices in 2018 and $6/b lower than Brent prices in 2019. NYMEX WTI futures and options contract values for September 2018 delivery traded during the five-day period ending June 7, 2018, suggest a range of $52/b to $81/b encompasses the market expectation for September WTI prices at the 95% confidence level.

- For the 2018 April–September summer driving season, EIA forecasts U.S. regular gasoline retail prices to average $2.87/gallon (gal), up from an average of $2.41/gal last summer. The higher forecast gasoline prices are primarily the result of higher forecast crude oil prices. Monthly average gasoline prices are expected to reach a summer peak in June of $2.92/gal and are forecast to decline gradually afterwards to $2.84/gal in September.

- EIA estimates that U.S. crude oil production averaged 10.7 million barrels per day (b/d) in May, up 80,000 b/d from the April level. EIA projects that U.S. crude oil production will average 10.8 million b/d in 2018, up from 9.4 million b/d in 2017, and will average 11.8 million b/d in 2019.

- EIA forecasts that total U.S. crude oil and petroleum product net imports will fall from an annual average of 3.7 million b/d in 2017 to an average of 2.5 million b/d in 2018 and to 1.6 million b/d in 2019, which would be the lowest level of net oil imports since 1959.

- EIA forecasts crude oil production from the Organization of the Petroleum Exporting Countries (OPEC) will average 32.0 million b/d in 2018, a decrease of 0.4 million b/d from the 2017 level. OPEC crude oil production is expected to increase slightly to an average of 32.1 million b/d in 2019. The increase in production in 2019 is expected to occur despite falling production in Venezuela and Iran. EIA assumes these decreases will be offset by increasing production from Persian Gulf producers, primarily Saudi Arabia.

Natural Gas

- U.S. dry natural gas production averaged 73.6 billion cubic feet per day (Bcf/d) in 2017. EIA forecasts dry natural gas production will average 81.2 Bcf/d in 2018, establishing a new record. EIA expects natural gas production will rise again in 2019 to 83.8 Bcf/d.

- Growing forecast U.S. natural gas production supports increasing forecast liquefied natural gas (LNG) exports. LNG exports averaged 1.9 Bcf/d in 2017. EIA forecasts LNG exports to average 3.0 Bcf/d in 2018 and 5.1 Bcf/d in 2019. Dominion Energy's Cove Point LNG facility is ramping up exports. In April, the facility exported an estimated 13.4 Bcf, implying baseload utilization of 65%, and in May, it exported an estimated 23.5 Bcf, implying baseload utilization of 94%.

- EIA expects Henry Hub natural gas spot prices to average $2.99/million British thermal units (MMBtu) in 2018 and $3.08/MMBtu in 2019. NYMEX futures and options contract values for September 2018 delivery that traded during the five-day period ending June 7, 2018, suggest that a range of $2.38/MMBtu to $3.57/MMBtu encompasses the market expectation for September Henry Hub natural gas prices at the 95% confidence level.

Electricity, coal, renewables, and emissions

- EIA expects the share of U.S. total utility-scale electricity generation from natural gas-fired power plants to rise from 32% in 2017 to 34% in 2018 and 2019. The forecast electricity generation share from coal averages 28% in 2018 and 2019, down from 30% in 2017. The nuclear share of generation was 20% in 2017 and is forecast to be 20% in 2018 and 19% in 2019. Nonhydropower renewables provided slightly less than 10% of electricity generation in 2017 and are expected to provide more than 10% in 2018 and nearly 11% in 2019. The generation share of hydropower was 7% in 2017 and is forecast to be about the same in 2018 and 2019.

- EIA forecasts coal production to decline by 2% to 756 million short tons (MMst) in 2018. The production decrease is largely attributable to a forecast decline of 5% in domestic coal consumption in 2018, with most of the decline is expected to be in the electric power sector. A forecast decline of 4% in coal exports also contributes to lower expected coal production in 2018. EIA expects coal production to decline by 2% in 2019.

- In 2017, EIA estimates that wind generation averaged 697,000 megawatthours per day (MWh/d). EIA forecasts that wind generation will rise to 746,000 MWh/d in 2018 and to 777,000 MWh/d in 2019. If factors such as precipitation and snowpack remain as forecast, conventional hydropower is forecast to generate 752,000 MWh/d in 2019, which would make it the first year that wind generation exceeds hydropower generation in the United States.

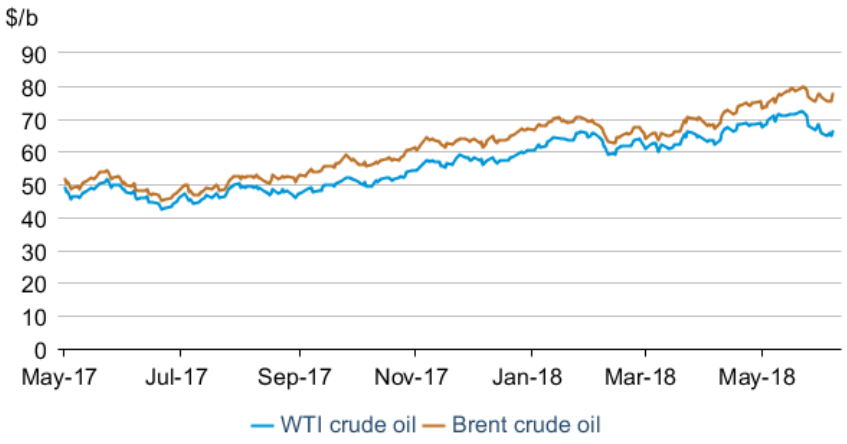
- After declining by 0.9% in 2017, EIA forecasts that energy-related carbon dioxide (CO2) emissions will rise by 1.1% in 2018 and by 0.2% in 2019. Energy-related CO2 emissions are sensitive to changes in weather, economic growth, energy prices, and fuel mix.

Petroleum and natural gas markets review

Crude oil

Prices: The front-month futures price for Brent crude oil settled at $77.32 per barrel (b) on June 7, an increase of $4.19/b from May 1. Front-month futures prices for West Texas Intermediate (WTI) crude oil for delivery at Cushing, Oklahoma, decreased by $1.30/b during the same period, settling at $65.95/b on June 7 **(Figure 1)**. May Brent and WTI monthly average spot prices were $4.87/b and $3.73/b higher, respectively, than the April average spot prices.

Figure 1. Crude oil front-month futures prices



eia CME Group and Intercontinental Exchange, as compiled by Bloomberg L.P.

Brent crude oil prices traded above $80/b on an intraday basis briefly in late May before declining during the first week of June. Prices increased in May as crude oil production declined for several members of the Organization of the Petroleum Exporting Countries (OPEC), including Venezuela and Nigeria, and as markets accounted for the uncertainty surrounding Iran's future crude oil production levels. In early May, the United States announced it would withdraw from the Joint Comprehensive Plan of Action (JCPOA) and reinstitute sanctions on companies doing business with Iran. Even though essentially no U.S. companies are directly involved with Iranian companies, many European and Asian banks, insurers, and oil companies announced they might reduce commercial activity with Iran in light of potential U.S. sanctions. Sanctions will likely have a direct effect on the Iranian oil sector, which would limit crude oil exports and production from the country by the end of 2018.

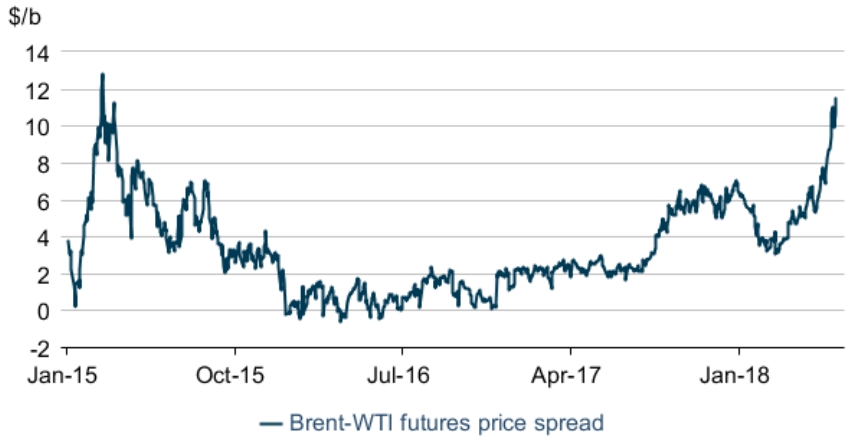
OPEC, Russia, and other non-OPEC countries meet on June 22, 2018, to assess current oil market conditions as they relate to their existing crude oil production reductions, which are scheduled to continue through the end of 2018. Oil ministers from Saudi Arabia and Russia have

announced they will re-evaluate the production reduction agreement given the accelerated output declines from Venezuela and the uncertainty surrounding Iran's production levels. In this forecast, EIA assumes some supply increases from major oil producers in 2019. However, depending on the outcome of the June 22 meeting, the magnitude of any supply response is uncertain. Currently, EIA forecasts global oil inventories will increase by 210,000 barrels per day (b/d) in 2019, which EIA expects will put modest downward pressure on crude oil prices in the second half of 2018 and in 2019.

U.S. crude oil prices in the Permian region as well as in Cushing, Oklahoma, traded lower than Brent in May. This continued the trend of lower prices for inland U.S. crude oils as a result of constraints in pipeline capacity for transporting crude oil to the U.S. Gulf Coast for refining or for export, as discussed in the May and April STEOs. The Brent–WTI front-month futures price spread, in particular, widened to $11.43/b on June 7, its widest level since February 2015 **(Figure 2)**. Although transportation constraints to the U.S. Gulf Coast are primarily affecting Permian Basin crude oils, the rapid increase in the Brent–WTI futures price spread in May and early June suggests some constraints are developing in crude oil transported from Cushing, Oklahoma (where the WTI futures contract is delivered), to the Gulf Coast.

Because transportation options out of Cushing are limited, it remains uncertain how much the spread could narrow if Gulf Coast refiners increase refinery runs, which were lower than expected in May. In addition, U.S. crude oil exports are currently limited to higher cost options which, unless port infrastructure buildout is expanded, will likely maintain a wide Brent–WTI spread. EIA is increasing the forecast of the Brent–WTI spot price spread for the second half of 2018 and 2019, from $5.49/b to $7.67/b and $5.12/b to $5.79/b, respectively.

Figure 2. Brent-WTI futures price spread



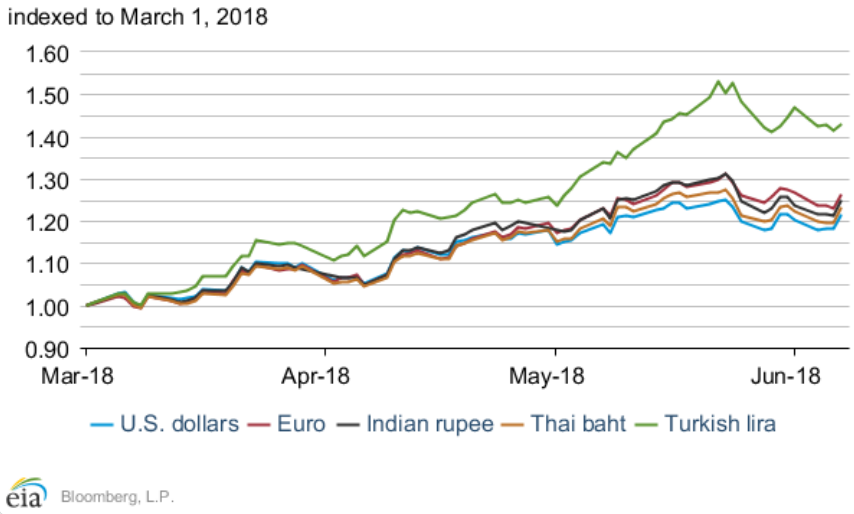
eia CME Group and Intercontinental Exchange, as compiled by Bloomberg L.P.

Oil prices by currency: The currencies of several crude oil importing countries depreciated against the U.S. dollar in recent weeks, reversing some of the appreciation from the second half of 2017 through the first quarter of 2018. In U.S. dollars, Brent crude oil prices increased by 21%

from March 1 through June 7. However, crude oil prices increased by 23% in Thai baht, 25% in Indian rupees, 26% in euros, and 43% in Turkish lira during the same period **(Figure 3)**.

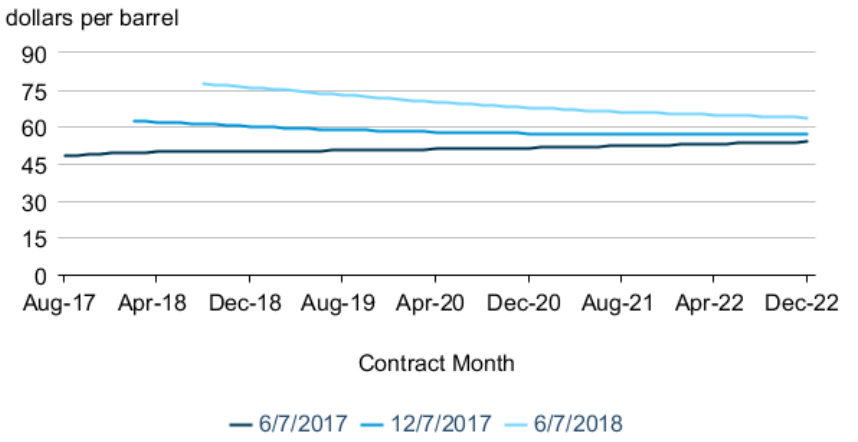
Even though most leading economic indicators point to continuing economic growth in Europe and emerging markets, political uncertainty in several countries could be contributing to currency depreciation, which makes crude oil imports more expensive. Some emerging market economies reduced energy subsidies when oil prices fell in 2014–16, and the increase in prices during the past year has led some to call for a reinstitution of subsidies. Trade disputes between the United States and other countries would also affect the demand for other countries' goods and could have contributed to U.S. dollar appreciation. In addition, concerns about sovereign debt levels in several European countries led to a significant increase in bond yields and depreciation of the euro in late May.

Figure 3. Brent crude oil prices in various currencies



Long-dated futures prices: Prices for longer-dated futures contracts have increased by a larger percentage during the past six months than they did during the second half of 2017. Brent crude oil prices for December 2022 delivery, for example, increased by 6% from June 7, 2017, to December 7, 2017. In the following six months from December 7, 2017, to June 7, 2018, the price of the same December 2022 contract increased by 12%, settling at more than $60/b **(Figure 4)**. Upstream crude oil production projects with long lead times and investment periods often use futures prices several years in advance to aid final investment decisions. Higher prices for longer-dated futures contracts could trigger increased investment interest in upstream projects that would begin producing oil in future years.

Figure 4. Brent futures curves



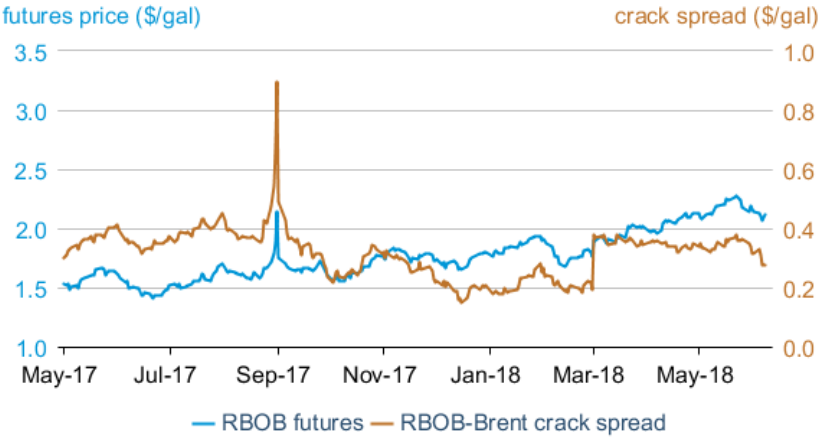
eia Bloomberg, Intercontinental Exchange

Petroleum products

Gasoline prices: The front-month futures price of reformulated blendstock for oxygenate blending (RBOB, the petroleum component of gasoline used in many parts of the country) settled at $2.11 per gallon (gal) on June 7 **(Figure 5)**, an increase of 3 cents/gal from May 1. The RBOB–Brent crack spread (the difference between the price of RBOB and the price of Brent crude oil) declined by 7 cents/gal to settle at 27 cents/gal over the same period.

Higher-than-average U.S. gasoline inventories continue to put downward pressure on the gasoline crack spread, despite EIA estimates that U.S gasoline consumption neared or surpassed monthly five-year highs from March through May. STEO estimates U.S. gasoline inventories were 239.0 million barrels at the end of May, 9.5 million barrels higher than the five-year average for May.

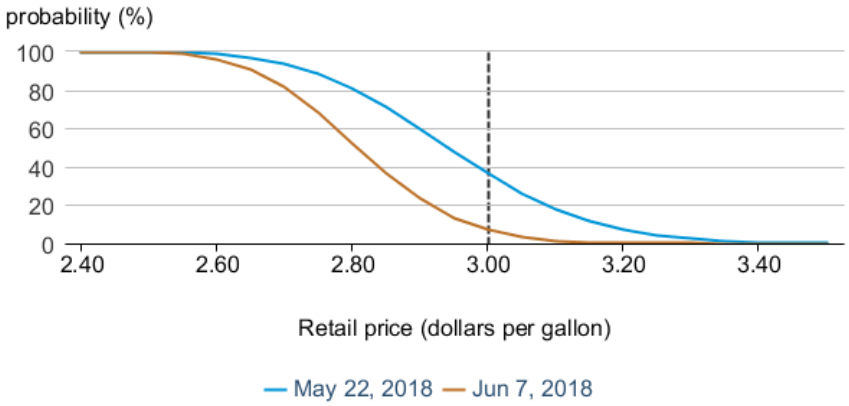
Figure 5. Historical RBOB front-month futures prices and crack spread



eia CME Group, as compiled by Bloomberg L.P., RBOB=reformulated blendstock for oxygenate blending

This forecast estimates that the U.S. average retail price of regular grade gasoline will reach its peak this year in June at an average of $2.92/gal and then begin to decline. The U.S. average retail gasoline price is forecast to fall to an average of $2.91/gal in July. A probability calculated using futures and options data indicates that there is roughly a 7% chance of U.S. retail gasoline prices reaching an average of $3.00/gal in July. In the five trading days ending June 7, the July 2018 RBOB futures contract averaged $2.11/gal. Options prices imply this contract has a 7% probability of exceeding $2.30/gal, which typically leads to a retail price of $3.00/gal at the contract's expiration at that time of year **(Figure 6)**. The probability of reaching $3.00/gal was at 36% on May 22, when RBOB prices reached the highest level since late 2014.

Figure 6. Probability of July 2018 retail gasoline exceeding different price levels at expiration



eia U.S. Energy Information Administration, CME Group

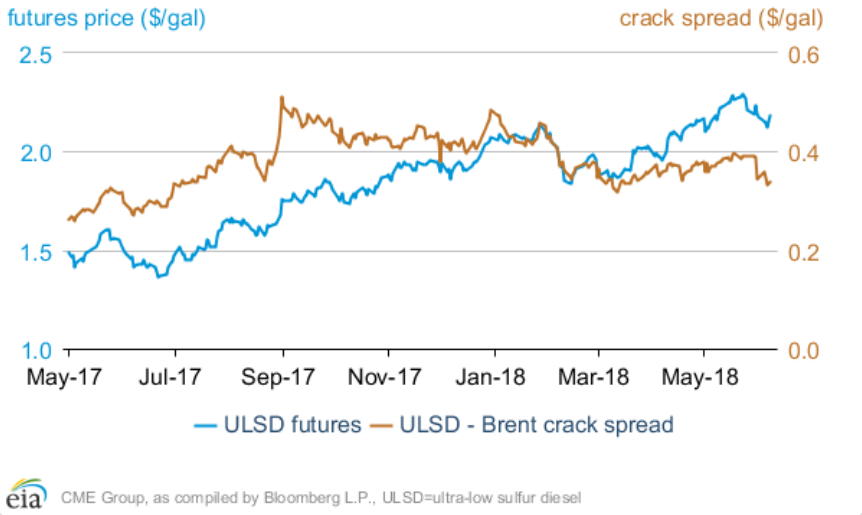
Ultra-low sulfur diesel prices: The ultra-low sulfur diesel (ULSD) front-month futures price increased 8 cents/gal from May 1 to settle at $2.18/gal on June 7. The ULSD–Brent crack spread (the difference between the price of ULSD and the price of Brent crude oil) declined 2 cents/gal to settle at 34 cents/gal over the same period **(Figure 7)**.

The ULSD crack spread fell sharply on May 31. This decline may have been caused by a rise in U.S. distillate stocks during that week, in contrast to a decline in crude oil stocks, and also potentially by lower-than-normal trading volumes for futures contracts at the end of every month as they expire. The rise in U.S. refinery utilization at the end of May, particularly on the U.S. Gulf Coast, could have been responsible for the rise in petroleum product inventories.

Despite increased production contributing to a lower ULSD crack spread, U.S. distillate consumption is still robust, even as this year's heating season ended. In the June STEO, EIA estimates that distillate consumption in May was 4.0 million b/d, the highest for the month since 2007, and it also estimates that distillate consumption will be near five-year highs through the summer months. Distillate consumption is likely supported by continued growth in U.S. industrial activity. U.S. industrial production reached a record high in April, surpassing the previous record set in late 2014. Further, several trucking indicators show increased trucking

tonnage and trucking demand in the United States this year, which supports increased demand for diesel fuel.

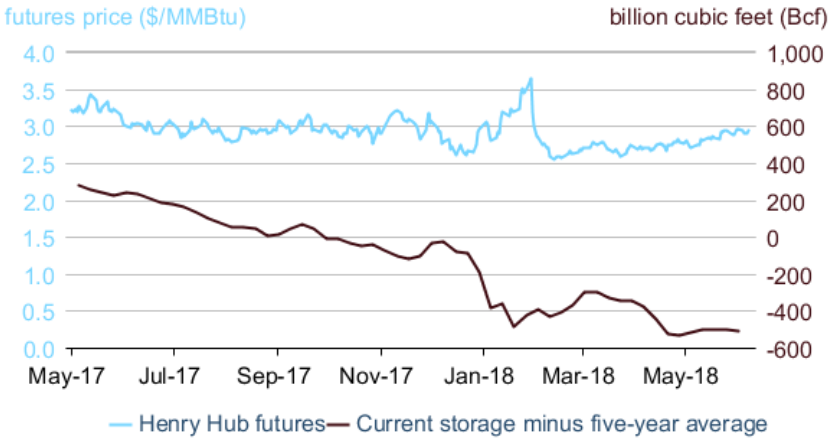
Figure 7. Historical ULSD front-month futures price and crack spread



Natural Gas

Prices: The front-month natural gas futures contract for delivery at the Henry Hub settled at $2.93/million British thermal units (MMBtu) on June 7, an increase of 13 cents/MMBtu from May 1 **(Figure 8)**. This year, the coldest April in the past 21 years resulted in a delayed start to the summer injection season. The 2018 summer injection season did not start until April 27, four weeks later than in 2017. Working natural gas stocks as of June 1 were 1,817 billion cubic feet (Bcf), 31% lower than the year-ago level and 22% lower than the five-year (2013–17) average for that time of year. The large working natural gas inventory deficit and the late start to the storage injection season contributed to higher Henry Hub prices despite record production growth. EIA estimates that dry natural gas production in May reached 81.3 Bcf per day, 13% higher than in May 2017. EIA projects dry natural gas production to increase by 10% in 2018 and by 3% in 2019. The Henry Hub natural gas spot price averaged $2.80/MMBtu in May, the same price as in April.

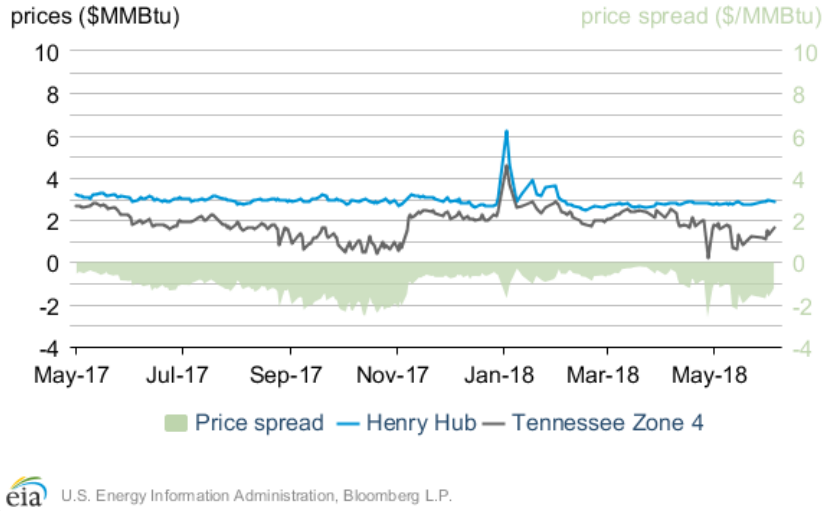
Figure 8. U.S. natural gas front-month futures prices and storage



U.S. Energy Information Administration, CME Group, as compiled by Bloomberg L.P.

The difference between the Henry Hub and Tennessee Zone 4 (TZ4) spot prices, which reflect prices in northeast Pennsylvania, narrowed in November 2017 but began widening again in April 2018, falling below -$2/MMBtu before settling at -$1.23/MMBtu on June 4 **(Figure 9)**. The TZ4 to Henry Hub spot price spread tends to narrow during winter months when regional demand is higher and to widen during the summer season when demand is lower. The spread also may be widening because pipeline takeaway capacity is constrained in northeast Pennsylvania. The Atlantic Sunrise project, which will connect producing regions in northeastern Pennsylvania to markets in the U.S. Mid-Atlantic and U.S. Southeast, is under construction with an expected start date of mid-2018. Once that project is completed, the TZ4 to Henry Hub spot price spread is likely to narrow.

Figure 9. Henry Hub and Tennessee Zone 4 natural gas spot prices



U.S. Energy Information Administration, Bloomberg L.P.

Notable forecast changes

- EIA forecasts that the Brent–West Texas Intermediate (WTI) crude oil price spread will average almost $7 per barrel (b) in 2018 and $6/b in 2019, compared with a forecast of about $5/b in both years in the May STEO. The wider spread reflects growing U.S. crude oil production, particularly in West Texas, that has led to transportation constraints between the U.S. Gulf Coast and both West Texas and Cushing, Oklahoma (the delivery point for the WTI crude oil futures contract). These transportation constraints reflect the current shortage of available pipeline capacity to meet the growing demand for moving crude oil from Cushing to the Gulf Coast.

- EIA forecasts crude oil production from the Organization of the Petroleum Exporting Countries (OPEC) will average 32.0 million barrels per day (b/d) in 2018 and 32.1 million b/d in 2019. Those levels are 0.2 million b/d and 0.3 million b/d lower, respectively, than forecast in the May STEO. The lower forecast production levels reflect lower expected crude oil production in Venezuela and Iran.

- For more information, see the detailed table of STEO forecast changes.

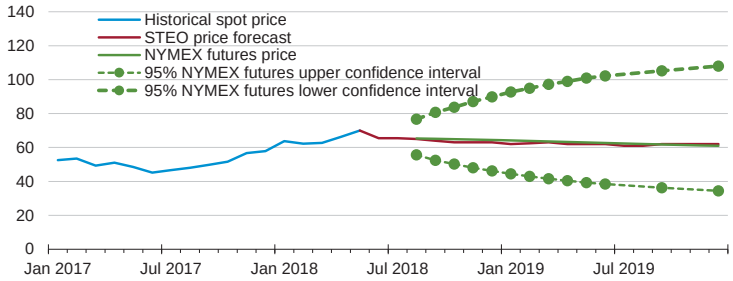
U.S. Energy Information Administration
Independent Statistics & Analysis

Short-Term Energy Outlook

Chart Gallery for June 2018

West Texas Intermediate (WTI) crude oil price

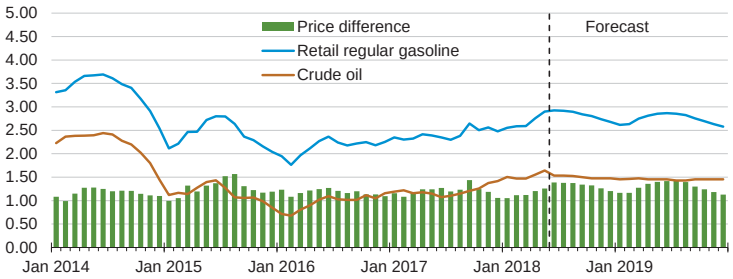
dollars per barrel



Note: Confidence interval derived from options market information for the 5 trading days ending Jun 7, 2018. Intervals not calculated for months with sparse trading in near-the-money options contracts.
Source: Short-Term Energy Outlook, June 2018, and CME Group.

U.S. gasoline and crude oil prices

dollars per gallon

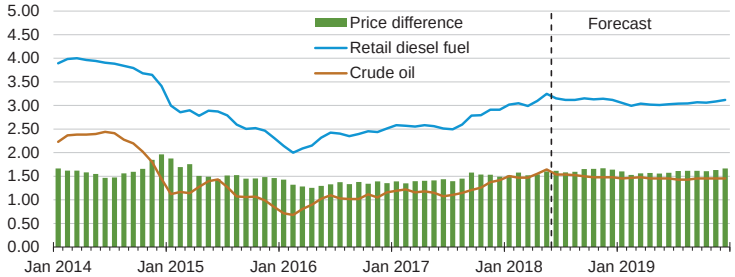


Crude oil price is composite refiner acquisition cost. Retail prices include state and federal taxes.

Source: Short-Term Energy Outlook, June 2018.

U.S. diesel fuel and crude oil prices

dollars per gallon

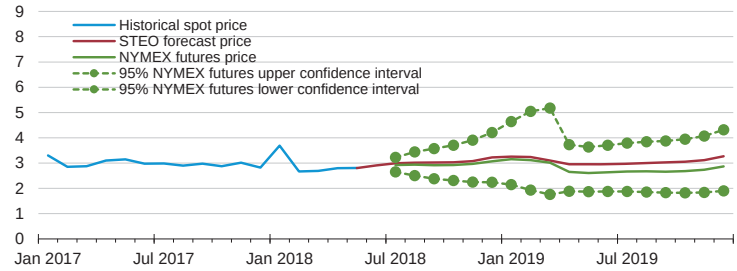


Crude oil price is composite refiner acquisition cost. Retail prices include state and federal taxes.

Source: Short-Term Energy Outlook, June 2018.

Henry Hub natural gas price

dollars per million Btu

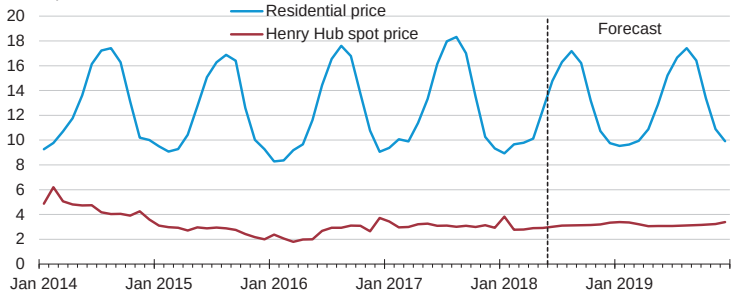


Note: Confidence interval derived from options market information for the 5 trading days ending Jun 7, 2018. Intervals not calculated for months with sparse trading in near-the-money options contracts.

Source: Short-Term Energy Outlook, June 2018, and CME Group.

U.S. natural gas prices

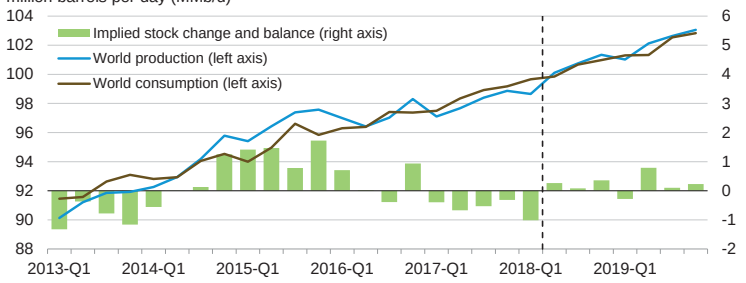
dollars per thousand cubic feet



Source: Short-Term Energy Outlook, June 2018, and Thomson Reuters.

World liquid fuels production and consumption balance

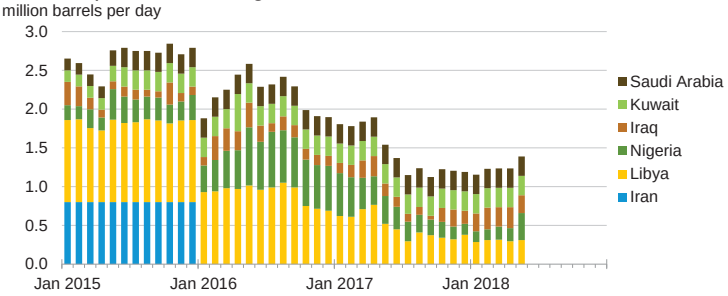
million barrels per day (MMb/d)



Source: Short-Term Energy Outlook, June 2018.

Estimated historical unplanned OPEC crude oil production outages

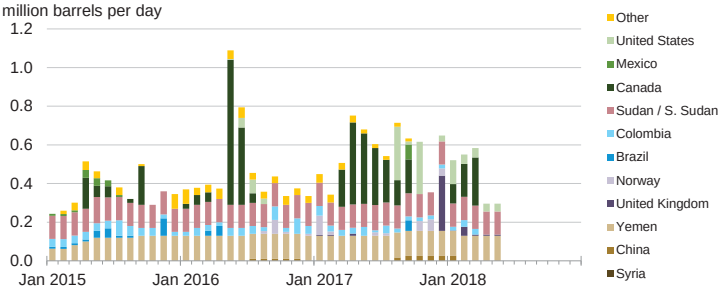
million barrels per day



Source: Short-Term Energy Outlook, June 2018.

Estimated historical unplanned non-OPEC liquid fuels production outages

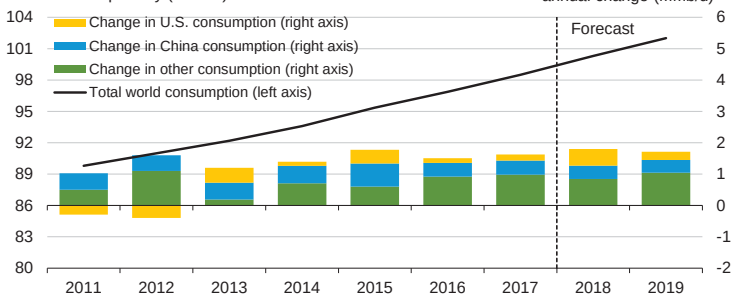
million barrels per day



Source: Short-Term Energy Outlook, June 2018.

World liquid fuels consumption

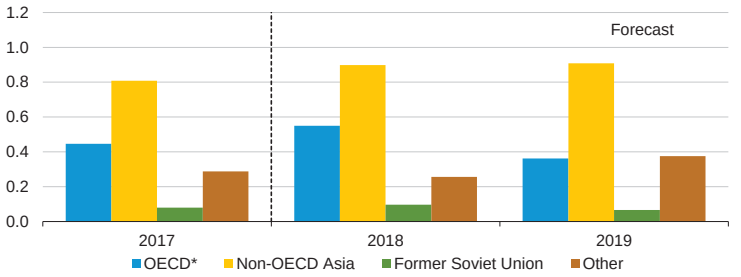
million barrels per day (MMb/d)



Source: Short-Term Energy Outlook, June 2018.

World liquid fuels consumption growth

million barrels per day

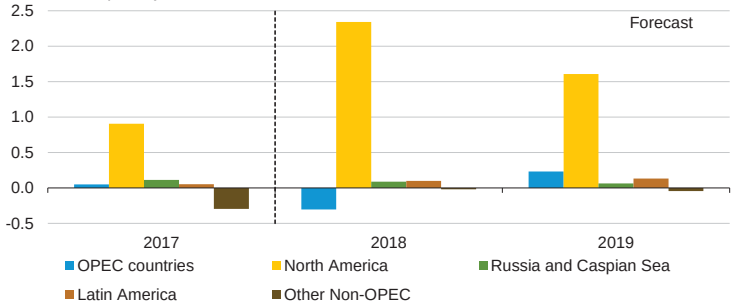


* Countries belonging to the Organization for Economic Cooperation and Development

Source: Short-Term Energy Outlook, June 2018.

World crude oil and liquid fuels production growth

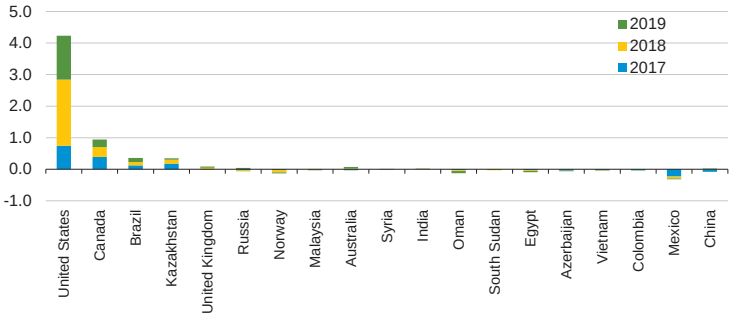
million barrels per day



Source: Short-Term Energy Outlook, June 2018.

Non-OPEC crude oil and liquid fuels production growth

million barrels per day

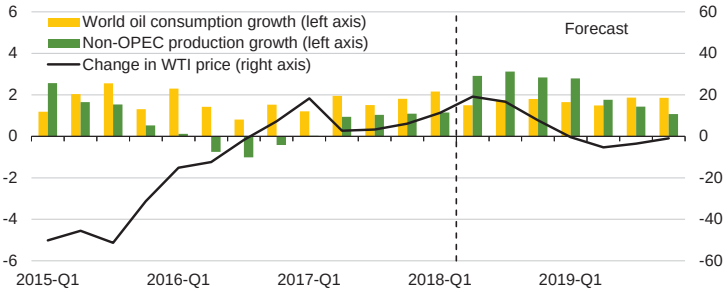


Source: Short-Term Energy Outlook, June 2018.

World consumption and non-OPEC production growth

million barrels per day

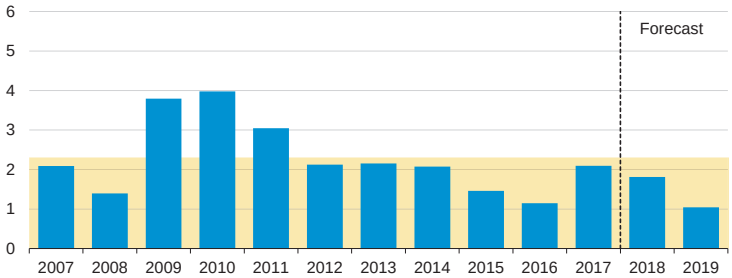
dollars per barrel



Source: Short-Term Energy Outlook, June 2018.

OPEC surplus crude oil production capacity

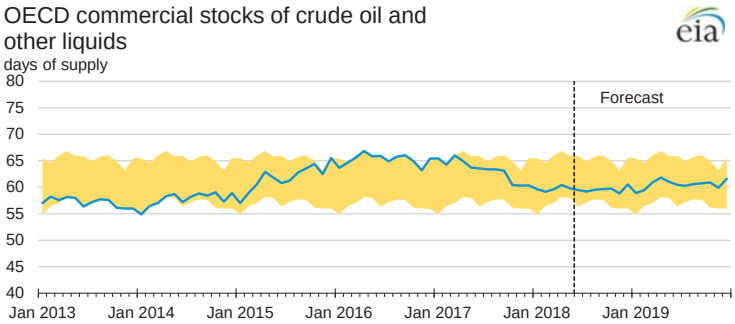
million barrels per day



Note: Shaded area represents 2007-2017 average (2.3 million barrels per day).

Source: Short-Term Energy Outlook, June 2018.

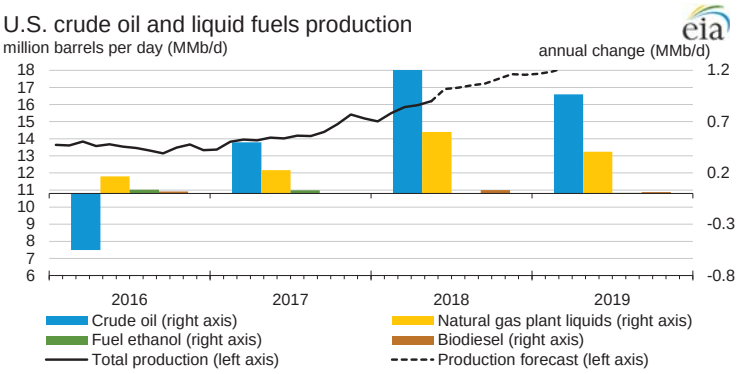
OECD commercial stocks of crude oil and other liquids



Note: Colored band around days of supply of crude oil and other liquids stocks represents the range between the minimum and maximum from Jan. 2013 - Dec. 2017.

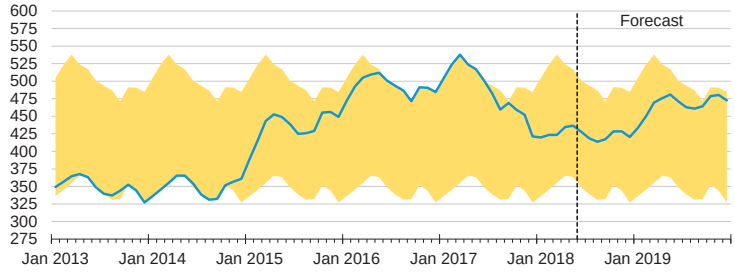
Source: Short-Term Energy Outlook, June 2018.

U.S. crude oil and liquid fuels production



Source: Short-Term Energy Outlook, June 2018.

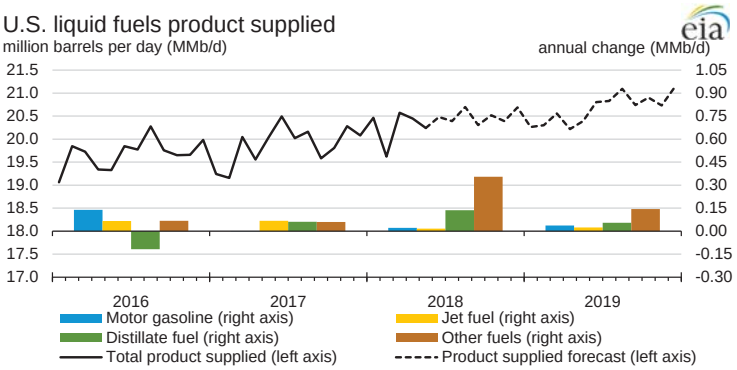
U.S. commercial crude oil stocks



Note: Colored band around storage levels represents the range between the minimum and maximum from Jan. 2013 - Dec. 2017.

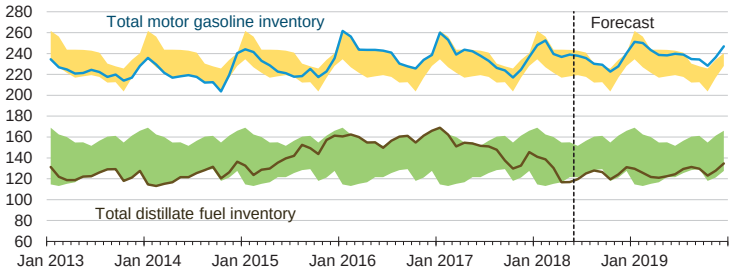
Source: Short-Term Energy Outlook, June 2018.

U.S. liquid fuels product supplied



Source: Short-Term Energy Outlook, June 2018.

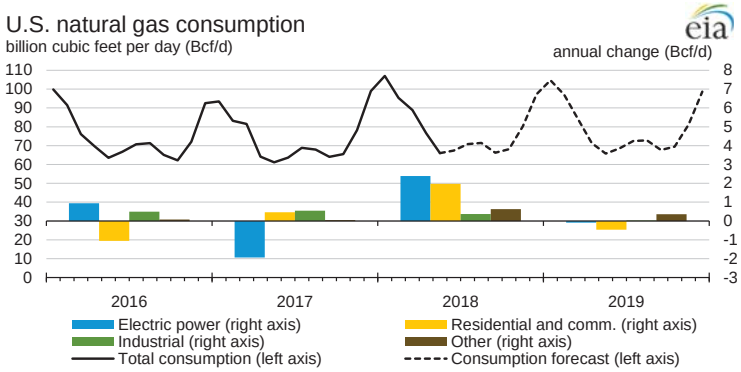
U.S. gasoline and distillate inventories



Note: Colored bands around storage levels represent the range between the minimum and maximum from Jan. 2013 - Dec. 2017.

Source: Short-Term Energy Outlook, June 2018.

U.S. natural gas consumption

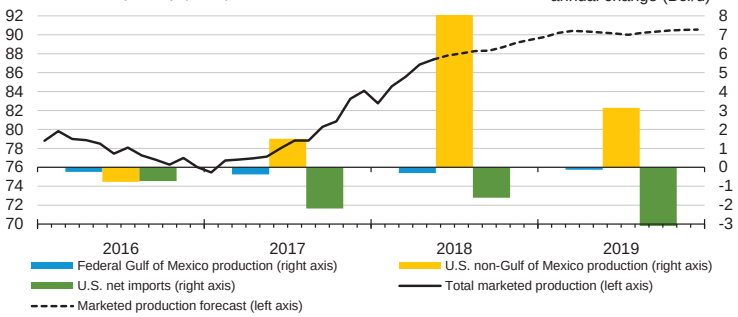


Source: Short-Term Energy Outlook, June 2018.

U.S. natural gas production and imports

billion cubic feet per day (Bcf/d)

annual change (Bcf/d)

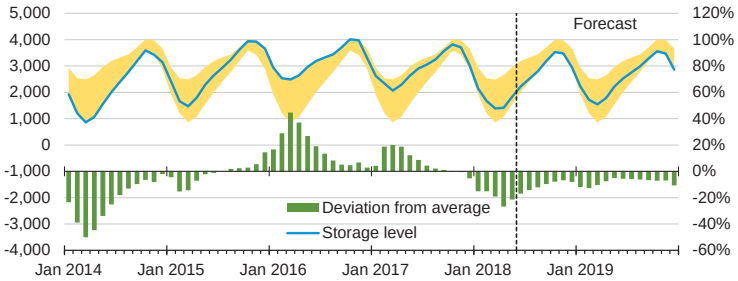


Source: Short-Term Energy Outlook, June 2018.

U.S. working natural gas in storage

billion cubic feet

deviation from average



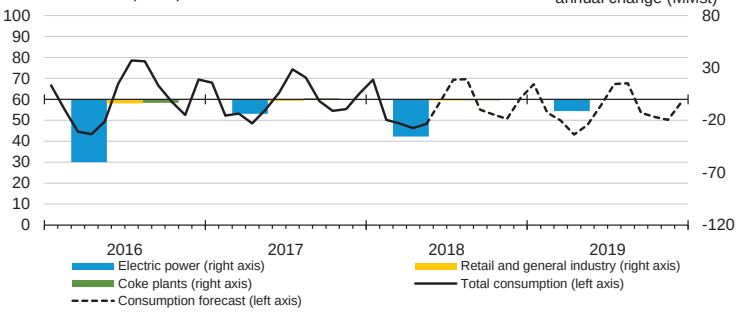
Note: Colored band around storage levels represents the range between the minimum and maximum from Jan. 2013 - Dec. 2017.

Source: Short-Term Energy Outlook, June 2018.

U.S. coal consumption

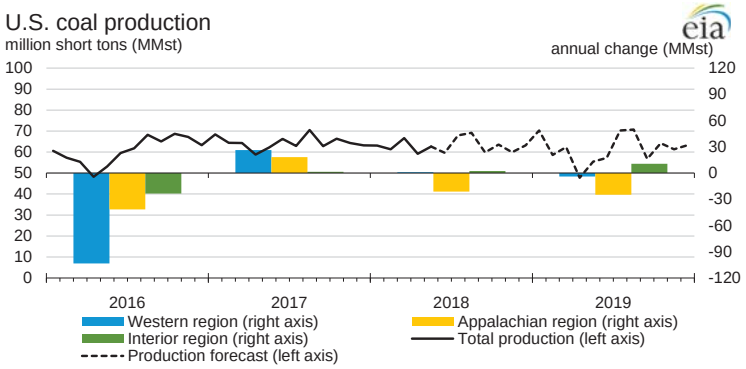
million short tons (MMst)

annual change (MMst)



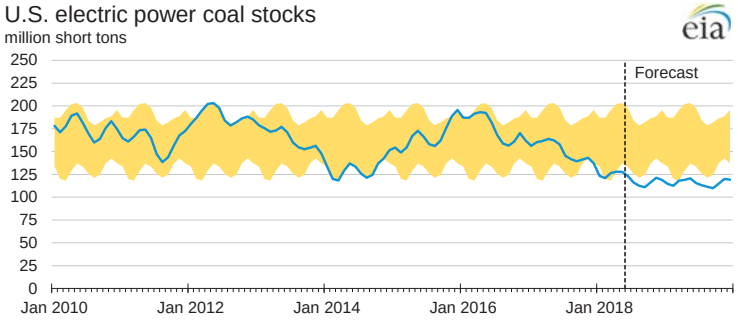
Source: Short-Term Energy Outlook, June 2018.

U.S. coal production



Source: Short-Term Energy Outlook, June 2018.

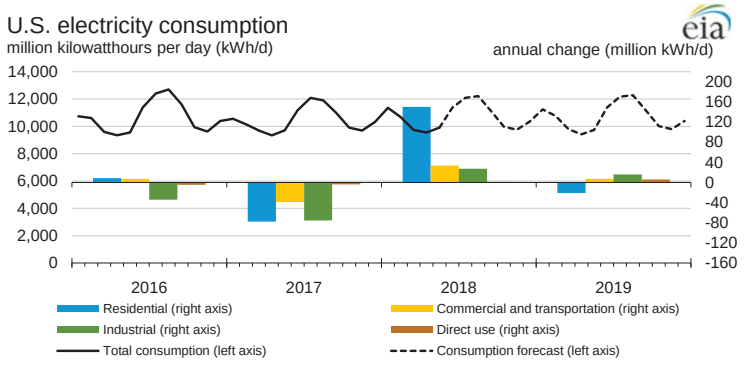
U.S. electric power coal stocks



Note: Colored band around stock levels represents the range between the minimum and maximum from Jan. 2010 - Dec. 2017.

Source: Short-Term Energy Outlook, June 2018.

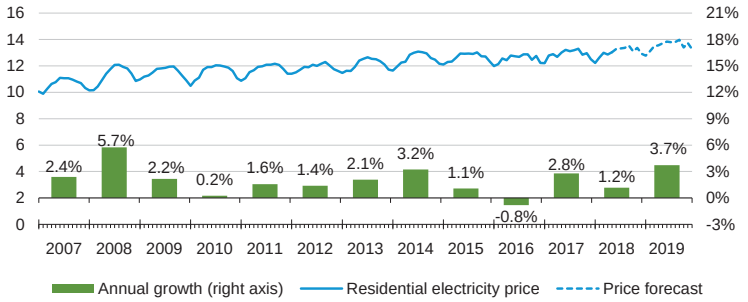
U.S. electricity consumption



Source: Short-Term Energy Outlook, June 2018.

U.S. residential electricity price

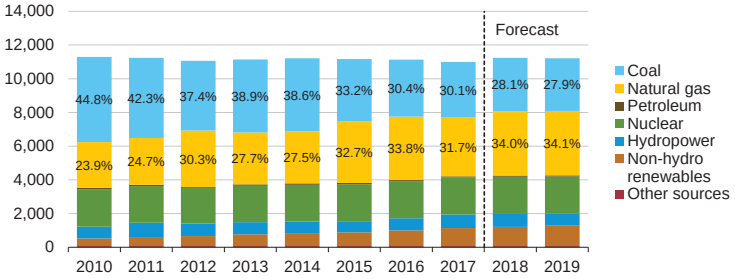
cents per kilowatthour



Source: Short-Term Energy Outlook, June 2018.

U.S. electricity generation by fuel, all sectors

thousand megawatthours per day

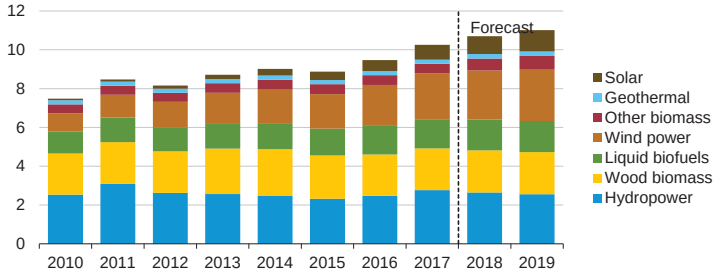


Note: Labels show percentage share of total generation provided by coal and natural gas.

Source: Short-Term Energy Outlook, June 2018.

U.S. renewable energy supply

quadrillion British thermal units (Btu)

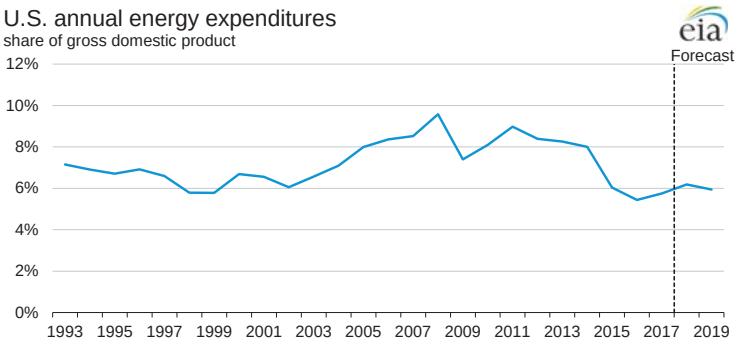


Note: Hydropower excludes pumped storage generation. Liquid biofuels include ethanol and biodiesel. Other biomass includes municipal waste from biogenic sources, landfill gas, and other non-wood waste.

Source: Short-Term Energy Outlook, June 2018.

U.S. annual energy expenditures

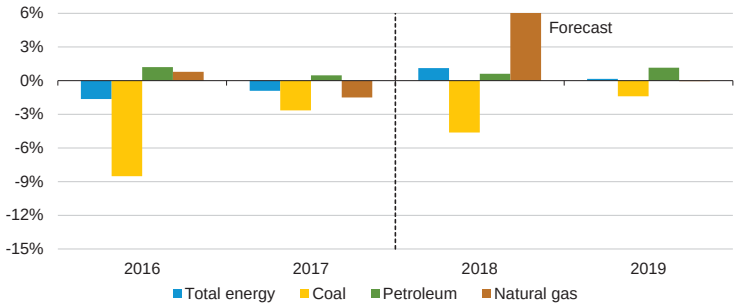
share of gross domestic product



Source: Short-Term Energy Outlook, June 2018.

U.S. energy-related carbon dioxide emissions

annual growth

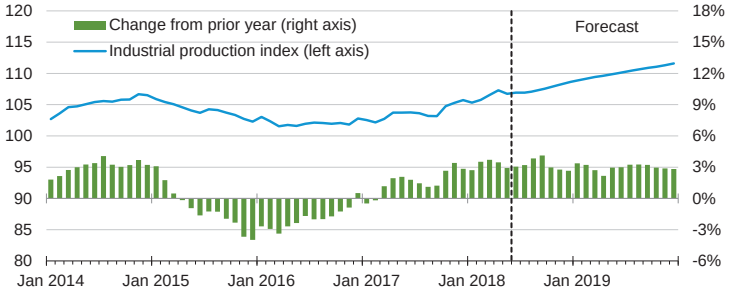


Source: Short-Term Energy Outlook, June 2018.

U.S. total industrial production index

index (2007 = 100)

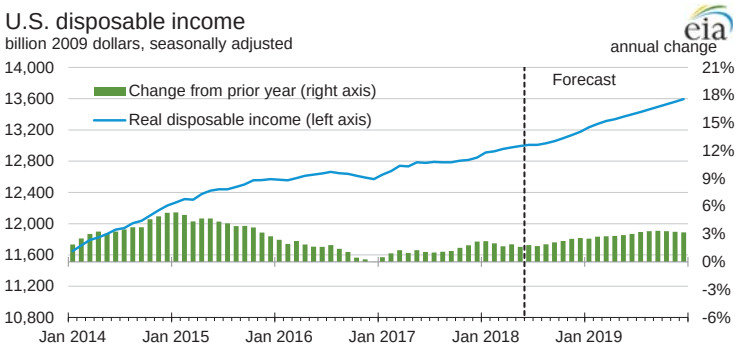
annual change



Source: Short-Term Energy Outlook, June 2018.

U.S. disposable income

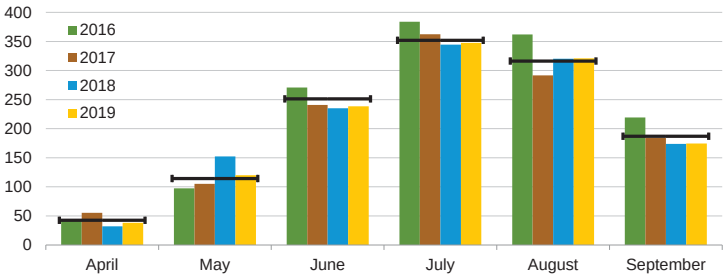
billion 2009 dollars, seasonally adjusted



Source: Short-Term Energy Outlook, June 2018.

U.S. summer cooling degree days

population-weighted

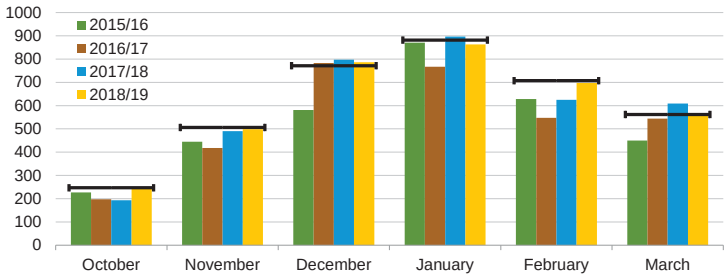


Note: EIA calculations based on from the National Oceanic and Atmospheric Administration data. Horizontal lines indicate each month's prior 10-year average (2008-2017). Projections reflect NOAA's 14-16 month outlook.

Source: Short-Term Energy Outlook, June 2018.

U.S. winter heating degree days

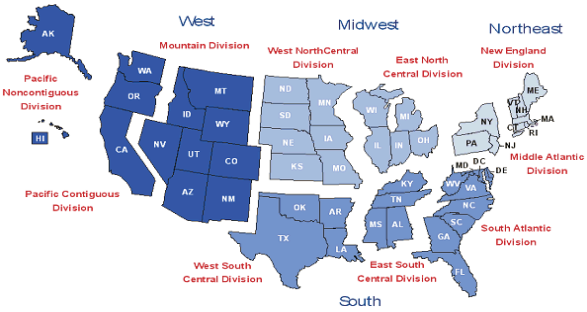
population-weighted



Note: EIA calculations based on National Oceanic and Atmospheric Administration (NOAA) data. Horizontal lines indicate each month's prior 10-year average (Oct 2008 - Mar 2018). Projections reflect NOAA's 14-16 month outlook.

Source: Short-Term Energy Outlook, June 2018.

U.S. census regions and divisions



Source: Short-Term Energy Outlook, June 2018.

Table 1. U.S. Energy Markets Summary

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Energy Supply															
Crude Oil Production (a)															
(million barrels per day)	**9.01**	**9.13**	**9.33**	**9.93**	**10.24**	*10.72*	*10.88*	*11.31*	*11.64*	*11.75*	*11.67*	*11.97*	**9.35**	*10.79*	*11.76*
Dry Natural Gas Production															
(billion cubic feet per day)	**71.24**	**72.04**	**73.97**	**76.98**	**78.54**	*81.31*	*82.05*	*82.83*	*83.73*	*83.79*	*83.68*	*83.93*	**73.57**	*81.20*	*83.78*
Coal Production															
(million short tons)	**197**	**187**	**196**	**194**	**191**	*181*	*197*	*187*	*191*	*160*	*198*	*189*	**774**	*756*	*738*
Energy Consumption															
Liquid Fuels															
(million barrels per day)	**19.49**	**20.03**	**19.92**	**20.05**	**20.24**	*20.39*	*20.47*	*20.53*	*20.38*	*20.47*	*20.89*	*20.92*	**19.88**	*20.41*	*20.67*
Natural Gas															
(billion cubic feet per day)	**86.15**	**62.96**	**66.96**	**80.94**	**97.15**	*69.95*	*69.54*	*81.92*	*95.19*	*68.49*	*71.07*		**74.22**	*79.57*	*79.41*
Coal (b)															
(million short tons)	**173**	**167**	**204**	**173**	**168**	*153*	*194*	*164*	*171*	*148*	*189*	*161*	**717**	*679*	*668*
Electricity															
(billion kilowatt hours per day)	**10.13**	**10.08**	**11.66**	**9.98**	**10.59**	*10.28*	*11.81*	*10.03*	*10.60*	*10.18*	*11.89*	*10.08*	**10.47**	*10.68*	*10.69*
Renewables (c)															
(quadrillion Btu)	**2.79**	**2.99**	**2.57**	**2.66**	**2.87**	*3.05*	*2.73*	*2.79*	*2.85*	*3.14*	*2.86*	*2.91*	**11.02**	*11.43*	*11.77*
Total Energy Consumption (d)															
(quadrillion Btu)	**25.05**	**23.25**	**24.35**	**25.09**	**26.15**	*23.47*	*24.38*	*24.89*	*25.91*	*23.42*	*24.71*	*25.19*	**97.73**	*98.90*	*99.24*
Energy Prices															
Crude Oil West Texas Intermediate Spot															
(dollars per barrel)	**51.64**	**48.15**	**48.16**	**55.27**	**62.90**	*67.29*	*64.87*	*63.00*	*62.50*	*62.00*	*61.31*	*62.00*	**50.79**	*64.53*	*61.95*
Natural Gas Henry Hub Spot															
(dollars per million Btu)	**3.01**	**3.08**	**2.95**	**2.90**	**3.02**	*2.84*	*3.01*	*3.11*	*3.20*	*2.96*	*3.00*	*3.14*	**2.99**	*2.99*	*3.08*
Coal															
(dollars per million Btu)	**2.08**	**2.12**	**2.07**	**2.04**	**2.06**	*2.23*	*2.24*	*2.21*	*2.24*	*2.22*	*2.23*	*2.20*	**2.08**	*2.19*	*2.22*
Macroeconomic															
Real Gross Domestic Product															
(billion chained 2009 dollars - SAAR)	**16,903**	**17,031**	**17,164**	**17,286**	**17,386**	*17,508*	*17,634*	*17,763*	*17,883*	*17,986*	*18,081*	*18,175*	**17,096**	*17,573*	*18,032*
Percent change from prior year	**2.0**	**2.2**	**2.3**	**2.6**	**2.9**	*2.8*	*2.7*	*2.8*	*2.9*	*2.7*	*2.5*	*2.3*	**2.3**	*2.8*	*2.6*
GDP Implicit Price Deflator															
(Index, 2009=100)	**112.8**	**113.0**	**113.6**	**114.3**	**114.8**	*115.4*	*116.0*	*116.7*	*117.5*	*118.3*	*119.1*	*119.7*	**113.4**	*115.8*	*118.7*
Percent change from prior year	**2.0**	**1.6**	**1.8**	**1.9**	**1.9**	*2.1*	*2.1*	*2.1*	*2.3*	*2.5*	*2.6*	*2.6*	**1.8**	*2.1*	*2.5*
Real Disposable Personal Income															
(billion chained 2009 dollars - SAAR)	**12,680**	**12,766**	**12,788**	**12,822**	**12,931**	*12,992*	*13,031*	*13,135*	*13,275*	*13,369*	*13,462*	*13,561*	**12,764**	*13,022*	*13,417*
Percent change from prior year	**0.9**	**1.1**	**1.1**	**1.8**	**2.0**	*1.8*	*1.9*	*2.4*	*2.7*	*2.9*	*3.3*	*3.2*	**1.2**	*2.0*	*3.0*
Manufacturing Production Index															
(Index, 2012=100)	**102.0**	**102.7**	**102.2**	**103.6**	**104.0**	*104.8*	*105.1*	*106.1*	*106.9*	*107.5*	*108.1*	*108.8*	**102.6**	*105.0*	*107.8*
Percent change from prior year	**0.6**	**1.9**	**1.2**	**2.1**	**2.0**	*2.0*	*2.8*	*2.4*	*2.8*	*2.6*	*2.9*	*2.5*	**1.5**	*2.3*	*2.7*
Weather															
U.S. Heating Degree-Days	**1,858**	**428**	**65**	**1,480**	**2,130**	*542*	*75*	*1,534*	*2,126*	*484*	*76*	*1,532*	**3,831**	*4,282*	*4,218*
U.S. Cooling Degree-Days	**70**	**402**	**838**	**114**	**51**	*420*	*839*	*89*	*40*	*397*	*843*	*90*	**1,424**	*1,399*	*1,370*

- = no data available

Prices are not adjusted for inflation.

(a) Includes lease condensate.

(b) Total consumption includes Independent Power Producer (IPP) consumption.

(c) Renewable energy includes minor components of non-marketed renewable energy that is neither bought nor sold, either directly or indirectly, as inputs to marketed energy. EIA does not estimate or project end-use consumption of non-marketed renewable energy.

(d) The conversion from physical units to Btu is calculated using a subset of conversion factors used in the calculations of gross energy consumption in EIA's Monthly Energy Review Consequently, the historical data may not precisely match those published in the MER or the Annual Energy Review (AER).

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 Energy Information Administration databases supporting the following reports: *Petroleum Supply Monthly* , DOE/EIA-0109; *Petroleum Supply Annual* , DOE/EIA-0340/2; *Weekly Petroleum Status Report* , DOE/EIA-0208; *Petroleum Marketing Monthly* , DOE/EIA-0380; *Natural Gas Monthly* , DOE/EIA-0130; *Electric Power Monthly* , DOE/EIA-0226; *Quarterly Coal Report* , DOE/EIA-0121; and *International Petroleum Monthly* , DOE/EIA-0520.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model. U.S. macroeconomic projections are based on the IHS Markit model of the U.S. Economy.

Weather projections from National Oceanic and Atmospheric Administration.

Table 2. Energy Prices

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Crude Oil (dollars per barrel)															
West Texas Intermediate Spot Average	**51.64**	**48.15**	**48.16**	**55.27**	**62.90**	*67.29*	*64.87*	*63.00*	*62.50*	*62.00*	*61.31*	*62.00*	**50.79**	*64.53*	*61.95*
Brent Spot Average	**53.57**	**49.59**	**52.09**	**61.42**	**66.84**	*74.07*	*72.52*	*70.69*	*69.00*	*68.00*	*67.00*	*67.00*	**54.15**	*71.06*	*67.74*
U.S. Imported Average	**47.94**	**46.12**	**47.49**	**55.29**	**58.91**	*63.71*	*61.35*	*59.50*	*59.01*	*58.50*	*57.81*	*58.50*	**49.00**	*60.92*	*58.45*
U.S. Refiner Average Acquisition Cost	**49.91**	**47.66**	**48.32**	**56.79**	**62.21**	*66.26*	*63.85*	*62.00*	*61.50*	*61.00*	*60.32*	*61.00*	**50.68**	*63.60*	*60.95*
U.S. Liquid Fuels (cents per gallon)															
Refiner Prices for Resale															
Gasoline	**163**	**165**	**172**	**175**	**186**	*216*	*211*	*196*	*192*	*206*	*202*	*185*	**169**	*202*	*196*
Diesel Fuel	**162**	**155**	**169**	**190**	**199**	*216*	*219*	*216*	*208*	*208*	*211*	*214*	**169**	*213*	*210*
Heating Oil	**154**	**144**	**154**	**179**	**193**	*206*	*210*	*209*	*205*	*197*	*202*	*206*	**160**	*203*	*203*
Refiner Prices to End Users															
Jet Fuel	**158**	**150**	**162**	**181**	**197**	*214*	*216*	*213*	*206*	*204*	*208*	*210*	**163**	*210*	*207*
No. 6 Residual Fuel Oil (a)	**128**	**120**	**124**	**140**	**149**	*158*	*158*	*154*	*152*	*149*	*149*	*150*	**129**	*155*	*150*
Retail Prices Including Taxes															
Gasoline Regular Grade (b)	**233**	**238**	**244**	**251**	**258**	*286*	*289*	*274*	*267*	*285*	*281*	*264*	**242**	*277*	*274*
Gasoline All Grades (b)	**244**	**250**	**255**	**263**	**270**	*296*	*299*	*285*	*278*	*296*	*293*	*276*	**253**	*288*	*286*
On-highway Diesel Fuel	**257**	**255**	**263**	**287**	**302**	*316*	*313*	*313*	*303*	*302*	*305*	*309*	**265**	*311*	*305*
Heating Oil	**247**	**238**	**234**	**265**	**287**	*291*	*296*	*303*	*305*	*289*	*290*	*300*	**251**	*293*	*299*
Natural Gas															
Henry Hub Spot (dollars per thousand cubic feet)	**3.12**	**3.19**	**3.06**	**3.01**	**3.13**	*2.94*	*3.12*	*3.23*	*3.32*	*3.07*	*3.11*	*3.26*	**3.10**	*3.10*	*3.19*
Henry Hub Spot (dollars per million Btu)	**3.01**	**3.08**	**2.95**	**2.90**	**3.02**	*2.84*	*3.01*	*3.11*	*3.20*	*2.96*	*3.00*	*3.14*	**2.99**	*2.99*	*3.08*
U.S. Retail Prices (dollars per thousand cubic feet)															
Industrial Sector	**4.50**	**4.11**	**3.89**	**4.00**	**4.47**	*3.79*	*3.96*	*4.34*	*4.65*	*3.99*	*3.97*	*4.37*	**4.14**	*4.16*	*4.26*
Commercial Sector	**7.71**	**8.33**	**8.69**	**7.56**	**7.66**	*8.02*	*8.58*	*7.89*	*7.82*	*8.28*	*8.67*	*7.96*	**7.87**	*7.89*	*8.03*
Residential Sector	**9.73**	**13.00**	**17.74**	**10.19**	**9.39**	*11.48*	*16.55*	*10.57*	*9.68*	*12.29*	*16.82*	*10.74*	**10.92**	*10.57*	*10.91*
U.S. Electricity															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	**2.08**	**2.12**	**2.07**	**2.04**	**2.06**	*2.23*	*2.24*	*2.21*	*2.24*	*2.22*	*2.23*	*2.20*	**2.08**	*2.19*	*2.22*
Natural Gas	**3.69**	**3.38**	**3.19**	**3.38**	**3.98**	*3.12*	*3.29*	*3.58*	*3.83*	*3.25*	*3.25*	*3.60*	**3.38**	*3.46*	*3.45*
Residual Fuel Oil (c)	**11.16**	**10.60**	**10.03**	**11.93**	**11.47**	*13.79*	*13.81*	*13.44*	*13.36*	*13.67*	*12.90*	*12.58*	**10.97**	*12.85*	*13.15*
Distillate Fuel Oil	**12.74**	**12.23**	**13.13**	**14.54**	**15.83**	*16.57*	*16.82*	*16.79*	*16.26*	*16.10*	*16.28*	*16.57*	**13.26**	*16.28*	*16.31*
Retail Prices (cents per kilowatthour)															
Industrial Sector	**6.64**	**6.89**	**7.27**	**6.79**	**6.79**	*7.01*	*7.52*	*7.05*	*6.97*	*7.09*	*7.60*	*7.13*	**6.91**	*7.10*	*7.21*
Commercial Sector	**10.39**	**10.68**	**11.03**	**10.56**	**10.51**	*10.75*	*11.26*	*10.89*	*10.80*	*10.90*	*11.30*	*10.93*	**10.68**	*10.87*	*10.99*
Residential Sector	**12.59**	**12.99**	**13.19**	**12.75**	**12.57**	*13.08*	*13.40*	*13.11*	*13.09*	*13.72*	*13.85*	*13.45*	**12.90**	*13.05*	*13.53*

- = no data available

Prices are not adjusted for inflation.

(a) Average for all sulfur contents.

(b) Average self-service cash price.

(c) Includes fuel oils No. 4, No. 5, No. 6, and topped crude.

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

Prices exclude taxes unless otherwise noted.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Petroleum Marketing Monthly* , DOE/EIA-0380; *Weekly Petroleum Status Report* , DOE/EIA-0208; *Natural Gas Monthly* , DOE/EIA-0130; *Electric Power Monthly* , DOE/EIA-0226; and *Monthly Energy Review* , DOE/EIA-0035.

WTI and Brent crude oils, and Henry Hub natural gas spot prices from Reuter's News Service (http://www.reuters.com).

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 3a. International Petroleum and Other Liquids Production, Consumption, and Inventories

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Supply (million barrels per day) (a)															
OECD	**27.12**	**26.95**	**27.13**	**28.28**	**28.55**	*29.55*	*29.95*	*30.79*	*31.07*	*31.30*	*31.29*	*31.84*	**27.37**	*29.72*	*31.38*
U.S. (50 States)	**15.02**	**15.35**	**15.53**	**16.49**	**16.77**	*17.55*	*17.94*	*18.50*	*18.77*	*19.04*	*19.09*	*19.45*	**15.60**	*17.70*	*19.09*
Canada	**5.05**	**4.71**	**4.99**	**5.18**	**5.01**	*5.28*	*5.39*	*5.50*	*5.51*	*5.50*	*5.55*	*5.59*	**4.98**	*5.30*	*5.54*
Mexico	**2.35**	**2.34**	**2.19**	**2.16**	**2.18**	*2.20*	*2.20*	*2.20*	*2.19*	*2.17*	*2.16*	*2.15*	**2.26**	*2.19*	*2.17*
Other OECD	**4.70**	**4.54**	**4.43**	**4.44**	**4.60**	*4.51*	*4.41*	*4.60*	*4.61*	*4.59*	*4.49*	*4.64*	**4.53**	*4.53*	*4.58*
Non-OECD	**69.98**	**70.73**	**71.26**	**70.59**	**70.10**	*70.57*	*70.80*	*70.55*	*69.95*	*70.82*	*71.34*	*71.22*	**70.64**	*70.51*	*70.84*
OPEC	**38.84**	**39.32**	**39.68**	**39.28**	**39.24**	*38.85*	*38.93*	*38.91*	*38.82*	*39.09*	*39.38*	*39.55*	**39.28**	*38.98*	*39.21*
Crude Oil Portion	**32.08**	**32.32**	**32.89**	**32.48**	**32.34**	*31.90*	*31.95*	*31.89*	*31.77*	*31.97*	*32.19*	*32.29*	**32.44**	*32.02*	*32.06*
Other Liquids (b)	**6.77**	**7.00**	**6.79**	**6.81**	**6.90**	*6.94*	*6.98*	*7.02*	*7.05*	*7.12*	*7.19*	*7.27*	**6.84**	*6.96*	*7.16*
Eurasia	**14.43**	**14.30**	**14.22**	**14.32**	**14.33**	*14.45*	*14.38*	*14.51*	*14.52*	*14.42*	*14.44*	*14.53*	**14.32**	*14.42*	*14.48*
China	**4.81**	**4.82**	**4.74**	**4.75**	**4.76**	*4.79*	*4.78*	*4.83*	*4.77*	*4.80*	*4.80*	*4.84*	**4.78**	*4.79*	*4.80*
Other Non-OECD	**11.89**	**12.29**	**12.62**	**12.24**	**11.77**	*12.47*	*12.71*	*12.30*	*11.84*	*12.51*	*12.72*	*12.30*	**12.26**	*12.32*	*12.34*
Total World Supply	**97.10**	**97.67**	**98.39**	**98.87**	**98.65**	*100.11*	*100.76*	*101.34*	*101.02*	*102.12*	*102.64*	*103.06*	**98.01**	*100.22*	*102.21*
Non-OPEC Supply	**58.26**	**58.36**	**58.71**	**59.58**	**59.41**	*61.26*	*61.83*	*62.43*	*62.20*	*63.03*	*63.26*	*63.50*	**58.73**	*61.24*	*63.00*
Consumption (million barrels per day) (c)															
OECD	**46.71**	**46.88**	**47.44**	**47.72**	**47.65**	*47.10*	*47.95*	*48.26*	*47.93*	*47.24*	*48.49*	*48.75*	**47.19**	*47.74*	*48.10*
U.S. (50 States)	**19.49**	**20.03**	**19.92**	**20.05**	**20.24**	*20.39*	*20.47*	*20.53*	*20.38*	*20.47*	*20.89*	*20.92*	**19.88**	*20.41*	*20.67*
U.S. Territories	**0.15**	**0.15**	**0.13**	**0.09**	**0.09**	*0.09*	*0.10*	*0.10*	*0.11*	*0.11*	*0.12*	*0.13*	**0.13**	*0.10*	*0.12*
Canada	**2.35**	**2.34**	**2.50**	**2.50**	**2.35**	*2.33*	*2.45*	*2.43*	*2.39*	*2.33*	*2.45*	*2.43*	**2.42**	*2.39*	*2.40*
Europe	**13.86**	**14.29**	**14.74**	**14.44**	**14.06**	*14.36*	*14.83*	*14.53*	*14.14*	*14.36*	*14.88*	*14.57*	**14.34**	*14.45*	*14.49*
Japan	**4.33**	**3.64**	**3.69**	**4.12**	**4.36**	*3.50*	*3.62*	*3.98*	*4.27*	*3.45*	*3.58*	*3.95*	**3.94**	*3.86*	*3.81*
Other OECD	**6.52**	**6.44**	**6.46**	**6.53**	**6.56**	*6.43*	*6.50*	*6.68*	*6.63*	*6.51*	*6.57*	*6.75*	**6.49**	*6.54*	*6.62*
Non-OECD	**50.79**	**51.46**	**51.48**	**51.46**	**52.01**	*52.74*	*52.72*	*52.72*	*53.38*	*54.09*	*54.04*	*54.08*	**51.30**	*52.55*	*53.90*
Eurasia	**4.76**	**4.75**	**5.02**	**4.89**	**4.80**	*4.84*	*5.11*	*4.99*	*4.85*	*4.90*	*5.17*	*5.05*	**4.86**	*4.94*	*4.99*
Europe	**0.69**	**0.70**	**0.72**	**0.72**	**0.71**	*0.71*	*0.73*	*0.73*	*0.72*	*0.72*	*0.74*	*0.74*	**0.70**	*0.72*	*0.73*
China	**13.48**	**13.29**	**13.01**	**13.27**	**13.98**	*13.74*	*13.40*	*13.64*	*14.42*	*14.15*	*13.80*	*14.04*	**13.26**	*13.69*	*14.10*
Other Asia	**12.99**	**13.31**	**13.03**	**13.36**	**13.55**	*13.80*	*13.46*	*13.77*	*14.12*	*14.30*	*13.91*	*14.24*	**13.17**	*13.64*	*14.14*
Other Non-OECD	**18.86**	**19.42**	**19.71**	**19.21**	**18.97**	*19.66*	*20.01*	*19.59*	*19.27*	*20.02*	*20.42*	*20.02*	**19.30**	*19.56*	*19.94*
Total World Consumption	**97.50**	**98.35**	**98.92**	**99.18**	**99.66**	*99.85*	*100.67*	*100.98*	*101.31*	*101.33*	*102.53*	*102.83*	**98.49**	*100.29*	*102.01*
Total Crude Oil and Other Liquids Inventory Net Withdrawals (million barrels per day)															
U.S. (50 States)	**0.00**	**0.22**	**0.34**	**0.91**	**0.37**	*-0.23*	*-0.26*	*0.41*	*-0.29*	*-0.51*	*-0.23*	*0.29*	**0.37**	*0.07*	*-0.18*
Other OECD	**-0.38**	**0.08**	**0.34**	**0.48**	**-0.09**	*-0.01*	*0.06*	*-0.27*	*0.20*	*-0.09*	*0.04*	*-0.18*	**0.13**	*-0.08*	*-0.01*
Other Stock Draws and Balance	**0.77**	**0.38**	**-0.14**	**-1.07**	**0.73**	*-0.02*	*0.11*	*-0.51*	*0.37*	*-0.18*	*0.08*	*-0.34*	**-0.02**	*0.07*	*-0.02*
Total Stock Draw	**0.40**	**0.67**	**0.53**	**0.31**	**1.01**	*-0.27*	*-0.08*	*-0.36*	*0.28*	*-0.79*	*-0.10*	*-0.23*	**0.48**	*0.07*	*-0.21*
End-of-period Commercial Crude Oil and Other Liquids Inventories (million barrels)															
U.S. Commercial Inventory	**1,338**	**1,330**	**1,305**	**1,232**	**1,196**	*1,223*	*1,249*	*1,215*	*1,245*	*1,296*	*1,321*	*1,295*	**1,232**	*1,215*	*1,295*
OECD Commercial Inventory	**3,028**	**3,012**	**2,961**	**2,843**	**2,814**	*2,842*	*2,863*	*2,853*	*2,865*	*2,924*	*2,945*	*2,936*	**2,843**	*2,853*	*2,936*

- = no data available

OECD = Organization for Economic Cooperation and Development: Australia, Austria, Belgium, Canada, Chile, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Latvia, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Turkey, the United Kingdom, the United States.

OPEC = Organization of the Petroleum Exporting Countries: Algeria, Angola, Ecuador, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, Venezuela.

(a) Supply includes production of crude oil (including lease condensates), natural gas plant liquids, biofuels, other liquids, and refinery processing gains.

(b) Includes lease condensate, natural gas plant liquids, other liquids, and refinery processing gain. Includes other unaccounted-for liquids.

(c) Consumption of petroleum by the OECD countries is synonymous with "petroleum product supplied," defined in the glossary of the EIA *Petroleum Supply Monthly* , DOE/EIA-0109.

Consumption of petroleum by the non-OECD countries is "apparent consumption," which includes internal consumption, refinery fuel and loss, and bunkering.

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 Energy Information Administration international energy statistics.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 3b. Non-OPEC Petroleum and Other Liquids Supply (million barrels per day)

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
North America	**22.43**	**22.40**	**22.71**	**23.83**	**23.95**	*25.03*	*25.54*	*26.19*	*26.47*	*26.71*	*26.80*	*27.20*	**22.85**	*25.19*	*26.80*
Canada	**5.05**	**4.71**	**4.99**	**5.18**	**5.01**	*5.28*	*5.39*	*5.50*	*5.51*	*5.50*	*5.55*	*5.59*	**4.98**	*5.30*	*5.54*
Mexico	**2.35**	**2.34**	**2.19**	**2.16**	**2.18**	*2.20*	*2.20*	*2.20*	*2.19*	*2.17*	*2.16*	*2.15*	**2.26**	*2.19*	*2.17*
United States	**15.02**	**15.35**	**15.53**	**16.49**	**16.77**	*17.55*	*17.94*	*18.50*	*18.77*	*19.04*	*19.09*	*19.45*	**15.60**	*17.70*	*19.09*
Central and South America	**4.91**	**5.40**	**5.70**	**5.31**	**4.86**	*5.58*	*5.83*	*5.45*	*5.00*	*5.71*	*5.96*	*5.58*	**5.33**	*5.43*	*5.56*
Argentina	**0.67**	**0.67**	**0.67**	**0.70**	**0.66**	*0.67*	*0.67*	*0.69*	*0.66*	*0.66*	*0.66*	*0.68*	**0.68**	*0.67*	*0.67*
Brazil	**2.95**	**3.44**	**3.73**	**3.32**	**2.94**	*3.61*	*3.87*	*3.45*	*3.06*	*3.75*	*4.00*	*3.58*	**3.36**	*3.47*	*3.60*
Colombia	**0.87**	**0.88**	**0.88**	**0.87**	**0.84**	*0.88*	*0.88*	*0.88*	*0.86*	*0.87*	*0.87*	*0.88*	**0.87**	*0.87*	*0.87*
Other Central and S. America	**0.42**	**0.41**	**0.42**	**0.42**	**0.41**	*0.42*	*0.42*	*0.43*	*0.42*	*0.43*	*0.43*	*0.44*	**0.42**	*0.42*	*0.43*
Europe	**4.21**	**4.05**	**3.92**	**3.96**	**4.08**	*3.96*	*3.86*	*4.03*	*4.03*	*3.99*	*3.88*	*4.01*	**4.04**	*3.98*	*3.98*
Norway	**2.08**	**2.00**	**1.91**	**1.92**	**1.97**	*1.88*	*1.87*	*1.90*	*1.89*	*1.87*	*1.85*	*1.88*	**1.98**	*1.91*	*1.87*
United Kingdom	**1.09**	**1.07**	**1.00**	**1.02**	**1.10**	*1.11*	*1.02*	*1.15*	*1.15*	*1.15*	*1.06*	*1.16*	**1.05**	*1.09*	*1.13*
Eurasia	**14.43**	**14.30**	**14.22**	**14.32**	**14.33**	*14.45*	*14.38*	*14.51*	*14.52*	*14.42*	*14.44*	*14.53*	**14.32**	*14.42*	*14.48*
Azerbaijan	**0.79**	**0.80**	**0.79**	**0.81**	**0.81**	*0.81*	*0.79*	*0.77*	*0.79*	*0.79*	*0.78*	*0.76*	**0.80**	*0.80*	*0.78*
Kazakhstan	**1.87**	**1.87**	**1.86**	**1.92**	**1.90**	*2.00*	*2.01*	*2.08*	*2.09*	*1.98*	*2.02*	*2.09*	**1.88**	*2.00*	*2.05*
Russia	**11.32**	**11.18**	**11.14**	**11.16**	**11.18**	*11.19*	*11.12*	*11.19*	*11.19*	*11.21*	*11.20*	*11.23*	**11.20**	*11.17*	*11.21*
Turkmenistan	**0.28**	**0.28**	**0.28**	**0.28**	**0.27**	*0.29*	*0.29*	*0.29*	*0.28*	*0.28*	*0.28*	*0.28*	**0.28**	*0.28*	*0.28*
Other Eurasia	**0.16**	**0.17**	**0.16**	**0.16**	**0.16**	*0.18*	*0.17*	*0.17*	*0.17*	*0.17*	*0.17*	*0.16*	**0.16**	*0.17*	*0.16*
Middle East	**1.07**	**1.07**	**1.07**	**1.08**	**1.08**	*1.09*	*1.07*	*1.05*	*1.05*	*1.03*	*1.02*	*1.00*	**1.08**	*1.07*	*1.03*
Oman	**0.98**	**0.98**	**0.98**	**0.98**	**0.98**	*0.97*	*0.95*	*0.94*	*0.92*	*0.90*	*0.88*	*0.87*	**0.98**	*0.96*	*0.89*
Asia and Oceania	**9.34**	**9.27**	**9.18**	**9.17**	**9.27**	*9.30*	*9.30*	*9.34*	*9.31*	*9.33*	*9.34*	*9.36*	**9.24**	*9.30*	*9.34*
Australia	**0.35**	**0.36**	**0.37**	**0.35**	**0.38**	*0.38*	*0.38*	*0.39*	*0.41*	*0.42*	*0.44*	*0.45*	**0.36**	*0.38*	*0.43*
China	**4.81**	**4.82**	**4.74**	**4.75**	**4.76**	*4.79*	*4.78*	*4.83*	*4.77*	*4.80*	*4.80*	*4.84*	**4.78**	*4.79*	*4.80*
India	**1.01**	**1.00**	**1.00**	**1.00**	**1.00**	*1.01*	*1.01*	*1.00*	*1.01*	*1.01*	*1.02*	*1.01*	**1.00**	*1.01*	*1.01*
Indonesia	**0.93**	**0.91**	**0.91**	**0.90**	**0.92**	*0.91*	*0.91*	*0.91*	*0.91*	*0.90*	*0.89*	*0.88*	**0.91**	*0.91*	*0.89*
Malaysia	**0.74**	**0.72**	**0.71**	**0.72**	**0.75**	*0.73*	*0.73*	*0.73*	*0.73*	*0.72*	*0.71*	*0.70*	**0.72**	*0.73*	*0.72*
Vietnam	**0.29**	**0.29**	**0.28**	**0.27**	**0.27**	*0.26*	*0.27*	*0.26*	*0.26*	*0.26*	*0.26*	*0.26*	**0.28**	*0.27*	*0.26*
Africa	**1.86**	**1.86**	**1.91**	**1.91**	**1.84**	*1.85*	*1.85*	*1.85*	*1.83*	*1.83*	*1.83*	*1.83*	**1.88**	*1.85*	*1.83*
Egypt	**0.64**	**0.65**	**0.66**	**0.66**	**0.63**	*0.63*	*0.63*	*0.63*	*0.58*	*0.58*	*0.58*	*0.58*	**0.65**	*0.63*	*0.58*
South Sudan	**0.15**	**0.15**	**0.15**	**0.15**	**0.12**	*0.12*	*0.12*	*0.12*	*0.12*	*0.12*	*0.12*	*0.12*	**0.15**	*0.12*	*0.12*
Total non-OPEC liquids	**58.26**	**58.36**	**58.71**	**59.58**	**59.41**	*61.26*	*61.83*	*62.43*	*62.20*	*63.03*	*63.26*	*63.50*	**58.73**	*61.24*	*63.00*
OPEC non-crude liquids	**6.77**	**7.00**	**6.79**	**6.81**	**6.90**	*6.94*	*6.98*	*7.02*	*7.05*	*7.12*	*7.19*	*7.27*	**6.84**	*6.96*	*7.16*
Non-OPEC + OPEC non-crude	**65.02**	**65.36**	**65.50**	**66.39**	**66.30**	*68.21*	*68.81*	*69.45*	*69.25*	*70.15*	*70.44*	*70.77*	**65.57**	*68.20*	*70.16*
Unplanned non-OPEC Production Outages	**0.43**	**0.68**	**0.63**	**0.54**	**0.55**	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	**0.57**	*n/a*	*n/a*

- = no data available

OPEC = Organization of the Petroleum Exporting Countries: Algeria, Angola, Ecuador, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, Venezuela.

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

Supply includes production of crude oil (including lease condensates), natural gas plant liquids, biofuels, other liquids, and refinery processing gains.

Not all countries are shown in each region and sum of reported country volumes may not equal regional volumes.

Historical data: Latest data available from Energy Information Administration international energy statistics.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 3c. OPEC Crude Oil (excluding condensates) Supply (million barrels per day)

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Crude Oil															
Algeria	**1.04**	**1.03**	**1.03**	**1.00**	**1.02**	-	-	-	-	-	-	-	**1.03**	-	-
Angola	**1.64**	**1.66**	**1.66**	**1.63**	**1.59**	-	-	-	-	-	-	-	**1.65**	-	-
Ecudaor	**0.53**	**0.53**	**0.54**	**0.52**	**0.52**	-	-	-	-	-	-	-	**0.53**	-	-
Equatorial Guinea	**0.14**	**0.14**	**0.13**	**0.13**	**0.14**	-	-	-	-	-	-	-	**0.13**	-	-
Gabon	**0.19**	**0.20**	**0.20**	**0.20**	**0.20**	-	-	-	-	-	-	-	**0.20**	-	-
Iran	**3.80**	**3.81**	**3.83**	**3.84**	**3.83**	-	-	-	-	-	-	-	**3.82**	-	-
Iraq	**4.46**	**4.44**	**4.50**	**4.36**	**4.46**	-	-	-	-	-	-	-	**4.44**	-	-
Kuwait	**2.74**	**2.71**	**2.72**	**2.72**	**2.71**	-	-	-	-	-	-	-	**2.72**	-	-
Libya	**0.65**	**0.72**	**0.94**	**0.95**	**1.00**	-	-	-	-	-	-	-	**0.82**	-	-
Nigeria	**1.38**	**1.49**	**1.68**	**1.72**	**1.72**	-	-	-	-	-	-	-	**1.57**	-	-
Qatar	**0.62**	**0.61**	**0.61**	**0.60**	**0.61**	-	-	-	-	-	-	-	**0.61**	-	-
Saudi Arabia	**9.98**	**10.09**	**10.18**	**10.12**	**10.10**	-	-	-	-	-	-	-	**10.09**	-	-
United Arab Emirates	**2.92**	**2.90**	**2.92**	**2.90**	**2.88**	-	-	-	-	-	-	-	**2.91**	-	-
Venezuela	**1.99**	**1.97**	**1.95**	**1.78**	**1.57**	-	-	-	-	-	-	-	**1.92**	-	-
OPEC Total	**32.08**	**32.32**	**32.89**	**32.48**	**32.34**	*31.90*	*31.95*	*31.89*	*31.77*	*31.97*	*32.19*	*32.29*	**32.44**	*32.02*	*32.06*
Other Liquids (a)	**6.77**	**7.00**	**6.79**	**6.81**	**6.90**	*6.94*	*6.98*	*7.02*	*7.05*	*7.12*	*7.19*	*7.27*	**6.84**	*6.96*	*7.16*
Total OPEC Supply	**38.84**	**39.32**	**39.68**	**39.28**	**39.24**	*38.85*	*38.93*	*38.91*	*38.82*	*39.09*	*39.38*	*39.55*	**39.28**	*38.98*	*39.21*
Crude Oil Production Capacity															
Africa	**5.04**	**5.24**	**5.64**	**5.64**	**5.66**	*5.46*	*5.48*	*5.51*	*5.49*	*5.51*	*5.56*	*5.63*	**5.39**	*5.53*	*5.55*
Middle East	**26.70**	**26.69**	**26.71**	**26.64**	**26.51**	*26.48*	*26.60*	*26.54*	*26.06*	*26.05*	*26.08*	*26.11*	**26.69**	*26.53*	*26.07*
South America	**2.53**	**2.51**	**2.49**	**2.31**	**2.09**	*1.87*	*1.62*	*1.51*	*1.49*	*1.48*	*1.48*	*1.45*	**2.46**	*1.77*	*1.47*
OPEC Total	**34.27**	**34.44**	**34.84**	**34.58**	**34.26**	*33.81*	*33.70*	*33.56*	*33.04*	*33.04*	*33.12*	*33.20*	**34.54**	*33.83*	*33.10*
Surplus Crude Oil Production Capacity															
Africa	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	**0.00**	*0.00*	*0.00*
Middle East	**2.19**	**2.13**	**1.95**	**2.10**	**1.91**	*1.90*	*1.76*	*1.67*	*1.27*	*1.07*	*0.93*	*0.91*	**2.09**	*1.81*	*1.04*
South America	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	**0.00**	*0.00*	*0.00*
OPEC Total	**2.19**	**2.13**	**1.95**	**2.10**	**1.92**	*1.90*	*1.76*	*1.67*	*1.27*	*1.07*	*0.93*	*0.91*	**2.09**	*1.81*	*1.04*
Unplanned OPEC Production Outages	**1.81**	**1.60**	**1.17**	**1.21**	**1.21**	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	*n/a*	**1.45**	*n/a*	*n/a*

- = no data available

OPEC = Organization of the Petroleum Exporting Countries: Algeria, Angola, Equatorial Guinea, Gabon, Libya, and Nigeria (Africa); Ecuador and Venezuela (South America); Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates (Middle East).

(a) Includes lease condensate, natural gas plant liquids, other liquids, and refinery processing gain. Includes other unaccounted-for liquids.

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 Energy Information Administration international energy statistics.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 3d. World Petroleum and Other Liquids Consumption (million barrels per day)

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019						
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
North America	**23.81**	**24.35**	**24.33**	**24.44**	**24.49**	*24.63*	*24.83*	*24.91*	*24.69*	*24.74*	*25.26*	*25.31*	**24.23**	*24.72*	*25.00*
Canada	**2.35**	**2.34**	**2.50**	**2.50**	**2.35**	*2.33*	*2.45*	*2.43*	*2.39*	*2.33*	*2.45*	*2.43*	**2.42**	*2.39*	*2.40*
Mexico	**1.96**	**1.98**	**1.90**	**1.88**	**1.89**	*1.90*	*1.90*	*1.94*	*1.91*	*1.92*	*1.92*	*1.95*	**1.93**	*1.91*	*1.92*
United States	**19.49**	**20.03**	**19.92**	**20.05**	**20.24**	*20.39*	*20.47*	*20.53*	*20.38*	*20.47*	*20.89*	*20.92*	**19.88**	*20.41*	*20.67*
Central and South America	**6.98**	**7.04**	**7.12**	**7.05**	**6.83**	*6.99*	*7.10*	*7.11*	*6.94*	*7.14*	*7.27*	*7.28*	**7.05**	*7.01*	*7.16*
Brazil	**3.02**	**3.01**	**3.09**	**3.10**	**3.00**	*3.08*	*3.17*	*3.19*	*3.11*	*3.20*	*3.30*	*3.34*	**3.06**	*3.11*	*3.24*
Europe	**14.52**	**14.95**	**15.41**	**15.12**	**14.73**	*15.03*	*15.51*	*15.22*	*14.82*	*15.04*	*15.58*	*15.27*	**15.00**	*15.13*	*15.18*
Eurasia	**4.80**	**4.79**	**5.06**	**4.93**	**4.83**	*4.88*	*5.16*	*5.03*	*4.89*	*4.94*	*5.22*	*5.09*	**4.89**	*4.98*	*5.04*
Russia	**3.61**	**3.62**	**3.82**	**3.69**	**3.61**	*3.68*	*3.89*	*3.76*	*3.66*	*3.73*	*3.94*	*3.81*	**3.68**	*3.73*	*3.78*
Middle East	**8.20**	**8.74**	**9.07**	**8.45**	**8.33**	*8.90*	*9.25*	*8.63*	*8.48*	*9.05*	*9.40*	*8.78*	**8.62**	*8.78*	*8.93*
Asia and Oceania	**34.83**	**34.17**	**33.73**	**34.87**	**36.01**	*34.99*	*34.49*	*35.58*	*36.97*	*35.91*	*35.35*	*36.47*	**34.40**	*35.27*	*36.17*
China	**13.48**	**13.29**	**13.01**	**13.27**	**13.98**	*13.74*	*13.40*	*13.64*	*14.42*	*14.15*	*13.80*	*14.04*	**13.26**	*13.69*	*14.10*
Japan	**4.33**	**3.64**	**3.69**	**4.12**	**4.36**	*3.50*	*3.62*	*3.98*	*4.27*	*3.45*	*3.58*	*3.95*	**3.94**	*3.86*	*3.81*
India	**4.40**	**4.64**	**4.42**	**4.75**	**4.77**	*4.93*	*4.66*	*4.95*	*5.20*	*5.28*	*4.95*	*5.26*	**4.55**	*4.83*	*5.17*
Africa	**4.34**	**4.30**	**4.19**	**4.31**	**4.43**	*4.41*	*4.32*	*4.48*	*4.50*	*4.51*	*4.44*	*4.61*	**4.29**	*4.41*	*4.52*
Total OECD Liquid Fuels Consumption	**46.71**	**46.88**	**47.44**	**47.72**	**47.65**	*47.10*	*47.95*	*48.26*	*47.93*	*47.24*	*48.49*	*48.75*	**47.19**	*47.74*	*48.10*
Total non-OECD Liquid Fuels Consumption	**50.79**	**51.46**	**51.48**	**51.46**	**52.01**	*52.74*	*52.72*	*52.72*	*53.38*	*54.09*	*54.04*	*54.08*	**51.30**	*52.55*	*53.90*
Total World Liquid Fuels Consumption	**97.50**	**98.35**	**98.92**	**99.18**	**99.66**	*99.85*	*100.67*	*100.98*	*101.31*	*101.33*	*102.53*	*102.83*	**98.49**	*100.29*	*102.01*
Oil-weighted Real Gross Domestic Product (a)															
World Index, 2015 Q1 = 100	**105.7**	**106.5**	**107.3**	**108.2**	**109.2**	*110.0*	*110.8*	*111.7*	*112.7*	*113.5*	*114.3*	*115.2*	**106.9**	*110.4*	*113.9*
Percent change from prior year	**3.6**	**2.9**	**3.1**	**3.1**	**3.3**	*3.3*	*3.2*	*3.2*	*3.2*	*3.2*	*3.2*	*3.1*	**3.2**	*3.3*	*3.1*
OECD Index, 2015 Q1 = 100	**103.9**	**104.5**	**105.1**	**105.8**	**106.5**	*107.1*	*107.6*	*108.3*	*109.0*	*109.4*	*109.8*	*110.2*	**104.8**	*107.4*	*109.6*
Percent change from prior year	**3.0**	**2.1**	**2.4**	**2.3**	**2.6**	*2.5*	*2.4*	*2.3*	*2.3*	*2.1*	*2.1*	*1.8*	**2.5**	*2.4*	*2.1*
Non-OECD Index, 2015 Q1 = 100	**107.5**	**108.5**	**109.5**	**110.6**	**111.8**	*112.8*	*113.9*	*115.1*	*116.4*	*117.5*	*118.7*	*120.0*	**109.0**	*113.4*	*118.2*
Percent change from prior year	**4.2**	**3.6**	**3.8**	**3.8**	**4.0**	*4.0*	*4.0*	*4.1*	*4.1*	*4.1*	*4.2*	*4.2*	**3.8**	*4.1*	*4.2*
Real U.S. Dollar Exchange Rate (a)															
Index, 2015 Q1 = 100	**104.95**	**103.52**	**102.01**	**102.38**	**100.72**	*101.67*	*101.76*	*100.74*	*100.22*	*100.00*	*99.80*	*99.57*	**103.22**	*101.22*	*99.90*
Percent change from prior year	**-0.2**	**0.3**	**-1.0**	**-2.4**	**-4.0**	*-1.8*	*-0.2*	*-1.6*	*-0.5*	*-1.6*	*-1.9*	*-1.2*	**-0.8**	*-1.9*	*-1.3*

- = no data available

OECD = Organization for Economic Cooperation and Development: Australia, Austria, Belgium, Canada, Chile, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Latvia, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, South Korea, Spain, Sweden, Switzerland, Turkey, the United Kingdom, the United States.

(a) Weighted geometric mean of real indices for various countries with weights equal to each country's share of world oil consumption in the base period. Exchange rate is measured in foreign currency per U.S. dollar. GDP and exchange rate data are from Oxford Economics, and oil consumption data are from EIA.

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 Energy Information Administration international energy statistics.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 4a. U.S. Petroleum and Other Liquids Supply, Consumption, and Inventories

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Supply (million barrels per day)															
Crude Oil Supply															
Domestic Production (a)	**9.01**	**9.13**	**9.33**	**9.93**	**10.24**	*10.72*	*10.88*	*11.31*	*11.64*	*11.75*	*11.67*	*11.97*	**9.35**	*10.79*	*11.76*
Alaska	**0.52**	**0.50**	**0.45**	**0.51**	**0.51**	*0.48*	*0.43*	*0.49*	*0.51*	*0.49*	*0.44*	*0.50*	**0.49**	*0.48*	*0.48*
Federal Gulf of Mexico (b)	**1.75**	**1.66**	**1.72**	**1.59**	**1.68**	*1.77*	*1.70*	*1.80*	*1.88*	*1.89*	*1.77*	*1.87*	**1.68**	*1.74*	*1.85*
Lower 48 States (excl GOM)	**6.74**	**6.98**	**7.16**	**7.84**	**8.05**	*8.47*	*8.75*	*9.02*	*9.25*	*9.38*	*9.45*	*9.60*	**7.18**	*8.58*	*9.42*
Crude Oil Net Imports (c)	**7.24**	**7.24**	**6.63**	**6.08**	**6.18**	*6.12*	*6.14*	*5.22*	*5.23*	*5.53*	*5.35*	*4.62*	**6.79**	*5.91*	*5.18*
SPR Net Withdrawals	**0.04**	**0.14**	**0.06**	**0.12**	**-0.03**	*0.07*	*0.02*	*0.04*	*0.04*	*0.04*	*0.04*	*0.02*	**0.09**	*0.03*	*0.04*
Commercial Inventory Net Withdrawals	**-0.59**	**0.41**	**0.34**	**0.52**	**-0.03**	*-0.05*	*0.11*	*-0.03*	*-0.54*	*-0.02*	*0.08*	*-0.09*	**0.17**	*0.00*	*-0.14*
Crude Oil Adjustment (d)	**0.22**	**0.21**	**0.24**	**0.07**	**0.05**	*0.21*	*0.21*	*0.15*	*0.19*	*0.19*	*0.21*	*0.15*	**0.18**	*0.16*	*0.19*
Total Crude Oil Input to Refineries	**15.91**	**17.13**	**16.60**	**16.72**	**16.41**	*17.07*	*17.37*	*16.69*	*16.55*	*17.50*	*17.35*	*16.67*	**16.59**	*16.89*	*17.02*
Other Supply															
Refinery Processing Gain	**1.09**	**1.13**	**1.07**	**1.12**	**1.11**	*1.13*	*1.14*	*1.12*	*1.09*	*1.13*	*1.13*	*1.12*	**1.10**	*1.12*	*1.11*
Natural Gas Plant Liquids Production	**3.54**	**3.70**	**3.72**	**3.99**	**4.01**	*4.26*	*4.46*	*4.61*	*4.62*	*4.68*	*4.80*	*4.86*	**3.74**	*4.34*	*4.74*
Renewables and Oxygenate Production (e)	**1.17**	**1.16**	**1.19**	**1.23**	**1.21**	*1.20*	*1.21*	*1.21*	*1.18*	*1.22*	*1.24*	*1.24*	**1.19**	*1.21*	*1.22*
Fuel Ethanol Production	**1.04**	**1.01**	**1.02**	**1.06**	**1.05**	*1.04*	*1.03*	*1.03*	*1.03*	*1.04*	*1.04*	*1.05*	**1.03**	*1.04*	*1.04*
Petroleum Products Adjustment (f)	**0.21**	**0.22**	**0.21**	**0.22**	**0.21**	*0.25*	*0.25*	*0.25*	*0.25*	*0.26*	*0.26*	*0.26*	**0.22**	*0.24*	*0.25*
Product Net Imports (c)	**-2.96**	**-2.99**	**-2.80**	**-3.49**	**-3.13**	*-3.26*	*-3.57*	*-3.75*	*-3.52*	*-3.78*	*-3.53*	*-3.59*	**-3.06**	*-3.43*	*-3.61*
Hydrocarbon Gas Liquids	**-1.20**	**-1.18**	**-1.16**	**-1.29**	**-1.22**	*-1.44*	*-1.48*	*-1.63*	*-1.61*	*-1.68*	*-1.62*	*-1.70*	**-1.21**	*-1.44*	*-1.65*
Unfinished Oils	**0.37**	**0.34**	**0.38**	**0.38**	**0.39**	*0.34*	*0.38*	*0.32*	*0.38*	*0.39*	*0.40*	*0.31*	**0.37**	*0.35*	*0.37*
Other HC/Oxygenates	**-0.13**	**-0.09**	**-0.09**	**-0.13**	**-0.18**	*-0.09*	*-0.07*	*-0.08*	*-0.12*	*-0.09*	*-0.08*	*-0.08*	**-0.11**	*-0.11*	*-0.09*
Motor Gasoline Blend Comp.	**0.43**	**0.68**	**0.64**	**0.36**	**0.50**	*0.65*	*0.46*	*0.40*	*0.50*	*0.66*	*0.49*	*0.45*	**0.53**	*0.50*	*0.53*
Finished Motor Gasoline	**-0.66**	**-0.62**	**-0.63**	**-0.94**	**-0.94**	*-0.64*	*-0.64*	*-0.83*	*-0.92*	*-0.79*	*-0.59*	*-0.77*	**-0.71**	*-0.76*	*-0.77*
Jet Fuel	**-0.04**	**-0.07**	**-0.01**	**0.02**	**-0.10**	*-0.10*	*-0.13*	*-0.04*	*0.01*	*-0.08*	*-0.13*	*-0.03*	**-0.02**	*-0.09*	*-0.06*
Distillate Fuel Oil	**-1.01**	**-1.36**	**-1.32**	**-1.22**	**-0.87**	*-1.24*	*-1.37*	*-1.17*	*-1.09*	*-1.35*	*-1.30*	*-1.04*	**-1.23**	*-1.16*	*-1.20*
Residual Fuel Oil	**-0.10**	**-0.11**	**-0.12**	**-0.09**	**-0.10**	*-0.08*	*-0.07*	*-0.09*	*-0.06*	*-0.13*	*-0.09*	*-0.11*	**-0.10**	*-0.08*	*-0.10*
Other Oils (g)	**-0.61**	**-0.60**	**-0.50**	**-0.59**	**-0.62**	*-0.66*	*-0.64*	*-0.63*	*-0.62*	*-0.70*	*-0.63*	*-0.62*	**-0.57**	*-0.64*	*-0.64*
Product Inventory Net Withdrawals	**0.56**	**-0.33**	**-0.07**	**0.27**	**0.42**	*-0.25*	*-0.40*	*0.40*	*0.21*	*-0.54*	*-0.35*	*0.37*	**0.11**	*0.04*	*-0.08*
Total Supply	**19.52**	**20.03**	**19.92**	**20.05**	**20.24**	*20.39*	*20.47*	*20.53*	*20.38*	*20.47*	*20.89*	*20.92*	**19.88**	*20.41*	*20.67*
Consumption (million barrels per day)															
Hydrocarbon Gas Liquids	**2.79**	**2.45**	**2.33**	**2.81**	**3.22**	*2.69*	*2.74*	*3.20*	*3.29*	*2.82*	*2.99*	*3.35*	**2.60**	*2.96*	*3.11*
Unfinished Oils	**0.02**	**0.02**	**-0.01**	**-0.04**	**0.13**	*-0.02*	*-0.03*	*0.01*	*0.00*	*-0.03*	*-0.03*	*0.01*	**0.00**	*0.02*	*-0.01*
Motor Gasoline	**8.95**	**9.54**	**9.56**	**9.23**	**9.01**	*9.54*	*9.56*	*9.25*	*9.00*	*9.54*	*9.62*	*9.35*	**9.32**	*9.34*	*9.38*
Fuel Ethanol blended into Motor Gasoline	**0.90**	**0.96**	**0.96**	**0.95**	**0.91**	*0.98*	*0.98*	*0.95*	*0.92*	*0.98*	*0.98*	*0.96*	**0.94**	*0.95*	*0.96*
Jet Fuel	**1.60**	**1.68**	**1.71**	**1.73**	**1.64**	*1.72*	*1.72*	*1.73*	*1.70*	*1.72*	*1.73*	*1.74*	**1.68**	*1.70*	*1.72*
Distillate Fuel Oil	**3.95**	**3.91**	**3.87**	**4.02**	**4.18**	*4.07*	*3.97*	*4.07*	*4.14*	*4.09*	*4.08*	*4.21*	**3.94**	*4.07*	*4.13*
Residual Fuel Oil	**0.37**	**0.37**	**0.30**	**0.39**	**0.28**	*0.34*	*0.34*	*0.32*	*0.37*	*0.32*	*0.34*	*0.31*	**0.36**	*0.32*	*0.33*
Other Oils (g)	**1.83**	**2.06**	**2.15**	**1.91**	**1.78**	*2.05*	*2.17*	*1.96*	*1.88*	*2.01*	*2.15*	*1.96*	**1.99**	*1.99*	*2.00*
Total Consumption	**19.49**	**20.03**	**19.92**	**20.05**	**20.24**	*20.39*	*20.47*	*20.53*	*20.38*	*20.47*	*20.89*	*20.92*	**19.88**	*20.41*	*20.67*
Total Petroleum and Other Liquids Net Imports	**4.28**	**4.25**	**3.83**	**2.59**	**3.05**	*2.85*	*2.57*	*1.47*	*1.70*	*1.76*	*1.82*	*1.02*	**3.73**	*2.48*	*1.57*
End-of-period Inventories (million barrels)															
Commercial Inventory															
Crude Oil (excluding SPR)	**537.9**	**500.4**	**469.1**	**421.1**	**423.4**	*427.9*	*417.4*	*420.5*	*469.5*	*471.3*	*464.3*	*472.6*	**421.1**	*420.5*	*472.6*
Hydrocarbon Gas Liquids	**148.1**	**190.6**	**229.7**	**190.9**	**139.3**	*185.9*	*232.1*	*183.8*	*150.7*	*202.1*	*242.5*	*197.0*	**190.9**	*183.8*	*197.0*
Unfinished Oils	**89.3**	**88.7**	**89.2**	**86.3**	**98.3**	*91.0*	*86.9*	*80.0*	*90.6*	*89.1*	*87.1*	*80.1*	**86.3**	*80.0*	*80.1*
Other HC/Oxygenates	**32.6**	**29.3**	**28.3**	**30.1**	**30.5**	*29.2*	*28.5*	*29.2*	*30.9*	*29.9*	*29.2*	*29.8*	**30.1**	*29.2*	*29.8*
Total Motor Gasoline	**239.0**	**237.9**	**223.8**	**236.7**	**239.6**	*237.8*	*229.3*	*240.3*	*243.3*	*239.7*	*234.2*	*246.9*	**236.7**	*240.3*	*246.9*
Finished Motor Gasoline	**21.7**	**22.5**	**21.8**	**24.6**	**23.1**	*23.9*	*24.1*	*27.5*	*25.0*	*24.0*	*24.7*	*25.4*	**24.6**	*27.5*	*25.4*
Motor Gasoline Blend Comp.	**217.2**	**215.5**	**202.0**	**212.1**	**216.5**	*213.9*	*205.1*	*212.9*	*218.4*	*215.7*	*209.5*	*221.5*	**212.1**	*212.9*	*221.5*
Jet Fuel	**42.3**	**41.0**	**43.3**	**41.2**	**40.4**	*40.6*	*42.2*	*40.1*	*40.4*	*42.0*	*43.7*	*41.6*	**41.2**	*40.1*	*41.6*
Distillate Fuel Oil	**151.1**	**151.6**	**137.5**	**145.6**	**130.4**	*119.7*	*126.4*	*131.2*	*121.7*	*124.5*	*129.6*	*134.7*	**145.6**	*131.2*	*134.7*
Residual Fuel Oil	**40.8**	**35.2**	**35.9**	**29.4**	**35.0**	*33.5*	*34.9*	*36.4*	*39.0*	*39.7*	*38.5*	*38.7*	**29.4**	*36.4*	*38.7*
Other Oils (g)	**56.6**	**55.2**	**47.9**	**50.9**	**59.3**	*57.8*	*51.7*	*53.7*	*59.1*	*57.6*	*51.7*	*53.8*	**50.9**	*53.7*	*53.8*
Total Commercial Inventory	**1,338**	**1,330**	**1,305**	**1,232**	**1,196**	*1,223*	*1,249*	*1,215*	*1,245*	*1,296*	*1,321*	*1,295*	**1,232**	*1,215*	*1,295*
Crude Oil in SPR	**692**	**679**	**674**	**663**	**665**	*659*	*657*	*653*	*649*	*645*	*641*	*639*	**663**	*653*	*639*

- = no data available

(a) Includes lease condensate.

(b) Crude oil production from U.S. Federal leases in the Gulf of Mexico (GOM).

(c) Net imports equals gross imports minus gross exports.

(d) Crude oil adjustment balances supply and consumption and was previously referred to as "Unaccounted for Crude Oil."

(e) Renewables and oxygenate production includes pentanes plus, oxygenates (excluding fuel ethanol), and renewable fuels.

(f) Petroleum products adjustment includes hydrogen/oxygenates/renewables/other hydrocarbons, motor gasoline blend components, and finished motor gasoline.

(g) "Other Oils" inludes aviation gasoline blend components, finished aviation gasoline, kerosene, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt and road oil, still gas, and miscellaneous products.

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

SPR: Strategic Petroleum Reserve

HC: Hydrocarbons

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Petroleum Supply Monthly* , DOE/EIA-0109; *Petroleum Supply Annual* , DOE/EIA-0340/2; and *Weekly Petroleum Status Report* , DOE/EIA-0208.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 4b. U.S. Hydrocarbon Gas Liquids (HGL) and Petroleum Refinery Balances (million barrels per day, except inventories and utilization factor)

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
HGL Production															
Natural Gas Processing Plants															
Ethane	**1.33**	**1.39**	**1.34**	**1.56**	**1.59**	*1.67*	*1.77*	*1.90*	*1.88*	*1.88*	*1.97*	*2.03*	**1.41**	*1.73*	*1.94*
Propane	**1.16**	**1.21**	**1.23**	**1.28**	**1.29**	*1.36*	*1.40*	*1.43*	*1.46*	*1.47*	*1.48*	*1.49*	**1.22**	*1.37*	*1.48*
Butanes	**0.63**	**0.65**	**0.67**	**0.69**	**0.69**	*0.72*	*0.76*	*0.77*	*0.78*	*0.79*	*0.80*	*0.80*	**0.66**	*0.73*	*0.79*
Natural Gasoline (Pentanes Plus)	**0.41**	**0.45**	**0.48**	**0.46**	**0.44**	*0.50*	*0.53*	*0.52*	*0.50*	*0.53*	*0.55*	*0.53*	**0.45**	*0.50*	*0.53*
Refinery and Blender Net Production															
Ethane/Ethylene	**0.00**	**0.01**	**0.01**	**0.01**	**0.01**	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.01*	*0.00*	**0.01**	*0.01*	*0.00*
Propane	**0.29**	**0.32**	**0.30**	**0.32**	**0.30**	*0.33*	*0.32*	*0.31*	*0.30*	*0.33*	*0.32*	*0.32*	**0.31**	*0.31*	*0.32*
Propylene (refinery-grade)	**0.27**	**0.29**	**0.27**	**0.30**	**0.28**	*0.29*	*0.28*	*0.29*	*0.28*	*0.29*	*0.28*	*0.28*	**0.29**	*0.28*	*0.28*
Butanes/Butylenes	**-0.09**	**0.27**	**0.16**	**-0.22**	**-0.11**	*0.27*	*0.19*	*-0.20*	*-0.08*	*0.26*	*0.19*	*-0.20*	**0.03**	*0.04*	*0.04*
Renewable Fuels and Oxygenate Plant Net Production															
Natural Gasoline (Pentanes Plus)	**-0.02**	**-0.02**	**-0.02**	**-0.02**	**-0.02**	*-0.02*	*-0.02*	*-0.02*	*-0.02*	*-0.02*	*-0.02*	*-0.02*	**-0.02**	*-0.02*	*-0.02*
HGL Net Imports															
Ethane	**-0.15**	**-0.16**	**-0.20**	**-0.21**	**-0.22**	*-0.24*	*-0.26*	*-0.28*	*-0.28*	*-0.28*	*-0.28*	*-0.30*	**-0.18**	*-0.25*	*-0.28*
Propane/Propylene	**-0.79**	**-0.71**	**-0.68**	**-0.83**	**-0.72**	*-0.81*	*-0.77*	*-0.93*	*-0.85*	*-0.94*	*-0.89*	*-0.95*	**-0.75**	*-0.81*	*-0.91*
Butanes/Butylenes	**-0.09**	**-0.12**	**-0.11**	**-0.11**	**-0.10**	*-0.17*	*-0.21*	*-0.18*	*-0.22*	*-0.21*	*-0.19*	*-0.19*	**-0.11**	*-0.16*	*-0.20*
Natural Gasoline (Pentanes Plus)	**-0.18**	**-0.18**	**-0.16**	**-0.14**	**-0.18**	*-0.22*	*-0.24*	*-0.24*	*-0.26*	*-0.25*	*-0.26*	*-0.26*	**-0.16**	*-0.22*	*-0.26*
HGL Refinery and Blender Net Inputs															
Butanes/Butylenes	**0.43**	**0.30**	**0.33**	**0.50**	**0.45**	*0.31*	*0.33*	*0.51*	*0.41*	*0.31*	*0.33*	*0.51*	**0.39**	*0.40*	*0.39*
Natural Gasoline (Pentanes Plus)	**0.16**	**0.18**	**0.18**	**0.19**	**0.15**	*0.17*	*0.18*	*0.18*	*0.17*	*0.18*	*0.18*	*0.18*	**0.18**	*0.17*	*0.18*
HGL Consumption															
Ethane/Ethylene	**1.19**	**1.23**	**1.13**	**1.33**	**1.44**	*1.43*	*1.52*	*1.64*	*1.62*	*1.59*	*1.71*	*1.77*	**1.22**	*1.51*	*1.67*
Propane	**1.05**	**0.60**	**0.67**	**0.85**	**1.16**	*0.65*	*0.66*	*0.97*	*1.10*	*0.59*	*0.66*	*0.98*	**0.79**	*0.86*	*0.83*
Propylene (refinery-grade)	**0.34**	**0.31**	**0.28**	**0.32**	**0.32**	*0.30*	*0.30*	*0.30*	*0.31*	*0.31*	*0.30*	*0.29*	**0.31**	*0.30*	*0.30*
Butanes/Butylenes	**0.12**	**0.23**	**0.18**	**0.16**	**0.20**	*0.24*	*0.20*	*0.20*	*0.19*	*0.26*	*0.25*	*0.22*	**0.17**	*0.21*	*0.23*
Natural Gasoline (Pentanes Plus)	**0.10**	**0.08**	**0.08**	**0.15**	**0.10**	*0.06*	*0.07*	*0.08*	*0.07*	*0.07*	*0.07*	*0.08*	**0.10**	*0.08*	*0.07*
HGL Inventories (million barrels)															
Ethane	**49.65**	**51.89**	**51.77**	**57.73**	**51.41**	*50.85*	*49.79*	*50.08*	*46.60*	*49.22*	*47.49*	*46.60*	**52.78**	*50.53*	*47.48*
Propane	**40.23**	**57.06**	**71.59**	**62.37**	**33.83**	*52.51*	*78.18*	*62.12*	*42.89*	*65.23*	*86.59*	*74.12*	**62.37**	*62.12*	*74.12*
Propylene (refinery-grade)	**3.75**	**4.01**	**5.21**	**4.82**	**3.82**	*4.56*	*4.81*	*5.07*	*4.18*	*4.00*	*4.30*	*4.95*	**4.82**	*5.07*	*4.95*
Butanes/Butylenes	**31.68**	**57.24**	**76.10**	**47.95**	**32.02**	*56.33*	*75.29*	*45.57*	*35.27*	*60.11*	*79.07*	*49.35*	**47.95**	*45.57*	*49.35*
Natural Gasoline (Pentanes Plus)	**21.49**	**20.55**	**23.40**	**20.14**	**19.36**	*21.90*	*23.46*	*22.45*	*21.23*	*23.47*	*24.98*	*23.81*	**20.14**	*22.45*	*23.81*
Refinery and Blender Net Inputs															
Crude Oil	**15.91**	**17.13**	**16.60**	**16.72**	**16.41**	*17.07*	*17.37*	*16.69*	*16.55*	*17.50*	*17.35*	*16.67*	**16.59**	*16.89*	*17.02*
Hydrocarbon Gas Liquids	**0.58**	**0.48**	**0.51**	**0.69**	**0.61**	*0.48*	*0.51*	*0.69*	*0.58*	*0.48*	*0.51*	*0.69*	**0.57**	*0.57*	*0.57*
Other Hydrocarbons/Oxygenates	**1.16**	**1.24**	**1.22**	**1.21**	**1.16**	*1.28*	*1.32*	*1.30*	*1.21*	*1.32*	*1.35*	*1.33*	**1.21**	*1.26*	*1.30*
Unfinished Oils	**0.25**	**0.33**	**0.38**	**0.45**	**0.12**	*0.44*	*0.46*	*0.39*	*0.26*	*0.43*	*0.46*	*0.38*	**0.36**	*0.35*	*0.38*
Motor Gasoline Blend Components	**0.39**	**0.65**	**0.67**	**0.22**	**0.34**	*0.68*	*0.64*	*0.47*	*0.57*	*0.84*	*0.66*	*0.49*	**0.49**	*0.53*	*0.64*
Aviation Gasoline Blend Components	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	**0.00**	*0.00*	*0.00*
Total Refinery and Blender Net Inputs	**18.30**	**19.83**	**19.38**	**19.30**	**18.63**	*19.95*	*20.29*	*19.54*	*19.17*	*20.57*	*20.33*	*19.56*	**19.21**	*19.61*	*19.91*
Refinery Processing Gain	**1.09**	**1.13**	**1.07**	**1.12**	**1.11**	*1.13*	*1.14*	*1.12*	*1.09*	*1.13*	*1.13*	*1.12*	**1.10**	*1.12*	*1.11*
Refinery and Blender Net Production															
Hydrocarbon Gas Liquids	**0.48**	**0.89**	**0.73**	**0.40**	**0.48**	*0.88*	*0.80*	*0.40*	*0.50*	*0.88*	*0.79*	*0.40*	**0.63**	*0.64*	*0.65*
Finished Motor Gasoline	**9.57**	**10.10**	**10.04**	**10.13**	**9.79**	*10.16*	*10.27*	*10.25*	*9.99*	*10.44*	*10.30*	*10.27*	**9.96**	*10.12*	*10.25*
Jet Fuel	**1.63**	**1.74**	**1.75**	**1.69**	**1.72**	*1.82*	*1.86*	*1.74*	*1.69*	*1.82*	*1.87*	*1.75*	**1.70**	*1.79*	*1.78*
Distillate Fuel	**4.75**	**5.18**	**4.94**	**5.25**	**4.81**	*5.12*	*5.34*	*5.22*	*5.04*	*5.40*	*5.37*	*5.23*	**5.03**	*5.12*	*5.26*
Residual Fuel	**0.46**	**0.41**	**0.43**	**0.41**	**0.44**	*0.40*	*0.43*	*0.42*	*0.46*	*0.46*	*0.42*	*0.42*	**0.43**	*0.42*	*0.44*
Other Oils (a)	**2.50**	**2.64**	**2.56**	**2.53**	**2.49**	*2.70*	*2.74*	*2.62*	*2.57*	*2.69*	*2.72*	*2.60*	**2.56**	*2.64*	*2.65*
Total Refinery and Blender Net Production	**19.40**	**20.97**	**20.46**	**20.41**	**19.74**	*21.08*	*21.43*	*20.66*	*20.26*	*21.70*	*21.46*	*20.68*	**20.31**	*20.73*	*21.03*
Refinery Distillation Inputs	**16.23**	**17.42**	**16.90**	**17.00**	**16.76**	*17.33*	*17.56*	*16.91*	*16.75*	*17.59*	*17.54*	*16.89*	**16.89**	*17.14*	*17.20*
Refinery Operable Distillation Capacity	**18.62**	**18.58**	**18.55**	**18.52**	**18.57**	*18.62*	*18.62*	*18.62*	*18.63*	*18.63*	*18.67*	*18.67*	**18.57**	*18.61*	*18.65*
Refinery Distillation Utilization Factor	**0.87**	**0.94**	**0.91**	**0.92**	**0.90**	*0.93*	*0.94*	*0.91*	*0.90*	*0.94*	*0.94*	*0.90*	**0.91**	*0.92*	*0.92*

- = no data available

(a) "Other Oils" includes aviation gasoline blend components, finished aviation gasoline, kerosene, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt and road oil, still gas, and miscellaneous products.

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 Energy Information Administration databases supporting the following reports:*Petroleum Supply Monthly* , DOE/EIA-0109; *Petroleum Supply Annual* , DOE/EIA-0340/2; *Weekly Petroleum Status Report* , DOE/EIA-0208.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 4c. U.S. Regional Motor Gasoline Prices and Inventories

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Prices (cents per gallon)															
Refiner Wholesale Price	**163**	**165**	**172**	**175**	**186**	*216*	*211*	*196*	*192*	*206*	*202*	*185*	**169**	*202*	*196*
Gasoline Regular Grade Retail Prices Including Taxes															
PADD 1	**231**	**233**	**241**	**249**	**255**	*282*	*286*	*275*	*269*	*281*	*279*	*266*	**239**	*275*	*274*
PADD 2	**223**	**228**	**232**	**242**	**246**	*275*	*281*	*265*	*257*	*277*	*274*	*255*	**231**	*267*	*266*
PADD 3	**210**	**216**	**222**	**225**	**230**	*260*	*260*	*246*	*241*	*256*	*251*	*235*	**218**	*250*	*246*
PADD 4	**227**	**239**	**245**	**252**	**247**	*285*	*289*	*271*	*251*	*273*	*280*	*260*	**241**	*273*	*266*
PADD 5	**276**	**289**	**290**	**299**	**312**	*341*	*335*	*315*	*305*	*332*	*328*	*303*	**288**	*326*	*317*
U.S. Average	**233**	**238**	**244**	**251**	**258**	*286*	*289*	*274*	*267*	*285*	*281*	*264*	**242**	*277*	*274*
Gasoline All Grades Including Taxes	**244**	**250**	**255**	**263**	**270**	*296*	*299*	*285*	*278*	*296*	*293*	*276*	**253**	*288*	*286*
End-of-period Inventories (million barrels)															
Total Gasoline Inventories															
PADD 1	**65.3**	**67.2**	**58.8**	**60.6**	**58.4**	*66.9*	*62.7*	*65.3*	*66.7*	*67.3*	*64.0*	*67.2*	**60.6**	*65.3*	*67.2*
PADD 2	**57.0**	**53.6**	**50.4**	**52.2**	**57.3**	*52.5*	*50.0*	*51.9*	*54.9*	*52.8*	*51.2*	*53.4*	**52.2**	*51.9*	*53.4*
PADD 3	**79.1**	**82.4**	**78.5**	**83.2**	**84.2**	*80.8*	*80.6*	*83.8*	*83.7*	*83.2*	*83.1*	*86.4*	**83.2**	*83.8*	*86.4*
PADD 4	**7.9**	**7.0**	**6.9**	**7.6**	**7.7**	*7.2*	*7.3*	*7.8*	*7.7*	*7.6*	*7.5*	*8.0*	**7.6**	*7.8*	*8.0*
PADD 5	**29.7**	**27.7**	**29.2**	**33.1**	**32.0**	*30.4*	*28.8*	*31.5*	*30.3*	*28.6*	*28.5*	*31.8*	**33.1**	*31.5*	*31.8*
U.S. Total	**239.0**	**237.9**	**223.8**	**236.7**	**239.6**	*237.8*	*229.3*	*240.3*	*243.3*	*239.7*	*234.2*	*246.9*	**236.7**	*240.3*	*246.9*
Finished Gasoline Inventories															
U.S. Total	**21.7**	**22.5**	**21.8**	**24.6**	**23.1**	*23.9*	*24.1*	*27.5*	*25.0*	*24.0*	*24.7*	*25.4*	**24.6**	*27.5*	*25.4*
Gasoline Blending Components Inventories															
U.S. Total	**217.2**	**215.5**	**202.0**	**212.1**	**216.5**	*213.9*	*205.1*	*212.9*	*218.4*	*215.7*	*209.5*	*221.5*	**212.1**	*212.9*	*221.5*

- = no data available

Prices are not adjusted for inflation.

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

Regions refer to Petroleum Administration for Defense Districts (PADD).

See "Petroleum for Administration Defense District" in EIA's Energy Glossary (http://www.eia.doe.gov/glossary/index.html) for a list of States in each region.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports*Petroleum Marketing Monthly*, DOE/EIA-0380; *Petroleum Supply Monthly*, DOE/EIA-0109;*Petroleum Supply Annual*, DOE/EIA-0340/2; and*Weekly Petroleum Status Report*, DOE/EIA-0208.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 5a. U.S. Natural Gas Supply, Consumption, and Inventories

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Supply (billion cubic feet per day)															
Total Marketed Production	**76.32**	**77.36**	**79.30**	**82.72**	**84.29**	*87.35*	*88.22*	*89.12*	*90.13*	*90.25*	*90.18*	*90.51*	**78.94**	*87.26*	*90.27*
Alaska	**1.01**	**0.97**	**0.82**	**0.98**	**1.00**	*0.85*	*0.77*	*0.93*	*1.00*	*0.86*	*0.78*	*0.94*	**0.94**	*0.89*	*0.90*
Federal GOM (a)	**3.26**	**2.99**	**2.91**	**2.52**	**2.58**	*2.73*	*2.56*	*2.60*	*2.58*	*2.53*	*2.42*	*2.41*	**2.92**	*2.62*	*2.48*
Lower 48 States (excl GOM)	**72.05**	**73.40**	**75.56**	**79.22**	**80.72**	*83.78*	*84.88*	*85.58*	*86.54*	*86.86*	*86.98*	*87.16*	**75.08**	*83.76*	*86.89*
Total Dry Gas Production	**71.24**	**72.04**	**73.97**	**76.98**	**78.54**	*81.31*	*82.05*	*82.83*	*83.73*	*83.79*	*83.68*	*83.93*	**73.57**	*81.20*	*83.78*
LNG Gross Imports	**0.29**	**0.18**	**0.17**	**0.21**	**0.33**	*0.14*	*0.18*	*0.26*	*0.32*	*0.17*	*0.17*	*0.21*	**0.21**	*0.23*	*0.22*
LNG Gross Exports	**1.63**	**1.80**	**1.67**	**2.64**	**2.64**	*2.95*	*2.94*	*3.31*	*3.99*	*4.40*	*5.24*	*6.60*	**1.94**	*2.96*	*5.07*
Pipeline Gross Imports	**8.89**	**7.76**	**7.74**	**8.10**	**8.72**	*7.74*	*7.42*	*7.78*	*8.39*	*7.38*	*7.59*	*8.29*	**8.12**	*7.91*	*7.91*
Pipeline Gross Exports	**7.24**	**6.49**	**6.43**	**6.81**	**6.96**	*6.53*	*7.04*	*7.99*	*9.22*	*8.09*	*7.95*	*8.57*	**6.74**	*7.13*	*8.46*
Supplemental Gaseous Fuels	**0.16**	**0.13**	**0.16**	**0.16**	**0.17**	*0.17*	*0.17*	*0.17*	*0.17*	*0.17*	*0.17*	*0.18*	**0.15**	*0.17*	*0.17*
Net Inventory Withdrawals	**13.74**	**-9.02**	**-7.20**	**5.77**	**18.28**	*-9.16*	*-10.51*	*2.60*	*15.65*	*-10.84*	*-8.33*	*4.69*	**0.78**	*0.23*	*0.24*
Total Supply	**85.45**	**62.80**	**66.74**	**81.78**	**96.44**	*70.72*	*69.34*	*82.35*	*95.04*	*68.18*	*70.09*	*82.13*	**74.16**	*79.65*	*78.80*
Balancing Item (b)	**0.70**	**0.16**	**0.22**	**-0.84**	**0.71**	*-0.77*	*0.20*	*-0.42*	*0.15*	*0.31*	*0.98*	*0.98*	**0.06**	*-0.07*	*0.61*
Total Primary Supply	**86.15**	**62.96**	**66.96**	**80.94**	**97.15**	*69.95*	*69.54*	*81.92*	*95.19*	*68.49*	*71.07*	*83.12*	**74.22**	*79.57*	*79.41*
Consumption (billion cubic feet per day)															
Residential	**22.17**	**6.65**	**3.55**	**16.26**	**25.67**	*8.42*	*3.66*	*16.40*	*24.93*	*7.55*	*3.83*	*16.69*	**12.12**	*13.49*	*13.20*
Commercial	**13.50**	**5.83**	**4.55**	**11.01**	**15.31**	*6.71*	*4.60*	*10.70*	*14.85*	*6.31*	*4.68*	*10.77*	**8.70**	*9.30*	*9.13*
Industrial	**22.96**	**20.45**	**20.34**	**22.85**	**24.35**	*20.88*	*20.39*	*22.50*	*23.65*	*21.21*	*20.66*	*22.67*	**21.65**	*22.02*	*22.04*
Electric Power (c)	**20.95**	**24.00**	**32.28**	**24.03**	**24.53**	*27.14*	*34.05*	*25.11*	*24.11*	*26.34*	*34.69*	*25.34*	**25.34**	*27.73*	*27.64*
Lease and Plant Fuel	**4.26**	**4.32**	**4.43**	**4.62**	**4.71**	*4.88*	*4.92*	*4.97*	*5.03*	*5.04*	*5.03*	*5.05*	**4.41**	*4.87*	*5.04*
Pipeline and Distribution Use	**2.19**	**1.60**	**1.70**	**2.05**	**2.47**	*1.81*	*1.80*	*2.12*	*2.50*	*1.91*	*2.06*	*2.47*	**1.88**	*2.05*	*2.23*
Vehicle Use	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	*0.12*	*0.12*	*0.12*	*0.12*	*0.12*	*0.12*	*0.12*	**0.12**	*0.12*	*0.12*
Total Consumption	**86.15**	**62.96**	**66.96**	**80.94**	**97.15**	*69.95*	*69.54*	*81.92*	*95.19*	*68.49*	*71.07*	*83.12*	**74.22**	*79.57*	*79.41*
End-of-period Inventories (billion cubic feet)															
Working Gas Inventory	**2,063**	**2,907**	**3,567**	**3,032**	**1,389**	*2,223*	*3,189*	*2,950*	*1,542*	*2,528*	*3,294*	*2,862*	**3,032**	*2,950*	*2,862*
East Region (d)	**260**	**563**	**866**	**710**	**229**	*467*	*781*	*687*	*224*	*525*	*812*	*642*	**710**	*687*	*642*
Midwest Region (d)	**477**	**701**	**993**	**829**	**261**	*470*	*870*	*766*	*280*	*551*	*895*	*772*	**829**	*766*	*772*
South Central Region (d)	**938**	**1,139**	**1,137**	**1,016**	**612**	*844*	*992*	*995*	*672*	*944*	*1,012*	*949*	**1,016**	*995*	*949*
Mountain Region (d)	**142**	**184**	**218**	**177**	**87**	*148*	*215*	*201*	*139*	*175*	*210*	*174*	**177**	*201*	*174*
Pacific Region (d)	**219**	**288**	**314**	**264**	**169**	*261*	*299*	*268*	*193*	*300*	*332*	*293*	**264**	*268*	*293*
Alaska	**27**	**32**	**39**	**36**	**31**	*33*	*33*	*33*	*33*	*33*	*33*	*33*	**36**	*33*	*33*

- = no data available

(a) Marketed production from U.S. Federal leases in the Gulf of Mexico.

(b) The balancing item represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas demand.

(c) Natural gas used for electricity generation and (a limited amount of) useful thermal output by electric utilities and independent power producers.

(d) For a list of States in each inventory region refer to*Weekly Natural Gas Storage Report, Notes and Definitions (http://ir.eia.gov/ngs/notes.html)* .

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

LNG: liquefied natural gas.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports:*Natural Gas Monthly* , DOE/EIA-0130; and *Electric Power Monthly* , DOE/EIA-0226.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 5b. U.S. Regional Natural Gas Prices (dollars per thousand cubic feet)

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Wholesale/Spot															
Henry Hub Spot Price	**3.12**	**3.19**	**3.06**	**3.01**	**3.13**	*2.94*	*3.12*	*3.23*	*3.32*	*3.07*	*3.11*	*3.26*	**3.10**	*3.10*	*3.19*
Residential Retail															
New England	**12.85**	**14.08**	**18.12**	**13.57**	**14.56**	*14.40*	*17.13*	*13.57*	*13.06*	*13.98*	*17.19*	*13.64*	**13.60**	*14.43*	*13.65*
Middle Atlantic	**9.92**	**12.18**	**17.11**	**11.33**	**10.15**	*11.53*	*16.22*	*10.84*	*9.97*	*11.95*	*16.59*	*11.08*	**11.17**	*10.95*	*11.03*
E. N. Central	**7.77**	**11.52**	**17.80**	**7.81**	**7.20**	*10.02*	*16.36*	*8.81*	*7.99*	*10.92*	*16.61*	*8.93*	**8.86**	*8.63*	*9.21*
W. N. Central	**8.32**	**11.85**	**18.79**	**9.56**	**8.17**	*10.49*	*17.62*	*10.05*	*9.23*	*12.05*	*17.77*	*9.92*	**9.80**	*9.59*	*10.37*
S. Atlantic	**12.29**	**20.05**	**26.86**	**13.20**	**11.09**	*15.42*	*22.17*	*12.77*	*11.18*	*16.19*	*22.50*	*12.97*	**14.63**	*12.94*	*13.12*
E. S. Central	**10.53**	**15.83**	**20.82**	**11.32**	**9.71**	*13.73*	*19.69*	*12.28*	*9.96*	*14.47*	*20.63*	*12.93*	**12.05**	*11.51*	*11.92*
W. S. Central	**10.33**	**16.49**	**22.10**	**13.09**	**9.34**	*13.58*	*19.76*	*11.59*	*8.39*	*13.95*	*20.30*	*11.83*	**13.18**	*11.51*	*11.09*
Mountain	**8.21**	**10.17**	**13.91**	**8.76**	**8.22**	*9.81*	*13.64*	*9.22*	*9.07*	*10.37*	*13.99*	*9.33*	**9.14**	*9.20*	*9.76*
Pacific	**12.02**	**12.64**	**12.90**	**11.30**	**11.62**	*12.01*	*12.88*	*11.65*	*12.50*	*12.61*	*12.92*	*11.80*	**12.01**	*11.85*	*12.35*
U.S. Average	**9.73**	**13.00**	**17.74**	**10.19**	**9.39**	*11.48*	*16.55*	*10.57*	*9.68*	*12.29*	*16.82*	*10.74*	**10.92**	*10.57*	*10.91*
Commercial Retail															
New England	**9.55**	**9.97**	**10.61**	**9.53**	**11.09**	*11.20*	*10.83*	*10.38*	*10.44*	*10.45*	*10.28*	*10.07*	**9.71**	*10.88*	*10.32*
Middle Atlantic	**7.66**	**7.42**	**6.82**	**7.38**	**8.10**	*7.79*	*7.05*	*7.57*	*7.71*	*7.57*	*7.02*	*7.61*	**7.43**	*7.76*	*7.57*
E. N. Central	**6.63**	**7.90**	**8.98**	**6.21**	**6.19**	*7.29*	*8.87*	*7.00*	*6.75*	*7.73*	*9.06*	*7.09*	**6.84**	*6.80*	*7.17*
W. N. Central	**6.96**	**7.80**	**9.11**	**7.04**	**7.00**	*7.26*	*8.90*	*7.42*	*7.63*	*7.99*	*9.02*	*7.45*	**7.28**	*7.31*	*7.74*
S. Atlantic	**8.89**	**10.00**	**9.56**	**8.91**	**8.32**	*8.82*	*9.56*	*8.76*	*8.60*	*9.49*	*9.91*	*8.99*	**9.16**	*8.68*	*9.02*
E. S. Central	**9.05**	**10.28**	**10.76**	**9.30**	**8.69**	*9.50*	*10.12*	*9.10*	*8.65*	*9.64*	*10.13*	*9.07*	**9.53**	*9.09*	*9.09*
W. S. Central	**7.63**	**8.20**	**8.86**	**8.18**	**7.24**	*7.50*	*8.39*	*7.82*	*7.35*	*7.77*	*8.33*	*7.74*	**8.09**	*7.60*	*7.68*
Mountain	**6.88**	**7.37**	**8.27**	**7.21**	**6.99**	*7.38*	*8.30*	*7.32*	*7.53*	*7.79*	*8.51*	*7.45*	**7.22**	*7.30*	*7.66*
Pacific	**9.09**	**9.06**	**9.08**	**8.54**	**8.91**	*8.49*	*8.82*	*8.54*	*8.78*	*8.84*	*9.12*	*8.80*	**8.92**	*8.70*	*8.85*
U.S. Average	**7.71**	**8.33**	**8.69**	**7.56**	**7.66**	*8.02*	*8.58*	*7.89*	*7.82*	*8.28*	*8.67*	*7.96*	**7.87**	*7.89*	*8.03*
Industrial Retail															
New England	**7.81**	**7.04**	**6.39**	**7.05**	**9.05**	*8.12*	*6.91*	*7.92*	*8.35*	*7.60*	*7.04*	*8.10*	**7.19**	*8.18*	*7.90*
Middle Atlantic	**7.69**	**7.59**	**7.62**	**7.18**	**8.29**	*7.79*	*7.48*	*7.67*	*8.04*	*7.39*	*7.39*	*7.66*	**7.53**	*7.96*	*7.76*
E. N. Central	**5.86**	**5.96**	**5.59**	**5.30**	**5.74**	*5.47*	*5.99*	*6.03*	*6.60*	*6.20*	*6.06*	*6.00*	**5.66**	*5.81*	*6.29*
W. N. Central	**5.01**	**4.29**	**4.25**	**4.68**	**5.04**	*4.31*	*4.64*	*5.29*	*5.75*	*4.86*	*4.64*	*5.26*	**4.60**	*4.87*	*5.18*
S. Atlantic	**5.35**	**5.00**	**4.88**	**4.93**	**5.39**	*4.64*	*4.84*	*5.20*	*5.50*	*4.90*	*4.88*	*5.28*	**5.05**	*5.05*	*5.16*
E. S. Central	**5.06**	**4.59**	**4.40**	**4.56**	**4.99**	*4.26*	*4.38*	*4.84*	*5.01*	*4.52*	*4.48*	*4.91*	**4.67**	*4.64*	*4.75*
W. S. Central	**3.42**	**3.42**	**3.30**	**3.14**	**3.33**	*3.10*	*3.39*	*3.49*	*3.56*	*3.26*	*3.36*	*3.50*	**3.32**	*3.32*	*3.42*
Mountain	**5.31**	**5.36**	**5.61**	**5.50**	**5.41**	*5.36*	*5.91*	*5.99*	*6.08*	*5.74*	*5.97*	*6.04*	**5.43**	*5.66*	*5.97*
Pacific	**7.31**	**6.71**	**6.32**	**6.35**	**7.05**	*6.43*	*6.56*	*6.70*	*7.11*	*6.52*	*6.64*	*6.74*	**6.71**	*6.70*	*6.77*
U.S. Average	**4.50**	**4.11**	**3.89**	**4.00**	**4.47**	*3.79*	*3.96*	*4.34*	*4.65*	*3.99*	*3.97*	*4.37*	**4.14**	*4.16*	*4.26*

- = no data available

Prices are not adjusted for inflation.

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

Regions refer to U.S. Census divisions.

See "Census division" in EIA's Energy Glossary (http://www.eia.doe.gov/glossary/index.html) for a list of States in each region.

Historical data: Latest data available from Energy Information Administration databases supporting the *Natural Gas Monthly* , DOE/EIA-0130.

Natural gas Henry Hub spot price from Reuter's News Service (http://www.reuters.com).

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 6. U.S. Coal Supply, Consumption, and Inventories

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Supply (million short tons)															
Production	**197.0**	**187.1**	**196.2**	**193.8**	**191.1**	*181.5*	*197.0*	*186.7*	*191.2*	*160.4*	*197.7*	*188.7*	**774.1**	*756.2*	*738.0*
Appalachia	**50.7**	**51.2**	**46.3**	**50.2**	**50.5**	*47.3*	*41.3*	*38.1*	*42.4*	*36.7*	*36.7*	*36.7*	**198.5**	*177.3*	*152.5*
Interior	**38.5**	**36.4**	**34.9**	**35.6**	**35.3**	*33.5*	*39.2*	*39.8*	*43.7*	*33.2*	*40.5*	*40.9*	**145.4**	*147.7*	*158.3*
Western	**107.8**	**99.4**	**115.0**	**108.0**	**105.2**	*100.7*	*116.5*	*108.8*	*105.1*	*90.4*	*120.6*	*111.1*	**430.2**	*431.2*	*427.2*
Primary Inventory Withdrawals	**0.1**	**1.8**	**1.4**	**0.9**	**-2.8**	*2.4*	*1.3*	*-0.1*	*-3.6*	*1.9*	*1.7*	*-2.5*	**4.2**	*0.8*	*-2.5*
Imports	**1.9**	**2.2**	**2.3**	**1.4**	**1.4**	*1.8*	*2.6*	*2.4*	*1.4*	*2.3*	*2.9*	*2.6*	**7.8**	*8.2*	*9.3*
Exports	**22.3**	**21.8**	**24.6**	**28.2**	**27.2**	*25.0*	*21.1*	*19.5*	*21.9*	*20.9*	*21.6*	*21.6*	**97.0**	*92.8*	*86.0*
Metallurgical Coal	**12.2**	**13.5**	**14.8**	**14.8**	**14.9**	*14.1*	*13.4*	*12.7*	*13.5*	*13.1*	*13.4*	*13.0*	**55.3**	*55.0*	*53.0*
Steam Coal	**10.1**	**8.3**	**9.8**	**13.4**	**12.3**	*10.9*	*7.7*	*6.9*	*8.4*	*7.8*	*8.3*	*8.6*	**41.7**	*37.8*	*33.1*
Total Primary Supply	**176.8**	**169.2**	**175.3**	**167.9**	**162.5**	*160.7*	*179.8*	*169.4*	*167.1*	*143.6*	*180.7*	*167.3*	**689.1**	*672.4*	*658.7*
Secondary Inventory Withdrawals	**1.0**	**3.7**	**18.2**	**2.4**	**11.1**	*3.0*	*11.9*	*-7.8*	*1.3*	*2.2*	*5.5*	*-9.2*	**25.2**	*18.1*	*-0.2*
Waste Coal (a)	**2.5**	**1.8**	**2.3**	**2.1**	**2.4**	*2.4*	*2.4*	*2.4*	*2.4*	*2.4*	*2.4*	*2.4*	**8.7**	*9.6*	*9.6*
Total Supply	**180.3**	**174.8**	**195.8**	**172.3**	**175.9**	*166.1*	*194.1*	*164.0*	*170.8*	*148.1*	*188.6*	*160.5*	**723.1**	*700.1*	*668.1*
Consumption (million short tons)															
Coke Plants	**4.2**	**4.3**	**4.5**	**4.5**	**4.2**	*3.4*	*4.1*	*5.0*	*3.7*	*3.4*	*4.2*	*5.3*	**17.5**	*16.7*	*16.6*
Electric Power Sector (b)	**160.3**	**154.2**	**190.6**	**159.6**	**155.0**	*141.8*	*181.9*	*150.5*	*158.3*	*136.6*	*176.3*	*146.8*	**664.7**	*629.2*	*618.1*
Retail and Other Industry	**8.9**	**8.3**	**8.8**	**8.7**	**8.8**	*8.2*	*8.1*	*8.4*	*8.8*	*8.1*	*8.1*	*8.4*	**34.7**	*33.6*	*33.4*
Residential and Commercial	**0.4**	**0.2**	**0.2**	**0.3**	**0.3**	*0.1*	*0.1*	*0.2*	*0.2*	*0.1*	*0.1*	*0.2*	**1.1**	*0.7*	*0.5*
Other Industrial	**8.5**	**8.1**	**8.6**	**8.4**	**8.6**	*8.1*	*8.0*	*8.2*	*8.5*	*8.0*	*8.1*	*8.2*	**33.6**	*32.9*	*32.9*
Total Consumption	**173.5**	**166.8**	**203.9**	**172.7**	**168.0**	*153.4*	*194.1*	*164.0*	*170.8*	*148.1*	*188.6*	*160.5*	**717.0**	*679.5*	*668.1*
Discrepancy (c)	**6.8**	**7.9**	**-8.1**	**-0.4**	**7.9**	*12.8*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	**6.2**	*20.7*	*0.0*
End-of-period Inventories (million short tons)															
Primary Inventories (d)	**25.2**	**23.4**	**22.0**	**21.1**	**23.9**	*21.5*	*20.2*	*20.3*	*23.9*	*22.0*	*20.3*	*22.9*	**21.1**	*20.3*	*22.9*
Secondary Inventories	**166.6**	**163.0**	**144.8**	**142.4**	**131.4**	*128.4*	*116.5*	*124.3*	*123.1*	*120.9*	*115.4*	*124.5*	**142.4**	*124.3*	*124.5*
Electric Power Sector	**161.7**	**157.7**	**139.3**	**137.2**	**126.4**	*123.1*	*111.1*	*119.0*	*118.1*	*115.6*	*109.8*	*119.1*	**137.2**	*119.0*	*119.1*
Retail and General Industry	**3.2**	**3.3**	**3.5**	**3.2**	**3.4**	*3.3*	*3.5*	*3.4*	*3.5*	*3.5*	*3.6*	*3.6*	**3.2**	*3.4*	*3.6*
Coke Plants	**1.4**	**1.6**	**1.7**	**1.7**	**1.3**	*1.6*	*1.6*	*1.7*	*1.2*	*1.5*	*1.6*	*1.6*	**1.7**	*1.7*	*1.6*
Coal Market Indicators															
Coal Miner Productivity															
(Tons per hour)	**6.19**	**6.19**	**6.19**	**6.19**	**6.10**	*6.10*	*6.10*	*6.10*	*6.02*	*6.02*	*6.02*	*6.02*	**6.19**	*6.10*	*6.02*
Total Raw Steel Production															
(Million short tons per day)	**0.248**	**0.247**	**0.250**	**0.245**	**0.251**	*0.253*	*0.237*	*0.207*	*0.261*	*0.258*	*0.239*	*0.207*	**0.248**	*0.237*	*0.241*
Cost of Coal to Electric Utilities															
(Dollars per million Btu)	**2.08**	**2.12**	**2.07**	**2.04**	**2.06**	*2.23*	*2.24*	*2.21*	*2.24*	*2.22*	*2.23*	*2.20*	**2.08**	*2.19*	*2.22*

- = no data available

(a) Waste coal includes waste coal and cloal slurry reprocessed into briquettes.

(b) Coal used for electricity generation and (a limited amount of) useful thermal output by electric utilities and independent power producers.

(c) The discrepancy reflects an unaccounted-for shipper and receiver reporting difference, assumed to be zero in the forecast period.

(d) Primary stocks are held at the mines and distribution points.

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 Energy Information Administration databases supporting the following reports:*Quarterly Coal Report* , DOE/EIA-0121; and *Electric Power Monthly* , DOE/EIA-0226.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 7a. U.S. Electricity Industry Overview

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Electricity Supply (billion kilowatthours per day)															
Electricity Generation	**10.58**	**10.69**	**12.15**	**10.57**	**11.11**	*10.99*	*12.33*	*10.54*	*11.01*	*10.83*	*12.42*	*10.60*	**11.00**	*11.24*	*11.22*
Electric Power Sector (a)	**10.15**	**10.27**	**11.71**	**10.14**	**10.67**	*10.57*	*11.88*	*10.12*	*10.57*	*10.40*	*11.97*	*10.17*	**10.57**	*10.81*	*10.78*
Comm. and Indus. Sectors (b)	**0.43**	**0.42**	**0.44**	**0.42**	**0.43**	*0.42*	*0.44*	*0.43*	*0.44*	*0.43*	*0.45*	*0.43*	**0.43**	*0.43*	*0.44*
Net Imports	**0.13**	**0.14**	**0.15**	**0.13**	**0.14**	*0.18*	*0.21*	*0.16*	*0.17*	*0.17*	*0.19*	*0.15*	**0.14**	*0.17*	*0.17*
Total Supply	**10.71**	**10.83**	**12.30**	**10.70**	**11.25**	*11.17*	*12.53*	*10.70*	*11.18*	*11.00*	*12.61*	*10.75*	**11.14**	*11.41*	*11.39*
Losses and Unaccounted for (c)	**0.58**	**0.76**	**0.63**	**0.72**	**0.66**	*0.89*	*0.72*	*0.67*	*0.58*	*0.82*	*0.72*	*0.68*	**0.67**	*0.74*	*0.70*
Electricity Consumption (billion kilowatthours per day unless noted)															
Retail Sales	**9.75**	**9.70**	**11.28**	**9.60**	**10.20**	*9.90*	*11.42*	*9.66*	*10.21*	*9.80*	*11.49*	*9.69*	**10.09**	*10.30*	*10.30*
Residential Sector	**3.71**	**3.43**	**4.46**	**3.51**	**4.09**	*3.54*	*4.54*	*3.54*	*4.08*	*3.43*	*4.57*	*3.55*	**3.78**	*3.93*	*3.91*
Commercial Sector	**3.51**	**3.64**	**4.08**	**3.55**	**3.59**	*3.67*	*4.10*	*3.56*	*3.60*	*3.66*	*4.13*	*3.57*	**3.70**	*3.73*	*3.74*
Industrial Sector	**2.50**	**2.62**	**2.72**	**2.53**	**2.50**	*2.68*	*2.76*	*2.54*	*2.52*	*2.70*	*2.77*	*2.55*	**2.59**	*2.62*	*2.64*
Transportation Sector	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	*0.02*	*0.02*	*0.02*	*0.02*	*0.02*	*0.02*	*0.02*	**0.02**	*0.02*	*0.02*
Direct Use (d)	**0.38**	**0.37**	**0.38**	**0.37**	**0.38**	*0.37*	*0.39*	*0.38*	*0.38*	*0.38*	*0.40*	*0.38*	**0.38**	*0.38*	*0.39*
Total Consumption	**10.13**	**10.08**	**11.66**	**9.98**	**10.59**	*10.28*	*11.81*	*10.03*	*10.60*	*10.18*	*11.89*	*10.08*	**10.47**	*10.68*	*10.69*
Average residential electricity usage per customer (kWh)	**2,532**	**2,365**	**3,109**	**2,446**	**2,760**	*2,480*	*3,132*	*2,438*	*2,720*	*2,311*	*3,118*	*2,422*	**10,453**	*10,809*	*10,571*
Prices															
Power Generation Fuel Costs (dollars per million Btu)															
Coal	**2.08**	**2.12**	**2.07**	**2.04**	**2.06**	*2.23*	*2.24*	*2.21*	*2.24*	*2.22*	*2.23*	*2.20*	**2.08**	*2.19*	*2.22*
Natural Gas	**3.69**	**3.38**	**3.19**	**3.38**	**3.98**	*3.12*	*3.29*	*3.58*	*3.83*	*3.25*	*3.25*	*3.60*	**3.38**	*3.46*	*3.45*
Residual Fuel Oil	**11.16**	**10.60**	**10.03**	**11.93**	**11.47**	*13.79*	*13.81*	*13.44*	*13.36*	*13.67*	*12.90*	*12.58*	**10.97**	*12.85*	*13.15*
Distillate Fuel Oil	**12.74**	**12.23**	**13.13**	**14.54**	**15.83**	*16.57*	*16.82*	*16.79*	*16.26*	*16.10*	*16.28*	*16.57*	**13.26**	*16.28*	*16.31*
Retail Prices (cents per kilowatthour)															
Residential Sector	**12.59**	**12.99**	**13.19**	**12.75**	**12.57**	*13.08*	*13.40*	*13.11*	*13.09*	*13.72*	*13.85*	*13.45*	**12.90**	*13.05*	*13.53*
Commercial Sector	**10.39**	**10.68**	**11.03**	**10.56**	**10.51**	*10.75*	*11.26*	*10.89*	*10.80*	*10.90*	*11.30*	*10.93*	**10.68**	*10.87*	*10.99*
Industrial Sector	**6.64**	**6.89**	**7.27**	**6.79**	**6.79**	*7.01*	*7.52*	*7.05*	*6.97*	*7.09*	*7.60*	*7.13*	**6.91**	*7.10*	*7.21*

- = no data available. kWh = kilowatthours. Btu = British thermal units.

Prices are not adjusted for inflation.

(a) Generation supplied by electricity-only and combined-heat-and-power (CHP) plants operated by electric utilities and independent power producers.

(b) Generation supplied by CHP and electricity-only plants operated by businesses in the commercial and industrial sectors, primarily for onsite use.

(c) Includes transmission and distribution losses, data collection time-frame differences, and estimation error.

(d) Direct Use represents commercial and industrial facility use of onsite net electricity generation; and electrical sales or transfers to adjacent or colocated facilities for which revenue information is not available. See Table 7.6 of the EIA *Monthly Energy Review* .

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 Energy Information Administration databases supporting the following reports: *Electric Power Monthly* , DOE/EIA-0226; and *Electric Power Annual* , DOE/EIA-0348.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 7b. U.S. Regional Electricity Retail Sales (Million Kilowatthours per Day)

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Residential Sector															
New England	**142**	**119**	**143**	**126**	**141**	*115*	*150*	*126*	*141*	*112*	*149*	*126*	**133**	*133*	*132*
Middle Atlantic	**368**	**307**	**403**	**327**	**394**	*323*	*412*	*323*	*391*	*311*	*411*	*322*	**351**	*363*	*359*
E. N. Central	**507**	**435**	**545**	**475**	**552**	*465*	*563*	*469*	*542*	*443*	*561*	*467*	**491**	*512*	*504*
W. N. Central	**298**	**246**	**303**	**261**	**327**	*261*	*317*	*265*	*319*	*243*	*321*	*268*	**277**	*292*	*288*
S. Atlantic	**891**	**891**	**1,131**	**889**	**1,040**	*935*	*1,140*	*895*	*1,041*	*889*	*1,147*	*898*	**951**	*1,002*	*994*
E. S. Central	**305**	**277**	**368**	**288**	**368**	*291*	*382*	*293*	*367*	*276*	*385*	*293*	**310**	*333*	*330*
W. S. Central	**501**	**536**	**760**	**516**	**608**	*549*	*788*	*531*	*598*	*546*	*805*	*539*	**579**	*619*	*622*
Mountain	**245**	**259**	**347**	**232**	**239**	*256*	*353*	*234*	*244*	*257*	*356*	*237*	**271**	*271*	*274*
Pacific contiguous	**439**	**346**	**447**	**381**	**411**	*331*	*426*	*388*	*421*	*337*	*425*	*389*	**404**	*389*	*393*
AK and HI	**14**	**12**	**12**	**13**	**14**	*11*	*12*	*13*	*14*	*11*	*12*	*13*	**13**	*13*	*12*
Total	**3,712**	**3,428**	**4,458**	**3,507**	**4,093**	*3,537*	*4,544*	*3,536*	*4,077*	*3,425*	*4,571*	*3,552*	**3,778**	*3,928*	*3,907*
Commercial Sector															
New England	**155**	**150**	**168**	**149**	**142**	*134*	*164*	*146*	*139*	*131*	*159*	*140*	**156**	*147*	*143*
Middle Atlantic	**423**	**404**	**462**	**412**	**431**	*415*	*462*	*408*	*429*	*409*	*460*	*407*	**425**	*429*	*426*
E. N. Central	**489**	**486**	**537**	**482**	**499**	*499*	*542*	*480*	*498*	*493*	*543*	*480*	**498**	*505*	*504*
W. N. Central	**272**	**270**	**302**	**269**	**282**	*272*	*306*	*271*	*283*	*268*	*308*	*273*	**278**	*283*	*283*
S. Atlantic	**785**	**853**	**941**	**807**	**811**	*855*	*941*	*805*	*808*	*846*	*944*	*806*	**847**	*853*	*851*
E. S. Central	**225**	**241**	**275**	**229**	**241**	*243*	*277*	*228*	*241*	*241*	*280*	*230*	**243**	*248*	*248*
W. S. Central	**471**	**522**	**598**	**501**	**498**	*536*	*618*	*515*	*509*	*552*	*639*	*526*	**523**	*542*	*557*
Mountain	**246**	**265**	**301**	**249**	**249**	*266*	*304*	*250*	*251*	*267*	*306*	*252*	**265**	*268*	*269*
Pacific contiguous	**431**	**431**	**480**	**438**	**423**	*430*	*470*	*437*	*423*	*432*	*469*	*438*	**445**	*440*	*441*
AK and HI	**16**	**16**	**16**	**16**	**16**	*15*	*16*	*16*	*16*	*15*	*16*	*16*	**16**	*16*	*16*
Total	**3,513**	**3,637**	**4,079**	**3,551**	**3,592**	*3,666*	*4,100*	*3,558*	*3,597*	*3,655*	*4,125*	*3,568*	**3,696**	*3,730*	*3,738*
Industrial Sector															
New England	**46**	**46**	**49**	**47**	**42**	*45*	*47*	*45*	*41*	*44*	*46*	*44*	**47**	*45*	*44*
Middle Atlantic	**192**	**194**	**204**	**195**	**196**	*196*	*207*	*196*	*198*	*197*	*208*	*197*	**196**	*199*	*200*
E. N. Central	**495**	**504**	**522**	**489**	**499**	*534*	*533*	*491*	*502*	*535*	*533*	*491*	**502**	*514*	*515*
W. N. Central	**228**	**240**	**253**	**235**	**232**	*243*	*260*	*240*	*239*	*250*	*266*	*246*	**239**	*244*	*250*
S. Atlantic	**362**	**386**	**390**	**372**	**366**	*378*	*387*	*367*	*362*	*373*	*382*	*362*	**377**	*375*	*370*
E. S. Central	**267**	**275**	**280**	**262**	**260**	*269*	*277*	*257*	*257*	*265*	*274*	*254*	**271**	*266*	*263*
W. S. Central	**480**	**503**	**511**	**484**	**466**	*524*	*526*	*496*	*477*	*536*	*538*	*507*	**495**	*503*	*515*
Mountain	**210**	**228**	**245**	**210**	**209**	*237*	*250*	*213*	*213*	*241*	*254*	*216*	**223**	*227*	*231*
Pacific contiguous	**211**	**230**	**253**	**220**	**213**	*241*	*259*	*222*	*214*	*242*	*260*	*223*	**229**	*234*	*235*
AK and HI	**13**	**14**	**14**	**13**	**13**	*14*	*14*	*13*	*13*	*14*	*14*	*13*	**14**	*14*	*14*
Total	**2,504**	**2,619**	**2,722**	**2,526**	**2,497**	*2,682*	*2,760*	*2,541*	*2,517*	*2,698*	*2,774*	*2,555*	**2,593**	*2,620*	*2,636*
Total All Sectors (a)															
New England	**345**	**317**	**362**	**323**	**327**	*296*	*363*	*319*	*323*	*288*	*356*	*312*	**337**	*326*	*320*
Middle Atlantic	**994**	**915**	**1,079**	**943**	**1,033**	*945*	*1,091*	*936*	*1,028*	*927*	*1,090*	*936*	**983**	*1,001*	*995*
E. N. Central	**1,493**	**1,427**	**1,605**	**1,447**	**1,552**	*1,499*	*1,640*	*1,442*	*1,545*	*1,473*	*1,638*	*1,440*	**1,493**	*1,533*	*1,524*
W. N. Central	**798**	**755**	**857**	**765**	**842**	*776*	*883*	*776*	*841*	*762*	*895*	*787*	**794**	*819*	*821*
S. Atlantic	**2,042**	**2,134**	**2,465**	**2,070**	**2,220**	*2,172*	*2,472*	*2,071*	*2,215*	*2,112*	*2,476*	*2,070*	**2,179**	*2,234*	*2,219*
E. S. Central	**797**	**793**	**924**	**779**	**870**	*803*	*936*	*778*	*866*	*782*	*938*	*778*	**823**	*846*	*841*
W. S. Central	**1,452**	**1,561**	**1,869**	**1,501**	**1,572**	*1,610*	*1,932*	*1,543*	*1,585*	*1,635*	*1,983*	*1,572*	**1,597**	*1,665*	*1,694*
Mountain	**701**	**752**	**893**	**691**	**697**	*759*	*908*	*699*	*709*	*765*	*916*	*706*	**760**	*766*	*774*
Pacific contiguous	**1,084**	**1,010**	**1,184**	**1,042**	**1,049**	*1,004*	*1,156*	*1,050*	*1,059*	*1,013*	*1,156*	*1,052*	**1,080**	*1,065*	*1,070*
AK and HI	**43**	**41**	**43**	**43**	**42**	*40*	*43*	*42*	*42*	*40*	*42*	*42*	**42**	*42*	*42*
Total	**9,750**	**9,704**	**11,280**	**9,605**	**10,205**	*9,905*	*11,424*	*9,655*	*10,213*	*9,798*	*11,491*	*9,695*	**10,088**	*10,299*	*10,301*

- = no data available

(a) Total retail sales to all sectors includes residential, commercial, industrial, and transportation sector sales.

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

Retail Sales represents total retail electricity sales by electric utilities and power marketers.

Regions refer to U.S. Census divisions.

See "Census division" in EIA's Energy Glossary (http://www.eia.doe.gov/glossary/index.html) for a list of States in each region.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Electric Power Monthly* , DOE/EIA-0226; and *Electric Power Annual* , DOE/EIA-0348.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 7c. U.S. Regional Retail Electricity Prices (Cents per Kilowatthour

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Residential Sector															
New England	**18.57**	**18.92**	**18.97**	**19.28**	**20.42**	*19.92*	*19.46*	*20.15*	*21.50*	*21.17*	*20.57*	*21.10*	**18.93**	*19.98*	*21.07*
Middle Atlantic	**15.55**	**16.27**	**16.43**	**15.87**	**15.62**	*16.35*	*16.67*	*16.29*	*16.10*	*16.96*	*17.16*	*16.70*	**16.04**	*16.23*	*16.73*
E. N. Central	**12.90**	**13.58**	**13.28**	**13.19**	**12.94**	*13.76*	*13.73*	*13.88*	*13.71*	*14.58*	*14.33*	*14.34*	**13.23**	*13.56*	*14.22*
W. N. Central	**10.94**	**12.66**	**13.16**	**11.51**	**10.91**	*12.64*	*13.42*	*11.92*	*11.41*	*13.29*	*13.78*	*12.16*	**12.07**	*12.21*	*12.65*
S. Atlantic	**11.69**	**12.01**	**12.26**	**11.81**	**11.61**	*11.87*	*12.39*	*12.14*	*12.07*	*12.47*	*12.81*	*12.42*	**11.96**	*12.01*	*12.45*
E. S. Central	**11.08**	**11.44**	**11.32**	**11.20**	**10.86**	*11.37*	*11.62*	*11.85*	*11.62*	*11.99*	*11.78*	*11.86*	**11.26**	*11.41*	*11.80*
W. S. Central	**10.54**	**10.93**	**10.87**	**10.76**	**10.53**	*11.01*	*10.95*	*10.94*	*10.88*	*11.43*	*11.24*	*11.16*	**10.79**	*10.86*	*11.18*
Mountain	**11.28**	**12.16**	**12.31**	**11.82**	**11.57**	*12.36*	*12.58*	*12.15*	*11.96*	*12.80*	*12.96*	*12.46*	**11.94**	*12.21*	*12.59*
Pacific	**14.51**	**14.69**	**16.50**	**14.37**	**14.86**	*15.31*	*16.75*	*14.30*	*15.04*	*16.00*	*17.64*	*14.89*	**15.07**	*15.33*	*15.91*
U.S. Average	**12.59**	**12.99**	**13.19**	**12.75**	**12.57**	*13.08*	*13.40*	*13.11*	*13.09*	*13.72*	*13.85*	*13.45*	**12.90**	*13.05*	*13.53*
Commercial Sector															
New England	**14.64**	**14.65**	**15.30**	**15.20**	**16.56**	*15.42*	*15.54*	*15.53*	*16.41*	*14.93*	*15.07*	*15.31*	**14.95**	*15.75*	*15.42*
Middle Atlantic	**12.07**	**12.75**	**13.34**	**12.08**	**12.07**	*12.45*	*13.28*	*12.12*	*12.03*	*12.41*	*13.28*	*12.27*	**12.58**	*12.50*	*12.52*
E. N. Central	**10.02**	**10.24**	**10.05**	**9.99**	**10.09**	*10.24*	*10.30*	*10.39*	*10.49*	*10.54*	*10.43*	*10.43*	**10.08**	*10.26*	*10.47*
W. N. Central	**9.12**	**10.11**	**10.57**	**9.26**	**9.17**	*10.29*	*10.87*	*9.60*	*9.45*	*10.62*	*11.14*	*9.86*	**9.79**	*10.01*	*10.29*
S. Atlantic	**9.44**	**9.38**	**9.55**	**9.53**	**9.56**	*9.43*	*9.75*	*9.88*	*10.14*	*9.81*	*9.94*	*9.96*	**9.48**	*9.66*	*9.96*
E. S. Central	**10.58**	**10.56**	**10.62**	**10.57**	**10.51**	*10.73*	*11.15*	*11.37*	*10.96*	*10.98*	*11.05*	*11.17*	**10.58**	*10.94*	*11.04*
W. S. Central	**8.37**	**8.40**	**8.38**	**8.28**	**8.38**	*8.39*	*8.37*	*8.30*	*8.09*	*8.01*	*8.04*	*8.25*	**8.36**	*8.36*	*8.09*
Mountain	**9.14**	**9.92**	**10.04**	**9.49**	**9.25**	*10.11*	*10.28*	*9.75*	*9.29*	*10.15*	*10.32*	*9.83*	**9.67**	*9.88*	*9.92*
Pacific	**12.53**	**13.56**	**15.36**	**13.61**	**12.86**	*13.94*	*16.19*	*14.29*	*13.68*	*14.51*	*16.66*	*14.47*	**13.82**	*14.38*	*14.88*
U.S. Average	**10.39**	**10.68**	**11.03**	**10.56**	**10.51**	*10.75*	*11.26*	*10.89*	*10.80*	*10.90*	*11.30*	*10.93*	**10.68**	*10.87*	*10.99*
Industrial Sector															
New England	**12.38**	**12.19**	**12.55**	**12.37**	**13.49**	*12.77*	*13.09*	*12.85*	*14.15*	*13.16*	*13.36*	*13.02*	**12.37**	*13.04*	*13.41*
Middle Atlantic	**6.94**	**6.94**	**6.88**	**6.81**	**7.20**	*6.79*	*6.96*	*6.94*	*7.11*	*6.71*	*6.91*	*6.91*	**6.89**	*6.97*	*6.91*
E. N. Central	**7.03**	**7.05**	**7.04**	**6.96**	**7.08**	*7.06*	*7.24*	*7.21*	*7.26*	*7.12*	*7.30*	*7.28*	**7.02**	*7.15*	*7.24*
W. N. Central	**6.89**	**7.35**	**8.07**	**6.87**	**7.05**	*7.56*	*8.34*	*7.11*	*7.25*	*7.67*	*8.46*	*7.21*	**7.31**	*7.54*	*7.67*
S. Atlantic	**6.31**	**6.39**	**6.79**	**6.34**	**6.45**	*6.59*	*7.12*	*6.68*	*6.65*	*6.64*	*7.17*	*6.73*	**6.46**	*6.72*	*6.80*
E. S. Central	**5.90**	**5.96**	**6.18**	**5.89**	**5.73**	*6.02*	*6.46*	*6.21*	*6.06*	*6.15*	*6.57*	*6.33*	**5.98**	*6.11*	*6.28*
W. S. Central	**5.28**	**5.55**	**5.72**	**5.41**	**5.43**	*5.71*	*6.02*	*5.70*	*5.60*	*5.75*	*6.09*	*5.81*	**5.50**	*5.72*	*5.82*
Mountain	**6.08**	**6.54**	**7.12**	**6.13**	**6.10**	*6.53*	*7.19*	*6.23*	*6.28*	*6.71*	*7.39*	*6.41*	**6.50**	*6.55*	*6.73*
Pacific	**8.23**	**9.35**	**10.73**	**9.73**	**8.63**	*9.61*	*10.93*	*9.87*	*8.72*	*9.70*	*11.01*	*9.92*	**9.57**	*9.82*	*9.90*
U.S. Average	**6.64**	**6.89**	**7.27**	**6.79**	**6.79**	*7.01*	*7.52*	*7.05*	*6.97*	*7.09*	*7.60*	*7.13*	**6.91**	*7.10*	*7.21*
All Sectors (a)															
New England	**15.93**	**15.87**	**16.35**	**16.35**	**17.80**	*16.79*	*16.82*	*16.95*	*18.30*	*17.05*	*17.13*	*17.30*	**16.13**	*17.09*	*17.45*
Middle Atlantic	**12.35**	**12.68**	**13.26**	**12.29**	**12.48**	*12.61*	*13.35*	*12.46*	*12.62*	*12.71*	*13.52*	*12.65*	**12.67**	*12.74*	*12.90*
E. N. Central	**10.00**	**10.13**	**10.16**	**10.01**	**10.13**	*10.24*	*10.48*	*10.44*	*10.57*	*10.51*	*10.74*	*10.62*	**10.08**	*10.32*	*10.61*
W. N. Central	**9.15**	**10.06**	**10.75**	**9.29**	**9.26**	*10.26*	*11.04*	*9.62*	*9.57*	*10.50*	*11.29*	*9.81*	**9.84**	*10.07*	*10.32*
S. Atlantic	**9.86**	**9.93**	**10.35**	**9.93**	**10.00**	*10.01*	*10.55*	*10.29*	*10.47*	*10.37*	*10.84*	*10.46*	**10.04**	*10.22*	*10.55*
E. S. Central	**9.20**	**9.27**	**9.55**	**9.23**	**9.23**	*9.43*	*9.95*	*9.85*	*9.78*	*9.70*	*10.05*	*9.85*	**9.32**	*9.62*	*9.85*
W. S. Central	**8.10**	**8.35**	**8.67**	**8.21**	**8.34**	*8.46*	*8.78*	*8.37*	*8.39*	*8.41*	*8.81*	*8.46*	**8.35**	*8.50*	*8.54*
Mountain	**8.97**	**9.67**	**10.12**	**9.25**	**9.11**	*9.79*	*10.32*	*9.48*	*9.30*	*9.96*	*10.54*	*9.66*	**9.55**	*9.72*	*9.91*
Pacific	**12.48**	**12.98**	**14.79**	**13.06**	**12.78**	*13.38*	*15.21*	*13.35*	*13.21*	*13.84*	*15.73*	*13.65*	**13.38**	*13.73*	*14.15*
U.S. Average	**10.26**	**10.47**	**10.98**	**10.37**	**10.42**	*10.61*	*11.21*	*10.69*	*10.76*	*10.83*	*11.42*	*10.85*	**10.54**	*10.75*	*10.99*

- = no data available

Prices are not adjusted for inflation.

(a) Volume-weighted average of retail prices to residential, commercial, industrial, and transportation sectors.

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

Regions refer to U.S. Census divisions.

See "Census division" in EIA's Energy Glossary (http://www.eia.doe.gov/glossary/index.html) for a list of States in each region.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: *Electric Power Monthly* , DOE/EIA-0226; and *Electric Power Annual* , DOE/EIA-0348.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 7d. U.S. Regional Electricity Generation, All Sectors (Thousand megawatthours per day)

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
United States															
Coal	**3,242**	**3,100**	**3,762**	**3,128**	**3,127**	*2,890*	*3,643*	*2,983*	*3,279*	*2,789*	*3,526*	*2,903*	**3,309**	*3,162*	*3,125*
Natural Gas	**2,969**	**3,286**	**4,359**	**3,322**	**3,442**	*3,721*	*4,601*	*3,516*	*3,408*	*3,636*	*4,702*	*3,559*	**3,487**	*3,823*	*3,829*
Petroleum (a)	**59**	**54**	**56**	**62**	**101**	*57*	*63*	*56*	*74*	*57*	*64*	*56*	**58**	*69*	*63*
Other Gases	**40**	**39**	**40**	**36**	**37**	*39*	*40*	*36*	*37*	*39*	*40*	*36*	**39**	*38*	*38*
Nuclear	**2,242**	**2,034**	**2,302**	**2,243**	**2,294**	*2,129*	*2,273*	*2,146*	*2,240*	*2,097*	*2,272*	*2,135*	**2,205**	*2,210*	*2,186*
Renewable Energy Sources:	**2,008**	**2,157**	**1,615**	**1,757**	**2,084**	*2,128*	*1,684*	*1,783*	*1,948*	*2,186*	*1,797*	*1,892*	**1,883**	*1,918*	*1,955*
Conventional Hydropower	**918**	**1,010**	**717**	**647**	**854**	*920*	*697*	*647*	*760*	*884*	*723*	*644*	**822**	*779*	*752*
Wind	**768**	**748**	**501**	**771**	**867**	*783*	*555*	*781*	*825*	*838*	*595*	*853*	**697**	*746*	*777*
Wood Biomass	**118**	**115**	**122**	**119**	**122**	*113*	*123*	*117*	*120*	*114*	*125*	*119*	**119**	*119*	*120*
Waste Biomass	**59**	**56**	**56**	**57**	**58**	*59*	*60*	*59*	*58*	*59*	*60*	*59*	**57**	*59*	*59*
Geothermal	**45**	**43**	**44**	**43**	**45**	*44*	*45*	*45*	*46*	*45*	*45*	*46*	**44**	*45*	*45*
Solar	**101**	**185**	**175**	**120**	**138**	*209*	*204*	*134*	*139*	*246*	*249*	*171*	**145**	*171*	*201*
Pumped Storage Hydropower	**-16**	**-16**	**-22**	**-17**	**-15**	*-13*	*-18*	*-14*	*-13*	*-12*	*-18*	*-14*	**-18**	*-15*	*-14*
Other Nonrenewable Fuels (b)	**35**	**35**	**38**	**35**	**36**	*38*	*39*	*37*	*35*	*37*	*39*	*37*	**36**	*37*	*37*
Total Generation	**10,579**	**10,690**	**12,151**	**10,566**	**11,107**	*10,989*	*12,326*	*10,543*	*11,008*	*10,830*	*12,422*	*10,604*	**10,999**	*11,242*	*11,218*
Northeast Census Region															
Coal	**154**	**134**	**136**	**139**	**149**	*153*	*187*	*158*	*147*	*102*	*166*	*155*	**141**	*162*	*142*
Natural Gas	**486**	**482**	**637**	**492**	**500**	*551*	*716*	*566*	*561*	*585*	*746*	*590*	**525**	*584*	*621*
Petroleum (a)	**4**	**2**	**3**	**11**	**32**	*2*	*4*	*4*	*12*	*2*	*4*	*4*	**5**	*10*	*6*
Other Gases	**2**	**2**	**2**	**2**	**2**	*2*	*2*	*2*	*2*	*2*	*2*	*2*	**2**	*2*	*2*
Nuclear	**539**	**476**	**549**	**529**	**552**	*497*	*532*	*495*	*512*	*476*	*507*	*463*	**523**	*519*	*489*
Hydropower (c)	**102**	**107**	**99**	**99**	**103**	*91*	*88*	*94*	*100*	*89*	*92*	*94*	**102**	*94*	*94*
Other Renewables (d)	**72**	**76**	**68**	**74**	**80**	*72*	*65*	*78*	*80*	*72*	*66*	*80*	**73**	*74*	*74*
Other Nonrenewable Fuels (b)	**11**	**11**	**12**	**12**	**11**	*12*	*12*	*12*	*11*	*12*	*12*	*12*	**11**	*12*	*12*
Total Generation	**1,370**	**1,290**	**1,506**	**1,359**	**1,430**	*1,381*	*1,606*	*1,408*	*1,425*	*1,340*	*1,595*	*1,399*	**1,381**	*1,457*	*1,440*
South Census Region															
Coal	**1,330**	**1,416**	**1,681**	**1,293**	**1,261**	*1,304*	*1,604*	*1,225*	*1,318*	*1,191*	*1,525*	*1,157*	**1,431**	*1,349*	*1,298*
Natural Gas	**1,763**	**2,087**	**2,565**	**1,922**	**2,052**	*2,287*	*2,656*	*1,994*	*1,992*	*2,245*	*2,748*	*2,038*	**2,086**	*2,248*	*2,257*
Petroleum (a)	**25**	**22**	**23**	**21**	**38**	*25*	*27*	*22*	*29*	*25*	*28*	*22*	**23**	*28*	*26*
Other Gases	**15**	**15**	**15**	**13**	**13**	*15*	*15*	*13*	*12*	*14*	*14*	*12*	**14**	*14*	*13*
Nuclear	**973**	**888**	**1,003**	**1,012**	**1,008**	*947*	*1,017*	*965*	*1,009*	*948*	*1,032*	*978*	**969**	*984*	*992*
Hydropower (c)	**128**	**138**	**99**	**103**	**126**	*120*	*91*	*100*	*122*	*117*	*96*	*99*	**117**	*109*	*108*
Other Renewables (d)	**401**	**403**	**323**	**391**	**453**	*443*	*365*	*415*	*445*	*492*	*414*	*470*	**379**	*419*	*455*
Other Nonrenewable Fuels (b)	**15**	**15**	**16**	**15**	**16**	*17*	*17*	*16*	*15*	*16*	*16*	*15*	**15**	*16*	*16*
Total Generation	**4,650**	**4,984**	**5,726**	**4,769**	**4,968**	*5,157*	*5,792*	*4,748*	*4,942*	*5,046*	*5,873*	*4,791*	**5,034**	*5,167*	*5,165*
Midwest Census Region															
Coal	**1,288**	**1,177**	**1,394**	**1,216**	**1,302**	*1,090*	*1,304*	*1,114*	*1,267*	*1,106*	*1,316*	*1,106*	**1,269**	*1,202*	*1,198*
Natural Gas	**289**	**272**	**407**	**349**	**400**	*426*	*545*	*430*	*415*	*384*	*526*	*410*	**330**	*450*	*434*
Petroleum (a)	**7**	**7**	**7**	**8**	**9**	*9*	*10*	*8*	*10*	*9*	*10*	*8*	**7**	*9*	*9*
Other Gases	**17**	**16**	**17**	**15**	**15**	*16*	*17*	*15*	*16*	*17*	*18*	*16*	**16**	*16*	*17*
Nuclear	**555**	**543**	**580**	**535**	**571**	*526*	*557*	*527*	*553*	*519*	*564*	*534*	**553**	*545*	*542*
Hydropower (c)	**52**	**58**	**37**	**36**	**54**	*50*	*33*	*35*	*53*	*49*	*34*	*35*	**46**	*43*	*43*
Other Renewables (d)	**315**	**304**	**198**	**340**	**360**	*306*	*209*	*340*	*349*	*327*	*225*	*379*	**289**	*303*	*320*
Other Nonrenewable Fuels (b)	**3**	**4**	**4**	**4**	**4**	*4*	*4*	*4*	*4*	*4*	*4*	*4*	**4**	*4*	*4*
Total Generation	**2,528**	**2,381**	**2,643**	**2,503**	**2,714**	*2,426*	*2,679*	*2,473*	*2,667*	*2,415*	*2,697*	*2,492*	**2,514**	*2,573*	*2,568*
West Census Region															
Coal	**470**	**373**	**551**	**480**	**415**	*344*	*548*	*487*	*547*	*391*	*519*	*486*	**469**	*449*	*486*
Natural Gas	**430**	**446**	**751**	**558**	**490**	*457*	*684*	*527*	*441*	*422*	*682*	*522*	**547**	*540*	*517*
Petroleum (a)	**23**	**22**	**23**	**22**	**21**	*21*	*23*	*22*	*22*	*21*	*22*	*22*	**23**	*22*	*22*
Other Gases	**6**	**6**	**6**	**6**	**7**	*6*	*6*	*6*	*7*	*6*	*6*	*6*	**6**	*6*	*6*
Nuclear	**175**	**127**	**171**	**167**	**164**	*158*	*167*	*159*	*165*	*155*	*169*	*160*	**160**	*162*	*162*
Hydropower (c)	**619**	**692**	**460**	**392**	**557**	*645*	*468*	*403*	*471*	*617*	*483*	*401*	**540**	*518*	*493*
Other Renewables (d)	**302**	**364**	**308**	**305**	**337**	*387*	*348*	*304*	*314*	*411*	*369*	*318*	**320**	*344*	*353*
Other Nonrenewable Fuels (b)	**5**	**5**	**6**	**5**	**5**	*5*	*6*	*5*	*5*	*5*	*6*	*5*	**5**	*5*	*5*
Total Generation	**2,031**	**2,035**	**2,277**	**1,934**	**1,995**	*2,025*	*2,250*	*1,913*	*1,973*	*2,029*	*2,257*	*1,921*	**2,069**	*2,046*	*2,045*

(a) Residual fuel oil, distillate fuel oil, petroleum coke, and other petroleum liquids.

(b) Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, nonrenewable waste, and miscellaneous technologies.

(c) Conventional hydroelectric and pumped storage generation.

(d) Wind, biomass, geothermal, and solar generation.

Notes: Data reflect generation supplied by electricity-only and combined-heat-and-power (CHP) plants operated by electric utilities, independent power producers, and the commercial and industrial sectors. 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. Energy Information Administration *Electric Power Monthly* and *Electric Power Annual.*

Projections: EIA Regional Short-Term Energy Model.

Table 7e. U.S. Regional Fuel Consumption for Electricity Generation, All Sectors

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Fuel Consumption for Electricity Generation, All Sectors															
United States															
Coal (thousand st/d)	**1,777**	**1,692**	**2,068**	**1,731**	**1,719**	*1,555*	*1,973*	*1,630*	*1,752*	*1,495*	*1,912*	*1,590*	**1,818**	*1,720*	*1,687*
Natural Gas (million cf/d)	**21,452**	**24,555**	**32,799**	**24,545**	**25,006**	*27,728*	*34,674*	*25,780*	*24,767*	*27,038*	*35,364*	*26,021*	**25,865**	*28,317*	*28,320*
Petroleum (thousand b/d)	**107**	**100**	**105**	**111**	**178**	*102*	*114*	*101*	*133*	*103*	*114*	*101*	**106**	*123*	*113*
Residual Fuel Oil	**26**	**27**	**28**	**33**	**51**	*26*	*30*	*26*	*39*	*26*	*29*	*26*	**29**	*33*	*30*
Distillate Fuel Oil	**28**	**24**	**23**	**32**	**71**	*24*	*22*	*25*	*32*	*23*	*23*	*26*	**27**	*35*	*26*
Petroleum Coke (a)	**49**	**45**	**48**	**42**	**47**	*50*	*58*	*46*	*57*	*51*	*59*	*46*	**46**	*50*	*53*
Other Petroleum Liquids (b)	**4**	**4**	**7**	**5**	**9**	*3*	*4*	*4*	*5*	*3*	*4*	*4*	**5**	*5*	*4*
Northeast Census Region															
Coal (thousand st/d)	**75**	**63**	**66**	**65**	**76**	*74*	*93*	*78*	*72*	*50*	*83*	*77*	**67**	*80*	*70*
Natural Gas (million cf/d)	**3,603**	**3,640**	**4,893**	**3,706**	**3,635**	*4,142*	*5,482*	*4,200*	*4,130*	*4,366*	*5,676*	*4,347*	**3,963**	*4,369*	*4,633*
Petroleum (thousand b/d)	**7**	**4**	**7**	**18**	**53**	*4*	*7*	*6*	*22*	*4*	*7*	*7*	**9**	*17*	*10*
South Census Region															
Coal (thousand st/d)	**715**	**761**	**902**	**705**	**659**	*678*	*846*	*651*	*672*	*616*	*805*	*617*	**771**	*709*	*678*
Natural Gas (million cf/d)	**12,471**	**15,401**	**19,033**	**14,045**	**14,832**	*16,877*	*19,777*	*14,439*	*14,266*	*16,533*	*20,433*	*14,720*	**15,252**	*16,489*	*16,500*
Petroleum (thousand b/d)	**47**	**42**	**43**	**40**	**70**	*45*	*50*	*41*	*55*	*45*	*51*	*42*	**43**	*52*	*48*
Midwest Census Region															
Coal (thousand st/d)	**717**	**655**	**787**	**688**	**745**	*606*	*724*	*622*	*696*	*609*	*730*	*617*	**712**	*674*	*663*
Natural Gas (million cf/d)	**2,186**	**2,134**	**3,249**	**2,676**	**2,915**	*3,244*	*4,275*	*3,228*	*3,089*	*2,930*	*4,120*	*3,076*	**2,564**	*3,419*	*3,306*
Petroleum (thousand b/d)	**15**	**16**	**16**	**16**	**19**	*18*	*20*	*17*	*19*	*19*	*20*	*17*	**16**	*18*	*19*
West Census Region															
Coal (thousand st/d)	**269**	**213**	**313**	**273**	**240**	*197*	*311*	*279*	*312*	*221*	*294*	*279*	**267**	*257*	*276*
Natural Gas (million cf/d)	**3,192**	**3,378**	**5,624**	**4,117**	**3,625**	*3,466*	*5,140*	*3,913*	*3,281*	*3,208*	*5,135*	*3,877*	**4,085**	*4,040*	*3,881*
Petroleum (thousand b/d)	**39**	**37**	**39**	**37**	**36**	*35*	*37*	*37*	*37*	*35*	*37*	*36*	**38**	*36*	*36*
End-of-period U.S. Fuel Inventories Held by Electric Power Sector															
Coal (million short tons)	**161.7**	**157.7**	**139.3**	**137.2**	**126.4**	*123.1*	*111.1*	*119.0*	*118.1*	*115.6*	*109.8*	*119.1*	**137.2**	*119.0*	*119.1*
Residual Fuel Oil (mmb)	**12.5**	**11.9**	**11.4**	**11.0**	**10.3**	*10.3*	*10.5*	*11.2*	*11.1*	*11.1*	*11.1*	*11.6*	**11.0**	*11.2*	*11.6*
Distillate Fuel Oil (mmb)	**17.0**	**16.6**	**16.4**	**15.8**	**15.0**	*15.0*	*15.2*	*15.7*	*15.9*	*15.8*	*15.8*	*16.2*	**15.8**	*15.7*	*16.2*
Petroleum Coke (mmb)	**4.3**	**4.3**	**4.9**	**5.6**	**5.3**	*5.2*	*5.1*	*5.0*	*4.9*	*4.9*	*4.8*	*4.8*	**5.6**	*5.0*	*4.8*

(a) Petroleum coke consumption converted from short tons to barrels by multiplying by five.

(b) Other petroleum liquids include jet fuel, kerosene, and waste oil.

Notes: Data reflect generation supplied by electricity-only and combined-heat-and-power (CHP) plants operated by electric utilities, independent power producers, and the commercial and industrial sectors. Data include fuel consumed only for generation of electricity. Values do not include consumption by CHP plants for useful thermal output.

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

Physical Units: st/d = short tons per day; b/d = barrels per day; cf/d = cubic feet per day; mmb = million barrels.

Historical data: Latest data available from U.S. Energy Information Administration *Electric Power Monthly* and *Electric Power Annual.*

Projections: EIA Regional Short-Term Energy Model.

Table 8a. U.S. Renewable Energy Consumption (Quadrillion Btu)

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Electric Power Sector															
Geothermal	**0.037**	**0.036**	**0.037**	**0.037**	**0.038**	*0.037*	*0.038*	*0.039*	*0.038*	*0.038*	*0.038*	*0.039*	**0.147**	*0.151*	*0.153*
Hydroelectric Power (a)	**0.759**	**0.844**	**0.605**	**0.546**	**0.708**	*0.776*	*0.594*	*0.551*	*0.633*	*0.746*	*0.616*	*0.548*	**2.755**	*2.630*	*2.543*
Solar (b)	**0.084**	**0.155**	**0.148**	**0.101**	**0.114**	*0.175*	*0.173*	*0.113*	*0.114*	*0.206*	*0.211*	*0.144*	**0.488**	*0.575*	*0.675*
Waste Biomass (c)	**0.070**	**0.066**	**0.068**	**0.068**	**0.081**	*0.074*	*0.077*	*0.077*	*0.075*	*0.075*	*0.078*	*0.077*	**0.272**	*0.309*	*0.306*
Wood Biomass	**0.061**	**0.059**	**0.064**	**0.063**	**0.061**	*0.055*	*0.066*	*0.059*	*0.059*	*0.057*	*0.068*	*0.062*	**0.247**	*0.241*	*0.247*
Wind	**0.644**	**0.634**	**0.429**	**0.660**	**0.727**	*0.664*	*0.475*	*0.669*	*0.692*	*0.710*	*0.509*	*0.730*	**2.367**	*2.534*	*2.641*
Subtotal	**1.654**	**1.794**	**1.352**	**1.475**	**1.729**	*1.781*	*1.423*	*1.507*	*1.612*	*1.832*	*1.521*	*1.601*	**6.276**	*6.439*	*6.566*
Industrial Sector															
Biofuel Losses and Co-products (d)	**0.203**	**0.199**	**0.204**	**0.211**	**0.207**	*0.203*	*0.206*	*0.205*	*0.201*	*0.205*	*0.208*	*0.209*	**0.817**	*0.821*	*0.824*
Geothermal	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	**0.004**	*0.004*	*0.004*
Hydroelectric Power (a)	**0.003**	**0.004**	**0.003**	**0.003**	**0.003**	*0.004*	*0.003*	*0.003*	*0.003*	*0.004*	*0.003*	*0.003*	**0.013**	*0.013*	*0.013*
Solar (b)	**0.005**	**0.007**	**0.007**	**0.005**	**0.006**	*0.008*	*0.008*	*0.006*	*0.006*	*0.009*	*0.009*	*0.007*	**0.024**	*0.028*	*0.032*
Waste Biomass (c)	**0.044**	**0.040**	**0.038**	**0.044**	**0.043**	*0.043*	*0.044*	*0.048*	*0.048*	*0.045*	*0.045*	*0.048*	**0.165**	*0.178*	*0.186*
Wood Biomass	**0.370**	**0.361**	**0.375**	**0.374**	**0.366**	*0.355*	*0.360*	*0.361*	*0.349*	*0.346*	*0.358*	*0.360*	**1.480**	*1.442*	*1.413*
Subtotal	**0.625**	**0.609**	**0.625**	**0.638**	**0.625**	*0.611*	*0.619*	*0.622*	*0.607*	*0.606*	*0.620*	*0.626*	**2.498**	*2.476*	*2.459*
Commercial Sector															
Geothermal	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	**0.020**	*0.020*	*0.020*
Solar (b)	**0.015**	**0.023**	**0.023**	**0.016**	**0.019**	*0.028*	*0.029*	*0.021*	*0.024*	*0.035*	*0.035*	*0.025*	**0.077**	*0.097*	*0.119*
Waste Biomass (c)	**0.012**	**0.011**	**0.011**	**0.011**	**0.011**	*0.036*	*0.044*	*0.052*	*0.060*	*0.049*	*0.053*	*0.055*	**0.045**	*0.143*	*0.217*
Wood Biomass	**0.021**	**0.021**	**0.021**	**0.021**	**0.021**	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	*0.021*	**0.084**	*0.084*	*0.084*
Subtotal	**0.059**	**0.067**	**0.068**	**0.061**	**0.063**	*0.097*	*0.106*	*0.106*	*0.116*	*0.117*	*0.122*	*0.113*	**0.254**	*0.372*	*0.468*
Residential Sector															
Geothermal	**0.010**	**0.010**	**0.010**	**0.010**	**0.011**	*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	*0.013*	**0.040**	*0.050*	*0.053*
Solar (e)	**0.036**	**0.057**	**0.058**	**0.040**	**0.043**	*0.066*	*0.069*	*0.048*	*0.051*	*0.079*	*0.081*	*0.057*	**0.191**	*0.227*	*0.269*
Wood Biomass	**0.082**	**0.083**	**0.084**	**0.084**	**0.097**	*0.103*	*0.104*	*0.104*	*0.105*	*0.105*	*0.105*	*0.105*	**0.334**	*0.408*	*0.420*
Subtotal	**0.128**	**0.150**	**0.152**	**0.134**	**0.151**	*0.182*	*0.186*	*0.165*	*0.169*	*0.197*	*0.200*	*0.175*	**0.565**	*0.685*	*0.742*
Transportation Sector															
Biomass-based Diesel (f)	**0.054**	**0.079**	**0.080**	**0.066**	**0.057**	*0.080*	*0.092*	*0.095*	*0.069*	*0.088*	*0.100*	*0.104*	**0.279**	*0.323*	*0.361*
Ethanol (f)	**0.270**	**0.290**	**0.293**	**0.291**	**0.272**	*0.295*	*0.300*	*0.291*	*0.276*	*0.297*	*0.302*	*0.295*	**1.145**	*1.158*	*1.171*
Subtotal	**0.324**	**0.370**	**0.373**	**0.357**	**0.330**	*0.375*	*0.392*	*0.386*	*0.345*	*0.385*	*0.402*	*0.399*	**1.423**	*1.483*	*1.531*
All Sectors Total															
Biomass-based Diesel (f)	**0.054**	**0.079**	**0.080**	**0.066**	**0.057**	*0.080*	*0.092*	*0.095*	*0.069*	*0.088*	*0.100*	*0.104*	**0.279**	*0.323*	*0.361*
Biofuel Losses and Co-products (d)	**0.203**	**0.199**	**0.204**	**0.211**	**0.207**	*0.203*	*0.206*	*0.205*	*0.201*	*0.205*	*0.208*	*0.209*	**0.817**	*0.821*	*0.824*
Ethanol (f)	**0.281**	**0.301**	**0.304**	**0.302**	**0.283**	*0.308*	*0.312*	*0.302*	*0.287*	*0.309*	*0.313*	*0.307*	**1.189**	*1.205*	*1.215*
Geothermal	**0.053**	**0.052**	**0.053**	**0.053**	**0.055**	*0.056*	*0.057*	*0.058*	*0.057*	*0.057*	*0.057*	*0.058*	**0.211**	*0.225*	*0.229*
Hydroelectric Power (a)	**0.763**	**0.849**	**0.609**	**0.550**	**0.712**	*0.780*	*0.598*	*0.555*	*0.637*	*0.750*	*0.620*	*0.552*	**2.770**	*2.645*	*2.559*
Solar (b)(e)	**0.138**	**0.240**	**0.235**	**0.161**	**0.184**	*0.278*	*0.279*	*0.188*	*0.196*	*0.329*	*0.338*	*0.234*	**0.774**	*0.928*	*1.095*
Waste Biomass (c)	**0.126**	**0.117**	**0.117**	**0.122**	**0.125**	*0.153*	*0.164*	*0.177*	*0.183*	*0.170*	*0.176*	*0.180*	**0.482**	*0.619*	*0.709*
Wood Biomass	**0.534**	**0.524**	**0.543**	**0.543**	**0.546**	*0.534*	*0.551*	*0.545*	*0.534*	*0.529*	*0.552*	*0.548*	**2.145**	*2.175*	*2.164*
Wind	**0.644**	**0.634**	**0.429**	**0.660**	**0.727**	*0.664*	*0.475*	*0.669*	*0.692*	*0.710*	*0.509*	*0.730*	**2.367**	*2.534*	*2.641*
Total Consumption	**2.791**	**2.990**	**2.571**	**2.665**	**2.874**	*3.045*	*2.725*	*2.786*	*2.849*	*3.138*	*2.864*	*2.914*	**11.016**	*11.431*	*11.766*

- = no data available

(a) Conventional hydroelectric power only. Hydroelectricity generated by pumped storage is not included in renewable energy.

(b) Solar consumption in the electric power, commercial, and industrial sectors includes energy produced from large scale (>1 MW) solar thermal and photovoltaic generators and small-scale (<1 MW) distributed solar photovoltaic systems.

(c) Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.

(d) Losses and co-products from the production of fuel ethanol and biomass-based diesel

(e) Solar consumption in the residential sector includes energy from small-scale (<1 MW) solar photovoltaic systems. Also includes solar heating consumption in all sectors.

(f) Fuel ethanol and biomass-based diesel consumption in the transportation sector includes production, stock change, and imports less exports. Some biomass-based diesel may be consumed in the residential sector in heating oil.

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 EIA databases supporting the following reports: *Electric Power Monthly,* DOE/EIA-0226 and *Renewable Energy Annual,* DOE/EIA-0603; *Petroleum Supply Monthly,* DOE/EIA-0109.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.

Table 8b. U.S. Renewable Electricity Generation and Capacity

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Renewable Energy Electric Generating Capacity (megawatts, end of period)															
Electric Power Sector (a)															
Biomass	**7,233**	**7,269**	**7,325**	**7,318**	**7,294**	*7,331*	*7,330*	*7,363*	*7,526*	*7,526*	*7,526*	*7,526*	**7,318**	*7,363*	*7,526*
Waste	**4,202**	**4,238**	**4,241**	**4,239**	**4,215**	*4,252*	*4,251*	*4,284*	*4,288*	*4,288*	*4,288*	*4,288*	**4,239**	*4,284*	*4,288*
Wood	**3,031**	**3,031**	**3,085**	**3,079**	**3,079**	*3,079*	*3,079*	*3,079*	*3,238*	*3,238*	*3,238*	*3,238*	**3,079**	*3,079*	*3,238*
Conventional Hydroelectric	**79,487**	**79,494**	**79,595**	**79,592**	**79,604**	*79,613*	*79,746*	*79,765*	*79,796*	*79,824*	*79,779*	*79,813*	**79,592**	*79,765*	*79,813*
Geothermal	**2,449**	**2,449**	**2,449**	**2,486**	**2,502**	*2,502*	*2,502*	*2,502*	*2,510*	*2,510*	*2,510*	*2,545*	**2,486**	*2,502*	*2,545*
Large-Scale Solar (b)	**22,593**	**23,626**	**24,140**	**26,503**	**27,806**	*28,826*	*29,365*	*31,749*	*33,455*	*35,312*	*36,602*	*43,308*	**26,503**	*31,749*	*43,308*
Wind	**82,915**	**83,374**	**84,105**	**87,491**	**88,522**	*89,210*	*89,930*	*94,138*	*95,013*	*95,585*	*96,744*	*104,296*	**87,491**	*94,138*	*104,296*
Other Sectors (c)															
Biomass	**6,693**	**6,700**	**6,699**	**6,688**	**6,682**	*6,662*	*6,671*	*6,672*	*6,672*	*6,649*	*6,649*	*6,663*	**6,688**	*6,672*	*6,663*
Waste	**885**	**889**	**889**	**878**	**878**	*877*	*877*	*877*	*877*	*879*	*879*	*893*	**878**	*877*	*893*
Wood	**5,808**	**5,811**	**5,811**	**5,811**	**5,805**	*5,786*	*5,794*	*5,795*	*5,795*	*5,771*	*5,771*	*5,771*	**5,811**	*5,795*	*5,771*
Conventional Hydroelectric	**357**	**357**	**357**	**357**	**357**	*357*	*357*	*364*	*364*	*364*	*364*	*364*	**357**	*364*	*364*
Large-Scale Solar (b)	**322**	**340**	**340**	**348**	**348**	*356*	*356*	*355*	*355*	*355*	*355*	*355*	**348**	*355*	*355*
Small-Scale Solar (d)	**13,722**	**14,543**	**15,341**	**16,224**	**16,972**	*18,067*	*19,057*	*20,097*	*21,098*	*22,174*	*23,321*	*24,526*	**16,224**	*20,097*	*24,526*
Residential Sector	**8,124**	**8,618**	**9,105**	**9,574**	**10,170**	*10,776*	*11,399*	*12,039*	*12,699*	*13,385*	*14,092*	*14,821*	**9,574**	*12,039*	*14,821*
Commercial Sector	**4,286**	**4,555**	**4,797**	**5,146**	**5,290**	*5,706*	*6,011*	*6,346*	*6,629*	*6,955*	*7,326*	*7,730*	**5,146**	*6,346*	*7,730*
Industrial Sector	**1,312**	**1,370**	**1,438**	**1,504**	**1,512**	*1,586*	*1,647*	*1,712*	*1,770*	*1,834*	*1,903*	*1,975*	**1,504**	*1,712*	*1,975*
Wind	**94**	**93**	**93**	**97**	**100**	*104*	*104*	*104*	*104*	*104*	*104*	*104*	**97**	*104*	*104*
Renewable Electricity Generation (thousand megawatthours per day)															
Electric Power Sector (a)															
Biomass	**90**	**86**	**90**	**90**	**92**	*87*	*95*	*90*	*90*	*89*	*97*	*92*	**89**	*91*	*92*
Waste	**49**	**47**	**47**	**47**	**49**	*50*	*51*	*50*	*49*	*50*	*51*	*50*	**48**	*50*	*50*
Wood	**41**	**39**	**43**	**43**	**43**	*37*	*44*	*40*	*41*	*39*	*46*	*42*	**41**	*41*	*42*
Conventional Hydroelectric	**913**	**1,005**	**713**	**643**	**850**	*915*	*693*	*643*	*755*	*879*	*719*	*640*	**818**	*774*	*748*
Geothermal	**45**	**43**	**44**	**43**	**45**	*44*	*45*	*45*	*46*	*45*	*45*	*46*	**44**	*45*	*45*
Large-Scale Solar (b)	**100**	**182**	**173**	**118**	**136**	*206*	*202*	*131*	*136*	*243*	*246*	*168*	**143**	*169*	*199*
Wind	**767**	**748**	**501**	**770**	**866**	*783*	*554*	*780*	*825*	*837*	*594*	*852*	**696**	*745*	*776*
Other Sectors (c)															
Biomass	**87**	**84**	**88**	**86**	**88**	*84*	*88*	*86*	*88*	*84*	*88*	*86*	**86**	*87*	*87*
Waste	**78**	**75**	**79**	**77**	**79**	*75*	*79*	*77*	*79*	*75*	*79*	*77*	**77**	*77*	*77*
Wood	**10**	**9**	**9**	**9**	**9**	*9*	*9*	*9*	*9*	*9*	*9*	*9*	**9**	*9*	*9*
Conventional Hydroelectric	**5**	**5**	**4**	**4**	**5**	*5*	*4*	*4*	*5*	*5*	*4*	*4*	**5**	*5*	*5*
Large-Scale Solar (b)	**1**	**2**	**2**	**1**	**1**	*2*	*3*	*2*	*3*	*3*	*3*	*3*	**2**	*2*	*3*
Small-Scale Solar (d)	**51**	**79**	**80**	**55**	**65**	*97*	*99*	*70*	*80*	*120*	*121*	*86*	**66**	*83*	*102*
Residential Sector	**29**	**46**	**46**	**31**	**37**	*56*	*58*	*41*	*47*	*71*	*72*	*51*	**38**	*48*	*60*
Commercial Sector	**17**	**25**	**25**	**18**	**21**	*31*	*31*	*22*	*26*	*38*	*38*	*27*	**21**	*26*	*32*
Industrial Sector	**5**	**8**	**8**	**6**	**6**	*9*	*9*	*7*	*7*	*11*	*11*	*8*	**7**	*8*	*9*
Wind	**1**	**1**	**0**	**1**	**1**	*1*	*1*	*1*	*1*	*1*	*1*	*1*	**1**	*1*	*1*

-- = no data available

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

(a) Power plants larger than or equal to one megawatt in size that are operated by electric utilities or independent power producers.

(b) Solar thermal and photovoltaic generating units at power plants larger than or equal to one megawatt.

(c) Businesses or individual households not primarily engaged in electric power production for sale to the public, whose generating capacity is at least one megawatt (except for small-scale solar photovoltaic data, which consists of systems smaller than one megawatt).

(d) Solar photovoltaic systems smaller than one megawatt, as measured in alternating current.

Historical data: Latest data available from EIA databases supporting the Electric Power Monthly, DOE/EIA-0226.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA-860M database, EIA-826 Solar PV database, and EIA Regional Short-Term Energy Model.

Table 9a. U.S. Macroeconomic Indicators and CC_2 Emissions

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Macroeconomic															
Real Gross Domestic Product															
(billion chained 2009 dollars - SAAR)	**16,903**	**17,031**	**17,164**	**17,286**	**17,386**	*17,508*	*17,634*	*17,763*	*17,883*	*17,986*	*18,081*	*18,175*	**17,096**	*17,573*	*18,032*
Real Personal Consumption Expend.															
(billion chained 2009 dollars - SAAR)	**11,758**	**11,853**	**11,917**	**12,035**	**12,067**	*12,143*	*12,206*	*12,272*	*12,334*	*12,396*	*12,465*	*12,542*	**11,891**	*12,172*	*12,434*
Real Fixed Investment															
(billion chained 2009 dollars - SAAR)	**2,876**	**2,898**	**2,916**	**2,974**	**3,007**	*3,039*	*3,082*	*3,121*	*3,164*	*3,201*	*3,235*	*3,266*	**2,916**	*3,062*	*3,217*
Business Inventory Change															
(billion chained 2009 dollars - SAAR)	**0**	**5**	**42**	**16**	**37**	*51*	*58*	*69*	*83*	*90*	*90*	*88*	**16**	*54*	*88*
Real Government Expenditures															
(billion chained 2009 dollars - SAAR)	**2,897**	**2,895**	**2,900**	**2,922**	**2,930**	*2,945*	*2,966*	*2,993*	*3,012*	*3,024*	*3,032*	*3,035*	**2,903**	*2,958*	*3,026*
Real Exports of Goods & Services															
(billion chained 2009 dollars - SAAR)	**2,162**	**2,181**	**2,192**	**2,230**	**2,256**	*2,289*	*2,327*	*2,368*	*2,402*	*2,441*	*2,484*	*2,531*	**2,191**	*2,310*	*2,465*
Real Imports of Goods & Services															
(billion chained 2009 dollars - SAAR)	**2,785**	**2,795**	**2,790**	**2,884**	**2,902**	*2,947*	*2,993*	*3,045*	*3,096*	*3,152*	*3,212*	*3,277*	**2,813**	*2,972*	*3,185*
Real Disposable Personal Income															
(billion chained 2009 dollars - SAAR)	**12,680**	**12,766**	**12,788**	**12,822**	**12,931**	*12,992*	*13,031*	*13,135*	*13,275*	*13,369*	*13,462*	*13,561*	**12,764**	*13,022*	*13,417*
Non-Farm Employment															
(millions)	**145.9**	**146.3**	**146.9**	**147.4**	**148.1**	*148.6*	*149.3*	*149.9*	*150.4*	*150.9*	*151.2*	*151.4*	**146.6**	*149.0*	*151.0*
Civilian Unemployment Rate															
(percent)	**4.7**	**4.3**	**4.3**	**4.1**	**4.1**	*3.9*	*3.8*	*3.7*	*3.6*	*3.5*	*3.6*	*3.7*	**4.4**	*3.9*	*3.6*
Housing Starts															
(millions - SAAR)	**1.23**	**1.17**	**1.17**	**1.26**	**1.32**	*1.31*	*1.34*	*1.37*	*1.38*	*1.38*	*1.40*	*1.40*	**1.21**	*1.33*	*1.39*
Industrial Production Indices (Index, 2012=100)															
Total Industrial Production	**102.5**	**103.7**	**103.3**	**105.3**	**105.9**	*107.0*	*107.2*	*108.2*	*109.1*	*109.9*	*110.6*	*111.3*	**103.7**	*107.1*	*110.2*
Manufacturing	**102.0**	**102.7**	**102.2**	**103.6**	**104.0**	*104.8*	*105.1*	*106.1*	*106.9*	*107.5*	*108.1*	*108.8*	**102.6**	*105.0*	*107.8*
Food	**109.2**	**110.1**	**112.1**	**112.5**	**114.1**	*114.4*	*114.5*	*115.0*	*115.5*	*116.1*	*116.6*	*117.1*	**111.0**	*114.5*	*116.3*
Paper	**97.8**	**96.9**	**96.4**	**96.1**	**95.5**	*95.6*	*95.5*	*95.5*	*95.4*	*95.4*	*95.4*	*95.7*	**96.8**	*95.5*	*95.5*
Petroleum and Coal Products	**105.5**	**108.9**	**104.7**	**107.4**	**106.3**	*107.1*	*107.5*	*107.9*	*108.2*	*108.5*	*108.9*	*109.4*	**106.6**	*107.2*	*108.8*
Chemicals	**94.2**	**95.9**	**94.7**	**97.7**	**96.8**	*98.2*	*98.7*	*99.6*	*100.4*	*101.2*	*102.0*	*103.0*	**95.6**	*98.3*	*101.6*
Nonmetallic Mineral Products	**114.0**	**113.2**	**113.6**	**117.1**	**119.5**	*121.3*	*121.8*	*122.6*	*123.6*	*124.5*	*125.4*	*126.5*	**114.5**	*121.3*	*125.0*
Primary Metals	**94.0**	**92.9**	**93.6**	**95.2**	**95.9**	*97.4*	*98.3*	*98.9*	*98.9*	*99.0*	*99.3*	*99.9*	**93.9**	*97.6*	*99.3*
Coal-weighted Manufacturing (a)	**101.7**	**102.1**	**101.1**	**103.3**	**103.4**	*104.4*	*105.0*	*105.6*	*106.0*	*106.6*	*107.2*	*108.0*	**102.0**	*104.6*	*106.9*
Distillate-weighted Manufacturing (a)	**107.8**	**108.2**	**108.2**	**110.1**	**111.0**	*111.9*	*112.5*	*113.2*	*113.7*	*114.3*	*114.9*	*115.7*	**108.6**	*112.1*	*114.7*
Electricity-weighted Manufacturing (a)	**102.1**	**102.8**	**101.9**	**103.9**	**104.0**	*105.0*	*105.6*	*106.4*	*107.0*	*107.6*	*108.4*	*109.3*	**102.7**	*105.3*	*108.1*
Natural Gas-weighted Manufacturing (a)	**101.7**	**103.5**	**101.6**	**104.5**	**103.6**	*104.7*	*105.3*	*106.2*	*106.9*	*107.6*	*108.5*	*109.6*	**102.9**	*104.9*	*108.1*
Price Indexes															
Consumer Price Index (all urban consumers)															
(index, 1982-1984=1.00)	**2.44**	**2.44**	**2.45**	**2.47**	**2.49**	*2.51*	*2.53*	*2.54*	*2.55*	*2.56*	*2.58*	*2.59*	**2.45**	*2.52*	*2.57*
Producer Price Index: All Commodities															
(index, 1982=1.00)	**1.93**	**1.92**	**1.92**	**1.97**	**2.01**	*2.03*	*2.04*	*2.05*	*2.05*	*2.06*	*2.07*	*2.08*	**1.94**	*2.03*	*2.06*
Producer Price Index: Petroleum															
(index, 1982=1.00)	**1.66**	**1.67**	**1.75**	**1.91**	**2.00**	*2.17*	*2.16*	*2.08*	*2.03*	*2.09*	*2.08*	*2.01*	**1.75**	*2.10*	*2.05*
GDP Implicit Price Deflator															
(index, 2009=100)	**112.8**	**113.0**	**113.6**	**114.3**	**114.8**	*115.4*	*116.0*	*116.7*	*117.5*	*118.3*	*119.1*	*119.7*	**113.4**	*115.8*	*118.7*
Miscellaneous															
Vehicle Miles Traveled (b)															
(million miles/day)	**8,210**	**9,202**	**9,057**	**8,730**	**8,238**	*9,318*	*9,173*	*8,846*	*8,462*	*9,428*	*9,286*	*8,967*	**8,802**	*8,896*	*9,038*
Air Travel Capacity															
(Available ton-miles/day, thousands)	**567**	**619**	**661**	**631**	**602**	*577*	*611*	*627*	*624*	*577*	*609*	*628*	**620**	*604*	*609*
Aircraft Utilization															
(Revenue ton-miles/day, thousands)	**344**	**390**	**398**	**382**	**366**	*371*	*370*	*393*	*390*	*367*	*371*	*396*	**378**	*375*	*381*
Airline Ticket Price Index															
(index, 1982-1984=100)	**277.8**	**297.0**	**264.9**	**263.4**	**262.8**	*291.6*	*285.8*	*306.6*	*327.7*	*346.6*	*310.2*	*322.1*	**275.8**	*286.7*	*326.7*
Raw Steel Production															
(million short tons per day)	**0.248**	**0.247**	**0.250**	**0.245**	**0.251**	*0.253*	*0.237*	*0.207*	*0.261*	*0.258*	*0.239*	*0.207*	**0.248**	*0.237*	*0.241*
Carbon Dioxide (CO_2) Emissions (million metric tons)															
Petroleum	**565**	**588**	**593**	**592**	**575**	*586*	*598*	*594*	*580*	*591*	*605*	*603*	**2,338**	*2,353*	*2,380*
Natural Gas	**422**	**311**	**334**	**405**	**473**	*346*	*347*	*410*	*466*	*338*	*355*	*416*	**1,472**	*1,576*	*1,575*
Coal	**319**	**307**	**375**	**317**	**310**	*283*	*359*	*305*	*318*	*274*	*349*	*299*	**1,318**	*1,257*	*1,240*
Total Energy (c)	**1,309**	**1,209**	**1,305**	**1,318**	**1,361**	*1,217*	*1,307*	*1,312*	*1,367*	*1,206*	*1,312*	*1,321*	**5,140**	*5,198*	*5,207*

- = 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. U.S. macroeconomic projections are based on the IHS Markit model of the U.S. Economy.

Table 9b. U.S. Regional Macroeconomic Data

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Real Gross State Product (Billion $2009)															
New England	**889**	**892**	**903**	**909**	**913**	*919*	*924*	*929*	*934*	*938*	*942*	*947*	**898**	*921*	*940*
Middle Atlantic	**2,492**	**2,499**	**2,519**	**2,527**	**2,539**	*2,553*	*2,568*	*2,582*	*2,594*	*2,605*	*2,615*	*2,627*	**2,509**	*2,561*	*2,610*
E. N. Central	**2,317**	**2,324**	**2,346**	**2,362**	**2,373**	*2,385*	*2,399*	*2,414*	*2,428*	*2,438*	*2,448*	*2,458*	**2,337**	*2,393*	*2,443*
W. N. Central	**1,078**	**1,089**	**1,084**	**1,088**	**1,092**	*1,098*	*1,104*	*1,112*	*1,117*	*1,122*	*1,127*	*1,132*	**1,085**	*1,102*	*1,125*
S. Atlantic	**3,007**	**3,020**	**3,047**	**3,069**	**3,089**	*3,111*	*3,135*	*3,159*	*3,183*	*3,201*	*3,218*	*3,234*	**3,036**	*3,124*	*3,209*
E. S. Central	**759**	**762**	**767**	**773**	**776**	*781*	*786*	*791*	*796*	*800*	*804*	*808*	**765**	*784*	*802*
W. S. Central	**2,019**	**2,040**	**2,052**	**2,076**	**2,093**	*2,114*	*2,135*	*2,156*	*2,176*	*2,192*	*2,208*	*2,221*	**2,047**	*2,125*	*2,199*
Mountain	**1,082**	**1,092**	**1,110**	**1,118**	**1,127**	*1,136*	*1,146*	*1,156*	*1,166*	*1,175*	*1,182*	*1,190*	**1,101**	*1,141*	*1,178*
Pacific	**3,157**	**3,209**	**3,229**	**3,258**	**3,277**	*3,302*	*3,327*	*3,354*	*3,379*	*3,404*	*3,424*	*3,446*	**3,213**	*3,315*	*3,413*
Industrial Output, Manufacturing (Index, Year 2012=100)															
New England	**96.8**	**97.2**	**96.8**	**98.5**	**98.2**	*98.9*	*98.9*	*99.6*	*100.1*	*100.5*	*100.9*	*101.3*	**97.3**	*98.9*	*100.7*
Middle Atlantic	**97.0**	**97.5**	**96.9**	**97.5**	**97.5**	*98.1*	*98.3*	*99.1*	*99.7*	*100.0*	*100.5*	*100.9*	**97.2**	*98.3*	*100.3*
E. N. Central	**104.3**	**105.2**	**104.4**	**106.0**	**105.9**	*106.8*	*107.2*	*108.3*	*109.2*	*109.9*	*110.5*	*111.2*	**105.0**	*107.1*	*110.2*
W. N. Central	**101.1**	**101.8**	**101.5**	**103.0**	**103.7**	*104.5*	*104.8*	*105.8*	*106.6*	*107.3*	*107.9*	*108.6*	**101.8**	*104.7*	*107.6*
S. Atlantic	**105.6**	**106.4**	**105.8**	**107.1**	**107.7**	*108.4*	*108.6*	*109.6*	*110.3*	*110.9*	*111.4*	*112.1*	**106.2**	*108.6*	*111.2*
E. S. Central	**107.8**	**108.3**	**107.4**	**108.5**	**108.7**	*109.6*	*109.9*	*111.0*	*111.9*	*112.5*	*113.2*	*113.9*	**108.0**	*109.8*	*112.9*
W. S. Central	**95.1**	**96.0**	**95.9**	**96.8**	**97.3**	*98.3*	*98.8*	*100.0*	*100.9*	*101.7*	*102.4*	*103.1*	**95.9**	*98.6*	*102.0*
Mountain	**106.5**	**107.8**	**108.1**	**110.0**	**111.3**	*112.1*	*112.4*	*113.5*	*114.4*	*115.1*	*115.8*	*116.6*	**108.1**	*112.3*	*115.4*
Pacific	**102.2**	**102.7**	**101.7**	**103.0**	**103.9**	*104.7*	*105.0*	*106.1*	*106.8*	*107.4*	*108.0*	*108.6*	**102.4**	*104.9*	*107.7*
Real Personal Income (Billion $2009)															
New England	**774**	**776**	**782**	**786**	**789**	*792*	*794*	*800*	*807*	*812*	*816*	*821*	**779**	*794*	*814*
Middle Atlantic	**1,965**	**1,977**	**1,986**	**1,993**	**1,999**	*2,007*	*2,012*	*2,024*	*2,042*	*2,052*	*2,063*	*2,075*	**1,980**	*2,010*	*2,058*
E. N. Central	**2,106**	**2,109**	**2,121**	**2,130**	**2,140**	*2,148*	*2,154*	*2,168*	*2,188*	*2,200*	*2,212*	*2,226*	**2,117**	*2,153*	*2,207*
W. N. Central	**990**	**994**	**989**	**992**	**996**	*1,001*	*1,004*	*1,012*	*1,021*	*1,029*	*1,037*	*1,046*	**991**	*1,003*	*1,034*
S. Atlantic	**2,775**	**2,786**	**2,798**	**2,811**	**2,824**	*2,839*	*2,850*	*2,873*	*2,905*	*2,926*	*2,947*	*2,970*	**2,793**	*2,847*	*2,937*
E. S. Central	**778**	**780**	**781**	**785**	**787**	*790*	*792*	*798*	*806*	*811*	*816*	*821*	**781**	*792*	*814*
W. S. Central	**1,703**	**1,712**	**1,716**	**1,725**	**1,735**	*1,746*	*1,755*	*1,772*	*1,794*	*1,810*	*1,825*	*1,842*	**1,714**	*1,752*	*1,818*
Mountain	**976**	**980**	**991**	**997**	**1,002**	*1,009*	*1,013*	*1,023*	*1,035*	*1,044*	*1,052*	*1,061*	**986**	*1,012*	*1,048*
Pacific	**2,396**	**2,424**	**2,433**	**2,445**	**2,454**	*2,467*	*2,476*	*2,498*	*2,523*	*2,542*	*2,560*	*2,580*	**2,425**	*2,474*	*2,551*
Households (Thousands)															
New England	**5,859**	**5,868**	**5,888**	**5,896**	**5,905**	*5,914*	*5,922*	*5,930*	*5,939*	*5,948*	*5,957*	*5,966*	**5,896**	*5,930*	*5,966*
Middle Atlantic	**15,899**	**15,915**	**15,967**	**15,982**	**16,002**	*16,021*	*16,040*	*16,059*	*16,079*	*16,098*	*16,117*	*16,140*	**15,982**	*16,059*	*16,140*
E. N. Central	**18,823**	**18,840**	**18,900**	**18,917**	**18,943**	*18,973*	*18,998*	*19,023*	*19,044*	*19,069*	*19,096*	*19,127*	**18,917**	*19,023*	*19,127*
W. N. Central	**8,518**	**8,536**	**8,574**	**8,594**	**8,620**	*8,646*	*8,667*	*8,688*	*8,708*	*8,728*	*8,749*	*8,771*	**8,594**	*8,688*	*8,771*
S. Atlantic	**25,184**	**25,275**	**25,434**	**25,530**	**25,632**	*25,734*	*25,827*	*25,919*	*26,013*	*26,103*	*26,191*	*26,283*	**25,530**	*25,919*	*26,283*
E. S. Central	**7,602**	**7,617**	**7,649**	**7,665**	**7,685**	*7,705*	*7,722*	*7,739*	*7,757*	*7,776*	*7,794*	*7,814*	**7,665**	*7,739*	*7,814*
W. S. Central	**14,579**	**14,625**	**14,704**	**14,749**	**14,800**	*14,852*	*14,906*	*14,962*	*15,019*	*15,077*	*15,134*	*15,194*	**14,749**	*14,962*	*15,194*
Mountain	**9,036**	**9,074**	**9,132**	**9,172**	**9,216**	*9,261*	*9,303*	*9,344*	*9,385*	*9,426*	*9,466*	*9,508*	**9,172**	*9,344*	*9,508*
Pacific	**18,697**	**18,753**	**18,846**	**18,896**	**18,953**	*19,010*	*19,066*	*19,117*	*19,172*	*19,226*	*19,280*	*19,336*	**18,896**	*19,117*	*19,336*
Total Non-farm Employment (Millions)															
New England	**7.4**	**7.4**	**7.4**	**7.4**	**7.4**	*7.5*	*7.5*	*7.5*	*7.5*	*7.5*	*7.5*	*7.5*	**7.4**	*7.5*	*7.5*
Middle Atlantic	**19.5**	**19.5**	**19.6**	**19.7**	**19.7**	*19.8*	*19.8*	*19.9*	*19.9*	*20.0*	*20.0*	*20.0*	**19.6**	*19.8*	*20.0*
E. N. Central	**21.9**	**22.0**	**22.0**	**22.0**	**22.1**	*22.2*	*22.2*	*22.3*	*22.4*	*22.4*	*22.4*	*22.5*	**22.0**	*22.2*	*22.4*
W. N. Central	**10.6**	**10.6**	**10.7**	**10.7**	**10.7**	*10.7*	*10.8*	*10.8*	*10.8*	*10.8*	*10.9*	*10.9*	**10.6**	*10.7*	*10.9*
S. Atlantic	**28.0**	**28.1**	**28.2**	**28.3**	**28.4**	*28.6*	*28.7*	*28.8*	*29.0*	*29.1*	*29.1*	*29.2*	**28.2**	*28.6*	*29.1*
E. S. Central	**8.1**	**8.1**	**8.1**	**8.1**	**8.1**	*8.2*	*8.2*	*8.2*	*8.3*	*8.3*	*8.3*	*8.3*	**8.1**	*8.2*	*8.3*
W. S. Central	**17.0**	**17.0**	**17.1**	**17.2**	**17.3**	*17.4*	*17.5*	*17.6*	*17.7*	*17.7*	*17.8*	*17.9*	**17.1**	*17.4*	*17.8*
Mountain	**10.4**	**10.5**	**10.6**	**10.6**	**10.7**	*10.8*	*10.8*	*10.9*	*10.9*	*11.0*	*11.0*	*11.1*	**10.5**	*10.8*	*11.0*
Pacific	**22.8**	**22.9**	**23.0**	**23.2**	**23.3**	*23.4*	*23.5*	*23.6*	*23.7*	*23.8*	*23.8*	*23.9*	**23.0**	*23.4*	*23.8*

- = no data available

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

Regions refer to U.S. Census divisions.

See "Census division" in EIA's Energy Glossary (http://www.eia.doe.gov/glossary/index.html) for a list of States in each region.

Historical data: Latest data available from U.S. Department of Commerce, Bureau of Economic Analysis; Federal Reserve System, Statistical release G17.

Minor discrepancies with published historical data are due to independent rounding.

Projections: Macroeconomic projections are based on the IHS Markit model of the U.S. Economy.

Table 9c. U.S. Regional Weather Data

U.S. Energy Information Administration | Short-Term Energy Outlook - June 2018

	2017				2018				2019				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2017	2018	2019
Heating Degree Days															
New England	**2,984**	**804**	**93**	**2,170**	**3,058**	*962*	*130*	*2,161*	*3,152*	*858*	*131*	*2,161*	**6,052**	*6,311*	*6,301*
Middle Atlantic	**2,657**	**600**	**73**	**2,000**	**2,940**	*778*	*84*	*1,987*	*2,934*	*683*	*86*	*1,987*	**5,330**	*5,789*	*5,691*
E. N. Central	**2,691**	**628**	**105**	**2,263**	**3,210**	*904*	*130*	*2,228*	*3,142*	*727*	*130*	*2,228*	**5,688**	*6,472*	*6,227*
W. N. Central	**2,812**	**661**	**137**	**2,385**	**3,419**	*912*	*163*	*2,402*	*3,227*	*701*	*163*	*2,403*	**5,996**	*6,896*	*6,493*
South Atlantic	**1,148**	**125**	**15**	**946**	**1,444**	*220*	*14*	*1,000*	*1,460*	*192*	*14*	*999*	**2,234**	*2,678*	*2,665*
E. S. Central	**1,376**	**154**	**24**	**1,280**	**1,814**	*342*	*21*	*1,329*	*1,856*	*241*	*21*	*1,329*	**2,835**	*3,506*	*3,447*
W. S. Central	**776**	**66**	**4**	**741**	**1,195**	*164*	*4*	*814*	*1,187*	*83*	*4*	*813*	**1,586**	*2,177*	*2,088*
Mountain	**2,057**	**698**	**154**	**1,666**	**2,124**	*593*	*142*	*1,821*	*2,179*	*683*	*142*	*1,821*	**4,575**	*4,680*	*4,825*
Pacific	**1,559**	**532**	**68**	**1,029**	**1,438**	*504*	*88*	*1,197*	*1,486*	*584*	*89*	*1,198*	**3,187**	*3,227*	*3,356*
U.S. Average	**1,858**	**428**	**65**	**1,480**	**2,130**	*542*	*75*	*1,534*	*2,126*	*484*	*76*	*1,532*	**3,831**	*4,282*	*4,218*
Heating Degree Days, Prior 10-year Average															
New England	**3,201**	**831**	**122**	**2,125**	**3,172**	*818*	*119*	*2,121*	*3,166*	*826*	*117*	*2,108*	**6,279**	*6,230*	*6,218*
Middle Atlantic	**2,983**	**661**	**81**	**1,941**	**2,947**	*646*	*81*	*1,949*	*2,956*	*653*	*80*	*1,934*	**5,665**	*5,623*	*5,623*
E. N. Central	**3,255**	**701**	**114**	**2,198**	**3,209**	*692*	*116*	*2,211*	*3,196*	*705*	*119*	*2,188*	**6,267**	*6,228*	*6,208*
W. N. Central	**3,302**	**707**	**142**	**2,380**	**3,264**	*705*	*144*	*2,379*	*3,255*	*711*	*144*	*2,360*	**6,531**	*6,492*	*6,470*
South Atlantic	**1,502**	**188**	**12**	**966**	**1,476**	*177*	*12*	*974*	*1,480*	*177*	*13*	*967*	**2,667**	*2,639*	*2,636*
E. S. Central	**1,906**	**231**	**16**	**1,287**	**1,868**	*217*	*18*	*1,301*	*1,862*	*223*	*19*	*1,291*	**3,440**	*3,404*	*3,395*
W. S. Central	**1,228**	**88**	**4**	**799**	**1,182**	*80*	*4*	*801*	*1,184*	*87*	*4*	*798*	**2,119**	*2,067*	*2,072*
Mountain	**2,216**	**734**	**142**	**1,862**	**2,195**	*737*	*144*	*1,842*	*2,165*	*714*	*141*	*1,842*	**4,954**	*4,917*	*4,862*
Pacific	**1,462**	**598**	**89**	**1,205**	**1,465**	*593*	*84*	*1,181*	*1,444*	*578*	*83*	*1,183*	**3,354**	*3,322*	*3,288*
U.S. Average	**2,193**	**487**	**71**	**1,527**	**2,160**	*478*	*71*	*1,524*	*2,151*	*478*	*71*	*1,513*	**4,277**	*4,233*	*4,212*
Cooling Degree Days															
New England	**0**	**74**	**363**	**11**	**0**	*101*	*407*	*1*	*0*	*86*	*404*	*1*	**448**	*509*	*492*
Middle Atlantic	**0**	**139**	**501**	**22**	**0**	*180*	*523*	*4*	*0*	*154*	*523*	*4*	**662**	*708*	*682*
E. N. Central	**1**	**210**	**480**	**15**	**0**	*242*	*518*	*6*	*0*	*217*	*520*	*6*	**707**	*766*	*744*
W. N. Central	**9**	**265**	**624**	**14**	**2**	*336*	*654*	*10*	*3*	*265*	*659*	*10*	**911**	*1,002*	*936*
South Atlantic	**158**	**670**	**1,156**	**262**	**135**	*702*	*1,140*	*222*	*111*	*644*	*1,145*	*222*	**2,247**	*2,199*	*2,123*
E. S. Central	**65**	**481**	**964**	**73**	**37**	*547*	*1,025*	*62*	*26*	*519*	*1,033*	*62*	**1,583**	*1,671*	*1,640*
W. S. Central	**212**	**826**	**1,459**	**216**	**124**	*838*	*1,498*	*197*	*83*	*864*	*1,519*	*198*	**2,713**	*2,658*	*2,664*
Mountain	**36**	**466**	**918**	**121**	**21**	*461*	*936*	*75*	*18*	*424*	*933*	*76*	**1,541**	*1,493*	*1,450*
Pacific	**30**	**219**	**700**	**98**	**31**	*160*	*581*	*58*	*28*	*167*	*574*	*58*	**1,047**	*831*	*827*
U.S. Average	**70**	**402**	**838**	**114**	**51**	*420*	*839*	*89*	*40*	*397*	*843*	*90*	**1,424**	*1,399*	*1,370*
Cooling Degree Days, Prior 10-year Average															
New England	**0**	**81**	**433**	**1**	**0**	*81*	*433*	*1*	*0*	*81*	*437*	*1*	**515**	*515*	*520*
Middle Atlantic	**0**	**169**	**566**	**6**	**0**	*166*	*567*	*5*	*0*	*166*	*571*	*6*	**741**	*738*	*742*
E. N. Central	**3**	**234**	**542**	**8**	**3**	*228*	*533*	*7*	*3*	*233*	*536*	*7*	**788**	*770*	*779*
W. N. Central	**7**	**281**	**672**	**12**	**7**	*277*	*659*	*11*	*7*	*288*	*665*	*12*	**973**	*954*	*972*
South Atlantic	**117**	**666**	**1,167**	**230**	**119**	*675*	*1,161*	*227*	*120*	*682*	*1,167*	*233*	**2,179**	*2,182*	*2,202*
E. S. Central	**33**	**544**	**1,056**	**65**	**34**	*539*	*1,031*	*63*	*36*	*544*	*1,035*	*65*	**1,698**	*1,667*	*1,680*
W. S. Central	**90**	**876**	**1,528**	**205**	**100**	*887*	*1,532*	*203*	*103*	*880*	*1,546*	*208*	**2,698**	*2,722*	*2,737*
Mountain	**23**	**424**	**930**	**81**	**24**	*426*	*922*	*84*	*25*	*433*	*926*	*83*	**1,458**	*1,456*	*1,467*
Pacific	**30**	**180**	**608**	**74**	**30**	*185*	*621*	*78*	*31*	*183*	*617*	*75*	**892**	*914*	*905*
U.S. Average	**43**	**405**	**857**	**94**	**45**	*408*	*855*	*94*	*46*	*411*	*861*	*96*	**1,399**	*1,402*	*1,414*

- = no data available

Notes: Regional degree days for each period are calculated by EIA as contemporaneous period population-weighted averages of state degree day data published by the National Oceanic and Atmospheric Administration (NOAA).

See *Change in Regional and U.S. Degree-Day Calculations* (http://www.eia.gov/forecasts/steo/special/pdf/2012_sp_04.pdf) for more information.

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

Regions refer to U.S. Census divisions. See "Census division" in EIA's Energy Glossary (http://www.eia.gov/tools/glossary/) for a list of states in each region.

Historical data: Latest data available from U.S. Department of Commerce, National Oceanic and Atmospheric Association (NOAA).

Projections: Based on forecasts by the NOAA Climate Prediction Center (http://www.cpc.ncep.noaa.gov/pacdir/DDdir/NHOME3.shtml).

Appendix to the June 2018 *Short-Term Energy Outlook*

This appendix is prepared in fulfillment of section 1245(d)(4)(A) of the National Defense Authorization Act (NDAA) for Fiscal Year 2012, as amended. The law requires the U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy, to submit to Congress a report on the availability and price of petroleum and petroleum products produced in countries other than Iran in the two-month period preceding the submission of the report. By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the U.S. Government. The data in this appendix, therefore, should not be construed as representing the views of the U.S. Department of Energy or other federal agencies.

EIA consulted with the U.S. Department of the Treasury, the U.S. Department of State, and the intelligence community in the process of developing the NDAA report, which was previously published as a stand-alone report. Detailed background and contextual information not repeated here can be found in early editions of the NDAA report.

This appendix is published in the *Short-Term Energy Outlook* in even numbered months.

Table a1. Summary of Estimated Petroleum and Other Liquids Quantities

	April 2018	May 2018	April-May 2018 Average	April-May 2017 Average	2015 – 2017 Average
Global Petroleum and Other Liquids (million barrels per day)					
Global Petroleum and Other Liquids Production (a)	99.6	100.2	99.9	97.2	97.3
Global Petroleum and Other Liquids Consumption (b)	99.4	99.2	99.3	97.5	96.9
Biofuels Production (c)	2.3	2.3	2.3	2.1	2.1
Biofuels Consumption (c)	2.1	2.2	2.1	2.1	2.1
Iran Liquid Fuels Production	4.7	4.7	4.7	4.8	4.1
Iran Liquid Fuels Consumption	1.8	1.8	1.8	1.8	1.8
Petroleum and Petroleum Products Produced and Consumed in Countries Other Than Iran (million barrels per day)					
Production (d)	92.6	93.2	92.9	90.3	91.1
Consumption (d)	95.5	95.2	95.4	93.6	93.0
Production minus Consumption	-2.9	-2.0	-2.5	-3.3	-1.9
World Inventory Net Withdrawals Including Iran	-0.3	-1.0	-0.6	0.3	-0.4
Estimated OECD Inventory Level (e) (million barrels)	2,815	2,840	2,828	3,048	2,968
OPEC Surplus Crude Oil Production Capacity (f)	2.0	1.9	2.0	2.2	1.6

Note: The term "petroleum and other liquids" encompasses crude oil, lease condensate, natural gas liquids, biofuels, coal-to-liquids, gas-to-liquids, and refinery processing gains, which are important to consider in concert due to the inter-related supply, demand, and price dynamics of petroleum, petroleum products, and related fuels.
(a) Production includes crude oil (including lease condensates), natural gas liquids, other liquids, and refinery processing gains.
(b) Consumption of petroleum by the OECD countries is synonymous with "products supplied," defined in the glossary of the EIA Petroleum Supply Monthly, DOE/EIA-0109. Consumption of petroleum by the non-OECD countries is "apparent consumption," which includes internal consumption, refinery fuel, and loss, and bunkering.
(c) Biofuels production and consumption are based on EIA estimates as published in the International Energy Statistics. Biofuels production in the third quarter tends to be at its highest level in the year as ethanol production in Brazil reaches its seasonal peak and is typically lowest in the first quarter as seasonal production falls in the South/South-Central region of Brazil.

(d) Global production of petroleum and petroleum products outside of Iran is derived by subtracting biofuels production and Iran liquid fuels production from global liquid fuels production. The same method is used to calculate global consumption outside of Iran.
(e) Estimated inventory level is for OECD countries only.
(f) EIA defines surplus oil production capacity as potential oil production that could be brought online within 30 days and sustained for at least 90 days, consistent with sound business practices. This does not include oil production increases that could not be sustained without degrading the future production capacity of a field.
Source: U.S. Energy Information Administration.

Table a2. Crude Oil and Petroleum Product Price Data

Item	April 2018	May 2018	April-May 2018 Average	April-May 2017 Average	2015 – 2017 Average
Brent Front Month Futures Price ($ per barrel)	71.76	77.01	74.45	52.52	51.16
WTI Front Month Futures Price ($ per barrel)	66.33	69.98	68.20	49.74	47.69
Dubai Front Month Futures Price ($ per barrel)	68.49	74.60	71.62	51.43	48.82
Brent 1st - 13th Month Futures Spread ($ per barrel)	5.56	4.92	5.23	-0.95	-3.90
WTI 1st - 13th Month Futures Spread ($ per barrel)	5.50	5.39	5.44	-1.45	-4.26
RBOB Front Month Futures Price ($ per gallon)	2.05	2.18	2.12	1.63	1.55
Heating Oil Front Month Futures Price ($ per gallon)	2.07	2.22	2.15	1.55	1.56
RBOB - Brent Futures Crack Spread ($ per gallon)	0.34	0.35	0.34	0.38	0.34
Heating Oil - Brent Futures Crack Spread ($ per gallon)	0.37	0.38	0.37	0.30	0.34

(a) Brent refers to Brent crude oil traded on the Intercontinental Exchange (ICE).
(b) WTI refers to West Texas Intermediate crude oil traded on the New York Mercantile Exchange (NYMEX), owned by Chicago Mercantile Exchange (CME) Group.
(c) RBOB refers to reformulated blendstock for oxygenate blending traded on the NYMEX.
Source: U.S. Energy Information Administration, based on Chicago Mercantile Exchange (CME), Intercontinental Exchange (ICE), and Dubai Mercantile Exchange (DME).