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# Petroleum Supply Monthly

## with data for September 2019

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# Preface

The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD)District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

## Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

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- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
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- Natural Gas Processing
- Refinery Operations
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**Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports | Adjust-ments[1] | Stock Change[2] | Refinery and Blender Net Inputs | Exports | Products Supplied[3] | |
| **Crude Oil[4]** | **373,896** | **– –** | **– –** | **194,340** | **12,264** | **-4,360** | **492,105** | **92,755** | **0** | **1,071,274** |
| **Hydrocarbon Gas Liquids** | **149,657** | **-603** | **18,392** | **4,952** | **– –** | **7,132** | **18,017** | **55,757** | **91,492** | **267,098** |
| Natural Gas Liquids | 149,657 | -603 | 9,902 | 4,294 | – – | 6,584 | 18,017 | 55,757 | 82,892 | 258,651 |
| Ethane | 54,443 | – – | 160 | – | – – | 2,127 | – – | 7,393 | 45,083 | 57,378 |
| Propane | 49,834 | – – | 8,154 | 2,869 | – – | 4,517 | – – | 33,053 | 23,287 | 95,589 |
| Normal Butane | 13,911 | – – | 2,003 | 1,047 | – – | -614 | 5,890 | 9,968 | 1,717 | 73,310 |
| Isobutane | 13,005 | – – | -415 | 374 | – – | -100 | 6,718 | 172 | 6,174 | 11,094 |
| Natural Gasoline | 18,464 | -603 | – – | 4 | – – | 654 | 5,409 | 5,170 | 6,632 | 21,280 |
| Refinery Olefins | – – | – – | 8,490 | 658 | – – | 548 | – – | – – | 8,600 | 8,447 |
| Ethylene | – – | – – | 8 | – | – – | 0 | – – | – – | 8 | 0 |
| Propylene | – – | – – | 8,449 | 355 | – – | 693 | – – | – – | 8,111 | 6,967 |
| Normal Butylene | – – | – – | 39 | 303 | – – | -151 | – – | – – | 493 | 1,454 |
| Isobutylene | – – | – – | -6 | – | – – | 6 | – – | – – | -12 | 26 |
| **Other Liquids** | – – | **35,215** | – – | **39,964** | **5,303** | **-1,080** | **65,503** | **12,795** | **3,264** | **330,824** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 35,219 | – – | 1,852 | 3,250 | -148 | 35,338 | 5,131 | 0 | 29,680 |
| Hydrogen | – – | – – | – – | – | 5,962 | – – | 5,962 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | 2,610 | – – | 44 | -472 | -172 | – | 2,354 | 0 | 1,320 |
| Renewable Fuels (including Fuel Ethanol) | – – | 32,609 | – – | 1,808 | -2,273 | 24 | 29,342 | 2,778 | 0 | 28,345 |
| Fuel Ethanol[5] | – – | 29,232 | – – | 1,203 | 24 | 315 | 27,604 | 2,540 | 0 | 23,036 |
| Renewable Fuels Except Fuel Ethanol | – – | 3,377 | – – | 605 | -2,297 | -291 | 1,738 | 238 | 0 | 5,309 |
| Other Hydrocarbons | – – | – – | – – | – | 34 | 0 | 34 | – | 0 | 15 |
| Unfinished Oils | – – | – – | – – | 19,056 | – – | -2,448 | 11,322 | 6,897 | 3,285 | 92,213 |
| Motor Gasoline Blend.Comp. (MGBC)[5] | – – | -4 | – – | 19,056 | 2,052 | 1,513 | 18,825 | 766 | 0 | 208,887 |
| Reformulated | – – | – | – – | 6,202 | 6,492 | -3,482 | 16,153 | 23 | 0 | 45,447 |
| Conventional | – – | -4 | – – | 12,854 | -4,440 | 4,995 | 2,672 | 743 | 0 | 163,440 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – – | 3 | 18 | – | -21 | 44 |
| **Finished Petroleum Products** | – – | **133** | **588,122** | **20,769** | **-46** | **-4,291** | – – | **101,392** | **511,877** | **280,171** |
| Finished Motor Gasoline | – – | 133 | 297,671 | 3,024 | -2,076 | -76 | – – | 23,750 | 275,078 | 22,997 |
| Reformulated | – – | – | 96,837 | – | -6,895 | -3 | – – | – | 89,945 | 49 |
| Conventional | – – | 133 | 200,834 | 3,024 | 4,819 | -73 | – – | 23,750 | 185,133 | 22,948 |
| Finished Aviation Gasoline | – – | – – | 274 | 47 | – – | -106 | – – | – | 427 | 895 |
| Kerosene-Type Jet Fuel | – – | – – | 53,961 | 5,573 | – – | 1,140 | – – | 7,698 | 50,696 | 44,358 |
| Kerosene | – – | – – | 240 | – | – – | -113 | – – | 213 | 140 | 2,033 |
| Distillate Fuel Oil[5] | – – | – – | 151,048 | 3,341 | 2,030 | -3,909 | – – | 42,892 | 117,436 | 131,731 |
| 15 ppm sulfur and under | – – | – – | 142,344 | 3,077 | 2,030 | -4,261 | – – | 34,915 | 116,797 | 116,741 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 3,608 | 12 | – – | 260 | – – | 2,915 | 445 | 4,365 |
| Greater than 500 ppm sulfur | – – | – – | 5,096 | 252 | – – | 92 | – – | 5,062 | 194 | 10,625 |
| Residual Fuel Oil[6] | – – | – – | 11,483 | 4,966 | – – | 1,254 | – – | 7,091 | 8,104 | 29,896 |
| Less than 0.31 percent sulfur | – – | – – | 1,375 | 299 | – – | -368 | – – | NA | NA | 3,456 |
| 0.31 to 1.00 percent sulfur | – – | – – | 1,360 | 341 | – – | 256 | – – | NA | NA | 4,632 |
| Greater than 1.00 percent sulfur | – – | – – | 8,748 | 4,326 | – – | 1,363 | – – | NA | NA | 21,799 |
| Petrochemical Feedstocks | – – | – – | 9,374 | 595 | – – | -40 | – – | – – | 10,009 | 3,106 |
| Naphtha for Petro. Feed. Use | – – | – – | 5,950 | 544 | – – | -246 | – – | – – | 6,740 | 2,182 |
| Other Oils for Petro. Feed. Use | – – | – – | 3,424 | 51 | – – | 206 | – – | – – | 3,269 | 924 |
| Special Naphthas | – – | – – | 935 | 675 | – – | 108 | – – | – – | 1,502 | 1,219 |
| Lubricants | – – | – – | 5,527 | 763 | – – | 487 | – – | 2,795 | 3,008 | 11,449 |
| Waxes | – – | – – | 124 | 161 | – – | 8 | – – | 114 | 163 | 665 |
| Petroleum Coke | – – | – – | 24,694 | 49 | – – | 94 | – – | 15,987 | 8,662 | 8,557 |
| Marketable | – – | – – | 18,218 | 49 | – – | 94 | – – | 15,987 | 2,186 | 8,557 |
| Catalyst | – – | – – | 6,476 | – – | – – | – – | – – | – – | 6,476 | – – |
| Asphalt and Road Oil | – – | – – | 10,689 | 1,574 | – – | -3,177 | – – | 810 | 14,630 | 22,605 |
| Still Gas | – – | – – | 19,566 | – – | – – | – – | – – | – – | 19,566 | – – |
| Miscellaneous Products | – – | – – | 2,536 | 1 | – – | 39 | – – | 40 | 2,458 | 660 |
| **Total** | **523,553** | **34,745** | **606,514** | **260,025** | **17,521** | **-2,599** | **575,625** | **262,698** | **606,634** | **1,949,367** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
2 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
3 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
4 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.
5 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports | Adjust-ments[1] | Stock Change[2] | Refinery and Blender Net Inputs | Exports | Products Supplied[3] | |
| **Crude Oil[4]** | **3,288,639** | **– –** | **– –** | **1,900,385** | **112,999** | **-19,659** | **4,544,158** | **777,524** | **0** | **1,071,274** |
| **Hydrocarbon Gas Liquids** | **1,297,822** | **-5,567** | **189,703** | **55,838** | **– –** | **78,581** | **141,909** | **478,738** | **838,568** | **267,098** |
| Natural Gas Liquids | 1,297,822 | -5,567 | 113,569 | 50,112 | – – | 78,290 | 141,909 | 478,738 | 756,999 | 258,651 |
| Ethane | 495,944 | – – | 1,394 | – | – – | 7,738 | – – | 74,323 | 415,277 | 57,378 |
| Propane | 424,707 | – – | 78,677 | 35,694 | – – | 31,931 | – – | 286,247 | 220,900 | 95,589 |
| Normal Butane | 114,324 | – – | 36,651 | 10,623 | – – | 35,575 | 38,031 | 74,609 | 13,383 | 73,310 |
| Isobutane | 113,065 | – – | -3,153 | 3,751 | – – | 2,604 | 59,234 | 1,424 | 50,401 | 11,094 |
| Natural Gasoline | 149,782 | -5,567 | – – | 44 | – – | 442 | 44,644 | 42,134 | 57,039 | 21,280 |
| Refinery Olefins | – – | – – | 76,134 | 5,726 | – – | 291 | – – | – – | 81,569 | 8,447 |
| Ethylene | – – | – – | 84 | – | – – | 0 | – – | – – | 84 | 0 |
| Propylene | – – | – – | 76,996 | 4,141 | – – | 21 | – – | – – | 81,116 | 6,967 |
| Normal Butylene | – – | – – | -916 | 1,555 | – – | 379 | – – | – – | 260 | 1,454 |
| Isobutylene | – – | – – | -30 | 30 | – – | -109 | – – | – – | 109 | 26 |
| **Other Liquids** | – – | **334,080** | – – | **378,986** | **52,984** | **-6,981** | **629,165** | **135,039** | **8,827** | **330,824** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 334,119 | – – | 11,458 | 26,884 | -1,696 | 326,687 | 47,470 | 0 | 29,680 |
| Hydrogen | – – | – – | – – | – | 57,465 | – – | 57,465 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | 22,643 | – – | 866 | -5,088 | -231 | 30 | 18,622 | 0 | 1,320 |
| Renewable Fuels (including Fuel Ethanol) | – – | 311,476 | – – | 10,565 | -25,744 | -1,459 | 268,908 | 28,848 | 0 | 28,345 |
| Fuel Ethanol[5] | – – | 280,055 | – – | 3,464 | -4,844 | -302 | 252,543 | 26,434 | 0 | 23,036 |
| Renewable Fuels Except Fuel Ethanol | – – | 31,421 | – – | 7,101 | -20,900 | -1,157 | 16,365 | 2,414 | 0 | 5,309 |
| Other Hydrocarbons | – – | – – | – – | 27 | 251 | -6 | 284 | – | 0 | 15 |
| Unfinished Oils | – – | – – | – – | 167,558 | – – | 6,357 | 89,575 | 62,701 | 8,925 | 92,213 |
| Motor Gasoline Blend.Comp. (MGBC)[5] | – – | -39 | – – | 199,970 | 26,100 | -11,655 | 212,818 | 24,868 | 0 | 208,887 |
| Reformulated | – – | -3 | – – | 47,982 | 56,930 | -4,654 | 109,401 | 162 | 0 | 45,447 |
| Conventional | – – | -36 | – – | 151,988 | -30,831 | -7,001 | 103,417 | 24,705 | 0 | 163,440 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – – | 13 | 85 | – | -98 | 44 |
| **Finished Petroleum Products** | – – | **1,118** | **5,417,016** | **193,266** | **-2,003** | **-14,118** | – – | **893,068** | **4,730,447** | **280,171** |
| Finished Motor Gasoline | – – | 1,118 | 2,748,406 | 21,547 | -21,256 | -2,735 | – – | 210,259 | 2,542,291 | 22,997 |
| Reformulated | – – | – | 883,998 | – | -54,517 | 5 | – – | – | 829,476 | 49 |
| Conventional | – – | 1,118 | 1,864,408 | 21,547 | 33,261 | -2,740 | – – | 210,259 | 1,712,815 | 22,948 |
| Finished Aviation Gasoline | – – | – – | 3,298 | 258 | – – | -61 | – – | – | 3,617 | 895 |
| Kerosene-Type Jet Fuel | – – | – – | 490,866 | 46,081 | – – | 2,772 | – – | 59,147 | 475,028 | 44,358 |
| Kerosene | – – | – – | 1,773 | 101 | – – | -562 | – – | 776 | 1,660 | 2,033 |
| Distillate Fuel Oil[5] | – – | – – | 1,404,603 | 50,155 | 19,253 | -8,275 | – – | 369,621 | 1,112,665 | 131,731 |
| 15 ppm sulfur and under | – – | – – | 1,314,861 | 46,234 | 19,253 | -6,855 | – – | 296,404 | 1,090,799 | 116,741 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 34,575 | 645 | – – | -746 | – – | 33,007 | 2,959 | 4,365 |
| Greater than 500 ppm sulfur | – – | – – | 55,167 | 3,276 | – – | -674 | – – | 40,211 | 18,906 | 10,625 |
| Residual Fuel Oil[6] | – – | – – | 104,040 | 39,164 | – – | 1,582 | – – | 66,852 | 74,770 | 29,896 |
| Less than 0.31 percent sulfur | – – | – – | 15,396 | 3,814 | – – | 1,311 | – – | NA | NA | 3,456 |
| 0.31 to 1.00 percent sulfur | – – | – – | 13,822 | 5,078 | – – | -85 | – – | NA | NA | 4,632 |
| Greater than 1.00 percent sulfur | – – | – – | 74,822 | 30,272 | – – | 353 | – – | NA | NA | 21,799 |
| Petrochemical Feedstocks | – – | – – | 82,640 | 4,659 | – – | -298 | – – | – – | 87,597 | 3,106 |
| Naphtha for Petro. Feed. Use | – – | – – | 54,288 | 3,840 | – – | -212 | – – | – – | 58,340 | 2,182 |
| Other Oils for Petro. Feed. Use | – – | – – | 28,352 | 819 | – – | -86 | – – | – – | 29,257 | 924 |
| Special Naphthas | – – | – – | 8,536 | 4,484 | – – | -242 | – – | – – | 13,262 | 1,219 |
| Lubricants | – – | – – | 45,445 | 12,082 | – – | -2,506 | – – | 29,646 | 30,387 | 11,449 |
| Waxes | – – | – – | 1,228 | 1,365 | – – | -11 | – – | 1,081 | 1,523 | 665 |
| Petroleum Coke | – – | – – | 230,360 | 1,711 | – – | 658 | – – | 148,099 | 83,314 | 8,557 |
| Marketable | – – | – – | 170,505 | 1,711 | – – | 658 | – – | 148,099 | 23,459 | 8,557 |
| Catalyst | – – | – – | 59,855 | – – | – – | – – | – – | – – | 59,855 | – – |
| Asphalt and Road Oil | – – | – – | 89,525 | 11,650 | – – | -4,440 | – – | 7,150 | 98,465 | 22,605 |
| Still Gas | – – | – – | 182,731 | – – | – – | – – | – – | – – | 182,731 | – – |
| Miscellaneous Products | – – | – – | 23,565 | 9 | – – | 0 | – – | 435 | 23,139 | 660 |
| **Total** | **4,586,461** | **329,631** | **5,606,719** | **2,528,475** | **163,980** | **37,823** | **5,315,232** | **2,284,369** | **5,577,843** | **1,949,367** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
2 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
3 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
4 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.
5 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports | Adjust-ments[1] | Stock Change[2] | Refinery and Blender Net Inputs | Exports | Products Supplied[3] |
| **Crude Oil[4]** | **12,463** | **– –** | **– –** | **6,478** | **409** | **-145** | **16,404** | **3,092** | **0** |
| **Hydrocarbon Gas Liquids** | **4,989** | **-20** | **613** | **165** | **– –** | **238** | **601** | **1,859** | **3,050** |
| Natural Gas Liquids | 4,989 | -20 | 330 | 143 | – – | 219 | 601 | 1,859 | 2,763 |
| Ethane | 1,815 | – – | 5 | – | – – | 71 | – – | 246 | 1,503 |
| Propane | 1,661 | – – | 272 | 96 | – – | 151 | – – | 1,102 | 776 |
| Normal Butane | 464 | – – | 67 | 35 | – – | -20 | 196 | 332 | 57 |
| Isobutane | 434 | – – | -14 | 12 | – – | -3 | 224 | 6 | 206 |
| Natural Gasoline | 615 | -20 | – – | 0 | – – | 22 | 180 | 172 | 221 |
| Refinery Olefins | – – | – – | 283 | 22 | – – | 18 | – – | – – | 287 |
| Ethylene | – – | – – | 0 | – | – – | 0 | – – | – – | 0 |
| Propylene | – – | – – | 282 | 12 | – – | 23 | – – | – – | 270 |
| Normal Butylene | – – | – – | 1 | 10 | – – | -5 | – – | – – | 16 |
| Isobutylene | – – | – – | 0 | – | – – | 0 | – – | – – | 0 |
| **Other Liquids** | **– –** | **1,174** | **– –** | **1,332** | **177** | **-36** | **2,183** | **426** | **109** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 1,174 | – – | 62 | 108 | -5 | 1,178 | 171 | 0 |
| Hydrogen | – – | – – | – – | – | 199 | – – | 199 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | 87 | – – | 1 | -16 | -6 | – | 78 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 1,087 | – – | 60 | -76 | 1 | 978 | 93 | 0 |
| Fuel Ethanol[5] | – – | 974 | – – | 40 | 1 | 11 | 920 | 85 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 113 | – – | 20 | -77 | -10 | 58 | 8 | 0 |
| Other Hydrocarbons | – – | – – | – – | – | 1 | 0 | 1 | – | 0 |
| Unfinished Oils | – – | – – | – – | 635 | – – | -82 | 377 | 230 | 110 |
| Motor Gasoline Blend.Comp. (MGBC)[5] | – – | 0 | – – | 635 | 68 | 50 | 628 | 26 | 0 |
| Reformulated | – – | – | – – | 207 | 216 | -116 | 538 | 1 | 0 |
| Conventional | – – | 0 | – – | 428 | -148 | 167 | 89 | 25 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – – | 0 | 1 | – | -1 |
| **Finished Petroleum Products** | **– –** | **4** | **19,604** | **692** | **-2** | **-143** | **– –** | **3,380** | **17,063** |
| Finished Motor Gasoline | – – | 4 | 9,922 | 101 | -69 | -3 | – – | 792 | 9,169 |
| Reformulated | – – | – | 3,228 | – | -230 | 0 | – – | – | 2,998 |
| Conventional | – – | 4 | 6,694 | 101 | 161 | -2 | – – | 792 | 6,171 |
| Finished Aviation Gasoline | – – | – – | 9 | 2 | – – | -4 | – – | – | 14 |
| Kerosene-Type Jet Fuel | – – | – – | 1,799 | 186 | – – | 38 | – – | 257 | 1,690 |
| Kerosene | – – | – – | 8 | – | – – | -4 | – – | 7 | 5 |
| Distillate Fuel Oil[5] | – – | – – | 5,035 | 111 | 68 | -130 | – – | 1,430 | 3,915 |
| 15 ppm sulfur and under | – – | – – | 4,745 | 103 | 68 | -142 | – – | 1,164 | 3,893 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 120 | 0 | – – | 9 | – – | 97 | 15 |
| Greater than 500 ppm sulfur | – – | – – | 170 | 8 | – – | 3 | – – | 169 | 6 |
| Residual Fuel Oil[6] | – – | – – | 383 | 166 | – – | 42 | – – | 236 | 270 |
| Less than 0.31 percent sulfur | – – | – – | 46 | 10 | – – | -12 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 45 | 11 | – – | 9 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 292 | 144 | – – | 45 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | 312 | 20 | – – | -1 | – – | – – | 334 |
| Naphtha for Petro. Feed. Use | – – | – – | 198 | 18 | – – | -8 | – – | – – | 225 |
| Other Oils for Petro. Feed. Use | – – | – – | 114 | 2 | – – | 7 | – – | – – | 109 |
| Special Naphthas | – – | – – | 31 | 23 | – – | 4 | – – | – – | 50 |
| Lubricants | – – | – – | 184 | 25 | – – | 16 | – – | 93 | 100 |
| Waxes | – – | – – | 4 | 5 | – – | 0 | – – | 4 | 5 |
| Petroleum Coke | – – | – – | 823 | 2 | – – | 3 | – – | 533 | 289 |
| Marketable | – – | – – | 607 | 2 | – – | 3 | – – | 533 | 73 |
| Catalyst | – – | – – | 216 | – – | – – | – – | – – | – – | 216 |
| Asphalt and Road Oil | – – | – – | 356 | 52 | – – | -106 | – – | 27 | 488 |
| Still Gas | – – | – – | 652 | – – | – – | – – | – – | – – | 652 |
| Miscellaneous Products | – – | – – | 85 | 0 | – – | 1 | – – | 1 | 82 |
| **Total** | **17,452** | **1,158** | **20,217** | **8,668** | **584** | **-87** | **19,188** | **8,757** | **20,221** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
2 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
3 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
4 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.
5 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports | Adjustments[1] | Stock Change[2] | Refinery and Blender Net Inputs | Exports | Products Supplied[3] |
| **Crude Oil[4]** | **12,046** | – – | – – | **6,961** | **414** | **-72** | **16,645** | **2,848** | **0** |
| **Hydrocarbon Gas Liquids** | **4,754** | **-20** | **695** | **205** | – – | **288** | **520** | **1,754** | **3,072** |
| Natural Gas Liquids | 4,754 | -20 | 416 | 184 | – – | 287 | 520 | 1,754 | 2,773 |
| Ethane | 1,817 | – – | – | – | – – | 28 | – – | 272 | 1,521 |
| Propane | 1,556 | – – | 288 | 131 | – – | 117 | – – | 1,049 | 809 |
| Normal Butane | 419 | – – | 134 | 39 | – – | 130 | 139 | 273 | 49 |
| Isobutane | 414 | – – | -24 | 14 | – – | 10 | 217 | 5 | 185 |
| Natural Gasoline | 549 | -20 | – – | 0 | – – | 2 | 164 | 154 | 209 |
| Refinery Olefins | – – | – – | 279 | 21 | – – | 1 | – – | – – | 299 |
| Ethylene | – – | – – | 0 | – | – – | 0 | – – | – – | 0 |
| Propylene | – – | – – | 282 | 15 | – – | 0 | – – | – – | 297 |
| Normal Butylene | – – | – – | -3 | 6 | – – | 1 | – – | – – | 1 |
| Isobutylene | – – | – – | 262 | 0 | – – | 0 | – – | – – | 0 |
| **Other Liquids** | – – | **1,224** | – – | **1,388** | **194** | **-26** | **2,305** | **495** | **32** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 1,224 | – – | 42 | 98 | -6 | 1,197 | 174 | 0 |
| Hydrogen | – – | – – | – – | – | 210 | – – | 210 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | 83 | – – | 3 | -19 | -1 | 0 | 68 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 1,141 | – – | 39 | -94 | -5 | 985 | 106 | 0 |
| Fuel Ethanol[5] | – – | 1,026 | – – | 13 | -18 | -1 | 925 | 97 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 115 | – – | 26 | -77 | -4 | 60 | 9 | 0 |
| Other Hydrocarbons | – – | – – | – – | 0 | 1 | 0 | 1 | – | 0 |
| Unfinished Oils | – – | – – | – – | 614 | – – | 23 | 328 | 230 | 33 |
| Motor Gasoline Blend.Comp. (MGBC)[5] | – – | 0 | – – | 732 | 96 | -43 | 780 | 91 | 0 |
| Reformulated | – – | 0 | – – | 176 | 209 | -17 | 401 | 1 | 0 |
| Conventional | – – | 0 | – – | 557 | -113 | -26 | 379 | 90 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – – | 0 | 0 | – | 0 |
| **Finished Petroleum Products** | – – | **4** | **19,843** | **708** | **-7** | **-52** | – – | **3,271** | **17,328** |
| Finished Motor Gasoline | – – | 4 | 10,067 | 79 | -78 | -10 | – – | 770 | 9,312 |
| Reformulated | – – | – | 3,238 | – | -200 | 0 | – – | – | 3,038 |
| Conventional | – – | 4 | 6,829 | 79 | 122 | -10 | – – | 770 | 6,274 |
| Finished Aviation Gasoline | – – | – – | 12 | 1 | – – | 0 | – – | – | 13 |
| Kerosene-Type Jet Fuel | – – | – – | 1,798 | 169 | – – | 10 | – – | 217 | 1,740 |
| Kerosene | – – | – – | 6 | 0 | – – | -2 | – – | 3 | 6 |
| Distillate Fuel Oil[5] | – – | – – | 5,145 | 184 | 71 | -30 | – – | 1,354 | 4,076 |
| 15 ppm sulfur and under | – – | – – | 4,816 | 169 | 71 | -25 | – – | 1,086 | 3,996 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 127 | 2 | – – | -3 | – – | 121 | 11 |
| Greater than 500 ppm sulfur | – – | – – | 202 | 12 | – – | -2 | – – | 147 | 69 |
| Residual Fuel Oil[6] | – – | – – | 381 | 143 | – – | 6 | – – | 245 | 274 |
| Less than 0.31 percent sulfur | – – | – – | 56 | 14 | – – | 5 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 51 | 19 | – – | 0 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 274 | 111 | – – | 1 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | 303 | 17 | – – | -1 | – – | – – | 321 |
| Naphtha for Petro. Feed. Use | – – | – – | 199 | 14 | – – | -1 | – – | – – | 214 |
| Other Oils for Petro. Feed. Use | – – | – – | 104 | 3 | – – | 0 | – – | – – | 107 |
| Special Naphthas | – – | – – | 31 | 16 | – – | -1 | – – | – – | 49 |
| Lubricants | – – | – – | 166 | 44 | – – | -9 | – – | 109 | 111 |
| Waxes | – – | – – | 4 | 5 | – – | 0 | – – | 4 | 6 |
| Petroleum Coke | – – | – – | 844 | 6 | – – | 2 | – – | 542 | 305 |
| Marketable | – – | – – | 625 | 6 | – – | 2 | – – | 542 | 86 |
| Catalyst | – – | – – | 219 | – – | – – | – – | – – | – – | 219 |
| Asphalt and Road Oil | – – | – – | 328 | 43 | – – | -16 | – – | 26 | 361 |
| Still Gas | – – | – – | 669 | – – | – – | – – | – – | – – | 669 |
| Miscellaneous Products | – – | – – | 86 | 0 | – – | 0 | – – | 2 | 85 |
| **Total** | **16,800** | **1,207** | **20,537** | **9,262** | **601** | **139** | **19,470** | **8,368** | **20,432** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
2 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
3 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
4 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.
5 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

**Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] | |
| **Crude Oil** | **2,283** | **– –** | **– –** | **17,047** | **7,306** | **-1,248** | **-633** | **24,566** | **1,455** | **0** | **9,779** |
| **Hydrocarbon Gas Liquids** | **16,283** | **-14** | **930** | **886** | **1,370** | **– –** | **-138** | **1,851** | **8,041** | **9,701** | **11,950** |
| Natural Gas Liquids | 16,283 | -14 | 496 | 688 | 1,094 | – – | -288 | 1,851 | 8,041 | 8,943 | 11,609 |
| Ethane | 5,664 | – – | – | – | – | – – | 48 | – – | 637 | 150 | 663 |
| Propane | 6,095 | – – | 452 | 470 | 4,961 | – – | 5 | – – | 5,639 | 6,334 | 7,901 |
| Normal Butane | 1,945 | – – | 47 | 91 | 1,611 | – – | -467 | 1,484 | 1,554 | 1,123 | 2,533 |
| Isobutane | 820 | – – | -3 | 127 | -381 | – – | -8 | 299 | 1 | 271 | 155 |
| Natural Gasoline | 1,759 | -14 | – – | – | -268 | – – | 134 | 68 | 211 | 1,064 | 357 |
| Refinery Olefins | – – | – – | 434 | 198 | – | – – | 150 | – – | – – | 758 | 341 |
| Ethylene | – – | – – | 8 | – | – | – – | – | – – | – – | 8 | – |
| Propylene | – – | – – | 463 | 198 | – | – – | 37 | – – | – – | 900 | 155 |
| Normal Butylene | – – | – – | -63 | – | – | – – | 107 | – – | – – | -170 | 160 |
| Isobutylene | – – | – – | 26 | – | – | – – | 6 | – – | – – | 20 | 26 |
| **Other Liquids** | **– –** | **843** | **– –** | **17,318** | **59,995** | **5,784** | **-771** | **84,667** | **79** | **-35** | **73,168** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 846 | – – | 189 | 9,960 | -700 | -39 | 10,285 | 49 | 0 | 8,321 |
| Hydrogen | – – | – – | – – | – | – | 102 | – – | 102 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | – | – | 0 | 0 | – |
| Renewable Fuels (including Fuel Ethanol) | – – | 846 | – – | 189 | 9,960 | -803 | -39 | 10,183 | 48 | 0 | 8,321 |
| Fuel Ethanol | – – | 703 | – – | – | 9,808 | -642 | -119 | 9,941 | 47 | 0 | 7,144 |
| Renewable Fuels Except Fuel Ethanol | – – | 143 | – – | 189 | 152 | -161 | 80 | 242 | 1 | 0 | 1,177 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | 1,104 | -9 | – – | -965 | 2,072 | 23 | -35 | 4,132 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | -3 | – – | 16,025 | 50,044 | 6,484 | 233 | 72,310 | 7 | 0 | 60,715 |
| Reformulated | – – | – | – – | 6,202 | 6,804 | 2,690 | -772 | 16,466 | 2 | 0 | 18,535 |
| Conventional | – – | -3 | – – | 9,823 | 43,240 | 3,794 | 1,005 | 55,844 | 5 | 0 | 42,180 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **–** | **111,410** | **10,713** | **38,109** | **-5,777** | **-6,179** | **– –** | **6,196** | **154,437** | **70,188** |
| Finished Motor Gasoline | – – | – | 96,588 | 2,555 | 2,931 | -5,842 | -532 | – – | 1,378 | 95,385 | 4,213 |
| Reformulated | – – | – | 38,380 | – | – | -3,355 | 3 | – – | – | 35,022 | 36 |
| Conventional | – – | – | 58,208 | 2,555 | 2,931 | -2,487 | -535 | – – | 1,378 | 60,363 | 4,177 |
| Finished Aviation Gasoline | – – | – – | – | 42 | 98 | – – | 7 | – – | – | 133 | 195 |
| Kerosene-Type Jet Fuel | – – | – – | 2,935 | 1,329 | 13,806 | – – | -316 | – – | 782 | 17,604 | 10,593 |
| Kerosene | – – | – – | 63 | – | 198 | – – | 39 | – – | 1 | 221 | 1,688 |
| Distillate Fuel Oil[6] | – – | – – | 7,780 | 2,669 | 18,887 | 65 | -4,060 | – – | 1,664 | 31,797 | 40,145 |
| 15 ppm sulfur and under | – – | – – | 7,755 | 2,498 | 18,269 | 65 | -3,722 | – – | 814 | 31,495 | 35,281 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 114 | 12 | – | – – | -82 | – – | 364 | -156 | 1,465 |
| Greater than 500 ppm sulfur | – – | – – | -89 | 159 | 618 | – – | -256 | – – | 486 | 458 | 3,399 |
| Residual Fuel Oil[7] | – – | – – | 737 | 2,705 | -121 | – – | 34 | – – | 1,055 | 2,232 | 6,949 |
| Less than 0.31 percent sulfur | – – | – – | -44 | – | – | – – | -134 | – – | NA | NA | 1,569 |
| 0.31 to 1.00 percent sulfur | – – | – – | 315 | 137 | – | – – | -494 | – – | NA | NA | 1,066 |
| Greater than 1.00 percent sulfur | – – | – – | 466 | 2,568 | -121 | – – | 662 | – – | NA | NA | 4,314 |
| Petrochemical Feedstocks | – – | – – | -6 | – | – | – – | -6 | – – | – – | 0 | 43 |
| Naphtha for Petro. Feed. Use | – – | – – | -6 | – | – | – – | -6 | – – | – – | 0 | 43 |
| Other Oils for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Special Naphthas | – – | – – | 23 | 2 | – | – – | -3 | – – | – – | 28 | 36 |
| Lubricants | – – | – – | 337 | 183 | 361 | – – | -40 | – – | 304 | 617 | 1,090 |
| Waxes | – – | – – | 12 | 74 | – | – – | 12 | – – | 46 | 28 | 342 |
| Petroleum Coke | – – | – – | 784 | 1 | 681 | – – | – | – – | 831 | 635 | – |
| Marketable | – – | – – | 287 | 1 | 681 | – – | – | – – | 831 | 138 | – |
| Catalyst | – – | – – | 497 | – – | – – | – – | – – | – – | – – | 497 | – – |
| Asphalt and Road Oil | – – | – – | 1,072 | 1,153 | 1,267 | – – | -1,315 | – – | 118 | 4,690 | 4,861 |
| Still Gas | – – | – – | 1,007 | – – | – – | – – | – – | – – | – – | 1,007 | – – |
| Miscellaneous Products | – – | – – | 78 | – | – | – – | 1 | – – | 18 | 59 | 33 |
| **Total** | **18,566** | **829** | **112,340** | **45,964** | **106,780** | **-1,242** | **-7,721** | **111,084** | **15,771** | **164,103** | **165,085** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.
7 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] | |
| **Crude Oil** | **18,028** | **– –** | **– –** | **187,980** | **48,720** | **2,307** | **-1,876** | **255,352** | **3,559** | **0** | **9,779** |
| **Hydrocarbon Gas Liquids** | **148,882** | **-129** | **9,914** | **12,849** | **-19,261** | **– –** | **2,913** | **10,583** | **55,614** | **83,145** | **11,950** |
| Natural Gas Liquids | 148,882 | -129 | 6,529 | 10,628 | -21,961 | – – | 2,860 | 10,583 | 55,614 | 74,892 | 11,609 |
| Ethane | 58,870 | – – | – | – | – | – – | -180 | – – | 9,427 | 2,351 | 663 |
| Propane | 51,677 | – – | 4,713 | 8,711 | 26,847 | – – | 1,914 | – – | 33,565 | 56,469 | 7,901 |
| Normal Butane | 16,456 | – – | 1,840 | 461 | 2,668 | – – | 1,113 | 6,063 | 11,357 | 2,892 | 2,533 |
| Isobutane | 7,114 | – – | -24 | 1,456 | -1,919 | – – | -39 | 3,264 | 9 | 3,393 | 155 |
| Natural Gasoline | 14,765 | -129 | – – | – | -2,285 | – – | 52 | 1,256 | 1,256 | 9,787 | 357 |
| Refinery Olefins | – – | – – | 3,385 | 2,221 | – | – – | 53 | – – | – – | 8,253 | 341 |
| Ethylene | – – | – – | 84 | – | – | – – | – | – – | – – | 84 | – |
| Propylene | – – | – – | 3,420 | 2,221 | – | – – | 34 | – – | – – | 8,307 | 155 |
| Normal Butylene | – – | – – | -381 | – | – | – – | 53 | – – | – – | -434 | 160 |
| Isobutylene | – – | – – | 262 | – | – | – – | -34 | – – | – – | 296 | 26 |
| **Other Liquids** | **– –** | **8,256** | **– –** | **179,147** | **547,082** | **45,275** | **833** | **776,717** | **1,586** | **624** | **73,168** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 8,283 | – – | 1,330 | 89,462 | -1,455 | 205 | 96,229 | 1,187 | 0 | 8,321 |
| Hydrogen | – – | – – | – – | – | – | 851 | – – | 851 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 7 | – | – | 7 | 0 | – |
| Renewable Fuels (including Fuel Ethanol) | – – | 8,283 | – – | 1,330 | 89,462 | -2,313 | 205 | 95,378 | 1,180 | 0 | 8,321 |
| Fuel Ethanol | – – | 6,626 | – – | – | 87,262 | 256 | 563 | 92,494 | 1,087 | 0 | 7,144 |
| Renewable Fuels Except Fuel Ethanol | – – | 1,657 | – – | 1,330 | 2,200 | -2,569 | -358 | 2,884 | 93 | 0 | 1,177 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | 13,058 | 164 | – – | -1,073 | 13,430 | 241 | 624 | 4,132 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | -27 | – – | 164,759 | 457,456 | 46,729 | 1,701 | 667,058 | 158 | 0 | 60,715 |
| Reformulated | – – | – | – – | 45,146 | 71,992 | 22,999 | -297 | 140,422 | 12 | 0 | 18,535 |
| Conventional | – – | -27 | – – | 119,613 | 385,464 | 23,730 | 1,998 | 526,636 | 146 | 0 | 42,180 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **–** | **1,045,153** | **104,025** | **418,913** | **-44,568** | **-2,886** | **– –** | **38,293** | **1,488,116** | **70,188** |
| Finished Motor Gasoline | – – | – | 895,801 | 16,745 | 43,625 | -46,986 | 333 | – – | 4,030 | 904,822 | 4,213 |
| Reformulated | – – | – | 354,645 | – | – | -22,274 | 6 | – – | – | 332,365 | 36 |
| Conventional | – – | – | 541,156 | 16,745 | 43,625 | -24,712 | 327 | – – | 4,030 | 572,457 | 4,177 |
| Finished Aviation Gasoline | – – | – – | – | 122 | 698 | – – | 65 | – – | – | 755 | 195 |
| Kerosene-Type Jet Fuel | – – | – – | 27,428 | 15,614 | 134,451 | – – | 2,717 | – – | 4,906 | 169,870 | 10,593 |
| Kerosene | – – | – – | 502 | 101 | 884 | – – | -364 | – – | 281 | 1,570 | 1,688 |
| Distillate Fuel Oil[6] | – – | – – | 78,307 | 40,989 | 219,896 | 2,418 | -4,727 | – – | 11,670 | 334,667 | 40,145 |
| 15 ppm sulfur and under | – – | – – | 73,854 | 39,097 | 208,714 | 2,418 | -2,397 | – – | 7,715 | 318,765 | 35,281 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 1,755 | 645 | 144 | – – | -1,137 | – – | 2,722 | 959 | 1,465 |
| Greater than 500 ppm sulfur | – – | – – | 2,698 | 1,247 | 11,038 | – – | -1,193 | – – | 1,234 | 14,942 | 3,399 |
| Residual Fuel Oil[7] | – – | – – | 10,150 | 19,812 | -468 | – – | 916 | – – | 9,429 | 19,149 | 6,949 |
| Less than 0.31 percent sulfur | – – | – – | 1,930 | 996 | – | – – | 668 | – – | NA | NA | 1,569 |
| 0.31 to 1.00 percent sulfur | – – | – – | 4,233 | 2,002 | – | – – | -363 | – – | NA | NA | 1,066 |
| Greater than 1.00 percent sulfur | – – | – – | 3,987 | 16,814 | -468 | – – | 611 | – – | NA | NA | 4,314 |
| Petrochemical Feedstocks | – – | – – | 385 | 22 | 573 | – – | -37 | – – | – – | 1,017 | 43 |
| Naphtha for Petro. Feed. Use | – – | – – | 385 | 8 | – | – – | -37 | – – | – – | 430 | 43 |
| Other Oils for Petro. Feed. Use | – – | – – | – | 14 | 573 | – – | – | – – | – – | 587 | – |
| Special Naphthas | – – | – – | 187 | 8 | – | – – | -7 | – – | – – | 202 | 36 |
| Lubricants | – – | – – | 3,430 | 2,003 | 4,162 | – – | -211 | – – | 2,009 | 7,797 | 1,090 |
| Waxes | – – | – – | 85 | 615 | – | – – | -34 | – – | 503 | 231 | 342 |
| Petroleum Coke | – – | – – | 7,198 | 24 | 4,987 | – – | – | – – | 4,545 | 7,664 | – |
| Marketable | – – | – – | 2,294 | 24 | 4,987 | – – | – | – – | 4,545 | 2,760 | – |
| Catalyst | – – | – – | 4,904 | – – | – – | – – | – – | – – | – – | 4,904 | – – |
| Asphalt and Road Oil | – – | – – | 9,738 | 7,970 | 10,336 | – – | -1,536 | – – | 797 | 28,784 | 4,861 |
| Still Gas | – – | – – | 11,276 | – – | – – | – – | – – | – – | – – | 11,276 | – – |
| Miscellaneous Products | – – | – – | 666 | – | -231 | – – | -1 | – – | 123 | 313 | 33 |
| **Total** | **166,910** | **8,127** | **1,055,067** | **484,001** | **995,455** | **3,014** | **-1,016** | **1,042,652** | **99,053** | **1,571,885** | **165,085** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.
7 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] |
| **Crude Oil** | **76** | – – | – – | **568** | **244** | **-42** | **-21** | **819** | **48** | **0** |
| **Hydrocarbon Gas Liquids** | **543** | **0** | **31** | **30** | **46** | – – | **-5** | **62** | **268** | **323** |
| Natural Gas Liquids | 543 | 0 | 17 | 23 | 36 | – – | -10 | 62 | 268 | 298 |
| Ethane | 189 | – – | – | – | – | – – | 2 | – – | 21 | 5 |
| Propane | 203 | – – | 15 | 16 | 165 | – – | 0 | – – | – | 211 |
| Normal Butane | 65 | – – | 2 | 3 | 54 | – – | -16 | 49 | 52 | 37 |
| Isobutane | 27 | – – | 0 | 4 | -13 | – – | 0 | 10 | 0 | 9 |
| Natural Gasoline | 59 | 0 | – – | – | -9 | – – | 4 | 2 | 7 | 35 |
| Refinery Olefins | – – | – – | 14 | 7 | – | – – | 5 | – – | – – | 25 |
| Ethylene | – – | – – | 0 | – | – | – – | – | – – | – – | 0 |
| Propylene | – – | – – | 15 | 7 | 9 | – – | 1 | – – | – – | 30 |
| Normal Butylene | – – | – – | -2 | – | – | – – | 4 | – – | – – | -6 |
| Isobutylene | – – | – – | 1 | – | – | – – | 0 | – – | – – | 1 |
| **Other Liquids** | – – | **28** | – – | **577** | **2,000** | **193** | **-26** | **2,822** | **3** | **-1** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 28 | – – | 6 | 332 | -23 | -1 | 343 | 2 | 0 |
| Hydrogen | – – | – – | – – | – | – | 3 | – – | 3 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | – | – | 0 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 28 | – – | 6 | 332 | -27 | -1 | 339 | 2 | 0 |
| Fuel Ethanol[6] | – – | 23 | – – | – | 327 | -21 | -4 | 331 | 2 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 5 | – – | 6 | 5 | -5 | 3 | 8 | 0 | 0 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | 37 | 0 | – – | -32 | 69 | 1 | -1 |
| Motor Gasoline Blend.Comp. (MGBC)[6] | – – | 0 | – – | 534 | 1,668 | 216 | 8 | 2,410 | 0 | 0 |
| Reformulated | – – | – | – – | 207 | 227 | 90 | -26 | 549 | 0 | 0 |
| Conventional | – – | 0 | – – | 327 | 1,441 | 126 | 34 | 1,861 | 0 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – |
| **Finished Petroleum Products** | – – | – | **3,714** | **357** | **1,270** | **-193** | **-206** | – – | **207** | **5,148** |
| Finished Motor Gasoline | – – | – | 3,220 | 85 | 98 | -195 | -18 | – – | 46 | 3,180 |
| Reformulated | – – | – | 1,279 | – | – | -112 | 0 | – – | – | 1,167 |
| Conventional | – – | – | 1,940 | 85 | 98 | -83 | -18 | – – | 46 | 2,012 |
| Finished Aviation Gasoline | – – | – – | – | 1 | 3 | – – | 0 | – – | – | 4 |
| Kerosene-Type Jet Fuel | – – | – – | 98 | 44 | 460 | – – | -11 | – – | 26 | 587 |
| Kerosene | – – | – – | 2 | – | 7 | – – | 1 | – – | 0 | 7 |
| Distillate Fuel Oil[6] | – – | – – | 259 | 89 | 630 | 2 | -135 | – – | 55 | 1,060 |
| 15 ppm sulfur and under | – – | – – | 259 | 83 | 609 | 2 | -124 | – – | 27 | 1,050 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 4 | 0 | – | – – | -3 | – – | 12 | -5 |
| Greater than 500 ppm sulfur | – – | – – | -3 | 5 | 21 | – – | -9 | – – | 16 | 15 |
| Residual Fuel Oil[7] | – – | – – | 25 | 90 | -4 | – – | 1 | – – | 35 | 74 |
| Less than 0.31 percent sulfur | – – | – – | -1 | – | – | – – | -4 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 11 | 5 | – | – – | -16 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 16 | 86 | -4 | – – | 22 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | 0 | – | – | – – | 0 | – – | – – | 0 |
| Naphtha for Petro. Feed. Use | – – | – – | 0 | – | – | – – | 0 | – – | – – | 0 |
| Other Oils for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – |
| Special Naphthas | – – | – – | 1 | 0 | – | – – | 0 | – – | – – | 1 |
| Lubricants | – – | – – | 11 | 6 | 12 | – – | -1 | – – | 10 | 21 |
| Waxes | – – | – – | 0 | 2 | – | – – | 0 | – – | 2 | 1 |
| Petroleum Coke | – – | – – | 26 | 0 | 23 | – – | – | – – | 28 | 21 |
| Marketable | – – | – – | 10 | 0 | 23 | – – | – | – – | 28 | 5 |
| Catalyst | – – | – – | 17 | – – | – – | – – | – – | – – | – – | 17 |
| Asphalt and Road Oil | – – | – – | 36 | 38 | 42 | – – | -44 | – – | 4 | 156 |
| Still Gas | – – | – – | 34 | – – | – – | – – | – – | – – | – – | 34 |
| Miscellaneous Products | – – | – – | 3 | – | – | – – | 0 | – – | 1 | 2 |
| **Total** | **619** | **28** | **3,745** | **1,532** | **3,559** | **-41** | **-257** | **3,703** | **526** | **5,470** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.
7 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] |
| **Crude Oil** | **66** | **– –** | **– –** | **689** | **178** | **8** | **-7** | **935** | **13** | **0** |
| **Hydrocarbon Gas Liquids** | **545** | **0** | **36** | **47** | **-71** | **– –** | **11** | **39** | **204** | **305** |
| Natural Gas Liquids | 545 | 0 | 24 | 39 | -80 | – – | 10 | 39 | 204 | 274 |
| Ethane | 216 | – – | – | – | – | – – | -1 | – – | 35 | 9 |
| Propane | 189 | – – | 17 | 32 | 98 | – – | 7 | – – | – | 207 |
| Normal Butane | 60 | – – | 7 | 2 | 10 | – – | 4 | 22 | 42 | 11 |
| Isobutane | 26 | – – | 0 | 5 | -7 | – – | 0 | 12 | 0 | 12 |
| Natural Gasoline | 54 | 0 | – – | – | -8 | – – | 0 | 5 | 5 | 36 |
| Refinery Olefins | – – | – – | 12 | 8 | – | – – | 0 | – – | – – | 30 |
| Ethylene | – – | – – | 0 | – | – | – – | – | – – | – – | 0 |
| Propylene | – – | – – | 13 | 8 | 10 | – – | 0 | – – | – – | 30 |
| Normal Butylene | – – | – – | -1 | – | – | – – | 0 | – – | – – | -2 |
| Isobutylene | – – | – – | 1 | – | – | – – | 0 | – – | – – | 1 |
| **Other Liquids** | – – | **30** | – – | **656** | **2,004** | **166** | **3** | **2,845** | **6** | **2** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 30 | – – | 5 | 328 | -5 | 1 | 352 | 4 | 0 |
| Hydrogen | – – | – – | – – | – | – | 3 | – – | 3 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | – | – | 0 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 30 | – – | 5 | 328 | -8 | 1 | 349 | 4 | 0 |
| Fuel Ethanol[6] | – – | 24 | – – | – | 320 | 1 | 2 | 339 | 4 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 6 | – – | 5 | 8 | -9 | -1 | 11 | 0 | 0 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | 48 | 1 | – – | -4 | 49 | 1 | 2 |
| Motor Gasoline Blend.Comp. (MGBC)[6] | – – | 0 | – – | 604 | 1,676 | 171 | 6 | 2,443 | 1 | 0 |
| Reformulated | – – | – | – – | 165 | 264 | 84 | -1 | 514 | 0 | 0 |
| Conventional | – – | 0 | – – | 438 | 1,412 | 87 | 7 | 1,929 | 1 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – |
| **Finished Petroleum Products** | – – | **–** | **3,828** | **381** | **1,534** | **-163** | **-11** | – – | **140** | **5,451** |
| Finished Motor Gasoline | – – | – | 3,281 | 61 | 160 | -172 | 1 | – – | 15 | 3,314 |
| Reformulated | – – | – | 1,299 | – | – | -82 | 0 | – – | – | 1,217 |
| Conventional | – – | – | 1,982 | 61 | 160 | -91 | 1 | – – | 15 | 2,097 |
| Finished Aviation Gasoline | – – | – – | – | 0 | 3 | – – | 0 | – – | – | 3 |
| Kerosene-Type Jet Fuel | – – | – – | 100 | 57 | 492 | – – | 10 | – – | 18 | 622 |
| Kerosene | – – | – – | 2 | 0 | 3 | – – | -1 | – – | 1 | 6 |
| Distillate Fuel Oil[6] | – – | – – | 287 | 150 | 805 | 9 | -17 | – – | 43 | 1,226 |
| 15 ppm sulfur and under | – – | – – | 271 | 143 | 765 | 9 | -9 | – – | 28 | 1,168 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 6 | 2 | 1 | – – | -4 | – – | 10 | 4 |
| Greater than 500 ppm sulfur | – – | – – | 10 | 5 | 40 | – – | -4 | – – | 5 | 55 |
| Residual Fuel Oil[7] | – – | – – | 37 | 73 | -2 | – – | 3 | – – | 35 | 70 |
| Less than 0.31 percent sulfur | – – | – – | 7 | 4 | – | – – | 2 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 16 | 7 | – | – – | -1 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 15 | 62 | -2 | – – | 2 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | 1 | 0 | 2 | – – | 0 | – – | – – | 4 |
| Naphtha for Petro. Feed. Use | – – | – – | 1 | 0 | – | – – | 0 | – – | – – | 2 |
| Other Oils for Petro. Feed. Use | – – | – – | – | 0 | 2 | – – | – | – – | – – | 2 |
| Special Naphthas | – – | – – | 1 | 0 | – | – – | 0 | – – | – – | 1 |
| Lubricants | – – | – – | 13 | 7 | 15 | – – | -1 | – – | 7 | 29 |
| Waxes | – – | – – | 0 | 2 | – | – – | 0 | – – | 2 | 1 |
| Petroleum Coke | – – | – – | 26 | 0 | 18 | – – | – | – – | 17 | 28 |
| Marketable | – – | – – | 8 | 0 | 18 | – – | – | – – | 17 | 10 |
| Catalyst | – – | – – | 18 | – – | – – | – – | – – | – – | – – | 18 |
| Asphalt and Road Oil | – – | – – | 36 | 29 | 38 | – – | -6 | – – | 3 | 105 |
| Still Gas | – – | – – | 41 | – – | – – | – – | – – | – – | – – | 41 |
| Miscellaneous Products | – – | – – | 2 | – | -1 | – – | 0 | – – | 0 | 1 |
| **Total** | **611** | **30** | **3,865** | **1,773** | **3,646** | **11** | **-4** | **3,819** | **363** | **5,758** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.
7 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] | |
| **Crude Oil** | **67,210** | **– –** | **– –** | **83,996** | **-23,400** | **-3,459** | **2,443** | **116,636** | **5,268** | **0** | **127,979** |
| **Hydrocarbon Gas Liquids** | **32,166** | **-558** | **3,735** | **2,075** | **-16,805** | **– –** | **1,754** | **3,549** | **7,558** | **7,752** | **65,085** |
| Natural Gas Liquids | 32,166 | -558 | 2,443 | 1,807 | -16,138 | – – | 1,614 | 3,549 | 7,558 | 6,999 | 64,343 |
| Ethane | 10,064 | – – | – | – | – | – – | 936 | – – | 2,646 | 2,557 | 5,978 |
| Propane | 11,791 | – – | 2,143 | 1,224 | -9,950 | – – | 2,293 | – – | 83 | 2,832 | 27,307 |
| Normal Butane | 4,138 | – – | 339 | 371 | -5,384 | – – | -1,329 | 800 | 71 | -78 | 19,786 |
| Isobutane | 2,045 | – – | -39 | 208 | -442 | – – | -121 | 1,640 | 1 | 252 | 2,145 |
| Natural Gasoline | 4,128 | -558 | – – | 4 | 3,563 | – – | -165 | 1,109 | 4,757 | 1,436 | 9,127 |
| Refinery Olefins | – – | – – | 1,292 | 268 | – | – – | 140 | – – | – – | 753 | 742 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Propylene | – – | – – | 1,199 | 157 | – | – – | -63 | – – | – – | 752 | 486 |
| Normal Butylene | – – | – – | 93 | 111 | – | – – | 203 | – – | – – | 1 | 256 |
| Isobutylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 | 0 |
| **Other Liquids** | **– –** | **29,406** | **– –** | **314** | **-10,525** | **-3,018** | **-364** | **15,141** | **3,230** | **-1,829** | **66,282** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 29,407 | – – | 62 | -18,323 | -1,750 | -425 | 8,963 | 858 | 0 | 8,217 |
| Hydrogen | – – | – – | – – | – | – | 950 | – – | 950 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 2 | 0 | – | 2 | 0 | 2 |
| Renewable Fuels (including Fuel Ethanol) | – – | 29,407 | – – | 62 | -18,323 | -2,736 | -425 | 7,979 | 856 | 0 | 8,200 |
| Fuel Ethanol | – – | 27,095 | – – | – | -17,666 | -1,642 | -359 | 7,415 | 731 | 0 | 7,403 |
| Renewable Fuels Except Fuel Ethanol | – – | 2,312 | – – | 62 | -657 | -1,095 | -66 | 564 | 124 | 0 | 797 |
| Other Hydrocarbons | – – | – – | – – | – | – | 34 | 0 | 34 | – | 0 | 15 |
| Unfinished Oils | – – | – – | – – | 59 | -638 | – – | 250 | -1,269 | 2,269 | -1,829 | 13,747 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | -1 | – – | 193 | 8,436 | -1,267 | -189 | 7,447 | 103 | 0 | 44,318 |
| Reformulated | – – | – | – – | – | 2,730 | -1,683 | -671 | 1,718 | – | 0 | 5,252 |
| Conventional | – – | -1 | – – | 193 | 5,706 | 416 | 482 | 5,729 | 103 | 0 | 39,066 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **133** | **138,073** | **894** | **1,446** | **4,014** | **-1,387** | **– –** | **1,879** | **144,067** | **61,675** |
| Finished Motor Gasoline | – – | 133 | 77,485 | – | 495 | 2,909 | -135 | – – | 323 | 80,834 | 6,632 |
| Reformulated | – – | – | 10,687 | – | – | 1,952 | – | – – | – | 12,639 | – |
| Conventional | – – | 133 | 66,798 | – | 495 | 957 | -135 | – – | 323 | 68,195 | 6,632 |
| Finished Aviation Gasoline | – – | – – | – | 3 | 10 | – – | -17 | – – | – | 30 | 127 |
| Kerosene-Type Jet Fuel | – – | – – | 8,879 | – | 799 | – – | 582 | – – | 52 | 9,044 | 7,723 |
| Kerosene | – – | – – | 69 | – | – | – – | 20 | – – | 0 | 49 | 154 |
| Distillate Fuel Oil | – – | – – | 33,894 | 227 | 2,384 | 1,105 | -1,008 | – – | 393 | 38,225 | 33,005 |
| 15 ppm sulfur and under | – – | – – | 33,835 | 135 | 2,275 | 1,105 | -1,098 | – – | 1 | 38,447 | 31,941 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 129 | – | 109 | – – | 125 | – – | 182 | -69 | 608 |
| Greater than 500 ppm sulfur | – – | – – | -70 | 92 | – | – – | -35 | – – | 210 | -153 | 456 |
| Residual Fuel Oil[6] | – – | – – | 1,232 | 61 | -516 | – – | 2 | – – | 122 | 653 | 1,186 |
| Less than 0.31 percent sulfur | – – | – – | 66 | – | -63 | – – | 33 | – – | NA | NA | 74 |
| 0.31 to 1.00 percent sulfur | – – | – – | 158 | 14 | – | – – | 20 | – – | NA | NA | 221 |
| Greater than 1.00 percent sulfur | – – | – – | 1,008 | 47 | -453 | – – | -51 | – – | NA | NA | 891 |
| Petrochemical Feedstocks | – – | – – | 905 | 137 | -91 | – – | 56 | – – | – – | 895 | 556 |
| Naphtha for Petro. Feed. Use | – – | – – | 646 | 86 | -91 | – – | 47 | – – | – – | 594 | 456 |
| Other Oils for Petro. Feed. Use | – – | – – | 259 | 51 | – | – – | 9 | – – | – – | 301 | 100 |
| Special Naphthas | – – | – – | -28 | 4 | – | – – | 1 | – – | – – | -25 | 163 |
| Lubricants | – – | – – | 205 | 132 | 146 | – – | 59 | – – | 188 | 236 | 724 |
| Waxes | – – | – – | 34 | 5 | – | – – | 8 | – – | 33 | -2 | 68 |
| Petroleum Coke | – – | – – | 5,413 | 26 | -841 | – – | -236 | – – | 561 | 4,273 | 1,791 |
| Marketable | – – | – – | 4,059 | 26 | -841 | – – | -236 | – – | 561 | 2,919 | 1,791 |
| Catalyst | – – | – – | 1,354 | – – | – – | – – | – – | – – | – – | 1,354 | – – |
| Asphalt and Road Oil | – – | – – | 5,222 | 299 | -940 | – – | -717 | – – | 205 | 5,092 | 9,442 |
| Still Gas | – – | – – | 4,331 | – – | – – | – – | – – | – – | – – | 4,331 | – – |
| Miscellaneous Products | – – | – – | 432 | – | – | – – | -2 | – – | 3 | 431 | 104 |
| **Total** | **99,376** | **28,981** | **141,808** | **87,279** | **-49,285** | **-2,463** | **2,446** | **135,326** | **17,934** | **149,990** | **321,021** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] | |
| **Crude Oil** | **596,620** | **– –** | **– –** | **779,832** | **-243,086** | **-55,142** | **-4,123** | **1,038,298** | **44,048** | **0** | **127,979** |
| **Hydrocarbon Gas Liquids** | **277,084** | **-5,132** | **38,889** | **24,361** | **-92,833** | **– –** | **15,054** | **24,040** | **65,569** | **137,706** | **65,085** |
| Natural Gas Liquids | 277,084 | -5,132 | 26,879 | 21,864 | -87,116 | – – | 14,741 | 24,040 | 65,569 | 129,229 | 64,343 |
| Ethane | 91,912 | – – | – | – | – | – – | 787 | – – | 24,654 | 35,809 | 5,978 |
| Propane | 100,415 | – – | 20,371 | 15,298 | -62,793 | – – | 6,648 | – – | 878 | 65,765 | 27,307 |
| Normal Butane | 34,837 | – – | 26 | 4,848 | -25,797 | – – | 8,397 | 4,001 | 1,465 | 7,097 | 19,786 |
| Isobutane | 17,016 | – – | -546 | 1,674 | -2,027 | – – | 193 | 13,063 | 7 | 2,854 | 2,145 |
| Natural Gasoline | 32,904 | -5,132 | – – | 44 | 34,163 | – – | -1,284 | 6,976 | 38,583 | 17,704 | 9,127 |
| Refinery Olefins | – – | – – | 12,010 | 2,497 | – | – – | 313 | – – | – – | 8,477 | 742 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Propylene | – – | – – | 11,091 | 1,920 | – | – – | 131 | – – | – – | 7,163 | 486 |
| Normal Butylene | – – | – – | 874 | 547 | – | – – | 252 | – – | – – | 1,169 | 256 |
| Isobutylene | – – | – – | 45 | – | – | – – | -70 | – – | – – | 145 | 0 |
| **Other Liquids** | **– –** | **281,213** | **– –** | **4,028** | **-102,227** | **-15,233** | **-5,668** | **163,807** | **22,899** | **-13,256** | **66,282** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 281,225 | – – | 733 | -182,680 | -11,354 | -1,404 | 82,775 | 6,553 | 0 | 8,217 |
| Hydrogen | – – | – – | – – | – | – | 10,129 | – – | 10,129 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 13 | -2 | – | 15 | 0 | 2 |
| Renewable Fuels (including Fuel Ethanol) | – – | 281,225 | – – | 733 | -182,680 | -21,774 | -1,396 | 72,362 | 6,539 | 0 | 8,200 |
| Fuel Ethanol | – – | 260,012 | – – | – | -175,883 | -12,470 | -1,276 | 67,729 | 5,206 | 0 | 7,403 |
| Renewable Fuels Except Fuel Ethanol | – – | 21,213 | – – | 733 | -6,797 | -9,303 | -120 | 4,633 | 1,333 | 0 | 797 |
| Other Hydrocarbons | – – | – – | – – | – | – | 278 | -6 | 284 | – | 0 | 15 |
| Unfinished Oils | – – | – – | – – | 797 | -4,092 | – – | 1,003 | -5,996 | 14,954 | -13,256 | 13,747 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | -12 | – – | 2,498 | 84,545 | -3,879 | -5,267 | 87,028 | 1,391 | 0 | 44,318 |
| Reformulated | – – | -3 | – – | – | 31,455 | -15,890 | -937 | 16,499 | – | 0 | 5,252 |
| Conventional | – – | -9 | – – | 2,498 | 53,090 | 12,011 | -4,330 | 70,529 | 1,391 | 0 | 39,066 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **1,118** | **1,247,628** | **8,536** | **16,315** | **25,818** | **-2,376** | **– –** | **11,242** | **1,290,549** | **61,675** |
| Finished Motor Gasoline | – – | 1,118 | 706,720 | 1 | 5,536 | 16,349 | 128 | – – | 1,457 | 728,139 | 6,632 |
| Reformulated | – – | – | 97,420 | – | – | 18,838 | – | – – | – | 116,258 | – |
| Conventional | – – | 1,118 | 609,300 | 1 | 5,536 | -2,489 | 128 | – – | 1,457 | 611,881 | 6,632 |
| Finished Aviation Gasoline | – – | – – | 295 | 30 | 119 | – – | -39 | – – | – | 483 | 127 |
| Kerosene-Type Jet Fuel | – – | – – | 74,977 | – | 8,251 | – – | 186 | – – | 450 | 82,592 | 7,723 |
| Kerosene | – – | – – | 753 | – | 20 | – – | -127 | – – | 5 | 895 | 154 |
| Distillate Fuel Oil | – – | – – | 311,516 | 2,651 | 21,503 | 9,469 | -648 | – – | 2,195 | 343,593 | 33,005 |
| 15 ppm sulfur and under | – – | – – | 311,442 | 1,928 | 20,454 | 9,469 | -993 | – – | 93 | 344,194 | 31,941 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 808 | – | 998 | – – | 226 | – – | 872 | 708 | 608 |
| Greater than 500 ppm sulfur | – – | – – | -734 | 723 | 51 | – – | 119 | – – | 1,230 | -1,309 | 456 |
| Residual Fuel Oil[6] | – – | – – | 11,683 | 627 | -6,101 | – – | -94 | – – | 1,333 | 4,970 | 1,186 |
| Less than 0.31 percent sulfur | – – | – – | 610 | – | -586 | – – | 17 | – – | NA | NA | 74 |
| 0.31 to 1.00 percent sulfur | – – | – – | 1,650 | 193 | -149 | – – | -53 | – – | NA | NA | 221 |
| Greater than 1.00 percent sulfur | – – | – – | 9,423 | 434 | -5,366 | – – | -58 | – – | NA | NA | 891 |
| Petrochemical Feedstocks | – – | – – | 8,485 | 1,366 | -728 | – – | -9 | – – | – – | 9,132 | 556 |
| Naphtha for Petro. Feed. Use | – – | – – | 5,611 | 721 | -654 | – – | 29 | – – | – – | 5,649 | 456 |
| Other Oils for Petro. Feed. Use | – – | – – | 2,874 | 645 | -74 | – – | -38 | – – | – – | 3,483 | 100 |
| Special Naphthas | – – | – – | -90 | 49 | 191 | – – | -20 | – – | – – | 170 | 163 |
| Lubricants | – – | – – | 1,722 | 1,073 | 1,241 | – – | -103 | – – | 1,714 | 2,425 | 724 |
| Waxes | – – | – – | 270 | 41 | – | – – | 40 | – – | 301 | -30 | 68 |
| Petroleum Coke | – – | – – | 49,763 | 254 | -7,162 | – – | 453 | – – | 2,619 | 39,783 | 1,791 |
| Marketable | – – | – – | 37,051 | 254 | -7,162 | – – | 453 | – – | 2,619 | 27,071 | 1,791 |
| Catalyst | – – | – – | 12,712 | – – | – – | – – | – – | – – | – – | 12,712 | – – |
| Asphalt and Road Oil | – – | – – | 38,661 | 2,444 | -6,551 | – – | -2,130 | – – | 1,147 | 35,537 | 9,442 |
| Still Gas | – – | – – | 38,747 | – – | – – | – – | – – | – – | – – | 38,747 | – – |
| Miscellaneous Products | – – | – – | 4,126 | – | -4 | – – | -13 | – – | 23 | 4,112 | 104 |
| **Total** | **873,704** | **277,199** | **1,286,517** | **816,757** | **-421,831** | **-44,557** | **2,887** | **1,226,145** | **143,758** | **1,414,999** | **321,021** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] |
| **Crude Oil** | **2,240** | **– –** | **– –** | **2,800** | **-780** | **-115** | **81** | **3,888** | **176** | **0** |
| **Hydrocarbon Gas Liquids** | **1,072** | **-19** | **125** | **69** | **-560** | **– –** | **58** | **118** | **252** | **258** |
| Natural Gas Liquids | 1,072 | -19 | 81 | 60 | -538 | – – | 54 | 118 | 252 | 233 |
| Ethane | 335 | – – | – | – | – | – – | 31 | – – | 88 | 85 |
| Propane | 393 | – – | 71 | 41 | -332 | – – | 76 | – – | 3 | 94 |
| Normal Butane | 138 | – – | 1,005 | 12 | -179 | – – | -44 | 27 | 2 | -3 |
| Isobutane | 68 | – – | -1 | 7 | -15 | – – | -4 | 55 | 0 | 8 |
| Natural Gasoline | 138 | -19 | – – | 0 | 119 | – – | -6 | 37 | 159 | 48 |
| Refinery Olefins | – – | – – | 43 | 9 | – | – – | 5 | – – | – – | 25 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – |
| Propylene | – – | – – | 40 | 5 | -22 | – – | -2 | – – | – – | 25 |
| Normal Butylene | – – | – – | 3 | 4 | – | – – | 7 | – – | – – | 0 |
| Isobutylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 |
| **Other Liquids** | **– –** | **980** | **– –** | **10** | **-351** | **-101** | **-12** | **505** | **108** | **-61** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 980 | – – | 2 | -611 | -58 | -14 | 299 | 29 | 0 |
| Hydrogen | – – | – – | – – | – | – | 32 | – – | 32 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | 0 | – | 0 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 980 | – – | 2 | -611 | -91 | -14 | 266 | 29 | 0 |
| Fuel Ethanol | – – | 903 | – – | – | -589 | -55 | -12 | 247 | 24 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 77 | – – | 2 | -22 | -36 | -2 | 19 | 4 | 0 |
| Other Hydrocarbons | – – | – – | – – | – | – | 1 | 0 | 1 | – | 0 |
| Unfinished Oils | – – | – – | – – | 2 | -21 | – – | 8 | -42 | 76 | -61 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | 0 | – – | 6 | 281 | -42 | -6 | 248 | 3 | 0 |
| Reformulated | – – | – | – – | – | 91 | -56 | -22 | 57 | – | 0 |
| Conventional | – – | 0 | – – | 6 | 190 | 14 | 16 | 191 | 3 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **4** | **4,602** | **30** | **48** | **134** | **-46** | **– –** | **63** | **4,802** |
| Finished Motor Gasoline | – – | 4 | 2,583 | – | 17 | 97 | -5 | – – | 11 | 2,694 |
| Reformulated | – – | – | 356 | – | – | 65 | – | – – | – | 421 |
| Conventional | – – | 4 | 2,227 | – | 17 | 32 | -5 | – – | 11 | 2,273 |
| Finished Aviation Gasoline | – – | – – | – | 0 | 0 | – – | -1 | – – | – | 1 |
| Kerosene-Type Jet Fuel | – – | – – | 296 | – | 27 | – – | 19 | – – | 2 | 301 |
| Kerosene | – – | – – | 2 | – | – | – – | 1 | – – | 0 | 2 |
| Distillate Fuel Oil | – – | – – | 1,130 | 8 | 79 | 37 | -34 | – – | 13 | 1,274 |
| 15 ppm sulfur and under | – – | – – | 1,128 | 5 | 76 | 37 | -37 | – – | 0 | 1,282 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 4 | – | 4 | – – | 4 | – – | 6 | -2 |
| Greater than 500 ppm sulfur | – – | – – | -2 | 3 | – | – – | -1 | – – | 7 | -5 |
| Residual Fuel Oil[6] | – – | – – | 41 | 2 | -17 | – – | 0 | – – | 4 | 22 |
| Less than 0.31 percent sulfur | – – | – – | 2 | – | -2 | – – | 1 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 5 | 0 | – | – – | 1 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 34 | 2 | -15 | – – | -2 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | 30 | 5 | -3 | – – | 2 | – – | – – | 30 |
| Naphtha for Petro. Feed. Use | – – | – – | 22 | 3 | -3 | – – | 2 | – – | – – | 20 |
| Other Oils for Petro. Feed. Use | – – | – – | 9 | 2 | – | – – | 0 | – – | – – | 10 |
| Special Naphthas | – – | – – | -1 | 0 | – | – – | 0 | – – | – – | -1 |
| Lubricants | – – | – – | 7 | 4 | 5 | – – | 2 | – – | 6 | 8 |
| Waxes | – – | – – | 1 | 0 | – | – – | 0 | – – | 1 | 0 |
| Petroleum Coke | – – | – – | 180 | 1 | -28 | – – | -8 | – – | 19 | 142 |
| Marketable | – – | – – | 135 | 1 | -28 | – – | -8 | – – | 19 | 97 |
| Catalyst | – – | – – | 45 | – – | – – | – – | – – | – – | – – | 45 |
| Asphalt and Road Oil | – – | – – | 174 | 10 | -31 | – – | -24 | – – | 7 | 170 |
| Still Gas | – – | – – | 144 | – – | – – | – – | – – | – – | – – | 144 |
| Miscellaneous Products | – – | – – | 14 | – | – | – – | 0 | – – | 0 | 14 |
| **Total** | **3,313** | **966** | **4,727** | **2,909** | **-1,643** | **-82** | **82** | **4,511** | **598** | **5,000** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] |
| **Crude Oil** | **2,185** | **– –** | **– –** | **2,857** | **-890** | **-202** | **-15** | **3,803** | **161** | **0** |
| **Hydrocarbon Gas Liquids** | **1,015** | **-19** | **142** | **89** | **-340** | **– –** | **55** | **88** | **240** | **504** |
| Natural Gas Liquids | 1,015 | -19 | 98 | 80 | -319 | – – | 54 | 88 | 240 | 473 |
| Ethane | 337 | – – | – | – | – | – – | 3 | – – | 90 | 131 |
| Propane | 368 | – – | 75 | 56 | -230 | – – | 24 | – – | 3 | 241 |
| Normal Butane | 128 | – – | 26 | 18 | -94 | – – | 31 | 15 | 5 | 26 |
| Isobutane | 62 | – – | -2 | 6 | -7 | – – | 1 | 48 | 0 | 10 |
| Natural Gasoline | 121 | -19 | – – | 0 | 125 | – – | -5 | 26 | 141 | 65 |
| Refinery Olefins | – – | – – | 44 | 9 | – | – – | 1 | – – | – – | 31 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – |
| Propylene | – – | – – | 41 | 7 | -21 | – – | 0 | – – | – – | 26 |
| Normal Butylene | – – | – – | 3 | 2 | – | – – | 1 | – – | – – | 4 |
| Isobutylene | – – | – – | 0 | – | – | – – | 0 | – – | – – | 1 |
| **Other Liquids** | **– –** | **1,030** | **– –** | **15** | **-374** | **-56** | **-21** | **600** | **84** | **-49** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 1,030 | – – | 3 | -669 | -42 | -5 | 303 | 24 | 0 |
| Hydrogen | – – | – – | – – | – | – | 37 | – – | 37 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | 0 | – | 0 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 1,030 | – – | 3 | -669 | -80 | -5 | 265 | 24 | 0 |
| Fuel Ethanol | – – | 952 | – – | – | -644 | -46 | -5 | 248 | 19 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 78 | – – | 3 | -25 | -34 | 0 | 17 | 5 | 0 |
| Other Hydrocarbons | – – | – – | – – | – | – | 1 | 0 | 1 | – | 0 |
| Unfinished Oils | – – | – – | – – | 3 | -15 | – – | 4 | -22 | 55 | -49 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | 0 | – – | 9 | 310 | -14 | -19 | 319 | 5 | 0 |
| Reformulated | – – | 0 | – – | – | 115 | -58 | -3 | 60 | – | 0 |
| Conventional | – – | 0 | – – | 9 | 194 | 44 | -16 | 258 | 5 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **4** | **4,570** | **31** | **60** | **95** | **-9** | **– –** | **41** | **4,727** |
| Finished Motor Gasoline | – – | 4 | 2,589 | 0 | 20 | 60 | 0 | – – | 5 | 2,667 |
| Reformulated | – – | – | 357 | – | – | 69 | – | – – | – | 426 |
| Conventional | – – | 4 | 2,232 | 0 | 20 | -9 | 0 | – – | 5 | 2,241 |
| Finished Aviation Gasoline | – – | – – | 1 | 0 | 0 | – – | 0 | – – | – | 2 |
| Kerosene-Type Jet Fuel | – – | – – | 275 | – | 30 | – – | 1 | – – | 2 | 303 |
| Kerosene | – – | – – | 3 | – | 0 | – – | 0 | – – | 0 | 3 |
| Distillate Fuel Oil | – – | – – | 1,141 | 10 | 79 | 35 | -2 | – – | 8 | 1,259 |
| 15 ppm sulfur and under | – – | – – | 1,141 | 7 | 75 | 35 | -4 | – – | 0 | 1,261 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 3 | – | 4 | – – | 1 | – – | 3 | 3 |
| Greater than 500 ppm sulfur | – – | – – | -3 | 3 | 0 | – – | 0 | – – | 5 | -5 |
| Residual Fuel Oil[6] | – – | – – | 43 | 2 | -22 | – – | 0 | – – | 5 | 18 |
| Less than 0.31 percent sulfur | – – | – – | 2 | – | -2 | – – | 0 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 6 | 1 | -1 | – – | 0 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 35 | 2 | -20 | – – | 0 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | 31 | 5 | -3 | – – | 0 | – – | – – | 33 |
| Naphtha for Petro. Feed. Use | – – | – – | 21 | 3 | -2 | – – | 0 | – – | – – | 21 |
| Other Oils for Petro. Feed. Use | – – | – – | 11 | 2 | 0 | – – | 0 | – – | – – | 13 |
| Special Naphthas | – – | – – | 0 | 0 | 1 | – – | 0 | – – | – – | 1 |
| Lubricants | – – | – – | 6 | 4 | 5 | – – | 0 | – – | 6 | 9 |
| Waxes | – – | – – | 1 | 0 | – | – – | 0 | – – | 1 | 0 |
| Petroleum Coke | – – | – – | 182 | 1 | -26 | – – | 2 | – – | 10 | 146 |
| Marketable | – – | – – | 136 | 1 | -26 | – – | 2 | – – | 10 | 99 |
| Catalyst | – – | – – | 47 | – – | – – | – – | – – | – – | – – | 47 |
| Asphalt and Road Oil | – – | – – | 142 | 9 | -24 | – – | -8 | – – | 4 | 130 |
| Still Gas | – – | – – | 142 | – – | – – | – – | – – | – – | – – | 142 |
| Miscellaneous Products | – – | – – | 15 | – | 0 | – – | 0 | – – | 0 | 15 |
| **Total** | **3,200** | **1,015** | **4,713** | **2,992** | **-1,545** | **-163** | **11** | **4,491** | **527** | **5,183** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] | |
| **Crude Oil**[6] | **248,238** | **– –** | **– –** | **42,538** | **30,487** | **15,925** | **-7,369** | **261,050** | **83,507** | **0** | **866,645** |
| **Hydrocarbon Gas Liquids** | **86,963** | **-12** | **11,534** | **192** | **24,094** | **– –** | **4,451** | **10,426** | **38,642** | **69,252** | **178,853** |
| Natural Gas Liquids | 86,963 | -12 | 4,970 | – | 23,703 | – – | 4,322 | 10,426 | 38,642 | 62,234 | 171,700 |
| Ethane | 35,881 | – – | 160 | – | – | – – | 1,103 | – – | 4,110 | 41,815 | 50,234 |
| Propane | 26,752 | – – | 4,229 | – | 8,182 | – – | 1,683 | – – | 26,471 | 11,009 | 56,059 |
| Normal Butane | 5,656 | – – | 1,005 | – | 4,861 | – – | 717 | 2,974 | 7,825 | 6 | 45,983 |
| Isobutane | 8,873 | – – | -424 | – | 1,415 | – – | 96 | 3,900 | 170 | 5,698 | 8,063 |
| Natural Gasoline | 9,801 | -12 | – – | – | -1,742 | – – | 723 | 3,552 | 66 | 3,706 | 11,361 |
| Refinery Olefins | – – | – – | 6,564 | 192 | – | – – | 129 | – – | – – | 7,018 | 7,153 |
| Ethylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 | 0 |
| Propylene | – – | – – | 6,608 | – | – | – – | 718 | – – | – – | 6,281 | 6,313 |
| Normal Butylene | – – | – – | -12 | 192 | – | – – | -589 | – – | – – | 769 | 840 |
| Isobutylene | – – | – – | -32 | – | – | – – | 0 | – – | – – | -32 | 0 |
| **Other Liquids** | **– –** | **3,841** | **– –** | **16,770** | **-58,087** | **3,369** | **3,393** | **-50,738** | **9,099** | **4,138** | **133,390** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 3,841 | – – | 44 | 4,401 | 3,675 | -91 | 8,187 | 3,864 | 0 | 7,933 |
| Hydrogen | – – | – – | – – | – | – | 3,363 | – – | 3,363 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | 2,610 | – – | 44 | – | -475 | -172 | – | 2,351 | 0 | 1,318 |
| Renewable Fuels (including Fuel Ethanol) | – – | 1,231 | – – | – | 4,401 | 787 | 81 | 4,824 | 1,513 | 0 | 6,615 |
| Fuel Ethanol | – – | 611 | – – | – | 4,414 | 1,432 | 438 | 4,519 | 1,500 | 0 | 5,061 |
| Renewable Fuels Except Fuel Ethanol | – – | 620 | – – | – | -14 | -645 | -357 | 305 | 13 | 0 | 1,554 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | 14,353 | 647 | – – | 123 | 6,135 | 4,583 | 4,159 | 52,120 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 2,373 | -63,135 | -305 | 3,358 | -65,078 | 653 | 0 | 73,293 |
| Reformulated | – – | – | – – | – | -11,535 | 5,776 | 83 | -5,860 | 18 | 0 | 10,317 |
| Conventional | – – | – | – – | 2,373 | -51,600 | -6,082 | 3,275 | -59,218 | 634 | 0 | 62,976 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | 3 | 18 | – | -21 | 44 |
| **Finished Petroleum Products** | **– –** | **–** | **226,499** | **3,525** | **-41,166** | **-363** | **3,804** | **– –** | **83,178** | **101,514** | **105,283** |
| Finished Motor Gasoline | – – | – | 66,329 | – | -3,451 | -1,127 | 643 | – – | 20,991 | 40,118 | 8,237 |
| Reformulated | – – | – | 13,998 | – | – | -5,892 | – | – – | – | 8,106 | – |
| Conventional | – – | – | 52,331 | – | -3,451 | 4,766 | 643 | – – | 20,991 | 32,012 | 8,237 |
| Finished Aviation Gasoline | – – | – – | 265 | – | -108 | – – | -82 | – – | – | 239 | 411 |
| Kerosene-Type Jet Fuel | – – | – – | 28,208 | – | -15,742 | – – | 1,012 | – – | 6,076 | 5,378 | 15,865 |
| Kerosene | – – | – – | 97 | – | -198 | – – | -207 | – – | 212 | -106 | 146 |
| Distillate Fuel Oil | – – | – – | 85,615 | – | -22,163 | 764 | 1,198 | – – | 36,486 | 26,532 | 41,517 |
| 15 ppm sulfur and under | – – | – – | 77,408 | – | -21,436 | 764 | 377 | – – | 31,878 | 24,481 | 33,579 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 3,330 | – | -109 | – – | 294 | – – | 2,210 | 717 | 1,931 |
| Greater than 500 ppm sulfur | – – | – – | 4,877 | – | -618 | – – | 527 | – – | 2,398 | 1,334 | 6,007 |
| Residual Fuel Oil[7] | – – | – – | 4,678 | 1,927 | 637 | – – | 1,186 | – – | 4,945 | 1,111 | 16,462 |
| Less than 0.31 percent sulfur | – – | – – | 1,170 | 299 | 63 | – – | 40 | – – | NA | NA | 1,601 |
| 0.31 to 1.00 percent sulfur | – – | – – | 556 | 68 | – | – – | 749 | – – | NA | NA | 2,914 |
| Greater than 1.00 percent sulfur | – – | – – | 2,952 | 1,560 | 574 | – – | 397 | – – | NA | NA | 11,947 |
| Petrochemical Feedstocks | – – | – – | 8,474 | 458 | 91 | – – | -90 | – – | – – | 9,113 | 2,501 |
| Naphtha for Petro. Feed. Use | – – | – – | 5,309 | 458 | 91 | – – | -287 | – – | – – | 6,145 | 1,677 |
| Other Oils for Petro. Feed. Use | – – | – – | 3,165 | – | – | – – | 197 | – – | – – | 2,968 | 824 |
| Special Naphthas | – – | – – | 922 | 669 | – | – – | 109 | – – | – – | 1,482 | 977 |
| Lubricants | – – | – – | 4,340 | 420 | -419 | – – | 382 | – – | 2,015 | 1,944 | 8,969 |
| Waxes | – – | – – | 78 | 19 | – | – – | -12 | – – | 30 | 79 | 255 |
| Petroleum Coke | – – | – – | 13,464 | – | 392 | – – | 293 | – – | 11,959 | 1,604 | 4,902 |
| Marketable | – – | – – | 10,074 | – | 392 | – – | 293 | – – | 11,959 | -1,786 | 4,902 |
| Catalyst | – – | – – | 3,390 | – – | – – | – – | – – | – – | – – | 3,390 | – – |
| Asphalt and Road Oil | – – | – – | 2,400 | 32 | -205 | – – | -665 | – – | 444 | 2,448 | 4,622 |
| Still Gas | – – | – – | 10,126 | – – | – – | – – | – – | – – | – – | 10,126 | – – |
| Miscellaneous Products | – – | – – | 1,503 | – | – | – – | 37 | – – | 20 | 1,446 | 419 |
| **Total** | **335,201** | **3,829** | **238,033** | **63,025** | **-44,672** | **18,931** | **4,279** | **220,738** | **214,425** | **174,904** | **1,284,171** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.
7 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] | |
| **Crude Oil**[6] | **2,165,989** | **– –** | **– –** | **483,470** | **315,738** | **164,612** | **-13,845** | **2,420,114** | **723,540** | **0** | **866,645** |
| **Hydrocarbon Gas Liquids** | **739,892** | **-116** | **122,100** | **1,008** | **200,011** | **– –** | **56,423** | **82,138** | **342,315** | **582,019** | **178,853** |
| Natural Gas Liquids | 739,892 | -116 | 62,477 | – | 196,994 | – – | 56,622 | 82,138 | 342,315 | 518,172 | 171,700 |
| Ethane | 314,946 | – – | 1,394 | – | – | – – | 7,093 | – – | 40,239 | 374,947 | 50,234 |
| Propane | 226,789 | – – | 42,073 | – | 66,388 | – – | 21,856 | – – | 243,617 | 69,777 | 56,059 |
| Normal Butane | 43,936 | – – | 22,579 | – | 33,061 | – – | 23,658 | 19,105 | 56,726 | 87 | 45,983 |
| Isobutane | 77,233 | – – | -3,569 | – | 9,857 | – – | 2,390 | 34,135 | 1,402 | 45,594 | 8,063 |
| Natural Gasoline | 76,988 | -116 | – – | – | -18,251 | – – | 1,625 | 28,898 | 331 | 27,767 | 11,361 |
| Refinery Olefins | – – | – – | 59,623 | 1,008 | – | – – | -199 | – – | – – | 63,847 | 7,153 |
| Ethylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 | 0 |
| Propylene | – – | – – | 61,151 | – | – | – – | -144 | – – | – – | 64,312 | 6,313 |
| Normal Butylene | – – | – – | -1,212 | 1,008 | – | – – | -55 | – – | – – | -149 | 840 |
| Isobutylene | – – | – – | -316 | – | – | – – | 0 | – – | – – | -316 | 0 |
| **Other Liquids** | – – | **33,986** | – – | **150,176** | **-532,813** | **38,828** | **1,227** | **-433,927** | **105,419** | **17,458** | **133,390** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 33,986 | – – | 1,128 | 48,828 | 30,454 | -276 | 77,485 | 37,187 | 0 | 7,933 |
| Hydrogen | – – | – – | – – | – | – | 33,622 | – – | 33,622 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | 22,643 | – – | 866 | – | -5,112 | -229 | 30 | 18,596 | 0 | 1,318 |
| Renewable Fuels (including Fuel Ethanol) | – – | 11,343 | – – | 235 | 48,828 | 1,971 | -47 | 43,833 | 18,591 | 0 | 6,615 |
| Fuel Ethanol | – – | 5,283 | – – | – | 48,240 | 6,268 | 508 | 40,966 | 18,316 | 0 | 5,061 |
| Renewable Fuels Except Fuel Ethanol | – – | 6,060 | – – | 235 | 589 | -4,297 | -555 | 2,867 | 275 | 0 | 1,554 |
| Other Hydrocarbons | – – | – – | – – | 27 | – | -27 | – | – | – | 0 | – |
| Unfinished Oils | – – | – – | – – | 129,450 | 3,928 | – – | 7,160 | 62,695 | 45,967 | 17,556 | 52,120 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 19,598 | -585,569 | 8,374 | -5,670 | -574,192 | 22,265 | 0 | 73,293 |
| Reformulated | – – | – | – – | 581 | -123,724 | 44,788 | -1,999 | -76,492 | 136 | 0 | 10,317 |
| Conventional | – – | – | – – | 19,017 | -461,845 | -36,414 | -3,671 | -497,700 | 22,129 | 0 | 62,976 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | 13 | 85 | – | -98 | 44 |
| **Finished Petroleum Products** | – – | **–** | **2,109,239** | **33,574** | **-446,153** | **-8,531** | **-7,014** | – – | **747,999** | **947,145** | **105,283** |
| Finished Motor Gasoline | – – | – | 628,857 | 785 | -48,038 | -14,642 | -3,414 | – – | 194,517 | 375,859 | 8,237 |
| Reformulated | – – | – | 127,887 | – | – | -48,337 | 0 | – – | – | 79,550 | – |
| Conventional | – – | – | 500,970 | 785 | -48,038 | 33,695 | -3,414 | – – | 194,517 | 296,309 | 8,237 |
| Finished Aviation Gasoline | – – | – – | 2,665 | 59 | -817 | – – | -24 | – – | – | 1,931 | 411 |
| Kerosene-Type Jet Fuel | – – | – – | 256,193 | 30 | -152,524 | – – | 428 | – – | 47,221 | 56,050 | 15,865 |
| Kerosene | – – | – – | 465 | – | -904 | – – | -41 | – – | 481 | -879 | 146 |
| Distillate Fuel Oil | – – | – – | 797,620 | 1,813 | -248,038 | 6,111 | -1,671 | – – | 320,019 | 239,157 | 41,517 |
| 15 ppm sulfur and under | – – | – – | 719,217 | 516 | -235,807 | 6,111 | -2,385 | – – | 264,579 | 227,843 | 33,579 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 29,075 | – | -1,142 | – – | 249 | – – | 24,827 | 2,857 | 1,931 |
| Greater than 500 ppm sulfur | – – | – – | 49,328 | 1,297 | -11,089 | – – | 465 | – – | 30,613 | 8,458 | 6,007 |
| Residual Fuel Oil[7] | – – | – – | 46,709 | 13,521 | 6,569 | – – | 211 | – – | 47,829 | 18,759 | 16,462 |
| Less than 0.31 percent sulfur | – – | – – | 11,120 | 2,480 | 586 | – – | 701 | – – | NA | NA | 1,601 |
| 0.31 to 1.00 percent sulfur | – – | – – | 4,655 | 1,077 | 149 | – – | 375 | – – | NA | NA | 2,914 |
| Greater than 1.00 percent sulfur | – – | – – | 30,934 | 9,964 | 5,834 | – – | -865 | – – | NA | NA | 11,947 |
| Petrochemical Feedstocks | – – | – – | 73,750 | 3,002 | 155 | – – | -253 | – – | – – | 77,160 | 2,501 |
| Naphtha for Petro. Feed. Use | – – | – – | 48,272 | 2,842 | 654 | – – | -205 | – – | – – | 51,973 | 1,677 |
| Other Oils for Petro. Feed. Use | – – | – – | 25,478 | 160 | -499 | – – | -48 | – – | – – | 25,187 | 824 |
| Special Naphthas | – – | – – | 8,171 | 4,427 | -191 | – – | -201 | – – | – – | 12,608 | 977 |
| Lubricants | – – | – – | 35,699 | 8,447 | -5,082 | – – | -1,589 | – – | 23,156 | 17,497 | 8,969 |
| Waxes | – – | – – | 873 | 229 | – | – – | -17 | – – | 228 | 891 | 255 |
| Petroleum Coke | – – | – – | 126,035 | 1,206 | 5,598 | – – | 6 | – – | 109,597 | 23,237 | 4,902 |
| Marketable | – – | – – | 94,936 | 1,206 | 5,598 | – – | 6 | – – | 109,597 | -7,862 | 4,902 |
| Catalyst | – – | – – | 31,099 | – – | – – | – – | – – | – – | – – | 31,099 | – – |
| Asphalt and Road Oil | – – | – – | 23,091 | 55 | -3,116 | – – | -474 | – – | 4,667 | 15,837 | 4,622 |
| Still Gas | – – | – – | 94,876 | – – | – – | – – | – – | – – | – – | 94,876 | – – |
| Miscellaneous Products | – – | – – | 14,235 | – | 235 | – – | 25 | – – | 283 | 14,162 | 419 |
| **Total** | **2,905,881** | **33,870** | **2,231,339** | **668,228** | **-463,217** | **194,909** | **36,791** | **2,068,325** | **1,919,272** | **1,546,623** | **1,284,171** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.
7 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] |
| **Crude Oil**[6] | **8,275** | **– –** | **– –** | **1,418** | **1,016** | **531** | **-246** | **8,702** | **2,784** | **0** |
| **Hydrocarbon Gas Liquids** | **2,899** | **0** | **384** | **6** | **803** | **– –** | **148** | **348** | **1,288** | **2,308** |
| Natural Gas Liquids | 2,899 | 0 | 166 | – | 790 | – – | 144 | 348 | 1,288 | 2,074 |
| Ethane | 1,196 | – – | 5 | – | – | – – | 37 | – – | 137 | 1,394 |
| Propane | 892 | – – | 141 | – | 273 | – – | 56 | – – | 882 | 367 |
| Normal Butane | 189 | – – | 34 | – | 162 | – – | 24 | 99 | 261 | 0 |
| Isobutane | 296 | – – | -14 | – | 47 | – – | 3 | 130 | 6 | 190 |
| Natural Gasoline | 327 | 0 | – – | – | -58 | – – | 24 | 118 | 2 | 124 |
| Refinery Olefins | – – | – – | 219 | 6 | – | – – | 4 | – – | – – | 234 |
| Ethylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 |
| Propylene | – – | – – | 220 | – | 13 | – – | 24 | – – | – – | 209 |
| Normal Butylene | – – | – – | 0 | 6 | – | – – | -20 | – – | – – | 26 |
| Isobutylene | – – | – – | -1 | – | – | – – | 0 | – – | – – | -1 |
| **Other Liquids** | – – | **128** | – – | **559** | **-1,936** | **112** | **113** | **-1,691** | **303** | **138** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 128 | – – | 1 | 147 | 122 | -3 | 273 | 129 | 0 |
| Hydrogen | – – | – – | – – | – | – | 112 | – – | 112 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | 87 | – – | 1 | – | -16 | -6 | – | 78 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 41 | – – | – | 147 | 26 | 3 | 161 | 50 | 0 |
| Fuel Ethanol | – – | 20 | – – | – | 147 | 48 | 15 | 151 | 50 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 21 | – – | – | 0 | -21 | -12 | 10 | 0 | 0 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | 478 | 22 | – – | 4 | 205 | 153 | 139 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 79 | -2,105 | -10 | 112 | -2,169 | 22 | 0 |
| Reformulated | – – | – | – – | – | -385 | 193 | 3 | -195 | 1 | 0 |
| Conventional | – – | – | – – | 79 | -1,720 | -203 | 109 | -1,974 | 21 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | 0 | 1 | – | -1 |
| **Finished Petroleum Products** | – – | **–** | **7,550** | **118** | **-1,372** | **-12** | **127** | **– –** | **2,773** | **3,384** |
| Finished Motor Gasoline | – – | – | 2,211 | – | -115 | -38 | 21 | – – | 700 | 1,337 |
| Reformulated | – – | – | 467 | – | – | -196 | – | – – | – | 270 |
| Conventional | – – | – | 1,744 | – | -115 | 159 | 21 | – – | 700 | 1,067 |
| Finished Aviation Gasoline | – – | – – | 9 | – | -4 | – – | -3 | – – | – | 8 |
| Kerosene-Type Jet Fuel | – – | – – | 940 | – | -525 | – – | 34 | – – | 203 | 179 |
| Kerosene | – – | – – | 3 | – | -7 | – – | -7 | – – | 7 | -4 |
| Distillate Fuel Oil | – – | – – | 2,854 | – | -739 | 25 | 40 | – – | 1,216 | 884 |
| 15 ppm sulfur and under | – – | – – | 2,580 | – | -715 | 25 | 13 | – – | 1,063 | 816 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 111 | – | -4 | – – | 10 | – – | 74 | 24 |
| Greater than 500 ppm sulfur | – – | – – | 163 | – | -21 | – – | 18 | – – | 80 | 44 |
| Residual Fuel Oil[7] | – – | – – | 156 | 64 | 21 | – – | 40 | – – | 165 | 37 |
| Less than 0.31 percent sulfur | – – | – – | 39 | 10 | 2 | – – | 1 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 19 | 2 | – | – – | 25 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 98 | 52 | 19 | – – | 13 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | 282 | 15 | 3 | – – | -3 | – – | – – | 304 |
| Naphtha for Petro. Feed. Use | – – | – – | 177 | 15 | 3 | – – | -10 | – – | – – | 205 |
| Other Oils for Petro. Feed. Use | – – | – – | 106 | – | – | – – | 7 | – – | – – | 99 |
| Special Naphthas | – – | – – | 31 | 22 | – | – – | 4 | – – | – – | 49 |
| Lubricants | – – | – – | 145 | 14 | -14 | – – | 13 | – – | 67 | 65 |
| Waxes | – – | – – | 3 | 1 | – | – – | 0 | – – | 1 | 3 |
| Petroleum Coke | – – | – – | 449 | – | 13 | – – | 10 | – – | 399 | 53 |
| Marketable | – – | – – | 336 | – | 13 | – – | 10 | – – | 399 | -60 |
| Catalyst | – – | – – | 113 | – – | – – | – – | – – | – – | – – | 113 |
| Asphalt and Road Oil | – – | – – | 80 | 1 | -7 | – – | -22 | – – | 15 | 82 |
| Still Gas | – – | – – | 338 | – – | – – | – – | – – | – – | – – | 338 |
| Miscellaneous Products | – – | – – | 50 | – | – | – – | 1 | – – | 1 | 48 |
| **Total** | **11,173** | **128** | **7,934** | **2,101** | **-1,489** | **631** | **143** | **7,358** | **7,148** | **5,830** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.
7 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] |
| **Crude Oil**[6] | **7,934** | **– –** | **– –** | **1,771** | **1,157** | **603** | **-51** | **8,865** | **2,650** | **0** |
| **Hydrocarbon Gas Liquids** | **2,710** | **0** | **447** | **4** | **733** | **– –** | **207** | **301** | **1,254** | **2,132** |
| Natural Gas Liquids | 2,710 | 0 | 229 | – | 722 | – – | 207 | 301 | 1,254 | 1,898 |
| Ethane | 1,154 | – – | 5 | – | – | – – | 26 | – – | 147 | 1,373 |
| Propane | 831 | – – | 154 | – | 243 | – – | 80 | – – | 892 | 256 |
| Normal Butane | 161 | – – | 530 | – | 121 | – – | 87 | 70 | 208 | 0 |
| Isobutane | 283 | – – | -13 | – | 36 | – – | 9 | 125 | 5 | 167 |
| Natural Gasoline | 282 | 0 | – – | – | -67 | – – | 6 | 106 | 1 | 102 |
| Refinery Olefins | – – | – – | 218 | 4 | – | – – | -1 | – – | – – | 234 |
| Ethylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 |
| Propylene | – – | – – | 224 | – | 11 | – – | -1 | – – | – – | 236 |
| Normal Butylene | – – | – – | -4 | 4 | – | – – | 0 | – – | – – | -1 |
| Isobutylene | – – | – – | -1 | – | – | – – | 0 | – – | – – | -1 |
| **Other Liquids** | **– –** | **124** | **– –** | **550** | **-1,952** | **142** | **4** | **-1,589** | **386** | **64** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 124 | – – | 4 | 179 | 112 | -1 | 284 | 136 | 0 |
| Hydrogen | – – | – – | – – | – | – | 123 | – – | 123 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | 83 | – – | 3 | – | -19 | -1 | 0 | 68 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 42 | – – | 1 | 179 | 7 | 0 | 161 | 68 | 0 |
| Fuel Ethanol | – – | 19 | – – | – | 177 | 23 | 2 | 150 | 67 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 22 | – – | 1 | 2 | -16 | -2 | 11 | 1 | 0 |
| Other Hydrocarbons | – – | – – | – – | 0 | – | 0 | – | – | – | 0 |
| Unfinished Oils | – – | – – | – – | 474 | 14 | – – | 26 | 230 | 168 | 64 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 72 | -2,145 | 31 | -21 | -2,103 | 82 | 0 |
| Reformulated | – – | – | – – | 2 | -453 | 164 | -7 | -280 | 0 | 0 |
| Conventional | – – | – | – – | 70 | -1,692 | -133 | -13 | -1,823 | 81 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | 0 | 0 | – | 0 |
| **Finished Petroleum Products** | **– –** | **–** | **7,726** | **123** | **-1,634** | **-31** | **-26** | **– –** | **2,740** | **3,469** |
| Finished Motor Gasoline | – – | – | 2,304 | 3 | -176 | -54 | -13 | – – | 713 | 1,377 |
| Reformulated | – – | – | 468 | – | – | -177 | 0 | – – | – | 291 |
| Conventional | – – | – | 1,835 | 3 | -176 | 123 | -13 | – – | 713 | 1,085 |
| Finished Aviation Gasoline | – – | – – | 10 | 0 | -3 | – – | 0 | – – | – | 7 |
| Kerosene-Type Jet Fuel | – – | – – | 938 | 0 | -559 | – – | 2 | – – | 173 | 205 |
| Kerosene | – – | – – | 2 | – | -3 | – – | 0 | – – | 2 | -3 |
| Distillate Fuel Oil | – – | – – | 2,922 | 7 | -909 | 22 | -6 | – – | 1,172 | 876 |
| 15 ppm sulfur and under | – – | – – | 2,634 | 2 | -864 | 22 | -9 | – – | 969 | 835 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 107 | – | -4 | – – | 1 | – – | 91 | 10 |
| Greater than 500 ppm sulfur | – – | – – | 181 | 5 | -41 | – – | 2 | – – | 112 | 31 |
| Residual Fuel Oil[7] | – – | – – | 171 | 50 | 24 | – – | 1 | – – | 175 | 69 |
| Less than 0.31 percent sulfur | – – | – – | 41 | 9 | 2 | – – | 3 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 17 | 4 | 1 | – – | 1 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 113 | 36 | 21 | – – | -3 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | 270 | 11 | 1 | – – | -1 | – – | – – | 283 |
| Naphtha for Petro. Feed. Use | – – | – – | 177 | 10 | 2 | – – | -1 | – – | – – | 190 |
| Other Oils for Petro. Feed. Use | – – | – – | 93 | 1 | -2 | – – | 0 | – – | – – | 92 |
| Special Naphthas | – – | – – | 30 | 16 | -1 | – – | -1 | – – | – – | 46 |
| Lubricants | – – | – – | 131 | 31 | -19 | – – | -6 | – – | 85 | 64 |
| Waxes | – – | – – | 3 | 1 | – | – – | 0 | – – | 1 | 3 |
| Petroleum Coke | – – | – – | 462 | 4 | 21 | – – | 0 | – – | 401 | 85 |
| Marketable | – – | – – | 348 | 4 | 21 | – – | 0 | – – | 401 | -29 |
| Catalyst | – – | – – | 114 | – – | – – | – – | – – | – – | – – | 114 |
| Asphalt and Road Oil | – – | – – | 85 | 0 | -11 | – – | -2 | – – | 17 | 58 |
| Still Gas | – – | – – | 348 | – – | – – | – – | – – | – – | – – | 348 |
| Miscellaneous Products | – – | – – | 52 | – | 1 | – – | 0 | – – | 1 | 52 |
| **Total** | **10,644** | **124** | **8,173** | **2,448** | **-1,697** | **714** | **135** | **7,576** | **7,030** | **5,665** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.
7 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] | |
| **Crude Oil** | **28,986** | **– –** | **– –** | **11,814** | **-19,343** | **-1,989** | **304** | **19,164** | **–** | **0** | **20,632** |
| **Hydrocarbon Gas Liquids** | **12,913** | **-9** | **317** | **383** | **-9,442** | **– –** | **160** | **553** | **97** | **3,352** | **4,964** |
| Natural Gas Liquids | 12,913 | -9 | 267 | 383 | -9,442 | – – | 125 | 553 | 97 | 3,337 | 4,880 |
| Ethane | 2,833 | – – | – | – | – | – – | 40 | – – | – | 560 | 503 |
| Propane | 4,919 | – – | 291 | 280 | -3,489 | – – | 122 | – – | 0 | 1,879 | 1,782 |
| Normal Butane | 1,958 | – – | 22 | 77 | -1,427 | – – | 18 | 166 | 1 | 445 | 1,953 |
| Isobutane | 1,003 | – – | -46 | 26 | -740 | – – | -16 | 196 | – | 63 | 258 |
| Natural Gasoline | 2,200 | -9 | – – | – | -1,553 | – – | -39 | 191 | 96 | 390 | 384 |
| Refinery Olefins | – – | – – | 50 | – | – | – – | 35 | – – | – – | 15 | 84 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Propylene | – – | – – | -2 | – | – | – – | 0 | – – | – – | -2 | 0 |
| Normal Butylene | – – | – – | 52 | – | – | – – | 35 | – – | – – | 17 | 84 |
| Isobutylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 | 0 |
| **Other Liquids** | **– –** | **366** | **– –** | **171** | **696** | **-1,097** | **59** | **-62** | **0** | **139** | **9,445** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 366 | – – | 22 | 446 | 308 | -48 | 1,190 | 0 | 0 | 411 |
| Hydrogen | – – | – – | – – | – | – | 208 | – – | 208 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | – | – | 0 | 0 | – |
| Renewable Fuels (including Fuel Ethanol) | – – | 366 | – – | 22 | 446 | 100 | -48 | 982 | – | 0 | 411 |
| Fuel Ethanol | – – | 366 | – – | – | 389 | 135 | -35 | 925 | – | 0 | 339 |
| Renewable Fuels Except Fuel Ethanol | – – | 0 | – – | 22 | 57 | -35 | -13 | 57 | – | 0 | 72 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | – | – | – – | -111 | -28 | 0 | 139 | 3,060 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 149 | 250 | -1,405 | 218 | -1,224 | 0 | 0 | 5,974 |
| Reformulated | – – | – | – – | – | – | – | – | – | – | – | – |
| Conventional | – – | – | – – | – | 250 | -1,405 | 218 | -1,224 | 0 | 0 | 5,974 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **–** | **20,209** | **321** | **-681** | **1,291** | **-317** | **– –** | **32** | **21,425** | **8,650** |
| Finished Motor Gasoline | – – | – | 9,602 | 65 | -351 | 1,270 | -4 | – – | 0 | 10,590 | 1,677 |
| Reformulated | – – | – | – | – | – | – | – | – – | – | – | – |
| Conventional | – – | – | 9,602 | 65 | -351 | 1,270 | -4 | – – | 0 | 10,590 | 1,677 |
| Finished Aviation Gasoline | – – | – – | 9 | – | – | – – | 2 | – – | – | 7 | 10 |
| Kerosene-Type Jet Fuel | – – | – – | 1,118 | – | 880 | – – | 51 | – – | – | 1,947 | 748 |
| Kerosene | – – | – – | 1 | – | – | – – | 2 | – – | – | -1 | 2 |
| Distillate Fuel Oil | – – | – – | 6,310 | 198 | -253 | 21 | -136 | – – | 12 | 6,400 | 4,246 |
| 15 ppm sulfur and under | – – | – – | 6,307 | 198 | -253 | 21 | -121 | – – | – | 6,394 | 4,021 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 10 | – | – | – – | -9 | – – | 12 | 7 | 184 |
| Greater than 500 ppm sulfur | – – | – – | -7 | – | – | – – | -6 | – – | – | -1 | 41 |
| Residual Fuel Oil[6] | – – | – – | 396 | – | – | – – | 14 | – – | 9 | 373 | 229 |
| Less than 0.31 percent sulfur | – – | – – | 181 | – | – | – – | 2 | – – | NA | NA | 32 |
| 0.31 to 1.00 percent sulfur | – – | – – | 46 | – | – | – – | -2 | – – | NA | NA | 6 |
| Greater than 1.00 percent sulfur | – – | – – | 169 | – | – | – – | 14 | – – | NA | NA | 191 |
| Petrochemical Feedstocks | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Naphtha for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Other Oils for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Special Naphthas | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Lubricants | – – | – – | – | – | – | – – | – | – – | 6 | -6 | – |
| Waxes | – – | – – | – | – | – | – – | – | – – | 0 | 0 | – |
| Petroleum Coke | – – | – – | 820 | – | -273 | – – | 25 | – – | – | 522 | 161 |
| Marketable | – – | – – | 581 | – | -273 | – – | 25 | – – | – | 283 | 161 |
| Catalyst | – – | – – | 239 | – – | – – | – – | – – | – – | – – | 239 | – – |
| Asphalt and Road Oil | – – | – – | 1,148 | 57 | -684 | – – | -270 | – – | 4 | 787 | 1,555 |
| Still Gas | – – | – – | 686 | – – | – – | – – | – – | – – | – – | 686 | – – |
| Miscellaneous Products | – – | – – | 119 | 1 | – | – – | -1 | – – | – | 121 | 22 |
| **Total** | **41,899** | **357** | **20,526** | **12,689** | **-28,770** | **-1,795** | **206** | **19,655** | **130** | **24,916** | **43,691** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] | |
| **Crude Oil** | **256,474** | **– –** | **– –** | **105,016** | **-170,282** | **-17,077** | **-908** | **175,039** | **–** | **0** | **20,632** |
| **Hydrocarbon Gas Liquids** | **116,981** | **-91** | **3,269** | **3,183** | **-95,416** | **– –** | **1,504** | **5,025** | **1,835** | **19,562** | **4,964** |
| Natural Gas Liquids | 116,981 | -91 | 2,789 | 3,183 | -95,416 | – – | 1,457 | 5,025 | 1,835 | 19,129 | 4,880 |
| Ethane | 30,202 | – – | – | – | – | – – | 38 | – – | 0 | 2,159 | 503 |
| Propane | 43,184 | – – | 2,352 | 2,607 | -33,351 | – – | 386 | – – | 3 | 14,403 | 1,782 |
| Normal Butane | 16,847 | – – | 530 | 423 | -13,189 | – – | 1,010 | 1,694 | 49 | 1,858 | 1,953 |
| Isobutane | 8,423 | – – | -93 | 153 | -7,244 | – – | -9 | 1,830 | – | -582 | 258 |
| Natural Gasoline | 18,325 | -91 | – – | – | -13,627 | – – | 32 | 1,501 | 1,782 | 1,292 | 384 |
| Refinery Olefins | – – | – – | 480 | – | – | – – | 47 | – – | – – | 433 | 84 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Propylene | – – | – – | 32 | – | – | – – | -1 | – – | – – | 33 | 0 |
| Normal Butylene | – – | – – | 469 | – | – | – – | 53 | – – | – – | 416 | 84 |
| Isobutylene | – – | – – | -21 | – | – | – – | -5 | – – | – – | -16 | 0 |
| **Other Liquids** | **– –** | **3,575** | **– –** | **1,342** | **5,328** | **-9,705** | **-193** | **-1,235** | **25** | **1,943** | **9,445** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 3,575 | – – | 141 | 3,682 | 3,075 | -56 | 10,523 | 5 | 0 | 411 |
| Hydrogen | – – | – – | – – | – | – | 1,827 | – – | 1,827 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | – | – | 0 | 0 | – |
| Renewable Fuels (including Fuel Ethanol) | – – | 3,575 | – – | 141 | 3,682 | 1,247 | -56 | 8,696 | 5 | 0 | 411 |
| Fuel Ethanol | – – | 3,575 | – – | – | 3,153 | 1,481 | -14 | 8,223 | 0 | 0 | 339 |
| Renewable Fuels Except Fuel Ethanol | – – | 0 | – – | 141 | 529 | -234 | -42 | 473 | 5 | 0 | 72 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | – | – | – – | -437 | -1,525 | 19 | 1,943 | 3,060 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 1,201 | 1,646 | -12,779 | 300 | -10,233 | 1 | 0 | 5,974 |
| Reformulated | – – | – | – – | – | – | – | – | – | – | – | – |
| Conventional | – – | – | – – | – | 1,646 | -12,779 | 300 | -10,233 | 1 | 0 | 5,974 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **–** | **182,758** | **1,462** | **-8,276** | **11,487** | **-326** | **– –** | **200** | **187,557** | **8,650** |
| Finished Motor Gasoline | – – | – | 86,157 | 65 | -5,124 | 11,298 | 64 | – – | 9 | 92,323 | 1,677 |
| Reformulated | – – | – | – | – | – | – | – | – – | – | – | – |
| Conventional | – – | – | 86,157 | 65 | -5,124 | 11,298 | 64 | – – | 9 | 92,323 | 1,677 |
| Finished Aviation Gasoline | – – | – – | 51 | 17 | – | – – | 0 | – – | – | 68 | 10 |
| Kerosene-Type Jet Fuel | – – | – – | 9,324 | – | 7,289 | – – | -66 | – – | – | 16,679 | 748 |
| Kerosene | – – | – – | 1 | – | – | – – | 0 | – – | – | 1 | 2 |
| Distillate Fuel Oil | – – | – – | 58,863 | 1,014 | -1,505 | 189 | -198 | – – | 27 | 58,732 | 4,246 |
| 15 ppm sulfur and under | – – | – – | 58,527 | 1,014 | -1,505 | 189 | -136 | – – | 15 | 58,346 | 4,021 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 383 | – | – | – – | -17 | – – | 12 | 388 | 184 |
| Greater than 500 ppm sulfur | – – | – – | -47 | – | – | – – | -45 | – – | – | -2 | 41 |
| Residual Fuel Oil[6] | – – | – – | 3,379 | 97 | – | – – | -7 | – – | 72 | 3,411 | 229 |
| Less than 0.31 percent sulfur | – – | – – | 1,688 | – | – | – – | 7 | – – | NA | NA | 32 |
| 0.31 to 1.00 percent sulfur | – – | – – | 243 | – | – | – – | -2 | – – | NA | NA | 6 |
| Greater than 1.00 percent sulfur | – – | – – | 1,448 | 97 | – | – – | -12 | – – | NA | NA | 191 |
| Petrochemical Feedstocks | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Naphtha for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Other Oils for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Special Naphthas | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Lubricants | – – | – – | – | 1 | – | – – | – | – – | 64 | -63 | – |
| Waxes | – – | – – | – | – | – | – – | – | – – | 2 | -2 | – |
| Petroleum Coke | – – | – – | 6,955 | – | -3,222 | – – | -33 | – – | 1 | 3,765 | 161 |
| Marketable | – – | – – | 4,884 | – | -3,222 | – – | -33 | – – | 1 | 1,694 | 161 |
| Catalyst | – – | – – | 2,071 | – – | – – | – – | – – | – – | – – | 2,071 | – – |
| Asphalt and Road Oil | – – | – – | 10,877 | 259 | -5,714 | – – | -92 | – – | 22 | 5,492 | 1,555 |
| Still Gas | – – | – – | 6,200 | – – | – – | – – | – – | – – | – – | 6,200 | – – |
| Miscellaneous Products | – – | – – | 951 | 9 | – | – – | 6 | – – | 4 | 950 | 22 |
| **Total** | **373,455** | **3,484** | **186,027** | **111,003** | **-268,646** | **-15,295** | **77** | **178,829** | **2,060** | **209,062** | **43,691** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] |
| **Crude Oil** | **966** | – – | – – | **394** | **-645** | **-66** | **10** | **639** | – | **0** |
| **Hydrocarbon Gas Liquids** | **430** | **0** | **11** | **13** | **-315** | – – | **5** | **18** | **3** | **112** |
| Natural Gas Liquids | 430 | 0 | 9 | 13 | -315 | – – | 4 | 18 | 3 | 111 |
| Ethane | 94 | – – | – | – | – | – – | 1 | – – | – | 19 |
| Propane | 164 | – – | 10 | 9 | -116 | – – | 4 | – – | 0 | 63 |
| Normal Butane | 65 | – – | 1 | 3 | -48 | – – | 1 | 6 | 0 | 15 |
| Isobutane | 33 | – – | -2 | 1 | -25 | – – | -1 | 7 | – | 2 |
| Natural Gasoline | 73 | 0 | – – | – | -52 | – – | -1 | 6 | 3 | 13 |
| Refinery Olefins | – – | – – | 2 | – | – | – – | 1 | – – | – – | 1 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – |
| Propylene | – – | – – | 0 | – | – | – – | 0 | – – | – – | 0 |
| Normal Butylene | – – | – – | 2 | – | – | – – | 1 | – – | – – | 1 |
| Isobutylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 |
| **Other Liquids** | – – | **12** | – – | **6** | **23** | **-37** | **2** | **-2** | **0** | **5** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 12 | – – | 1 | 15 | 10 | -2 | 40 | 0 | 0 |
| Hydrogen | – – | – – | – – | – | – | 7 | – – | 7 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | – | – | 0 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 12 | – – | 1 | 15 | 3 | -2 | 33 | – | 0 |
| Fuel Ethanol | – – | 12 | – – | – | 13 | 4 | -1 | 31 | – | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 0 | – – | 1 | 2 | -1 | 0 | 2 | – | 0 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | – | – | – – | -4 | -1 | 0 | 5 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 5 | 8 | -47 | 7 | -41 | 0 | 0 |
| Reformulated | – – | – | – – | – | – | – | – | – | – | – |
| Conventional | – – | – | – – | – | 8 | -47 | 7 | -41 | 0 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – |
| **Finished Petroleum Products** | – – | – | **674** | **11** | **-23** | **43** | **-11** | – – | **1** | **714** |
| Finished Motor Gasoline | – – | – | 320 | 2 | -12 | 42 | 0 | – – | 0 | 353 |
| Reformulated | – – | – | – | – | – | – | – | – – | – | – |
| Conventional | – – | – | 320 | 2 | -12 | 42 | 0 | – – | 0 | 353 |
| Finished Aviation Gasoline | – – | – – | 0 | – | – | – – | 0 | – – | – | 0 |
| Kerosene-Type Jet Fuel | – – | – – | 37 | – | 29 | – – | 2 | – – | – | 65 |
| Kerosene | – – | – – | 0 | – | – | – – | 0 | – – | – | 0 |
| Distillate Fuel Oil | – – | – – | 210 | 7 | -8 | 1 | -5 | – – | 0 | 213 |
| 15 ppm sulfur and under | – – | – – | 210 | 7 | -8 | 1 | -4 | – – | – | 213 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 0 | – | – | – – | 0 | – – | 0 | 0 |
| Greater than 500 ppm sulfur | – – | – – | 0 | – | – | – – | 0 | – – | – | 0 |
| Residual Fuel Oil[6] | – – | – – | 13 | – | – | – – | 0 | – – | 0 | 12 |
| Less than 0.31 percent sulfur | – – | – – | 6 | – | – | – – | 0 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 2 | – | – | – – | 0 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 6 | – | – | – – | 0 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | – | – | – | – – | – | – – | – – | – |
| Naphtha for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – |
| Other Oils for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – |
| Special Naphthas | – – | – – | – | – | – | – – | – | – – | – – | – |
| Lubricants | – – | – – | – | – | – | – – | – | – – | 0 | 0 |
| Waxes | – – | – – | – | – | – | – – | – | – – | 0 | 0 |
| Petroleum Coke | – – | – – | 27 | – | -9 | – – | 1 | – – | – | 17 |
| Marketable | – – | – – | 19 | – | -9 | – – | 1 | – – | – | 9 |
| Catalyst | – – | – – | 8 | – – | – – | – – | – – | – – | – – | 8 |
| Asphalt and Road Oil | – – | – – | 38 | 2 | -23 | – – | -9 | – – | 0 | 26 |
| Still Gas | – – | – – | 23 | – – | – – | – – | – – | – – | – – | 23 |
| Miscellaneous Products | – – | – – | 4 | 0 | – | – – | 0 | – – | – | 4 |
| **Total** | **1,397** | **12** | **684** | **423** | **-959** | **-60** | **7** | **655** | **4** | **831** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] |
| **Crude Oil** | **939** | **– –** | **– –** | **385** | **-624** | **-63** | **-3** | **641** | **–** | **0** |
| **Hydrocarbon Gas Liquids** | **429** | **0** | **12** | **12** | **-350** | **– –** | **6** | **18** | **7** | **72** |
| Natural Gas Liquids | 429 | 0 | 10 | 12 | -350 | – – | 5 | 18 | 7 | 70 |
| Ethane | 111 | – – | – | – | – | – – | 0 | – – | 0 | 8 |
| Propane | 158 | – – | 9 | 10 | -122 | – – | 1 | – – | 0 | 53 |
| Normal Butane | 62 | – – | 2 | 2 | -48 | – – | 4 | 6 | 0 | 7 |
| Isobutane | 31 | – – | 0 | 1 | -27 | – – | 0 | 7 | – | -2 |
| Natural Gasoline | 67 | 0 | – – | – | -50 | – – | 0 | 5 | 7 | 5 |
| Refinery Olefins | – – | – – | 2 | – | – | – – | 0 | – – | – – | 2 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – |
| Propylene | – – | – – | 0 | – | – | – – | 0 | – – | – – | 0 |
| Normal Butylene | – – | – – | 2 | – | – | – – | 0 | – – | – – | 2 |
| Isobutylene | – – | – – | 0 | – | – | – – | 0 | – – | – – | 0 |
| **Other Liquids** | **– –** | **13** | **– –** | **5** | **20** | **-36** | **-1** | **-5** | **0** | **7** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 13 | – – | 1 | 13 | 11 | 0 | 39 | 0 | 0 |
| Hydrogen | – – | – – | – – | – | – | 7 | – – | 7 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | – | – | 0 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 13 | – – | 1 | 13 | 5 | 0 | 32 | 0 | 0 |
| Fuel Ethanol | – – | 13 | – – | – | 12 | 5 | 0 | 30 | 0 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 0 | – – | 1 | 2 | -1 | 0 | 2 | 0 | 0 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | – | – | – – | -2 | -6 | 0 | 7 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 4 | 6 | -47 | 1 | -37 | 0 | 0 |
| Reformulated | – – | – | – – | – | – | – | – | – | – | – |
| Conventional | – – | – | – – | – | 6 | -47 | 1 | -37 | 0 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **–** | **669** | **5** | **-30** | **42** | **-1** | **– –** | **1** | **687** |
| Finished Motor Gasoline | – – | – | 316 | 0 | -19 | 41 | 0 | – – | 0 | 338 |
| Reformulated | – – | – | – | – | – | – | – | – – | – | – |
| Conventional | – – | – | 316 | 0 | -19 | 41 | 0 | – – | 0 | 338 |
| Finished Aviation Gasoline | – – | – – | 0 | 0 | – | – – | 0 | – – | – | 0 |
| Kerosene-Type Jet Fuel | – – | – – | 34 | – | 27 | – – | 0 | – – | – | 61 |
| Kerosene | – – | – – | 0 | – | – | – – | 0 | – – | – | 0 |
| Distillate Fuel Oil | – – | – – | 216 | 4 | -6 | 1 | -1 | – – | 0 | 215 |
| 15 ppm sulfur and under | – – | – – | 214 | 4 | -6 | 1 | 0 | – – | 0 | 214 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 1 | – | – | – – | 0 | – – | 0 | 1 |
| Greater than 500 ppm sulfur | – – | – – | 0 | – | – | – – | 0 | – – | – | 0 |
| Residual Fuel Oil[6] | – – | – – | 12 | 0 | – | – – | 0 | – – | 0 | 12 |
| Less than 0.31 percent sulfur | – – | – – | 6 | – | – | – – | 0 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 1 | – | – | – – | 0 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 5 | 0 | – | – – | 0 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | – | – | – | – – | – | – – | – – | – |
| Naphtha for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – |
| Other Oils for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – |
| Special Naphthas | – – | – – | – | – | – | – – | – | – – | – – | – |
| Lubricants | – – | – – | – | 0 | – | – – | – | – – | 0 | 0 |
| Waxes | – – | – – | – | – | – | – – | – | – – | 0 | 0 |
| Petroleum Coke | – – | – – | 25 | – | -12 | – – | 0 | – – | 0 | 14 |
| Marketable | – – | – – | 18 | – | -12 | – – | 0 | – – | 0 | 6 |
| Catalyst | – – | – – | 8 | – – | – – | – – | – – | – – | – – | 8 |
| Asphalt and Road Oil | – – | – – | 40 | 1 | -21 | – – | 0 | – – | 0 | 20 |
| Still Gas | – – | – – | 23 | – – | – – | – – | – – | – – | – – | 23 |
| Miscellaneous Products | – – | – – | 3 | 0 | – | – – | 0 | – – | 0 | 3 |
| **Total** | **1,368** | **13** | **681** | **407** | **-984** | **-56** | **0** | **655** | **8** | **766** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] | |
| **Crude Oil** | **27,180** | **– –** | **– –** | **38,945** | **4,949** | **3,036** | **895** | **70,689** | **2,526** | **0** | **46,239** |
| **Hydrocarbon Gas Liquids** | **1,332** | **-10** | **1,876** | **1,416** | **783** | **– –** | **905** | **1,638** | **1,418** | **1,436** | **6,246** |
| Natural Gas Liquids | 1,332 | -10 | 1,726 | 1,416 | 783 | – – | 811 | 1,638 | 1,418 | 1,380 | 6,119 |
| Ethane | 1 | – – | – | – | – | – – | – | – – | 0 | 1 | – |
| Propane | 277 | – – | 1,039 | 895 | 296 | – – | 414 | – – | 860 | 1,233 | 2,540 |
| Normal Butane | 214 | – – | 590 | 508 | 339 | – – | 447 | 466 | 517 | 221 | 3,055 |
| Isobutane | 264 | – – | 97 | 13 | 148 | – – | -51 | 683 | 1 | -111 | 473 |
| Natural Gasoline | 576 | -10 | – – | – | – | – – | 1 | 489 | 40 | 36 | 51 |
| Refinery Olefins | – – | – – | 150 | – | – | – – | 94 | – – | – – | 56 | 127 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Propylene | – – | – – | 181 | – | – | – – | 1 | – – | – – | 180 | 13 |
| Normal Butylene | – – | – – | -31 | – | – | – – | 93 | – – | – – | -124 | 114 |
| Isobutylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 | 0 |
| **Other Liquids** | **– –** | **759** | **– –** | **5,391** | **7,921** | **265** | **-3,398** | **16,495** | **387** | **851** | **48,539** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 759 | – – | 1,535 | 3,516 | 1,718 | 454 | 6,713 | 361 | 0 | 4,798 |
| Hydrogen | – – | – – | – – | – | – | 1,339 | – – | 1,339 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | – | – | 0 | 0 | – |
| Renewable Fuels (including Fuel Ethanol) | – – | 759 | – – | 1,535 | 3,516 | 379 | 454 | 5,374 | 361 | 0 | 4,798 |
| Fuel Ethanol | – – | 457 | – – | 1,203 | 3,054 | 740 | 390 | 4,804 | 261 | 0 | 3,089 |
| Renewable Fuels Except Fuel Ethanol | – – | 302 | – – | 332 | 462 | -362 | 64 | 570 | 100 | 0 | 1,709 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | 3,540 | – | – – | -1,745 | 4,412 | 22 | 851 | 19,154 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 316 | 4,405 | -1,454 | -2,107 | 5,370 | 4 | 0 | 24,587 |
| Reformulated | – – | – | – – | – | 2,001 | -291 | -2,122 | 3,829 | 3 | 0 | 11,343 |
| Conventional | – – | – | – – | 316 | 2,404 | -1,163 | 15 | 1,541 | 1 | 0 | 13,244 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **–** | **91,931** | **5,316** | **2,293** | **789** | **-212** | **– –** | **10,107** | **90,434** | **34,375** |
| Finished Motor Gasoline | – – | – | 47,667 | 404 | 376 | 713 | -48 | – – | 1,058 | 48,150 | 2,238 |
| Reformulated | – – | – | 33,772 | – | – | 400 | -6 | – – | – | 34,178 | 13 |
| Conventional | – – | – | 13,895 | 404 | 376 | 314 | -42 | – – | 1,058 | 13,972 | 2,225 |
| Finished Aviation Gasoline | – – | – – | – | 2 | – | – – | -16 | – – | – | 18 | 152 |
| Kerosene-Type Jet Fuel | – – | – – | 12,821 | 4,244 | 257 | – – | -189 | – – | 789 | 16,722 | 9,429 |
| Kerosene | – – | – – | 10 | – | – | – – | 33 | – – | 0 | -23 | 43 |
| Distillate Fuel Oil | – – | – – | 17,449 | 247 | 1,145 | 76 | 97 | – – | 4,338 | 14,482 | 12,818 |
| 15 ppm sulfur and under | – – | – – | 17,039 | 246 | 1,145 | 76 | 303 | – – | 2,222 | 15,980 | 11,919 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 25 | – | – | – – | -68 | – – | 148 | -55 | 177 |
| Greater than 500 ppm sulfur | – – | – – | 385 | 1 | – | – – | -138 | – – | 1,968 | -1,444 | 722 |
| Residual Fuel Oil[6] | – – | – – | 4,440 | 273 | – | – – | 18 | – – | 960 | 3,735 | 5,070 |
| Less than 0.31 percent sulfur | – – | – – | 2 | – | – | – – | -309 | – – | NA | NA | 180 |
| 0.31 to 1.00 percent sulfur | – – | – – | 285 | 122 | – | – – | -17 | – – | NA | NA | 425 |
| Greater than 1.00 percent sulfur | – – | – – | 4,153 | 151 | – | – – | 341 | – – | NA | NA | 4,456 |
| Petrochemical Feedstocks | – – | – – | 1 | – | – | – – | 0 | – – | – – | 1 | 6 |
| Naphtha for Petro. Feed. Use | – – | – – | 1 | – | – | – – | 0 | – – | – – | 1 | 6 |
| Other Oils for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Special Naphthas | – – | – – | 18 | – | – | – – | 1 | – – | – – | 17 | 43 |
| Lubricants | – – | – – | 645 | 28 | -88 | – – | 86 | – – | 282 | 217 | 666 |
| Waxes | – – | – – | – | 63 | – | – – | – | – – | 5 | 58 | – |
| Petroleum Coke | – – | – – | 4,213 | 22 | 41 | – – | 12 | – – | 2,636 | 1,628 | 1,703 |
| Marketable | – – | – – | 3,217 | 22 | 41 | – – | 12 | – – | 2,636 | 632 | 1,703 |
| Catalyst | – – | – – | 996 | – – | – – | – – | – – | – – | – – | 996 | – – |
| Asphalt and Road Oil | – – | – – | 847 | 33 | 562 | – – | -210 | – – | 39 | 1,613 | 2,125 |
| Still Gas | – – | – – | 3,416 | – – | – – | – – | – – | – – | – – | 3,416 | – – |
| Miscellaneous Products | – – | – – | 404 | – | – | – – | 4 | – – | 0 | 400 | 82 |
| **Total** | **28,512** | **749** | **93,807** | **51,068** | **15,946** | **4,089** | **-1,810** | **88,822** | **14,438** | **92,721** | **135,399** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels)

| Commodity | Supply | | | | | | Disposition | | | | Ending Stocks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] | |
| **Crude Oil** | **251,529** | **– –** | **– –** | **344,087** | **48,910** | **18,299** | **1,093** | **655,355** | **6,377** | **0** | **46,239** |
| **Hydrocarbon Gas Liquids** | **14,983** | **-99** | **15,531** | **14,437** | **7,499** | **– –** | **2,687** | **20,123** | **13,405** | **16,136** | **6,246** |
| Natural Gas Liquids | 14,983 | -99 | 14,895 | 14,437 | 7,499 | – – | 2,610 | 20,123 | 13,405 | 15,577 | 6,119 |
| Ethane | 14 | – – | – | – | – | – – | – | – – | 3 | 11 | – |
| Propane | 2,642 | – – | 9,168 | 9,078 | 2,909 | – – | 1,127 | – – | 8,184 | 14,486 | 2,540 |
| Normal Butane | 2,248 | – – | 4,648 | 4,891 | 3,257 | – – | 1,397 | 7,168 | 5,031 | 1,448 | 3,055 |
| Isobutane | 3,279 | – – | 1,079 | 468 | 1,333 | – – | 69 | 6,942 | 6 | -858 | 473 |
| Natural Gasoline | 6,800 | -99 | – – | – | – | – – | 17 | 6,013 | 182 | 489 | 51 |
| Refinery Olefins | – – | – – | 636 | – | – | – – | 77 | – – | – – | 559 | 127 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Propylene | – – | – – | 1,302 | – | – | – – | 1 | – – | – – | 1,301 | 13 |
| Normal Butylene | – – | – – | -666 | – | – | – – | 76 | – – | – – | -742 | 114 |
| Isobutylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 | 0 |
| **Other Liquids** | **– –** | **7,050** | **– –** | **44,293** | **82,630** | **-6,181** | **-3,179** | **123,803** | **5,111** | **2,057** | **48,539** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 7,050 | – – | 8,126 | 40,708 | 6,165 | -164 | 59,675 | 2,537 | 0 | 4,798 |
| Hydrogen | – – | – – | – – | – | – | 11,036 | – – | 11,036 | – | 0 | – – |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 5 | – | – | 5 | 0 | – |
| Renewable Fuels (including Fuel Ethanol) | – – | 7,050 | – – | 8,126 | 40,708 | -4,876 | -164 | 48,639 | 2,532 | 0 | 4,798 |
| Fuel Ethanol | – – | 4,559 | – – | 3,464 | 37,229 | -379 | -83 | 43,131 | 1,825 | 0 | 3,089 |
| Renewable Fuels Except Fuel Ethanol | – – | 2,491 | – – | 4,662 | 3,479 | -4,498 | -81 | 5,508 | 707 | 0 | 1,709 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | 24,253 | – | – – | -296 | 20,971 | 1,521 | 2,057 | 19,154 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 11,914 | 41,922 | -12,346 | -2,719 | 43,157 | 1,052 | 0 | 24,587 |
| Reformulated | – – | – | – – | 2,255 | 20,277 | 5,034 | -1,421 | 28,972 | 15 | 0 | 11,343 |
| Conventional | – – | – | – – | 9,659 | 21,645 | -17,379 | -1,298 | 14,185 | 1,038 | 0 | 13,244 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **–** | **832,238** | **45,669** | **19,200** | **13,791** | **-1,516** | **– –** | **95,334** | **817,080** | **34,375** |
| Finished Motor Gasoline | – – | – | 430,871 | 3,951 | 4,001 | 12,724 | 154 | – – | 10,246 | 441,148 | 2,238 |
| Reformulated | – – | – | 304,046 | – | – | -2,744 | -1 | – – | – | 301,303 | 13 |
| Conventional | – – | – | 126,825 | 3,951 | 4,001 | 15,469 | 155 | – – | 10,246 | 139,845 | 2,225 |
| Finished Aviation Gasoline | – – | – – | 287 | 30 | – | – – | -63 | – – | – | 380 | 152 |
| Kerosene-Type Jet Fuel | – – | – – | 122,944 | 30,437 | 2,533 | – – | -493 | – – | 6,570 | 149,837 | 9,429 |
| Kerosene | – – | – – | 52 | – | – | – – | -30 | – – | 10 | 72 | 43 |
| Distillate Fuel Oil | – – | – – | 158,297 | 3,688 | 8,144 | 1,067 | -1,031 | – – | 35,710 | 136,517 | 12,818 |
| 15 ppm sulfur and under | – – | – – | 151,821 | 3,679 | 8,144 | 1,067 | -944 | – – | 24,003 | 141,652 | 11,919 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 2,554 | – | – | – – | -67 | – – | 4,574 | -1,953 | 177 |
| Greater than 500 ppm sulfur | – – | – – | 3,922 | 9 | – | – – | -20 | – – | 7,133 | -3,182 | 722 |
| Residual Fuel Oil[6] | – – | – – | 32,119 | 5,107 | – | – – | 556 | – – | 8,189 | 28,481 | 5,070 |
| Less than 0.31 percent sulfur | – – | – – | 48 | 338 | – | – – | -82 | – – | NA | NA | 180 |
| 0.31 to 1.00 percent sulfur | – – | – – | 3,041 | 1,806 | – | – – | -42 | – – | NA | NA | 425 |
| Greater than 1.00 percent sulfur | – – | – – | 29,030 | 2,963 | – | – – | 677 | – – | NA | NA | 4,456 |
| Petrochemical Feedstocks | – – | – – | 20 | 269 | – | – – | 1 | – – | – – | 288 | 6 |
| Naphtha for Petro. Feed. Use | – – | – – | 20 | 269 | – | – – | 1 | – – | – – | 288 | 6 |
| Other Oils for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – | – |
| Special Naphthas | – – | – – | 268 | – | – | – – | -14 | – – | – – | 282 | 43 |
| Lubricants | – – | – – | 4,594 | 558 | -321 | – – | -603 | – – | 2,704 | 2,730 | 666 |
| Waxes | – – | – – | – | 480 | – | – – | – | – – | 47 | 433 | – |
| Petroleum Coke | – – | – – | 40,409 | 227 | -201 | – – | 232 | – – | 31,338 | 8,864 | 1,703 |
| Marketable | – – | – – | 31,340 | 227 | -201 | – – | 232 | – – | 31,338 | -205 | 1,703 |
| Catalyst | – – | – – | 9,069 | – – | – – | – – | – – | – – | – – | 9,069 | – – |
| Asphalt and Road Oil | – – | – – | 7,158 | 922 | 5,044 | – – | -208 | – – | 518 | 12,815 | 2,125 |
| Still Gas | – – | – – | 31,632 | – – | – – | – – | – – | – – | – – | 31,632 | – – |
| Miscellaneous Products | – – | – – | 3,587 | – | – | – – | -17 | – – | 2 | 3,602 | 82 |
| **Total** | **266,512** | **6,951** | **847,769** | **448,486** | **158,239** | **25,909** | **-915** | **799,281** | **120,227** | **835,273** | **135,399** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] |
| **Crude Oil** | **906** | **– –** | **– –** | **1,298** | **165** | **101** | **30** | **2,356** | **84** | **0** |
| **Hydrocarbon Gas Liquids** | **44** | **0** | **63** | **47** | **26** | **– –** | **30** | **55** | **47** | **48** |
| Natural Gas Liquids | 44 | 0 | 58 | 47 | 26 | – – | 27 | 55 | 47 | 46 |
| Ethane | 0 | – – | – | – | – | – – | – | – – | 0 | 0 |
| Propane | 9 | – – | 35 | 30 | 10 | – – | 14 | – – | 29 | 41 |
| Normal Butane | 7 | – – | 20 | 17 | 11 | – – | 15 | 16 | 17 | 7 |
| Isobutane | 9 | – – | 3 | 0 | 5 | – – | -2 | 23 | 0 | -4 |
| Natural Gasoline | 19 | 0 | – – | – | – | – – | 0 | 16 | 1 | 1 |
| Refinery Olefins | – – | – – | 5 | – | – | – – | 3 | – – | – – | 2 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – |
| Propylene | – – | – – | 6 | – | – | – – | 0 | – – | – – | 6 |
| Normal Butylene | – – | – – | -1 | – | – | – – | 3 | – – | – – | -4 |
| Isobutylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 |
| **Other Liquids** | **– –** | **25** | **– –** | **180** | **264** | **9** | **-113** | **550** | **13** | **28** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 25 | – – | 51 | 117 | 57 | 15 | 224 | 12 | 0 |
| Hydrogen | – – | – – | – – | – | – | 45 | – – | 45 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | – | – | 0 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 25 | – – | 51 | 117 | 13 | 15 | 179 | 12 | 0 |
| Fuel Ethanol | – – | 15 | – – | 40 | 102 | 25 | 13 | 160 | 9 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 10 | – – | 11 | 15 | -12 | 2 | 19 | 3 | 0 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | 118 | – | – – | -58 | 147 | 1 | 28 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 11 | 147 | -48 | -70 | 179 | 0 | 0 |
| Reformulated | – – | – | – – | – | 67 | -10 | -71 | 128 | 0 | 0 |
| Conventional | – – | – | – – | 11 | 80 | -39 | 1 | 51 | 0 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **–** | **3,064** | **177** | **76** | **26** | **-7** | **– –** | **337** | **3,014** |
| Finished Motor Gasoline | – – | – | 1,589 | 13 | 13 | 24 | -2 | – – | 35 | 1,605 |
| Reformulated | – – | – | 1,126 | – | – | 13 | 0 | – – | – | 1,139 |
| Conventional | – – | – | 463 | 13 | 13 | 10 | -1 | – – | 35 | 466 |
| Finished Aviation Gasoline | – – | – – | – | 0 | – | – – | -1 | – – | – | 1 |
| Kerosene-Type Jet Fuel | – – | – – | 427 | 141 | 9 | – – | -6 | – – | 26 | 557 |
| Kerosene | – – | – – | 0 | – | – | – – | 1 | – – | 0 | -1 |
| Distillate Fuel Oil | – – | – – | 582 | 8 | 38 | 3 | 3 | – – | 145 | 483 |
| 15 ppm sulfur and under | – – | – – | 568 | 8 | 38 | 3 | 10 | – – | 74 | 533 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 1 | – | – | – – | -2 | – – | 5 | -2 |
| Greater than 500 ppm sulfur | – – | – – | 13 | 0 | – | – – | -5 | – – | 66 | -48 |
| Residual Fuel Oil[6] | – – | – – | 148 | 9 | – | – – | 1 | – – | 32 | 125 |
| Less than 0.31 percent sulfur | – – | – – | 0 | – | – | – – | -10 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 10 | 4 | – | – – | -1 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 138 | 5 | – | – – | 11 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | 0 | – | – | – – | 0 | – – | – – | 0 |
| Naphtha for Petro. Feed. Use | – – | – – | 0 | – | – | – – | 0 | – – | – – | 0 |
| Other Oils for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – |
| Special Naphthas | – – | – – | 1 | – | – | – – | 0 | – – | – – | 1 |
| Lubricants | – – | – – | 22 | 1 | -3 | – – | 3 | – – | 9 | 7 |
| Waxes | – – | – – | – | 2 | – | – – | – | – – | 0 | 2 |
| Petroleum Coke | – – | – – | 140 | 1 | 1 | – – | 0 | – – | 88 | 54 |
| Marketable | – – | – – | 107 | 1 | 1 | – – | 0 | – – | 88 | 21 |
| Catalyst | – – | – – | 33 | – – | – – | – – | – – | – – | – – | 33 |
| Asphalt and Road Oil | – – | – – | 28 | 1 | 19 | – – | -7 | – – | 1 | 54 |
| Still Gas | – – | – – | 114 | – – | – – | – – | – – | – – | – – | 114 |
| Miscellaneous Products | – – | – – | 13 | – | – | – – | 0 | – – | 0 | 13 |
| **Total** | **950** | **25** | **3,127** | **1,702** | **532** | **136** | **-60** | **2,961** | **481** | **3,091** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-September 2019**
(Thousand Barrels per Day)

| Commodity | Supply | | | | | | Disposition | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Field Production | Renewable Fuels and Oxygenate Plant Net Production | Refinery and Blender Net Production | Imports (PADD of Entry)[1] | Net Receipts[2] | Adjust-ments[3] | Stock Change[4] | Refinery and Blender Net Inputs | Exports | Products Supplied[5] |
| **Crude Oil** | **921** | **– –** | **– –** | **1,260** | **179** | **67** | **4** | **2,401** | **23** | **0** |
| **Hydrocarbon Gas Liquids** | **55** | **0** | **57** | **53** | **27** | **– –** | **10** | **74** | **49** | **59** |
| Natural Gas Liquids | 55 | 0 | 55 | 53 | 27 | – – | 10 | 74 | 49 | 57 |
| Ethane | 0 | – – | – | – | – | – – | – | – – | 0 | 0 |
| Propane | 10 | – – | 34 | 33 | 11 | – – | 4 | – – | 30 | 53 |
| Normal Butane | 8 | – – | 17 | 18 | 12 | – – | 5 | 26 | 18 | 5 |
| Isobutane | 12 | – – | 4 | 2 | 5 | – – | 0 | 25 | 0 | -3 |
| Natural Gasoline | 25 | 0 | – – | – | – | – – | 0 | 22 | 1 | 2 |
| Refinery Olefins | – – | – – | 2 | – | – | – – | 0 | – – | – – | 2 |
| Ethylene | – – | – – | – | – | – | – – | – | – – | – – | – |
| Propylene | – – | – – | 5 | – | – | – – | 0 | – – | – – | 5 |
| Normal Butylene | – – | – – | -2 | – | – | – – | 0 | – – | – – | -3 |
| Isobutylene | – – | – – | – | – | – | – – | 0 | – – | – – | 0 |
| **Other Liquids** | **– –** | **26** | **– –** | **162** | **303** | **-23** | **-12** | **453** | **19** | **8** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | – – | 26 | – – | 30 | 149 | 23 | -1 | 219 | 9 | 0 |
| Hydrogen | – – | – – | – – | – | – | 40 | – – | 40 | – | 0 |
| Oxygenates (excluding Fuel Ethanol) | – – | – | – – | – | – | 0 | – | – | 0 | 0 |
| Renewable Fuels (including Fuel Ethanol) | – – | 26 | – – | 30 | 149 | -18 | -1 | 178 | 9 | 0 |
| Fuel Ethanol | – – | 17 | – – | 13 | 136 | -1 | 0 | 158 | 7 | 0 |
| Renewable Fuels Except Fuel Ethanol | – – | 9 | – – | 17 | 13 | -16 | 0 | 20 | 3 | 0 |
| Other Hydrocarbons | – – | – – | – – | – | – | – | – | – | – | – |
| Unfinished Oils | – – | – – | – – | 89 | – | – – | -1 | 77 | 6 | 8 |
| Motor Gasoline Blend.Comp. (MGBC) | – – | – | – – | 44 | 154 | -45 | -10 | 158 | 4 | 0 |
| Reformulated | – – | – | – – | 8 | 74 | 18 | -5 | 106 | 0 | 0 |
| Conventional | – – | – | – – | 35 | 79 | -64 | -5 | 52 | 4 | 0 |
| Aviation Gasoline Blend. Comp. | – – | – – | – – | – | – | – – | – | – | – | – |
| **Finished Petroleum Products** | **– –** | **–** | **3,048** | **167** | **70** | **51** | **-6** | **– –** | **349** | **2,993** |
| Finished Motor Gasoline | – – | – | 1,578 | 14 | 15 | 47 | 1 | – – | 38 | 1,616 |
| Reformulated | – – | – | 1,114 | – | – | -10 | 0 | – – | – | 1,104 |
| Conventional | – – | – | 465 | 14 | 15 | 57 | 1 | – – | 38 | 512 |
| Finished Aviation Gasoline | – – | – – | 1 | 0 | – | – – | 0 | – – | – | 1 |
| Kerosene-Type Jet Fuel | – – | – – | 450 | 111 | 9 | – – | -2 | – – | 24 | 549 |
| Kerosene | – – | – – | 0 | – | – | – – | 0 | – – | 0 | 0 |
| Distillate Fuel Oil | – – | – – | 580 | 14 | 30 | 4 | -4 | – – | 131 | 500 |
| 15 ppm sulfur and under | – – | – – | 556 | 13 | 30 | 4 | -3 | – – | 88 | 519 |
| Greater than 15 ppm to 500 ppm sulfur | – – | – – | 9 | – | – | – – | 0 | – – | 17 | -7 |
| Greater than 500 ppm sulfur | – – | – – | 14 | 0 | – | – – | 0 | – – | 26 | -12 |
| Residual Fuel Oil[6] | – – | – – | 118 | 19 | – | – – | 2 | – – | 30 | 104 |
| Less than 0.31 percent sulfur | – – | – – | 0 | 1 | – | – – | 0 | – – | NA | NA |
| 0.31 to 1.00 percent sulfur | – – | – – | 11 | 7 | – | – – | 0 | – – | NA | NA |
| Greater than 1.00 percent sulfur | – – | – – | 106 | 11 | – | – – | 2 | – – | NA | NA |
| Petrochemical Feedstocks | – – | – – | 0 | 1 | – | – – | 0 | – – | – – | 1 |
| Naphtha for Petro. Feed. Use | – – | – – | 0 | 1 | – | – – | 0 | – – | – – | 1 |
| Other Oils for Petro. Feed. Use | – – | – – | – | – | – | – – | – | – – | – – | – |
| Special Naphthas | – – | – – | 1 | – | – | – – | 0 | – – | – – | 1 |
| Lubricants | – – | – – | 17 | 2 | -1 | – – | -2 | – – | 10 | 10 |
| Waxes | – – | – – | – | 2 | – | – – | – | – – | 0 | 2 |
| Petroleum Coke | – – | – – | 148 | 1 | -1 | – – | 1 | – – | 115 | 32 |
| Marketable | – – | – – | 115 | 1 | -1 | – – | 1 | – – | 115 | -1 |
| Catalyst | – – | – – | 33 | – – | – – | – – | – – | – – | – – | 33 |
| Asphalt and Road Oil | – – | – – | 26 | 3 | 18 | – – | -1 | – – | 2 | 47 |
| Still Gas | – – | – – | 116 | – – | – – | – – | – – | – – | – – | 116 |
| Miscellaneous Products | – – | – – | 13 | – | – | – – | 0 | – – | 0 | 13 |
| **Total** | **976** | **25** | **3,105** | **1,643** | **580** | **95** | **-3** | **2,928** | **440** | **3,060** |

– – = Not Applicable.
– = No Data Reported.
NA = Not Available.
1 Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
2 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.
3 Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
4 A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
5 Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.
6 Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, September 2019**
(Thousand Barrels, Except Where Noted)

| Process | PAD Districts | | | | | U.S. Total | |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | Total | Daily Average |
| **Supply** | | | | | | | |
| Field Production | 2,283 | 67,210 | 248,238 | 28,986 | 27,180 | 373,896 | 12,463 |
| Alaskan | – – | – – | – – | – – | – | 13,482 | 449 |
| Lower 48 States | – | – | – | – | – | 360,414 | 12,014 |
| Imports (PAD District of Entry) | 17,047 | 83,996 | 42,538 | 11,814 | 38,945 | 194,340 | 6,478 |
| Commercial | 17,047 | 83,996 | 42,538 | 11,814 | 38,945 | 194,340 | 6,478 |
| Strategic Petroleum Reserve (SPR) | – | – | – | – | – | – | – |
| Net Receipts | 7,306 | -23,400 | 30,487 | -19,343 | 4,949 | – | – |
| Adjustments[1] | -1,248 | -3,459 | 15,925 | -1,989 | 3,036 | 12,264 | 409 |
| **Disposition** | | | | | | | |
| Stock Change[2] | -633 | 2,443 | -7,369 | 304 | 895 | -4,360 | -145 |
| Commercial | – | – | -7,369 | – | – | -4,360 | -145 |
| SPR | – | – | 0 | – | – | 0 | 0 |
| Refinery Inputs | 24,566 | 116,636 | 261,050 | 19,164 | 70,689 | 492,105 | 16,404 |
| Exports | 1,455 | 5,268 | 83,507 | – | 2,526 | 92,755 | 3,092 |
| **Ending Stocks** | | | | | | | |
| Total | 9,779 | 127,979 | 866,645 | 20,632 | 46,239 | 1,071,274 | – – |
| Commercial | 9,779 | 127,979 | 221,827 | 20,632 | 46,239 | 426,456 | – – |
| Refinery | 7,233 | 13,542 | 44,189 | 2,576 | 21,484 | 89,024 | – – |
| Tank Farms and Pipelines | 2,546 | 114,437 | 177,638 | 18,056 | 22,393 | 335,070 | – – |
| Cushing, Oklahoma | – – | 40,042 | – – | – – | – – | 40,042 | – – |
| Lease | – | – | – | – | – | – | – – |
| Alaskan Crude Oil In-Transit by Water | – | – | – | – | 2,362 | 2,362 | – – |
| SPR | – | – | 644,818 | – | – | 644,818 | – – |
| **SPR Stocks** | | | | | | | |
| Percent of Total Crude Oil Stocks (Percent) | – – | – – | – – | – – | – – | 60.2 | – – |
| Percent of Total Petroleum Stocks (Percent) | – – | – – | – – | – – | – – | 33.1 | – – |
| Days of Total Petroleum Net Imports (Days) | – – | – – | – – | – – | – – | – – | – – |
| **SPR Receipts Detail** | | | | | | | |
| Receipts | – | – | – | – | – | – | – |
| Domestic | – | – | – | – | – | – | – |
| Imports | – | – | – | – | – | – | – |
| Imported by SPR | – | – | – | – | – | – | – |
| Imported for SPR by Others | – | – | – | – | – | – | – |
| **Imports** | | | | | | | |
| PAD District of Entry | 17,047 | 83,996 | 42,538 | 11,814 | 38,945 | 194,340 | 6,478 |
| PAD District of Processing | 18,623 | 74,297 | 52,133 | 9,643 | 39,644 | 194,340 | 6,478 |

– – = Not Applicable.
– = No Data Reported.
[1] Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.
[2] A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 26. Production of Crude Oil by PAD District and State, September 2019**
(Thousand Barrels)

| PAD District and State | September 2019 | | January-September 2019 | |
|---|---|---|---|---|
| | Total | Daily Average | Total | Daily Average |
| **PAD District 1** | **2,283** | **76** | **18,028** | **66** |
| Florida | 160 | 5 | 1,401 | 5 |
| New York | 18 | 1 | 165 | 1 |
| Pennsylvania | 559 | 19 | 4,658 | 17 |
| Virginia | 0 | 0 | 2 | 0 |
| West Virginia | 1,546 | 52 | 11,801 | 43 |
| **PAD District 2** | **67,210** | **2,240** | **596,620** | **2,185** |
| Illinois | 703 | 23 | 6,117 | 22 |
| Indiana | 129 | 4 | 1,151 | 4 |
| Kansas | 2,694 | 90 | 24,978 | 91 |
| Kentucky | 209 | 7 | 1,739 | 6 |
| Michigan | 416 | 14 | 3,836 | 14 |
| Missouri | 8 | 0 | 61 | 0 |
| Nebraska | 162 | 5 | 1,495 | 5 |
| North Dakota | 41,990 | 1,400 | 377,358 | 1,382 |
| Ohio | 2,650 | 88 | 20,450 | 75 |
| Oklahoma | 18,145 | 605 | 158,414 | 580 |
| South Dakota | 90 | 3 | 874 | 3 |
| Tennessee | 14 | 0 | 148 | 1 |
| **PAD District 3** | **248,238** | **8,275** | **2,165,989** | **7,934** |
| Alabama | 361 | 12 | 3,634 | 13 |
| Arkansas | 396 | 13 | 3,513 | 13 |
| Louisiana | 3,696 | 123 | 32,819 | 120 |
| Mississippi | 1,424 | 47 | 12,784 | 47 |
| New Mexico | 28,682 | 956 | 242,317 | 888 |
| Texas | 156,825 | 5,227 | 1,362,293 | 4,990 |
| Federal Offshore PAD District 3 | 56,854 | 1,895 | 508,629 | 1,863 |
| **PAD District 4** | **28,986** | **966** | **256,474** | **939** |
| Colorado | 15,414 | 514 | 136,625 | 500 |
| Idaho | 2 | 0 | 19 | 0 |
| Montana | 1,793 | 60 | 17,054 | 62 |
| Utah | 3,066 | 102 | 28,120 | 103 |
| Wyoming | 8,710 | 290 | 74,655 | 273 |
| **PAD District 5** | **27,180** | **906** | **251,529** | **921** |
| Alaska | 13,482 | 449 | 125,792 | 461 |
| South Alaska | 405 | 14 | 3,927 | 14 |
| North Slope | 13,076 | 436 | 121,865 | 446 |
| Arizona | 1 | 0 | 6 | 0 |
| California | 13,214 | 440 | 122,264 | 448 |
| Nevada | 21 | 1 | 194 | 1 |
| Federal Offshore PAD District 5 | 462 | 15 | 3,273 | 12 |
| **U.S. Total** | **373,896** | **12,463** | **3,288,639** | **12,046** |

¯ = No Data Reported.
Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (http://www.eia.gov/todayinenergy/detail.cfm?id=22012) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

**Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels)

| Commodity | Production | | | | | | |
|---|---|---|---|---|---|---|---|
| | PAD District 1 - East Coast | | | PAD District 2 - Midwest | | | |
| | East Coast | Appalachian No. 1 | Total | Indiana, Illinois, Kentucky | Minnesota, Wisconsin, North and South Dakota | Oklahoma, Kansas, Missouri | Total |
| **Hydrocarbon Gas Liquids** | **13** | **16,270** | **16,283** | **5,270** | **9,921** | **16,975** | **32,166** |
| Natural Gas Liquids | 13 | 16,270 | 16,283 | 5,270 | 9,921 | 16,975 | 32,166 |
| Ethane | – | 5,664 | 5,664 | 1,317 | 2,153 | 6,594 | 10,064 |
| Propane | 4 | 6,091 | 6,095 | 2,432 | 3,934 | 5,425 | 11,791 |
| Normal Butane | 9 | 1,936 | 1,945 | 482 | 1,729 | 1,927 | 4,138 |
| Isobutane | – | 820 | 820 | 603 | 500 | 942 | 2,045 |
| Natural Gasoline | – | 1,759 | 1,759 | 436 | 1,605 | 2,087 | 4,128 |

| Commodity | Production | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | PAD District 3 - Gulf Coast | | | | | | PAD District 4 - Rocky Mountain | PAD District 5 - West Coast | U.S. Total |
| | Texas Inland | Texas Gulf Coast | Louisiana Gulf Coast | North Louisiana, Arkansas | New Mexico | Total | | | |
| **Hydrocarbon Gas Liquids** | **68,713** | **5,046** | **5,915** | **613** | **6,676** | **86,963** | **12,913** | **1,332** | **149,657** |
| Natural Gas Liquids | 68,713 | 5,046 | 5,915 | 613 | 6,676 | 86,963 | 12,913 | 1,332 | 149,657 |
| Ethane | 29,100 | 1,985 | 2,162 | 118 | 2,516 | 35,881 | 2,833 | 1 | 54,443 |
| Propane | 20,824 | 1,585 | 2,006 | 174 | 2,163 | 26,752 | 4,919 | 277 | 49,834 |
| Normal Butane | 7,188 | -2,990 | 702 | 74 | 682 | 5,656 | 1,958 | 214 | 13,911 |
| Isobutane | 3,987 | 3,918 | 402 | 65 | 501 | 8,873 | 1,003 | 264 | 13,005 |
| Natural Gasoline | 7,614 | 548 | 643 | 182 | 814 | 9,801 | 2,200 | 576 | 18,464 |

| Commodity | Stocks | | | | | | |
|---|---|---|---|---|---|---|---|
| | PAD District 1 - East Coast | | | PAD District 2 - Midwest | | | |
| | East Coast | Appalachian No. 1 | Total | Indiana, Illinois, Kentucky | Minnesota, Wisconsin, North and South Dakota | Oklahoma, Kansas, Missouri | Total |
| **Hydrocarbon Gas Liquids** | **7** | **265** | **272** | **1,045** | **114** | **244** | **1,403** |
| Natural Gas Liquids | 7 | 265 | 272 | 1,045 | 114 | 244 | 1,403 |
| Ethane | – | – | – | 32 | 1 | 37 | 70 |
| Propane | 3 | 125 | 128 | 647 | 46 | 57 | 750 |
| Normal Butane | 4 | 51 | 55 | 150 | 20 | 33 | 203 |
| Isobutane | – | 12 | 12 | 118 | 5 | 45 | 168 |
| Natural Gasoline | – | 77 | 77 | 98 | 42 | 72 | 212 |

| Commodity | Stocks | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | PAD District 3 - Gulf Coast | | | | | | PAD District 4 - Rocky Mountain | PAD District 5 - West Coast | U.S. Total |
| | Texas Inland | Texas Gulf Coast | Louisiana Gulf Coast | North Louisiana, Arkansas | New Mexico | Total | | | |
| **Hydrocarbon Gas Liquids** | **296** | **277** | **1,652** | **23** | **–** | **2,248** | **192** | **514** | **4,629** |
| Natural Gas Liquids | 296 | 277 | 1,652 | 23 | – | 2,248 | 192 | 514 | 4,629 |
| Ethane | 123 | 98 | – | – | – | 221 | 7 | – | 298 |
| Propane | 58 | 125 | 23 | 15 | – | 221 | 81 | 105 | 1,285 |
| Normal Butane | 33 | 36 | 1,233 | 7 | – | 1,309 | 46 | 331 | 1,944 |
| Isobutane | 48 | 14 | 201 | – | – | 263 | 18 | 33 | 494 |
| Natural Gasoline | 34 | 4 | 195 | 1 | – | 234 | 40 | 45 | 608 |

– = No Data Reported.
Note: Refer to Appendix A for Refining District descriptions.
Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

**Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels)

| Commodity | PAD District 1 - East Coast | | | PAD District 2 - Midwest | | | |
|---|---|---|---|---|---|---|---|
| | East Coast | Appalachian No. 1 | Total | Indiana, Illinois, Kentucky | Minnesota, Wisconsin, North and South Dakota | Oklahoma, Kansas, Missouri | Total |
| **Crude Oil** | **21,627** | **2,939** | **24,566** | **76,350** | **12,485** | **27,801** | **116,636** |
| **Hydrocarbon Gas Liquids** | **1,851** | **–** | **1,851** | **1,952** | **157** | **1,440** | **3,549** |
| Natural Gas Liquids | 1,851 | – | 1,851 | 1,952 | 157 | 1,440 | 3,549 |
| Normal Butane | 1,484 | – | 1,484 | 289 | 94 | 417 | 800 |
| Isobutane | 299 | – | 299 | 1,163 | 50 | 427 | 1,640 |
| Natural Gasoline | 68 | – | 68 | 500 | 13 | 596 | 1,109 |
| **Other Liquids** | **78,198** | **6,469** | **84,667** | **9,689** | **4,643** | **809** | **15,141** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | 9,460 | 825 | 10,285 | 5,687 | 1,432 | 1,844 | 8,963 |
| Hydrogen | 91 | 11 | 102 | 618 | 128 | 204 | 950 |
| Oxygenates (excluding Fuel Ethanol) | – | – | – | – | – | – | – |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | – | – | – | – | – |
| All Other Oxygenates[1] | – | – | – | – | – | – | – |
| Renewable Fuels (including Fuel Ethanol) | 9,369 | 814 | 10,183 | 5,035 | 1,304 | 1,640 | 7,979 |
| Fuel Ethanol | 9,191 | 750 | 9,941 | 4,770 | 1,080 | 1,565 | 7,415 |
| Renewable Diesel Fuel[2] | 178 | 64 | 242 | 265 | 224 | 75 | 564 |
| Other Renewable Fuels | – | – | – | – | – | – | – |
| Other Hydrocarbons | – | – | – | 34 | – | – | 34 |
| Unfinished Oils (net) | 2,041 | 31 | 2,072 | 338 | -1,349 | -258 | -1,269 |
| Naphthas and Lighter | 555 | 61 | 616 | 501 | -145 | 44 | 400 |
| Kerosene and Light Gas Oils | 498 | 3 | 501 | -129 | -6 | -36 | -171 |
| Heavy Gas Oils | 504 | -36 | 468 | -165 | -1,198 | 72 | -1,291 |
| Residuum | 484 | 3 | 487 | 131 | – | -338 | -207 |
| Motor Gasoline Blend.Comp. (MGBC)(net) | 66,697 | 5,613 | 72,310 | 3,664 | 4,560 | -777 | 7,447 |
| Reformulated - RBOB | 16,466 | – | 16,466 | -570 | 1,327 | 961 | 1,718 |
| Conventional | 50,231 | 5,613 | 55,844 | 4,234 | 3,233 | -1,738 | 5,729 |
| CBOB | 41,716 | 5,593 | 47,309 | 4,878 | 2,672 | -1,610 | 5,940 |
| GTAB | 4,028 | – | 4,028 | – | – | – | – |
| Other | 4,487 | 20 | 4,507 | -644 | 561 | -128 | -211 |
| Aviation Gasoline Blend. Comp. (net) | – | – | – | – | – | – | – |
| **Total Input** | **101,676** | **9,408** | **111,084** | **87,991** | **17,285** | **30,050** | **135,326** |

See footnotes at end of table.

**Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels) — Continued

| Commodity | PAD District 3 - Gulf Coast | | | | | | PAD District 4 - Rocky Mountain | PAD District 5 - West Coast | U.S. Total |
|---|---|---|---|---|---|---|---|---|---|
| | Texas Inland | Texas Gulf Coast | Louisiana Gulf Coast | North Louisiana, Arkansas | New Mexico | Total | | | |
| **Crude Oil** | **21,746** | **125,992** | **103,208** | **6,619** | **3,485** | **261,050** | **19,164** | **70,689** | **492,105** |
| **Hydrocarbon Gas Liquids** | **493** | **5,598** | **4,084** | **90** | **161** | **10,426** | **553** | **1,638** | **18,017** |
| Natural Gas Liquids | 493 | 5,598 | 4,084 | 90 | 161 | 10,426 | 553 | 1,638 | 18,017 |
| Normal Butane | 121 | 1,537 | 1,256 | 60 | – | 2,974 | 166 | 466 | 5,890 |
| Isobutane | 226 | 2,136 | 1,351 | 26 | 161 | 3,900 | 196 | 683 | 6,718 |
| Natural Gasoline | 146 | 1,925 | 1,477 | 4 | – | 3,552 | 191 | 489 | 5,409 |
| **Other Liquids** | **8,837** | **-39,276** | **-27,419** | **7,356** | **-236** | **-50,738** | **-62** | **16,495** | **65,503** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | 2,163 | 2,746 | 1,902 | 1,145 | 231 | 8,187 | 1,190 | 6,713 | 35,338 |
| Hydrogen | 7 | 1,855 | 1,387 | 66 | 48 | 3,363 | 208 | 1,339 | 5,962 |
| Oxygenates (excluding Fuel Ethanol) | – | – | – | – | – | – | – | – | – |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | – | – | – | – | – | – | – |
| All Other Oxygenates[1] | – | – | – | – | – | – | – | – | – |
| Renewable Fuels (including Fuel Ethanol) | 2,156 | 891 | 515 | 1,079 | 183 | 4,824 | 982 | 5,374 | 29,342 |
| Fuel Ethanol | 2,054 | 836 | 472 | 999 | 158 | 4,519 | 925 | 4,804 | 27,604 |
| Renewable Diesel Fuel[2] | 102 | 55 | 43 | 80 | 25 | 305 | 57 | 561 | 1,729 |
| Other Renewable Fuels | – | – | – | – | – | – | – | 9 | 9 |
| Other Hydrocarbons | – | – | – | – | – | – | – | – | 34 |
| Unfinished Oils (net) | -606 | -2,351 | 9,267 | -164 | -11 | 6,135 | -28 | 4,412 | 11,322 |
| Naphthas and Lighter | -325 | -4,871 | 385 | -47 | 6 | -4,852 | -258 | 7 | -4,087 |
| Kerosene and Light Gas Oils | 104 | -1,723 | 1,060 | -16 | -5 | -580 | -220 | -437 | -907 |
| Heavy Gas Oils | -391 | 2,568 | 5,594 | -33 | -12 | 7,726 | 446 | 4,002 | 11,351 |
| Residuum | 6 | 1,675 | 2,228 | -68 | – | 3,841 | 4 | 840 | 4,965 |
| Motor Gasoline Blend.Comp. (MGBC)(net) | 7,259 | -39,671 | -38,585 | 6,375 | -456 | -65,078 | -1,224 | 5,370 | 18,825 |
| Reformulated - RBOB | 5,596 | -8,612 | -2,016 | – | -828 | -5,860 | – | 3,829 | 16,153 |
| Conventional | 1,663 | -31,059 | -36,569 | 6,375 | 372 | -59,218 | -1,224 | 1,541 | 2,672 |
| CBOB | 1,895 | -30,965 | -35,990 | 6,414 | 276 | -58,370 | -1,209 | 1,360 | -4,970 |
| GTAB | – | – | – | – | – | – | – | – | 4,028 |
| Other | -232 | -94 | -579 | -39 | 96 | -848 | -15 | 181 | 3,614 |
| Aviation Gasoline Blend. Comp. (net) | 21 | – | -3 | – | – | 18 | – | – | 18 |
| **Total Input** | **31,076** | **92,314** | **79,873** | **14,065** | **3,410** | **220,738** | **19,655** | **88,822** | **575,625** |

– = No Data Reported.
[1] Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
[2] Renewable diesel fuel includes biodiesel and other renewable diesel.
Note: Totals may not equal sum of components due to independent rounding.
Note: Refer to Appendix A for Refining District descriptions.
Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels)

| Commodity | PAD District 1 - East Coast | | | PAD District 2 - Midwest | | | |
|---|---|---|---|---|---|---|---|
| | East Coast | Appalachian No. 1 | Total | Indiana, Illinois, Kentucky | Minnesota, Wisconsin, North and South Dakota | Oklahoma, Kansas, Missouri | Total |
| Hydrocarbon Gas Liquids | 929 | 1 | 930 | 2,886 | 272 | 577 | 3,735 |
| Natural Gas Liquids | 495 | 1 | 496 | 1,911 | 249 | 283 | 2,443 |
| Ethane | – | – | – | – | – | – | – |
| Propane | 428 | 24 | 452 | 1,523 | 188 | 432 | 2,143 |
| Normal Butane | 52 | -5 | 47 | 389 | 39 | -89 | 339 |
| Isobutane | 15 | -18 | -3 | -1 | 22 | -60 | -39 |
| Natural Gasoline | – | – | – | – | – | – | – |
| Refinery Olefins | 434 | – | 434 | 975 | 23 | 294 | 1,292 |
| Ethylene | 8 | – | 8 | – | – | – | – |
| Propylene | 463 | – | 463 | 882 | 23 | 294 | 1,199 |
| Normal Butylene | -63 | – | -63 | 93 | – | – | 93 |
| Isobutylene | 26 | – | 26 | – | – | – | – |
| Finished Motor Gasoline | 89,058 | 7,530 | 96,588 | 50,909 | 10,390 | 16,186 | 77,485 |
| Reformulated | 38,310 | 70 | 38,380 | 8,137 | 1,481 | 1,069 | 10,687 |
| Reformulated Blended with Fuel Ethanol | 38,310 | 70 | 38,380 | 8,137 | 1,481 | 1,069 | 10,687 |
| Reformulated Other | – | – | – | – | – | – | – |
| Conventional | 50,748 | 7,460 | 58,208 | 42,772 | 8,909 | 15,117 | 66,798 |
| Conventional Blended with Fuel Ethanol | 52,763 | 7,392 | 60,155 | 39,212 | 9,176 | 13,994 | 62,382 |
| Ed55 and Lower | 52,713 | 7,392 | 60,105 | 39,200 | 9,148 | 13,918 | 62,266 |
| Greater than Ed55 | 50 | – | 50 | 12 | 28 | 76 | 116 |
| Conventional Other | -2,015 | 68 | -1,947 | 3,560 | -267 | 1,123 | 4,416 |
| Finished Aviation Gasoline | – | – | – | – | – | – | – |
| Kerosene-Type Jet Fuel | 2,935 | – | 2,935 | 6,939 | 918 | 1,022 | 8,879 |
| Kerosene | 56 | 7 | 63 | 52 | – | 17 | 69 |
| Distillate Fuel Oil | 6,946 | 834 | 7,780 | 19,033 | 4,114 | 10,747 | 33,894 |
| 15 ppm sulfur and under | 7,035 | 720 | 7,755 | 19,024 | 4,113 | 10,698 | 33,835 |
| Greater than 15 ppm to 500 ppm sulfur | 32 | 82 | 114 | -23 | – | 152 | 129 |
| Greater than 500 ppm sulfur | -121 | 32 | -89 | 32 | 1 | -103 | -70 |
| Residual Fuel Oil | 728 | 9 | 737 | 968 | 149 | 115 | 1,232 |
| Less than 0.31 percent sulfur | -52 | 8 | -44 | 66 | – | – | 66 |
| 0.31 to 1.00 percent sulfur | 314 | 1 | 315 | 147 | 11 | – | 158 |
| Greater than 1.00 percent sulfur | 466 | – | 466 | 755 | 138 | 115 | 1,008 |
| Petrochemical Feedstocks | -6 | – | -6 | 879 | – | 26 | 905 |
| Naphtha for Petro. Feed. Use | -6 | – | -6 | 646 | – | – | 646 |
| Other Oils for Petro. Feed. Use | – | – | – | 233 | – | 26 | 259 |
| Special Naphthas | – | 23 | 23 | -91 | – | 63 | -28 |
| Lubricants | 168 | 169 | 337 | – | – | 205 | 205 |
| Waxes | – | 12 | 12 | – | – | 34 | 34 |
| Petroleum Coke | 764 | 20 | 784 | 4,177 | 425 | 811 | 5,413 |
| Marketable | 287 | – | 287 | 3,123 | 356 | 580 | 4,059 |
| Catalyst | 477 | 20 | 497 | 1,054 | 69 | 231 | 1,354 |
| Asphalt and Road Oil | 376 | 696 | 1,072 | 3,723 | 1,153 | 346 | 5,222 |
| Still Gas | 961 | 46 | 1,007 | 2,799 | 436 | 1,096 | 4,331 |
| Miscellaneous Products | 53 | 25 | 78 | 329 | 55 | 48 | 432 |
| **Total** | 102,968 | 9,372 | 112,340 | 92,603 | 17,912 | 31,293 | 141,808 |
| Processing Gain(-) or Loss(+)[1] | **-1,292** | **36** | **-1,256** | **-4,612** | **-627** | **-1,243** | **-6,482** |

See footnotes at end of table.

**Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels) — Continued

| Commodity | PAD District 3 - Gulf Coast | | | | | | PAD District 4 - Rocky Mountain | PAD District 5 - West Coast | U.S. Total |
|---|---|---|---|---|---|---|---|---|---|
| | Texas Inland | Texas Gulf Coast | Louisiana Gulf Coast | North Louisiana, Arkansas | New Mexico | Total | | | |
| Hydrocarbon Gas Liquids | 828 | 5,706 | 4,938 | 16 | 46 | 11,534 | 317 | 1,876 | 18,392 |
| Natural Gas Liquids | 452 | 2,373 | 2,105 | -6 | 46 | 4,970 | 267 | 1,726 | 9,902 |
| Ethane | 1 | 129 | 30 | – | – | 160 | – | – | 160 |
| Propane | 264 | 2,016 | 1,905 | 6 | 38 | 4,229 | 291 | 1,039 | 8,154 |
| Normal Butane | 141 | 832 | 35 | -12 | 9 | 1,005 | 22 | 590 | 2,003 |
| Isobutane | 46 | -604 | 135 | – | -1 | -424 | -46 | 97 | -415 |
| Natural Gasoline | – | – | – | – | – | – | – | – | – |
| Refinery Olefins | 376 | 3,333 | 2,833 | 22 | – | 6,564 | 50 | 150 | 8,490 |
| Ethylene | – | – | – | – | – | – | – | – | 8 |
| Propylene | 378 | 3,296 | 2,912 | 22 | – | 6,608 | -2 | 181 | 8,449 |
| Normal Butylene | -2 | 69 | -79 | – | – | -12 | 52 | -31 | 39 |
| Isobutylene | – | -32 | – | – | – | -32 | – | – | -6 |
| Finished Motor Gasoline | 20,313 | 20,682 | 14,514 | 9,195 | 1,625 | 66,329 | 9,602 | 47,667 | 297,671 |
| Reformulated | 7,163 | 6,835 | – | – | – | 13,998 | – | 33,772 | 96,837 |
| Reformulated Blended with Fuel Ethanol | 7,163 | 6,835 | – | – | – | 13,998 | – | 33,772 | 96,837 |
| Reformulated Other | – | – | – | – | – | – | – | – | – |
| Conventional | 13,150 | 13,847 | 14,514 | 9,195 | 1,625 | 52,331 | 9,602 | 13,895 | 200,834 |
| Conventional Blended with Fuel Ethanol | 13,053 | 1,556 | 4,904 | 9,913 | 1,612 | 31,038 | 9,191 | 13,872 | 176,638 |
| Ed55 and Lower | 13,030 | 1,556 | 4,904 | 9,899 | 1,611 | 31,000 | 9,178 | 13,857 | 176,406 |
| Greater than Ed55 | 23 | – | – | 14 | 1 | 38 | 13 | 15 | 232 |
| Conventional Other | 97 | 12,291 | 9,610 | -718 | 13 | 21,293 | 411 | 23 | 24,196 |
| Finished Aviation Gasoline | 83 | 78 | 104 | – | – | 265 | 9 | – | 274 |
| Kerosene-Type Jet Fuel | 1,551 | 13,455 | 13,016 | 186 | 0 | 28,208 | 1,118 | 12,821 | 53,961 |
| Kerosene | 2 | 30 | 54 | 11 | – | 97 | 1 | 10 | 240 |
| Distillate Fuel Oil | 7,223 | 38,293 | 36,186 | 2,327 | 1,586 | 85,615 | 6,310 | 17,449 | 151,048 |
| 15 ppm sulfur and under | 7,249 | 36,647 | 29,689 | 2,237 | 1,586 | 77,408 | 6,307 | 17,039 | 142,344 |
| Greater than 15 ppm to 500 ppm sulfur | -26 | 216 | 3,029 | 111 | – | 3,330 | 10 | 25 | 3,608 |
| Greater than 500 ppm sulfur | – | 1,430 | 3,468 | -21 | – | 4,877 | -7 | 385 | 5,096 |
| Residual Fuel Oil | 422 | 1,458 | 2,754 | -13 | 57 | 4,678 | 396 | 4,440 | 11,483 |
| Less than 0.31 percent sulfur | 260 | 43 | 867 | – | – | 1,170 | 181 | 2 | 1,375 |
| 0.31 to 1.00 percent sulfur | – | 64 | 505 | -13 | – | 556 | 46 | 285 | 1,360 |
| Greater than 1.00 percent sulfur | 162 | 1,351 | 1,382 | – | 57 | 2,952 | 169 | 4,153 | 8,748 |
| Petrochemical Feedstocks | 113 | 5,406 | 2,955 | – | – | 8,474 | – | 1 | 9,374 |
| Naphtha for Petro. Feed. Use | 99 | 3,680 | 1,530 | – | – | 5,309 | – | 1 | 5,950 |
| Other Oils for Petro. Feed. Use | 14 | 1,726 | 1,425 | – | – | 3,165 | – | – | 3,424 |
| Special Naphthas | 67 | 657 | – | 198 | – | 922 | – | 18 | 935 |
| Lubricants | 31 | 1,827 | 1,611 | 871 | – | 4,340 | – | 645 | 5,527 |
| Waxes | – | 38 | 28 | 12 | – | 78 | – | – | 124 |
| Petroleum Coke | 366 | 7,523 | 5,405 | 148 | 22 | 13,464 | 820 | 4,213 | 24,694 |
| Marketable | 156 | 5,640 | 4,143 | 135 | – | 10,074 | 581 | 3,217 | 18,218 |
| Catalyst | 210 | 1,883 | 1,262 | 13 | 22 | 3,390 | 239 | 996 | 6,476 |
| Asphalt and Road Oil | 232 | 591 | 704 | 810 | 63 | 2,400 | 1,148 | 847 | 10,689 |
| Still Gas | 650 | 4,965 | 4,186 | 245 | 80 | 10,126 | 686 | 3,416 | 19,566 |
| Miscellaneous Products | 110 | 835 | 508 | 20 | 30 | 1,503 | 119 | 404 | 2,536 |
| **Total** | 31,991 | 101,544 | 86,963 | 14,026 | 3,509 | 238,033 | 20,526 | 93,807 | 606,514 |
| Processing Gain(-) or Loss(+)[1] | **-915** | **-9,230** | **-7,090** | **39** | **-99** | **-17,295** | **-871** | **-4,985** | **-30,889** |

– = No Data Reported.
[1] Represents the arithmetic difference between input and production.
Note: Refer to Appendix A for Refining District descriptions.
Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels, Except Where Noted)

| Commodity | PAD District 1 - East Coast | | | PAD District 2 - Midwest | | | |
|---|---|---|---|---|---|---|---|
| | East Coast | Appalachian No. 1 | Total | Indiana, Illinois, Kentucky | Minnesota, Wisconsin, North and South Dakota | Oklahoma, Kansas, Missouri | Total |
| **Crude Oil** | **21,627** | **2,939** | **24,566** | **76,350** | **12,485** | **27,801** | **116,636** |
| **Hydrocarbon Gas Liquids** | **526** | **–** | **526** | **1,832** | **50** | **956** | **2,838** |
| Natural Gas Liquids | 526 | – | 526 | 1,832 | 50 | 956 | 2,838 |
| Normal Butane | 227 | – | 227 | 172 | – | – | 172 |
| Isobutane | 299 | – | 299 | 1,163 | 50 | 427 | 1,640 |
| Natural Gasoline | – | – | – | 497 | – | 529 | 1,026 |
| **Other Liquids** | **-8,312** | **142** | **-8,170** | **-34,285** | **-3,891** | **-12,413** | **-50,589** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | 233 | 150 | 383 | 917 | 310 | 336 | 1,563 |
| Hydrogen | 91 | 11 | 102 | 618 | 128 | 204 | 950 |
| Oxygenates (excluding Fuel Ethanol) | – | – | – | – | – | – | – |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | – | – | – | – | – |
| All Other Oxygenates[1] | – | – | – | – | – | – | – |
| Renewable Fuels (including Fuel Ethanol) | 142 | 139 | 281 | 265 | 182 | 132 | 579 |
| Fuel Ethanol | 142 | 114 | 256 | 174 | 137 | 112 | 423 |
| Renewable Diesel Fuel[2] | – | 25 | 25 | 91 | 45 | 20 | 156 |
| Other Renewable Fuels | – | – | – | – | – | – | – |
| Other Hydrocarbons | – | – | – | 34 | – | – | 34 |
| Unfinished Oils (net) | 2,041 | 31 | 2,072 | 245 | -1,349 | -258 | -1,362 |
| Naphthas and Lighter | 555 | 61 | 616 | 501 | -145 | 44 | 400 |
| Kerosene and Light Gas Oils | 498 | 3 | 501 | -129 | -6 | -36 | -171 |
| Heavy Gas Oils | 504 | -36 | 468 | -165 | -1,198 | 72 | -1,291 |
| Residuum | 484 | 3 | 487 | 38 | – | -338 | -300 |
| Motor Gasoline Blend.Comp. (MGBC)(net) | -10,586 | -39 | -10,625 | -35,447 | -2,852 | -12,491 | -50,790 |
| Reformulated - RBOB | -6,916 | – | -6,916 | -7,602 | – | – | -7,602 |
| Conventional | -3,670 | -39 | -3,709 | -27,845 | -2,852 | -12,491 | -43,188 |
| CBOB | -3,278 | -59 | -3,337 | -27,149 | -3,416 | -12,359 | -42,924 |
| GTAB | – | – | – | – | – | – | – |
| Other | -392 | 20 | -372 | -696 | 564 | -132 | -264 |
| Aviation Gasoline Blend. Comp. (net) | – | – | – | – | – | – | – |
| **Total Input to Refineries** | **13,841** | **3,081** | **16,922** | **43,897** | **8,644** | **16,344** | **68,885** |
| **Atmospheric Crude Oil Distillation** | | | | | | | |
| Gross Input (daily average) | 722 | 100 | 822 | 2,538 | 434 | 928 | 3,900 |
| Operable Capacity (daily average) | 1,126 | 98 | 1,224 | 2,678 | 547 | 923 | 4,147 |
| Operable Utilization Rate (percent)[3] | 64.1 | 101.7 | 67.2 | 94.8 | 79.4 | 100.6 | 94.0 |
| **Downstream Processing Fresh Feed Input (daily average)** | | | | | | | |
| Catalytic Reforming | 124 | 16 | 140 | 484 | 66 | 182 | 732 |
| Catalytic Cracking | 273 | 16 | 289 | 763 | 40 | 231 | 1,034 |
| Catalytic Hydrocracking | 40 | – | 40 | 202 | 38 | 63 | 303 |
| Delayed and Fluid Coking | 45 | – | 45 | 352 | 40 | 78 | 470 |
| **Crude Oil Qualities** | | | | | | | |
| Sulfur Content, Weighted Average (percent) | 0.76 | 1.71 | 0.87 | 1.49 | 1.35 | 0.62 | 1.27 |
| API Gravity, Weighted Average (degrees) | 36.02 | 31.36 | 35.43 | 33.61 | 31.12 | 38.17 | 34.40 |
| **Operable Capacity (daily average)** | **1,126** | **98** | **1,224** | **2,678** | **547** | **923** | **4,147** |
| Operating | 791 | 98 | 889 | 2,650 | 509 | 923 | 4,082 |
| Idle | 335 | – | 335 | 28 | 38 | – | 66 |
| **Alaskan Crude Oil Receipts** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |

See footnotes at end of table.

**Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels, Except Where Noted) — Continued

| Commodity | PAD District 3 - Gulf Coast | | | | | | PAD District 4 - Rocky Mountain | PAD District 5 - West Coast | U.S. Total |
|---|---|---|---|---|---|---|---|---|---|
| | Texas Inland | Texas Gulf Coast | Louisiana Gulf Coast | North Louisiana, Arkansas | New Mexico | Total | | | |
| **Crude Oil** | **21,746** | **125,992** | **103,208** | **6,619** | **3,485** | **261,050** | **19,164** | **70,689** | **492,105** |
| **Hydrocarbon Gas Liquids** | **468** | **4,107** | **4,004** | **30** | **161** | **8,770** | **473** | **1,586** | **14,193** |
| Natural Gas Liquids | 468 | 4,107 | 4,004 | 30 | 161 | 8,770 | 473 | 1,586 | 14,193 |
| Normal Butane | 107 | 931 | 1,176 | – | – | 2,214 | 125 | 414 | 3,152 |
| Isobutane | 224 | 2,136 | 1,351 | 26 | 161 | 3,898 | 195 | 683 | 6,715 |
| Natural Gasoline | 137 | 1,040 | 1,477 | 4 | – | 2,658 | 153 | 489 | 4,326 |
| **Other Liquids** | **-9,003** | **-48,466** | **-30,426** | **-1,326** | **-1,626** | **-90,847** | **-4,807** | **-28,897** | **-183,310** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | 292 | 1,912 | 1,595 | 136 | 78 | 4,013 | 539 | 1,705 | 8,203 |
| Hydrogen | 7 | 1,855 | 1,387 | 66 | 48 | 3,363 | 208 | 1,339 | 5,962 |
| Oxygenates (excluding Fuel Ethanol) | – | – | – | – | – | – | – | – | – |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | – | – | – | – | – | – | – |
| All Other Oxygenates[1] | – | – | – | – | – | – | – | – | – |
| Renewable Fuels (including Fuel Ethanol) | 285 | 57 | 208 | 70 | 30 | 650 | 331 | 366 | 2,207 |
| Fuel Ethanol | 221 | 47 | 165 | 45 | 19 | 497 | 286 | 90 | 1,552 |
| Renewable Diesel Fuel[2] | 64 | 10 | 43 | 25 | 11 | 153 | 45 | 276 | 655 |
| Other Renewable Fuels | – | – | – | – | – | – | – | – | – |
| Other Hydrocarbons | – | – | – | – | – | – | – | – | 34 |
| Unfinished Oils (net) | -606 | -2,123 | 9,253 | -164 | -11 | 6,349 | -28 | 4,412 | 11,443 |
| Naphthas and Lighter | -325 | -4,871 | 385 | -47 | 6 | -4,852 | -258 | 7 | -4,087 |
| Kerosene and Light Gas Oils | 104 | -1,495 | 1,053 | -16 | -5 | -359 | -220 | -437 | -686 |
| Heavy Gas Oils | -391 | 2,568 | 5,587 | -33 | -12 | 7,719 | 446 | 4,002 | 11,344 |
| Residuum | 6 | 1,675 | 2,228 | -68 | – | 3,841 | 4 | 840 | 4,872 |
| Motor Gasoline Blend.Comp. (MGBC)(net) | -8,710 | -48,255 | -41,271 | -1,298 | -1,693 | -101,227 | -5,318 | -35,014 | -202,974 |
| Reformulated - RBOB | -872 | -13,062 | -2,016 | – | -828 | -16,778 | – | -25,993 | -57,289 |
| Conventional | -7,838 | -35,193 | -39,255 | -1,298 | -865 | -84,449 | -5,318 | -9,021 | -145,685 |
| CBOB | -7,606 | -29,113 | -37,065 | -1,259 | -955 | -75,998 | -5,302 | -9,158 | -136,719 |
| GTAB | – | – | – | – | – | – | – | – | – |
| Other | -232 | -6,080 | -2,190 | -39 | 90 | -8,451 | -16 | 137 | -8,966 |
| Aviation Gasoline Blend. Comp. (net) | 21 | – | -3 | – | – | 18 | – | – | 18 |
| **Total Input to Refineries** | **13,211** | **81,633** | **76,786** | **5,323** | **2,020** | **178,973** | **14,830** | **43,378** | **322,988** |
| **Atmospheric Crude Oil Distillation** | | | | | | | | | |
| Gross Input (daily average) | 724 | 4,355 | 3,599 | 194 | 118 | 8,990 | 641 | 2,385 | 16,738 |
| Operable Capacity (daily average) | 745 | 5,042 | 3,696 | 256 | 136 | 9,876 | 687 | 2,875 | 18,808 |
| Operable Utilization Rate (percent)[3] | 97.1 | 86.4 | 97.4 | 75.7 | 87.0 | 91.0 | 93.3 | 83.0 | 89.0 |
| **Downstream Processing Fresh Feed Input (daily average)** | | | | | | | | | |
| Catalytic Reforming | 153 | 621 | 608 | 32 | 21 | 1,435 | 98 | 367 | 2,772 |
| Catalytic Cracking | 168 | 1,299 | 987 | 15 | 25 | 2,494 | 181 | 694 | 4,693 |
| Catalytic Hydrocracking | 45 | 405 | 397 | 17 | 18 | 882 | 28 | 468 | 1,722 |
| Delayed and Fluid Coking | 24 | 662 | 507 | 26 | – | 1,219 | 66 | 407 | 2,206 |
| **Crude Oil Qualities** | | | | | | | | | |
| Sulfur Content, Weighted Average (percent) | 0.53 | 1.32 | 1.23 | 1.57 | 0.84 | 1.21 | 1.42 | 1.58 | 1.27 |
| API Gravity, Weighted Average (degrees) | 40.13 | 33.74 | 33.15 | 29.09 | 37.57 | 34.01 | 32.70 | 28.74 | 33.33 |
| **Operable Capacity (daily average)** | **745** | **5,042** | **3,696** | **256** | **136** | **9,876** | **687** | **2,875** | **18,808** |
| Operating | 745 | 5,007 | 3,696 | 256 | 136 | 9,841 | 677 | 2,875 | 18,363 |
| Idle | – | 35 | – | – | – | 35 | 10 | – | 445 |
| **Alaskan Crude Oil Receipts** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **11,657** | **11,657** |

– = No Data Reported.
NA = Not Available.
1 Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
2 Renewable diesel fuel includes biodiesel and other renewable diesel.
3 Represents gross input divided by operable calendar day capacity.
Note: Totals may not equal sum of components due to independent rounding.
Note: Refer to Appendix A for Refining District descriptions.
Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

**Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels)

| Commodity | PAD District 1 - East Coast | | | PAD District 2 - Midwest | | | |
|---|---|---|---|---|---|---|---|
| | East Coast | Appalachian No. 1 | Total | Indiana, Illinois, Kentucky | Minnesota, Wisconsin, North and South Dakota | Oklahoma, Kansas, Missouri | Total |
| Hydrocarbon Gas Liquids | 929 | 1 | 930 | 2,886 | 272 | 577 | 3,735 |
| Natural Gas Liquids | 495 | 1 | 496 | 1,911 | 249 | 283 | 2,443 |
| Ethane | – | – | – | – | – | – | – |
| Propane | 428 | 24 | 452 | 1,523 | 188 | 432 | 2,143 |
| Normal Butane | 52 | -5 | 47 | 389 | 39 | -89 | 339 |
| Isobutane | 15 | -18 | -3 | -1 | 22 | -60 | -39 |
| Natural Gasoline | – | – | – | – | – | – | – |
| Refinery Olefins | 434 | – | 434 | 975 | 23 | 294 | 1,292 |
| Ethylene | 8 | – | 8 | – | – | – | – |
| Propylene | 463 | – | 463 | 882 | 23 | 294 | 1,199 |
| Normal Butylene | -63 | – | -63 | 93 | – | – | 93 |
| Isobutylene | 26 | – | 26 | – | – | – | – |
| Finished Motor Gasoline | 1,407 | 1,242 | 2,649 | 7,020 | 1,924 | 2,537 | 11,481 |
| Reformulated | 1,407 | – | 1,407 | – | – | – | – |
| Reformulated Blended with Fuel Ethanol | 1,407 | – | 1,407 | – | – | – | – |
| Reformulated Other | – | – | – | – | – | – | – |
| Conventional | – | 1,242 | 1,242 | 7,020 | 1,924 | 2,537 | 11,481 |
| Conventional Blended with Fuel Ethanol | – | 1,137 | 1,137 | 1,765 | 1,498 | 1,130 | 4,393 |
| Ed55 and Lower | – | 1,137 | 1,137 | 1,765 | 1,498 | 1,130 | 4,393 |
| Greater than Ed55 | – | – | – | – | – | – | – |
| Conventional Other | – | 105 | 105 | 5,255 | 426 | 1,407 | 7,088 |
| Finished Aviation Gasoline | – | – | – | – | – | – | – |
| Kerosene-Type Jet Fuel | 3,066 | – | 3,066 | 6,966 | 919 | 1,022 | 8,907 |
| Kerosene | 56 | 7 | 63 | 52 | – | 17 | 69 |
| Distillate Fuel Oil | 6,636 | 794 | 7,430 | 18,887 | 3,935 | 10,695 | 33,517 |
| 15 ppm sulfur and under | 6,613 | 680 | 7,293 | 18,878 | 3,934 | 10,646 | 33,458 |
| Greater than 15 ppm to 500 ppm sulfur | – | 82 | 82 | -23 | – | 54 | 31 |
| Greater than 500 ppm sulfur | 23 | 32 | 55 | 32 | 1 | -5 | 28 |
| Residual Fuel Oil | 727 | 9 | 736 | 968 | 149 | 115 | 1,232 |
| Less than 0.31 percent sulfur | -45 | 8 | -37 | 66 | – | – | 66 |
| 0.31 to 1.00 percent sulfur | 314 | 1 | 315 | 147 | 11 | – | 158 |
| Greater than 1.00 percent sulfur | 458 | – | 458 | 755 | 138 | 115 | 1,008 |
| Petrochemical Feedstocks | -6 | – | -6 | 879 | – | 26 | 905 |
| Naphtha for Petro. Feed. Use | -6 | – | -6 | 646 | – | – | 646 |
| Other Oils for Petro. Feed. Use | – | – | – | 233 | – | 26 | 259 |
| Special Naphthas | – | 23 | 23 | -91 | – | 63 | -28 |
| Lubricants | 168 | 169 | 337 | – | – | 205 | 205 |
| Waxes | – | 12 | 12 | – | – | 34 | 34 |
| Petroleum Coke | 764 | 20 | 784 | 4,177 | 425 | 811 | 5,413 |
| Marketable | 287 | – | 287 | 3,123 | 356 | 580 | 4,059 |
| Catalyst | 477 | 20 | 497 | 1,054 | 69 | 231 | 1,354 |
| Asphalt and Road Oil | 376 | 696 | 1,072 | 3,630 | 1,152 | 344 | 5,126 |
| Still Gas | 961 | 46 | 1,007 | 2,799 | 436 | 1,096 | 4,331 |
| Miscellaneous Products | 53 | 25 | 78 | 329 | 55 | 48 | 432 |
| **Total** | **15,137** | **3,044** | **18,181** | **48,502** | **9,267** | **17,590** | **75,359** |
| Processing Gain(-) or Loss(+)[1] | -1,296 | 37 | -1,259 | -4,605 | -623 | -1,246 | -6,474 |

See footnotes at end of table.

**Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels) — Continued

| Commodity | PAD District 3 - Gulf Coast | | | | | | PAD District 4 - Rocky Mountain | PAD District 5 - West Coast | U.S. Total |
|---|---|---|---|---|---|---|---|---|---|
| | Texas Inland | Texas Gulf Coast | Louisiana Gulf Coast | North Louisiana, Arkansas | New Mexico | Total | | | |
| Hydrocarbon Gas Liquids | 828 | 5,706 | 4,938 | 16 | 46 | 11,534 | 317 | 1,876 | 18,392 |
| Natural Gas Liquids | 452 | 2,373 | 2,105 | -6 | 46 | 4,970 | 267 | 1,726 | 9,902 |
| Ethane | 1 | 129 | 30 | – | – | 160 | – | – | 160 |
| Propane | 264 | 2,016 | 1,905 | 6 | 38 | 4,229 | 291 | 1,039 | 8,154 |
| Normal Butane | 141 | 832 | 35 | -12 | 9 | 1,005 | 22 | 590 | 2,003 |
| Isobutane | 46 | -604 | 135 | – | -1 | -424 | -46 | 97 | -415 |
| Natural Gasoline | – | – | – | – | – | – | – | – | – |
| Refinery Olefins | 376 | 3,333 | 2,833 | 22 | – | 6,564 | 50 | 150 | 8,490 |
| Ethylene | – | – | – | – | – | – | – | – | 8 |
| Propylene | 378 | 3,296 | 2,912 | 22 | – | 6,608 | -2 | 181 | 8,449 |
| Normal Butylene | -2 | 69 | -79 | – | – | -12 | 52 | -31 | 39 |
| Isobutylene | – | -32 | – | – | – | -32 | – | – | -6 |
| Finished Motor Gasoline | 2,477 | 9,819 | 11,439 | 506 | 248 | 24,489 | 4,791 | 2,520 | 45,930 |
| Reformulated | – | – | – | – | – | – | – | 567 | 1,974 |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – | – | 567 | 1,974 |
| Reformulated Other | – | – | – | – | – | – | – | – | – |
| Conventional | 2,477 | 9,819 | 11,439 | 506 | 248 | 24,489 | 4,791 | 1,953 | 43,956 |
| Conventional Blended with Fuel Ethanol | 2,200 | 471 | 1,842 | 463 | 195 | 5,171 | 2,896 | 326 | 13,923 |
| Ed55 and Lower | 2,198 | 471 | 1,842 | 463 | 195 | 5,169 | 2,896 | 326 | 13,921 |
| Greater than Ed55 | 2 | – | – | – | – | 2 | – | – | 2 |
| Conventional Other | 277 | 9,348 | 9,597 | 43 | 53 | 19,318 | 1,895 | 1,627 | 30,033 |
| Finished Aviation Gasoline | 83 | 78 | 104 | – | – | 265 | 9 | – | 274 |
| Kerosene-Type Jet Fuel | 1,551 | 13,455 | 13,007 | 186 | – | 28,199 | 1,051 | 12,825 | 54,048 |
| Kerosene | 2 | 30 | 53 | 11 | – | 96 | 1 | 0 | 229 |
| Distillate Fuel Oil | 7,196 | 38,428 | 36,201 | 2,270 | 1,572 | 85,667 | 6,365 | 17,162 | 150,141 |
| 15 ppm sulfur and under | 7,222 | 36,618 | 29,700 | 2,180 | 1,572 | 77,292 | 6,362 | 16,760 | 141,165 |
| Greater than 15 ppm to 500 ppm sulfur | -26 | 216 | 3,029 | 111 | – | 3,330 | 10 | 25 | 3,478 |
| Greater than 500 ppm sulfur | – | 1,594 | 3,472 | -21 | – | 5,045 | -7 | 377 | 5,498 |
| Residual Fuel Oil | 422 | 1,506 | 2,752 | -13 | 57 | 4,724 | 396 | 4,438 | 11,526 |
| Less than 0.31 percent sulfur | 260 | 43 | 867 | – | – | 1,170 | 181 | – | 1,380 |
| 0.31 to 1.00 percent sulfur | – | 64 | 505 | -13 | – | 556 | 46 | 285 | 1,360 |
| Greater than 1.00 percent sulfur | 162 | 1,399 | 1,380 | – | 57 | 2,998 | 169 | 4,153 | 8,786 |
| Petrochemical Feedstocks | 113 | 5,406 | 2,955 | – | – | 8,474 | – | 1 | 9,374 |
| Naphtha for Petro. Feed. Use | 99 | 3,680 | 1,530 | – | – | 5,309 | – | 1 | 5,950 |
| Other Oils for Petro. Feed. Use | 14 | 1,726 | 1,425 | – | – | 3,165 | – | – | 3,424 |
| Special Naphthas | 67 | 657 | – | 198 | – | 922 | – | 18 | 935 |
| Lubricants | 31 | 1,827 | 1,611 | 871 | – | 4,340 | – | 645 | 5,527 |
| Waxes | – | 38 | 28 | 12 | – | 78 | – | – | 124 |
| Petroleum Coke | 366 | 7,523 | 5,405 | 148 | 22 | 13,464 | 820 | 4,213 | 24,694 |
| Marketable | 156 | 5,640 | 4,143 | 135 | – | 10,074 | 581 | 3,217 | 18,218 |
| Catalyst | 210 | 1,883 | 1,262 | 13 | 22 | 3,390 | 239 | 996 | 6,476 |
| Asphalt and Road Oil | 232 | 591 | 688 | 810 | 63 | 2,384 | 1,148 | 847 | 10,577 |
| Still Gas | 650 | 4,965 | 4,186 | 245 | 80 | 10,126 | 686 | 3,416 | 19,566 |
| Miscellaneous Products | 110 | 835 | 508 | 20 | 30 | 1,503 | 119 | 404 | 2,536 |
| **Total** | **14,128** | **90,864** | **83,875** | **5,280** | **2,118** | **196,265** | **15,703** | **48,365** | **353,873** |
| Processing Gain(-) or Loss(+)[1] | -917 | -9,231 | -7,089 | 43 | -98 | -17,292 | -873 | -4,987 | -30,885 |

– = No Data Reported.
[1] Represents the arithmetic difference between input and production.
Note: Refer to Appendix A for Refining District descriptions.
Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

**Table 32. Blender Net Inputs of Petroleum Products by PAD District, September 2019**
(Thousand Barrels)

| Commodity | PAD District 1 - East Coast | | | PAD District 2 - Midwest | | | |
|---|---|---|---|---|---|---|---|
| | East Coast | Appalachian No. 1 | Total | Indiana, Illinois, Kentucky | Minnesota, Wisconsin, North and South Dakota | Oklahoma, Kansas, Missouri | Total |
| **Hydrocarbon Gas Liquids** | **1,325** | **–** | **1,325** | **120** | **107** | **484** | **711** |
| Natural Gas Liquids | 1,325 | – | 1,325 | 120 | 107 | 484 | 711 |
| Normal Butane | 1,257 | – | 1,257 | 117 | 94 | 417 | 628 |
| Isobutane | – | – | – | – | – | – | – |
| Natural Gasoline | 68 | – | 68 | 3 | 13 | 67 | 83 |
| **Other Liquids** | **86,510** | **6,327** | **92,837** | **43,974** | **8,534** | **13,222** | **65,730** |
| Oxygenates/Renewables | 9,227 | 675 | 9,902 | 4,770 | 1,122 | 1,508 | 7,400 |
| Oxygenates (excluding Fuel Ethanol) | – | – | – | – | – | – | – |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | – | – | – | – | – |
| All Other Oxygenates[1] | – | – | – | – | – | – | – |
| Renewable Fuels (including Fuel Ethanol) | 9,227 | 675 | 9,902 | 4,770 | 1,122 | 1,508 | 7,400 |
| Fuel Ethanol | 9,049 | 636 | 9,685 | 4,596 | 943 | 1,453 | 6,992 |
| Renewable Diesel Fuel[2] | 178 | 39 | 217 | 174 | 179 | 55 | 408 |
| Other Renewable Fuels | – | – | – | – | – | – | – |
| Unfinished Oils (net) | – | – | – | 93 | – | – | 93 |
| Naphthas and Lighter | – | – | – | – | – | – | – |
| Kerosene and Light Gas Oils | – | – | – | – | – | – | – |
| Heavy Gas Oils | – | – | – | – | – | – | – |
| Residuum | – | – | – | 93 | – | – | 93 |
| Motor Gasoline Blend.Comp. (MGBC)(net) | 77,283 | 5,652 | 82,935 | 39,111 | 7,412 | 11,714 | 58,237 |
| Reformulated - RBOB | 23,382 | – | 23,382 | 7,032 | 1,327 | 961 | 9,320 |
| Conventional | 53,901 | 5,652 | 59,553 | 32,079 | 6,085 | 10,753 | 48,917 |
| CBOB | 44,994 | 5,652 | 50,646 | 32,027 | 6,088 | 10,749 | 48,864 |
| GTAB | 4,028 | – | 4,028 | – | – | – | – |
| Other | 4,879 | – | 4,879 | 52 | -3 | 4 | 53 |
| Aviation Gasoline Blend. Comp. (net) | – | – | – | – | – | – | – |
| **Total Input** | **87,835** | **6,327** | **94,162** | **44,094** | **8,641** | **13,706** | **66,441** |

| Commodity | PAD District 3 - Gulf Coast | | | | | | PAD District 4 - Rocky Mountain | PAD District 5 - West Coast | U.S. Total |
|---|---|---|---|---|---|---|---|---|---|
| | Texas Inland | Texas Gulf Coast | Louisiana Gulf Coast | North Louisiana, Arkansas | New Mexico | Total | | | |
| **Hydrocarbon Gas Liquids** | **25** | **1,491** | **80** | **60** | **–** | **1,656** | **80** | **52** | **3,824** |
| Natural Gas Liquids | 25 | 1,491 | 80 | 60 | – | 1,656 | 80 | 52 | 3,824 |
| Normal Butane | 14 | 606 | 80 | 60 | – | 760 | 41 | 52 | 2,738 |
| Isobutane | 2 | – | – | – | – | 2 | 1 | – | 3 |
| Natural Gasoline | 9 | 885 | – | – | – | 894 | 38 | – | 1,083 |
| **Other Liquids** | **17,840** | **9,190** | **3,007** | **8,682** | **1,390** | **40,109** | **4,745** | **45,392** | **248,813** |
| Oxygenates/Renewables | 1,871 | 834 | 307 | 1,009 | 153 | 4,174 | 651 | 5,008 | 27,135 |
| Oxygenates (excluding Fuel Ethanol) | – | – | – | – | – | – | – | – | – |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | – | – | – | – | – | – | – |
| All Other Oxygenates[1] | – | – | – | – | – | – | – | – | – |
| Renewable Fuels (including Fuel Ethanol) | 1,871 | 834 | 307 | 1,009 | 153 | 4,174 | 651 | 5,008 | 27,135 |
| Fuel Ethanol | 1,833 | 789 | 307 | 954 | 139 | 4,022 | 639 | 4,714 | 26,052 |
| Renewable Diesel Fuel[2] | 38 | 45 | – | 55 | 14 | 152 | 12 | 285 | 1,074 |
| Other Renewable Fuels | – | – | – | – | – | – | – | 9 | 9 |
| Unfinished Oils (net) | – | -228 | 14 | – | – | -214 | – | – | -121 |
| Naphthas and Lighter | – | – | – | – | – | – | – | – | – |
| Kerosene and Light Gas Oils | – | -228 | 7 | – | – | -221 | – | – | -221 |
| Heavy Gas Oils | – | – | 7 | – | – | 7 | – | – | 7 |
| Residuum | – | – | – | – | – | – | – | – | 93 |
| Motor Gasoline Blend.Comp. (MGBC)(net) | 15,969 | 8,584 | 2,686 | 7,673 | 1,237 | 36,149 | 4,094 | 40,384 | 221,799 |
| Reformulated - RBOB | 6,468 | 4,450 | – | – | – | 10,918 | – | 29,822 | 73,442 |
| Conventional | 9,501 | 4,134 | 2,686 | 7,673 | 1,237 | 25,231 | 4,094 | 10,562 | 148,357 |
| CBOB | 9,501 | -1,852 | 1,075 | 7,673 | 1,231 | 17,628 | 4,093 | 10,518 | 131,749 |
| GTAB | – | – | – | – | – | – | – | – | 4,028 |
| Other | – | 5,986 | 1,611 | – | 6 | 7,603 | 1 | 44 | 12,580 |
| Aviation Gasoline Blend. Comp. (net) | – | – | – | – | – | – | – | – | – |
| **Total Input** | **17,865** | **10,681** | **3,087** | **8,742** | **1,390** | **41,765** | **4,825** | **45,444** | **252,637** |

– = No Data Reported.
1 Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
2 Renewable diesel fuel includes biodiesel and other renewable diesel.
Note: Refer to Appendix A for Refining District descriptions.
Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 33. Blender Net Production of Petroleum Products by PAD District, September 2019**
(Thousand Barrels)

| Commodity | PAD District 1 - East Coast | | | PAD District 2 - Midwest | | | |
|---|---|---|---|---|---|---|---|
| | East Coast | Appalachian No. 1 | Total | Indiana, Illinois, Kentucky | Minnesota, Wisconsin, North and South Dakota | Oklahoma, Kansas, Missouri | Total |
| Finished Motor Gasoline | 87,651 | 6,288 | 93,939 | 43,889 | 8,466 | 13,649 | 66,004 |
| Reformulated | 36,903 | 70 | 36,973 | 8,137 | 1,481 | 1,069 | 10,687 |
| Reformulated Blended with Fuel Ethanol | 36,903 | 70 | 36,973 | 8,137 | 1,481 | 1,069 | 10,687 |
| Reformulated Other | – | – | – | – | – | – | – |
| Conventional | 50,748 | 6,218 | 56,966 | 35,752 | 6,985 | 12,580 | 55,317 |
| Conventional Blended with Fuel Ethanol | 52,763 | 6,255 | 59,018 | 37,447 | 7,678 | 12,864 | 57,989 |
| Ed55 and Lower | 52,713 | 6,255 | 58,968 | 37,435 | 7,650 | 12,788 | 57,873 |
| Greater than Ed55 | 50 | – | 50 | 12 | 28 | 76 | 116 |
| Conventional Other | -2,015 | -37 | -2,052 | -1,695 | -693 | -284 | -2,672 |
| Finished Aviation Gasoline | – | – | – | – | – | – | – |
| Kerosene-Type Jet Fuel | -131 | – | -131 | -27 | -1 | 0 | -28 |
| Kerosene | – | – | – | – | – | – | – |
| Distillate Fuel Oil | 310 | 40 | 350 | 146 | 179 | 52 | 377 |
| 15 ppm sulfur and under | 422 | 40 | 462 | 146 | 179 | 52 | 377 |
| Greater than 15 ppm to 500 ppm sulfur | 32 | – | 32 | – | – | 98 | 98 |
| Greater than 500 ppm sulfur | -144 | – | -144 | – | – | -98 | -98 |
| Residual Fuel Oil | 1 | – | 1 | – | – | – | – |
| Less than 0.31 percent sulfur | -7 | – | -7 | – | – | – | – |
| 0.31 to 1.00 percent sulfur | – | – | – | – | – | – | – |
| Greater than 1.00 percent sulfur | 8 | – | 8 | – | – | – | – |
| Special Naphthas | – | – | – | – | – | – | – |
| Lubricants | – | – | – | – | – | – | – |
| Asphalt and Road Oil | – | – | – | 93 | 1 | 2 | 96 |
| Miscellaneous Products | – | – | – | – | – | – | – |
| **Total Production** | **87,831** | **6,328** | **94,159** | **44,101** | **8,645** | **13,703** | **66,449** |
| Processing Gain(-) or Loss(+)[1] | 4 | -1 | 3 | -7 | -4 | 3 | -8 |

| Commodity | PAD District 3 - Gulf Coast | | | | | | PAD District 4 - Rocky Mountain | PAD District 5 - West Coast | U.S. Total |
|---|---|---|---|---|---|---|---|---|---|
| | Texas Inland | Texas Gulf Coast | Louisiana Gulf Coast | North Louisiana, Arkansas | New Mexico | Total | | | |
| Finished Motor Gasoline | 17,836 | 10,863 | 3,075 | 8,689 | 1,377 | 41,840 | 4,811 | 45,147 | 251,741 |
| Reformulated | 7,163 | 6,835 | – | – | – | 13,998 | – | 33,205 | 94,863 |
| Reformulated Blended with Fuel Ethanol | 7,163 | 6,835 | – | – | – | 13,998 | – | 33,205 | 94,863 |
| Reformulated Other | – | – | – | – | – | – | – | – | – |
| Conventional | 10,673 | 4,028 | 3,075 | 8,689 | 1,377 | 27,842 | 4,811 | 11,942 | 156,878 |
| Conventional Blended with Fuel Ethanol | 10,853 | 1,085 | 3,062 | 9,450 | 1,417 | 25,867 | 6,295 | 13,546 | 162,715 |
| Ed55 and Lower | 10,832 | 1,085 | 3,062 | 9,436 | 1,416 | 25,831 | 6,282 | 13,531 | 162,485 |
| Greater than Ed55 | 21 | – | – | 14 | 1 | 36 | 13 | 15 | 230 |
| Conventional Other | -180 | 2,943 | 13 | -761 | -40 | 1,975 | -1,484 | -1,604 | -5,837 |
| Finished Aviation Gasoline | – | – | – | – | – | – | – | – | – |
| Kerosene-Type Jet Fuel | 0 | – | 9 | – | 0 | 9 | 67 | -4 | -87 |
| Kerosene | – | – | 1 | – | – | 1 | – | 10 | 11 |
| Distillate Fuel Oil | 27 | -135 | -15 | 57 | 14 | -52 | -55 | 287 | 907 |
| 15 ppm sulfur and under | 27 | 29 | -11 | 57 | 14 | 116 | -55 | 279 | 1,179 |
| Greater than 15 ppm to 500 ppm sulfur | – | – | – | – | – | – | – | – | 130 |
| Greater than 500 ppm sulfur | – | -164 | -4 | – | – | -168 | – | 8 | -402 |
| Residual Fuel Oil | – | -48 | 2 | – | – | -46 | – | 2 | -43 |
| Less than 0.31 percent sulfur | – | – | – | – | – | – | – | 2 | -5 |
| 0.31 to 1.00 percent sulfur | – | – | – | – | – | – | – | – | – |
| Greater than 1.00 percent sulfur | – | -48 | 2 | – | – | -46 | – | – | -38 |
| Special Naphthas | – | – | – | – | – | – | – | – | – |
| Lubricants | – | – | – | – | – | – | – | – | – |
| Asphalt and Road Oil | – | – | 16 | – | – | 16 | – | – | 112 |
| Miscellaneous Products | – | – | – | – | – | – | – | – | – |
| **Total Production** | **17,863** | **10,680** | **3,088** | **8,746** | **1,391** | **41,768** | **4,823** | **45,442** | **252,641** |
| Processing Gain(-) or Loss(+)[1] | 2 | 1 | -1 | -4 | -1 | -3 | 2 | 2 | -4 |

– = No Data Reported.
[1] Represents the arithmetic difference between input and production.
Note: Refer to Appendix A for Refining District descriptions.
Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

**Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels)

| Commodity | PAD District 1 - East Coast | | | PAD District 2 - Midwest | | | |
|---|---|---|---|---|---|---|---|
| | East Coast | Appalachian No. 1 | Total | Indiana, Illinois, Kentucky | Minnesota, Wisconsin, North and South Dakota | Oklahoma, Kansas, Missouri | Total |
| **Crude Oil** | **6,500** | **733** | **7,233** | **9,322** | **2,028** | **2,192** | **13,542** |
| **Petroleum Products** | **12,637** | **2,040** | **14,677** | **30,386** | **8,070** | **12,131** | **50,587** |
| Hydrocarbon Gas Liquids | 839 | 32 | 871 | 3,085 | 538 | 2,056 | 5,679 |
| Natural Gas Liquids | 498 | 32 | 530 | 2,500 | 535 | 1,905 | 4,940 |
| Ethane | – | – | – | – | – | – | – |
| Propane | 100 | 1 | 101 | 543 | 21 | 1,150 | 1,714 |
| Normal Butane | 301 | 23 | 324 | 1,583 | 455 | 277 | 2,315 |
| Isobutane | 97 | 8 | 105 | 244 | 59 | 334 | 637 |
| Natural Gasoline | – | – | – | 130 | – | 144 | 274 |
| Refinery Olefins | 341 | 0 | 341 | 585 | 3 | 151 | 739 |
| Ethylene | – | – | – | – | – | – | – |
| Propylene | 155 | 0 | 155 | 329 | 3 | 151 | 483 |
| Normal Butylene | 160 | 0 | 160 | 256 | 0 | 0 | 256 |
| Isobutylene | 26 | 0 | 26 | 0 | 0 | 0 | 0 |
| Oxygenates/Renewable Fuels/Other Hydrocarbons | 146 | 85 | 231 | 59 | 61 | 29 | 149 |
| Oxygenates (excluding Fuel Ethanol) | – | – | – | – | – | – | – |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | – | – | – | – | – |
| All Other Oxygenates[1] | – | – | – | – | – | – | – |
| Renewable Fuels (including Fuel Ethanol) | 146 | 85 | 231 | 44 | 61 | 29 | 134 |
| Fuel Ethanol | 146 | 77 | 223 | 21 | 51 | 25 | 97 |
| Renewable Diesel Fuel[2] | – | 8 | 8 | 23 | 10 | 4 | 37 |
| Other Renewable Fuels | – | – | – | – | – | – | – |
| Other Hydrocarbons | – | – | – | 15 | – | – | 15 |
| Unfinished Oils | 3,758 | 358 | 4,116 | 8,396 | 1,459 | 3,572 | 13,427 |
| Naphthas and Lighter | 911 | 203 | 1,114 | 2,172 | 188 | 1,080 | 3,440 |
| Kerosene and Light Gas Oils | 552 | – | 552 | 1,842 | 213 | 423 | 2,478 |
| Heavy Gas Oils | 1,651 | 150 | 1,801 | 3,226 | 1,054 | 1,036 | 5,316 |
| Residuum | 644 | 5 | 649 | 1,156 | 4 | 1,033 | 2,193 |
| Motor Gasoline Blending Components (MGBC) | 4,175 | 241 | 4,416 | 8,037 | 1,869 | 3,039 | 12,945 |
| Reformulated - RBOB | 1,097 | – | 1,097 | 1,030 | – | – | 1,030 |
| Conventional | 3,078 | 241 | 3,319 | 7,007 | 1,869 | 3,039 | 11,915 |
| CBOB | 386 | 205 | 591 | 2,598 | 912 | 1,892 | 5,402 |
| GTAB | – | – | – | – | – | – | – |
| Other | 2,692 | 36 | 2,728 | 4,409 | 957 | 1,147 | 6,513 |
| Aviation Gasoline Blending Components | – | – | – | – | – | – | – |
| Finished Motor Gasoline | – | 70 | 70 | 795 | 211 | 287 | 1,293 |
| Reformulated | – | – | – | – | – | – | – |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – | – |
| Reformulated Other | – | – | – | – | – | – | – |
| Conventional | – | 70 | 70 | 795 | 211 | 287 | 1,293 |
| Conventional Blended with Fuel Ethanol | – | – | – | – | – | – | – |
| Ed55 and Lower | – | – | – | – | – | – | – |
| Greater than Ed55 | – | – | – | – | – | – | – |
| Conventional Other | – | 70 | 70 | 795 | 211 | 287 | 1,293 |
| Finished Aviation Gasoline | – | – | – | – | 38 | – | 38 |
| Kerosene-Type Jet Fuel | 518 | – | 518 | 1,434 | 351 | 309 | 2,094 |
| Kerosene | 73 | 4 | 77 | 80 | – | 21 | 101 |
| Distillate Fuel Oil | 1,747 | 284 | 2,031 | 3,742 | 1,222 | 1,991 | 6,955 |
| 15 ppm sulfur and under | 1,391 | 95 | 1,486 | 3,544 | 1,078 | 1,693 | 6,315 |
| Greater than 15 ppm to 500 ppm sulfur | 103 | 167 | 270 | – | 9 | 229 | 238 |
| Greater than 500 ppm sulfur | 253 | 22 | 275 | 198 | 135 | 69 | 402 |
| Residual Fuel Oil | 825 | 20 | 845 | 757 | 172 | 70 | 999 |
| Less than 0.31 percent sulfur | 255 | 18 | 273 | 74 | – | – | 74 |
| 0.31 to 1.00 percent sulfur | 89 | 2 | 91 | 117 | 22 | – | 139 |
| Greater than 1.00 percent sulfur | 481 | – | 481 | 566 | 150 | 70 | 786 |
| Petrochemical Feedstocks | 43 | – | 43 | 556 | – | – | 556 |
| Naphtha for Petro. Feed. Use | 43 | – | 43 | 456 | – | – | 456 |
| Other Oils for Petro. Feed. Use | – | – | – | 100 | – | – | 100 |
| Special Naphthas | – | 19 | 19 | 65 | – | 12 | 77 |
| Lubricants | 385 | 201 | 586 | – | – | 313 | 313 |
| Waxes | – | 342 | 342 | – | – | 68 | 68 |
| Petroleum Coke | – | – | – | 992 | 714 | 85 | 1,791 |
| Marketable | – | – | – | 992 | 714 | 85 | 1,791 |
| Catalyst | – | – | – | – | – | – | – |
| Asphalt and Road Oil | 114 | 365 | 479 | 2,304 | 1,422 | 272 | 3,998 |
| Miscellaneous Products | 14 | 19 | 33 | 84 | 13 | 7 | 104 |
| **Total Stocks, All Oils** | **19,137** | **2,773** | **21,910** | **39,708** | **10,098** | **14,323** | **64,129** |

See footnotes at end of table.

**Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, September 2019**
(Thousand Barrels) — Continued

| Commodity | PAD District 3 - Gulf Coast | | | | | | PAD District 4 - Rocky Mountain | PAD District 5 - West Coast | U.S. Total |
|---|---|---|---|---|---|---|---|---|---|
| | Texas Inland | Texas Gulf Coast | Louisiana Gulf Coast | North Louisiana, Arkansas | New Mexico | Total | | | |
| **Crude Oil** | **1,610** | **23,635** | **17,348** | **1,252** | **344** | **44,189** | **2,576** | **21,484** | **89,024** |
| **Petroleum Products** | **11,733** | **60,921** | **51,119** | **3,996** | **1,475** | **129,244** | **11,440** | **49,113** | **255,061** |
| Hydrocarbon Gas Liquids | 3,880 | 2,395 | 5,564 | 13 | 127 | 11,979 | 467 | 1,883 | 20,879 |
| Natural Gas Liquids | 2,651 | 1,885 | 4,456 | 12 | 127 | 9,131 | 383 | 1,756 | 16,740 |
| Ethane | 240 | – | – | – | – | 240 | – | – | 240 |
| Propane | 343 | 539 | 340 | 1 | 3 | 1,226 | 45 | 94 | 3,180 |
| Normal Butane | 1,738 | 1,129 | 2,758 | 7 | 109 | 5,741 | 232 | 1,222 | 9,834 |
| Isobutane | 165 | 187 | 987 | 4 | 8 | 1,351 | 79 | 440 | 2,612 |
| Natural Gasoline | 165 | 30 | 371 | – | 7 | 573 | 27 | – | 874 |
| Refinery Olefins | 1,229 | 510 | 1,108 | 1 | 0 | 2,848 | 84 | 127 | 4,139 |
| Ethylene | 0 | – | – | – | – | 0 | – | – | 0 |
| Propylene | 1,216 | 50 | 741 | 1 | 0 | 2,008 | 0 | 13 | 2,659 |
| Normal Butylene | 13 | 460 | 367 | 0 | 0 | 840 | 84 | 114 | 1,454 |
| Isobutylene | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Oxygenates/Renewable Fuels/Other Hydrocarbons | 38 | 57 | 234 | 59 | 17 | 405 | 188 | 411 | 1,384 |
| Oxygenates (excluding Fuel Ethanol) | – | – | – | – | – | – | – | – | – |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | – | – | – | – | – | – | – |
| All Other Oxygenates[1] | – | – | – | – | – | – | – | – | – |
| Renewable Fuels (including Fuel Ethanol) | 38 | 57 | 234 | 59 | 17 | 405 | 188 | 411 | 1,369 |
| Fuel Ethanol | 31 | 38 | 104 | 26 | 14 | 213 | 121 | 29 | 683 |
| Renewable Diesel Fuel[2] | 7 | 19 | 130 | 33 | 3 | 192 | 67 | 382 | 686 |
| Other Renewable Fuels | – | – | – | – | – | – | – | – | – |
| Other Hydrocarbons | – | – | – | – | – | – | – | – | 15 |
| Unfinished Oils | 2,414 | 22,081 | 16,622 | 1,077 | 667 | 42,861 | 3,060 | 18,309 | 81,773 |
| Naphthas and Lighter | 1,067 | 5,960 | 2,348 | 298 | 156 | 9,829 | 822 | 3,043 | 18,248 |
| Kerosene and Light Gas Oils | 328 | 3,658 | 2,160 | 278 | 184 | 6,608 | 447 | 3,412 | 13,497 |
| Heavy Gas Oils | 486 | 10,043 | 9,177 | 474 | 327 | 20,507 | 1,257 | 9,197 | 38,078 |
| Residuum | 533 | 2,420 | 2,937 | 27 | – | 5,917 | 534 | 2,657 | 11,950 |
| Motor Gasoline Blending Components (MGBC) | 2,903 | 13,246 | 11,826 | 319 | 346 | 28,640 | 3,276 | 12,890 | 62,167 |
| Reformulated - RBOB | 215 | 1,142 | 220 | – | – | 1,577 | – | 4,431 | 8,135 |
| Conventional | 2,688 | 12,104 | 11,606 | 319 | 346 | 27,063 | 3,276 | 8,459 | 54,032 |
| CBOB | 1,303 | 3,632 | 5,823 | 220 | 85 | 11,063 | 1,633 | 2,146 | 20,835 |
| GTAB | – | – | – | – | – | – | – | – | – |
| Other | 1,385 | 8,472 | 5,783 | 99 | 261 | 16,000 | 1,643 | 6,313 | 33,197 |
| Aviation Gasoline Blending Components | 20 | – | 24 | – | – | 44 | – | – | 44 |
| Finished Motor Gasoline | 193 | 995 | 1,613 | 11 | – | 2,812 | 867 | 710 | 5,752 |
| Reformulated | – | – | – | – | – | – | – | 13 | 13 |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – | – | 13 | 13 |
| Reformulated Other | – | – | – | – | – | – | – | – | – |
| Conventional | 193 | 995 | 1,613 | 11 | – | 2,812 | 867 | 697 | 5,739 |
| Conventional Blended with Fuel Ethanol | – | – | – | – | – | – | 63 | – | 63 |
| Ed55 and Lower | – | – | – | – | – | – | 63 | – | 63 |
| Greater than Ed55 | – | – | – | – | – | – | – | – | – |
| Conventional Other | 193 | 995 | 1,613 | 11 | – | 2,812 | 804 | 697 | 5,676 |
| Finished Aviation Gasoline | 35 | 153 | 134 | – | – | 322 | 10 | 59 | 429 |
| Kerosene-Type Jet Fuel | 351 | 3,781 | 2,618 | 93 | – | 6,843 | 282 | 3,925 | 13,662 |
| Kerosene | 15 | 5 | 95 | 8 | – | 123 | 2 | 1 | 304 |
| Distillate Fuel Oil | 1,180 | 6,861 | 6,248 | 347 | 137 | 14,773 | 1,916 | 5,325 | 31,000 |
| 15 ppm sulfur and under | 1,057 | 5,771 | 4,604 | 183 | 137 | 11,752 | 1,749 | 4,835 | 26,137 |
| Greater than 15 ppm to 500 ppm sulfur | 123 | 150 | 531 | 82 | – | 886 | 126 | 177 | 1,697 |
| Greater than 500 ppm sulfur | – | 940 | 1,113 | 82 | – | 2,135 | 41 | 313 | 3,166 |
| Residual Fuel Oil | 102 | 2,075 | 1,233 | 17 | 32 | 3,459 | 229 | 2,575 | 8,107 |
| Less than 0.31 percent sulfur | 8 | – | 28 | – | – | 36 | 32 | – | 415 |
| 0.31 to 1.00 percent sulfur | – | 99 | 32 | 17 | – | 148 | 6 | 246 | 630 |
| Greater than 1.00 percent sulfur | 94 | 1,976 | 1,173 | – | 32 | 3,275 | 191 | 2,329 | 7,062 |
| Petrochemical Feedstocks | 108 | 1,641 | 729 | 23 | – | 2,501 | – | 6 | 3,106 |
| Naphtha for Petro. Feed. Use | 29 | 992 | 633 | 23 | – | 1,677 | – | 6 | 2,182 |
| Other Oils for Petro. Feed. Use | 79 | 649 | 96 | – | – | 824 | – | – | 924 |
| Special Naphthas | 110 | 769 | – | 90 | – | 969 | – | 43 | 1,108 |
| Lubricants | 62 | 2,679 | 2,246 | 898 | – | 5,885 | – | 504 | 7,288 |
| Waxes | – | 57 | 113 | 85 | – | 255 | – | – | 665 |
| Petroleum Coke | 34 | 3,668 | 1,200 | – | – | 4,902 | 161 | 1,703 | 8,557 |
| Marketable | 34 | 3,668 | 1,200 | – | – | 4,902 | 161 | 1,703 | 8,557 |
| Catalyst | – | – | – | – | – | – | – | – | – |
| Asphalt and Road Oil | 272 | 221 | 487 | 956 | 116 | 2,052 | 960 | 687 | 8,176 |
| Miscellaneous Products | 16 | 237 | 133 | – | 33 | 419 | 22 | 82 | 660 |
| **Total Stocks, All Oils** | **13,343** | **84,556** | **68,467** | **5,248** | **1,819** | **173,433** | **14,016** | **70,597** | **344,085** |

– = No Data Reported.
[1] Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
[2] Renewable diesel fuel includes biodiesel and other renewable diesel.
Note: Refer to Appendix A for Refining District descriptions.
Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

## Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, September 2019

| Commodity | PAD District 1 - East Coast | | | PAD District 2 - Midwest | | | |
|---|---|---|---|---|---|---|---|
| | East Coast | Appalachian No. 1 | Total | Indiana, Illinois, Kentucky | Minnesota, Wisconsin, North and South Dakota | Oklahoma, Kansas, Missouri | Total |
| Hydrocarbon Gas Liquids | 3.9 | 0.0 | 3.5 | 3.7 | 2.4 | 2.1 | 3.2 |
| Finished Motor Gasoline[1] | 47.7 | 39.2 | 46.7 | 52.4 | 40.7 | 50.3 | 50.8 |
| Finished Aviation Gasoline[2] | – | – | – | – | – | – | – |
| Kerosene-Type Jet Fuel | 12.9 | – | 11.5 | 9.0 | 8.2 | 3.7 | 7.7 |
| Kerosene | 0.2 | 0.2 | 0.2 | 0.1 | – | 0.1 | 0.1 |
| Distillate Fuel Oil[3] | 27.9 | 25.8 | 27.7 | 24.3 | 34.5 | 38.5 | 28.7 |
| Residual Fuel Oil | 3.1 | 0.3 | 2.8 | 1.3 | 1.3 | 0.4 | 1.1 |
| Naphtha for Petro. Feed. Use | 0.0 | – | 0.0 | 0.8 | – | – | 0.6 |
| Other Oils for Petro. Feed. Use | – | – | – | 0.3 | – | 0.1 | 0.2 |
| Special Naphthas | – | 0.8 | 0.1 | -0.1 | – | 0.2 | 0.0 |
| Lubricants | 0.7 | 5.7 | 1.3 | – | – | 0.7 | 0.2 |
| Waxes | – | 0.4 | 0.0 | – | – | 0.1 | 0.0 |
| Petroleum Coke | 3.2 | 0.7 | 2.9 | 5.4 | 3.8 | 2.9 | 4.7 |
| Asphalt and Road Oil | 1.6 | 23.4 | 4.0 | 4.7 | 10.2 | 1.2 | 4.4 |
| Still Gas | 4.0 | 1.5 | 3.8 | 3.6 | 3.9 | 4.0 | 3.7 |
| Miscellaneous Products | 0.2 | 0.8 | 0.3 | 0.4 | 0.5 | 0.2 | 0.4 |
| Processing Gain(-) or Loss(+)[4] | -5.4 | 1.2 | -4.7 | -6.0 | -5.6 | -4.5 | -5.6 |

| Commodity | PAD District 3 - Gulf Coast | | | | | | PAD District 4 - Rocky Mountain | PAD District 5 - West Coast | U.S. Total |
|---|---|---|---|---|---|---|---|---|---|
| | Texas Inland | Texas Gulf Coast | Louisiana Gulf Coast | North Louisiana, Arkansas | New Mexico | Total | | | |
| Hydrocarbon Gas Liquids | 3.9 | 4.5 | 4.3 | 0.3 | 1.3 | 4.3 | 1.6 | 2.5 | 3.6 |
| Finished Motor Gasoline[1] | 49.6 | 42.9 | 42.6 | 26.5 | 50.0 | 43.0 | 48.3 | 46.9 | 45.8 |
| Finished Aviation Gasoline[2] | 0.3 | 0.1 | 0.1 | – | – | 0.1 | 0.1 | – | 0.1 |
| Kerosene-Type Jet Fuel | 7.3 | 10.7 | 11.4 | 2.9 | – | 10.4 | 5.4 | 16.8 | 10.6 |
| Kerosene | 0.0 | 0.0 | 0.1 | 0.2 | – | 0.0 | 0.0 | 0.0 | 0.0 |
| Distillate Fuel Oil[3] | 33.7 | 30.6 | 31.8 | 34.4 | 44.3 | 31.6 | 32.7 | 22.1 | 29.3 |
| Residual Fuel Oil | 2.0 | 1.2 | 2.4 | -0.2 | 1.6 | 1.7 | 2.1 | 5.8 | 2.3 |
| Naphtha for Petro. Feed. Use | 0.5 | 2.9 | 1.3 | – | – | 2.0 | – | 0.0 | 1.2 |
| Other Oils for Petro. Feed. Use | 0.1 | 1.4 | 1.3 | – | – | 1.2 | – | – | 0.7 |
| Special Naphthas | 0.3 | 0.5 | – | 3.0 | – | 0.3 | – | 0.0 | 0.2 |
| Lubricants | 0.2 | 1.5 | 1.4 | 13.4 | – | 1.6 | – | 0.8 | 1.1 |
| Waxes | – | 0.0 | 0.0 | 0.2 | – | 0.0 | – | – | 0.0 |
| Petroleum Coke | 1.7 | 6.0 | 4.8 | 2.3 | 0.6 | 5.0 | 4.2 | 5.5 | 4.9 |
| Asphalt and Road Oil | 1.1 | 0.5 | 0.6 | 12.4 | 1.8 | 0.9 | 5.9 | 1.1 | 2.1 |
| Still Gas | 3.1 | 4.0 | 3.7 | 3.8 | 2.3 | 3.7 | 3.6 | 4.5 | 3.8 |
| Miscellaneous Products | 0.5 | 0.7 | 0.5 | 0.0 | 1.0 | 0.6 | 0.6 | 0.5 | 0.5 |
| Processing Gain(-) or Loss(+)[4] | -4.3 | -7.4 | -6.2 | 0.6 | -2.8 | -6.4 | -4.5 | -6.5 | -6.1 |

– = No Data Reported.
1 Based on net production of finished motor gasoline minus input of natural gas plant liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components.
2 Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.
3 Based on distillate fuel oil net production minus input of biodiesel, “other” renewable diesel fuels, and “other” renewable fuels.
4 Represents the arithmetic difference between input and production.
Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, “other” hydrocarbons, and net input of unfinished oils.
Note: Totals may not equal sum of components due to independent rounding.
Note: Refer to Appendix A for Refining District descriptions.
Source: Calculated from data on Tables 30 and 31.

**Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, September 2019**
(Thousand Barrels)

| PAD District and State of Entry | Residual Fuel Oil | | | |
|---|---|---|---|---|
| | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| **PAD District 1** | **–** | **137** | **2,568** | **2,705** |
| Connecticut | – | – | – | – |
| Delaware | – | – | – | – |
| Florida | – | – | 717 | 717 |
| Georgia | – | – | – | – |
| Maine | – | – | – | – |
| Maryland | – | – | – | – |
| Massachusetts | – | – | – | – |
| New Hampshire | – | – | – | – |
| New Jersey | – | 136 | 1,543 | 1,679 |
| New York | – | – | 248 | 248 |
| North Carolina | – | – | – | – |
| Pennsylvania | – | – | – | – |
| Rhode Island | – | – | – | – |
| South Carolina | – | – | 60 | 60 |
| Vermont | – | 1 | – | 1 |
| Virginia | – | – | – | – |
| West Virginia | – | – | – | – |
| **PAD District 2** | **–** | **14** | **47** | **61** |
| Illnois | – | – | – | – |
| Indiana | – | – | – | – |
| Michigan | – | – | 36 | 36 |
| Minnesota | – | 10 | 11 | 21 |
| North Dakota | – | 4 | – | 4 |
| Ohio | – | – | – | – |
| Wisconsin | – | – | – | – |
| **PAD District 3** | **299** | **68** | **1,560** | **1,927** |
| Alabama | – | – | – | – |
| Louisiana | – | – | – | – |
| Mississippi | – | – | – | – |
| New Mexico | – | – | – | – |
| Texas | 299 | 68 | 1,560 | 1,927 |
| **PAD District 4** | **–** | **–** | **–** | **–** |
| Idaho | – | – | – | – |
| Montana | – | – | – | – |
| **PAD District 5** | **–** | **122** | **151** | **273** |
| Alaska | – | – | – | – |
| California | – | – | 151 | 151 |
| Hawaii | – | – | – | – |
| Oregon | – | – | – | – |
| Washington | – | 122 | – | 122 |
| **U.S. Total** | **299** | **341** | **4,326** | **4,966** |

– = No Data Reported.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 37. Imports of Crude Oil and Petroleum Products by PAD District, September 2019**
(Thousand Barrels, Except Where Noted)

| Commodity | PAD Districts | | | | | U.S. Total | |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | Total | Daily Average |
| **Crude Oil**[1,2] | **18,623** | **74,297** | **52,133** | **9,643** | **39,644** | **194,340** | **6,478** |
| **Hydrocarbon Gas Liquids** | **886** | **2,075** | **192** | **383** | **1,416** | **4,952** | **165** |
| Natural Gas Liquids | 688 | 1,807 | – | 383 | 1,416 | 4,294 | 143 |
| Ethane | – | – | – | – | – | – | – |
| Propane | 470 | 1,224 | – | 280 | 895 | 2,869 | 96 |
| Normal Butane | 91 | 371 | – | 77 | 508 | 1,047 | 35 |
| Isobutane | 127 | 208 | – | 26 | 13 | 374 | 12 |
| Natural Gasoline | – | 4 | – | – | – | 4 | 0 |
| Refinery Olefins | 198 | 268 | 192 | – | – | 658 | 22 |
| Ethylene | – | – | – | – | – | – | – |
| Propylene | 198 | 157 | – | – | – | 355 | 12 |
| Normal Butylene | – | 111 | 192 | – | – | 303 | 10 |
| Isobutylene | – | – | – | – | – | – | – |
| **Other Liquids** | **17,318** | **255** | **16,829** | **171** | **5,391** | **39,964** | **1,332** |
| Hydrogen/Oxygenates/Renewables/Other Hydrocarbons | 189 | 62 | 44 | 22 | 1,535 | 1,852 | 62 |
| Hydrogen | – | – | – | – | – | – | – |
| Oxygenates (excluding Fuel Ethanol) | – | – | 44 | – | – | 44 | 1 |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | 44 | – | – | 44 | 1 |
| Other Oxygenates[3] | – | – | – | – | – | – | – |
| Renewable Fuels (including Fuel Ethanol) | 189 | 62 | – | 22 | 1,535 | 1,808 | 60 |
| Fuel Ethanol | – | – | – | – | 1,203 | 1,203 | 40 |
| Biodiesel | 189 | 62 | – | 22 | 7 | 280 | 9 |
| Other Renewable Diesel Fuel | – | – | – | – | 325 | 325 | 11 |
| Other Renewable Fuels | – | – | – | – | – | – | – |
| Other Hydrocarbons | – | – | – | – | – | – | – |
| Unfinished Oils[1] | 1,104 | – | 14,412 | – | 3,540 | 19,056 | 635 |
| Naphthas and Lighter | 320 | – | 330 | – | 287 | 937 | 31 |
| Kerosene and Lighter Gas Oils | – | – | 24 | – | – | 24 | 1 |
| Heavy Gas Oils | 784 | – | 8,855 | – | 2,707 | 12,346 | 412 |
| Residuum | – | – | 5,203 | – | 546 | 5,749 | 192 |
| Motor Gasoline Blend.Comp. (MGBC) | 16,025 | 193 | 2,373 | 149 | 316 | 19,056 | 635 |
| Reformulated - RBOB | 6,202 | – | – | – | – | 6,202 | 207 |
| Conventional | 9,823 | 193 | 2,373 | 149 | 316 | 12,854 | 428 |
| CBOB | 1,118 | – | – | – | – | 1,118 | 37 |
| GTAB | 1,912 | – | – | – | – | 1,912 | 64 |
| Other | 6,793 | 193 | 2,373 | 149 | 316 | 9,824 | 327 |
| Aviation Gasoline Blend. Comp. | – | – | – | – | – | – | – |
| **Finished Petroleum Products** | **10,713** | **894** | **3,525** | **321** | **5,316** | **20,769** | **692** |
| Finished Motor Gasoline | 2,555 | – | – | 65 | 404 | 3,024 | 101 |
| Reformulated | – | – | – | – | – | – | – |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – | – |
| Reformulated Other | – | – | – | – | – | – | – |
| Conventional | 2,555 | – | – | 65 | 404 | 3,024 | 101 |
| Conventional Blended with Fuel Ethanol | – | – | – | – | – | – | – |
| Ed55 and Lower | – | – | – | – | – | – | – |
| Greater than Ed55 | – | – | – | – | – | – | – |
| Conventional Other | 2,555 | – | – | 65 | 404 | 3,024 | 101 |
| Finished Aviation Gasoline | 42 | 3 | – | – | 2 | 47 | 2 |
| Kerosene-Type Jet Fuel | 1,329 | – | – | – | 4,244 | 5,573 | 186 |
| Bonded Aircraft Fuel | 433 | – | – | – | 1,959 | 2,392 | 80 |
| Other | 896 | – | – | – | 2,285 | 3,181 | 106 |
| Kerosene | – | – | – | – | – | – | – |
| Distillate Fuel Oil | 2,669 | 227 | – | 198 | 247 | 3,341 | 111 |
| 15 ppm sulfur and under | 2,498 | 135 | – | 198 | 246 | 3,077 | 103 |
| Bonded | – | – | – | – | – | – | – |
| Other | 2,498 | 135 | – | 198 | 246 | 3,077 | 103 |
| Greater than 15 ppm to 500 ppm sulfur | 12 | – | – | – | – | 12 | 0 |
| Bonded | – | – | – | – | – | – | – |
| Other | 12 | – | – | – | – | 12 | 0 |
| Greater than 500 ppm to 2000 ppm sulfur | 159 | 92 | – | – | 1 | 252 | 8 |
| Bonded | – | – | – | – | – | – | – |
| Other | 159 | 92 | – | – | 1 | 252 | 8 |
| Greater than 2000 ppm | – | – | – | – | – | – | – |
| Bonded | – | – | – | – | – | – | – |
| Other | – | – | – | – | – | – | – |
| Residual Fuel Oil | 2,705 | 61 | 1,927 | – | 273 | 4,966 | 166 |
| Less than 0.31 percent sulfur | – | – | 299 | – | – | 299 | 10 |
| 0.31 to 1.00 percent sulfur | 137 | 14 | 68 | – | 122 | 341 | 11 |
| Greater than 1.00 percent sulfur | 2,568 | 47 | 1,560 | – | 151 | 4,326 | 144 |
| Petrochemical Feedstocks | – | 137 | 458 | – | – | 595 | 20 |
| Naphtha for Petro. Feed. Use | – | 86 | 458 | – | – | 544 | 18 |
| Other Oils for Petro. Feed. Use | – | 51 | – | – | – | 51 | 2 |
| Special Naphthas | 2 | 4 | 669 | – | – | 675 | 23 |
| Lubricants | 183 | 132 | 420 | – | 28 | 763 | 25 |
| Waxes | 74 | 5 | 19 | – | 63 | 161 | 5 |
| Petroleum Coke (Marketable) | 1 | 26 | – | – | 22 | 49 | 2 |
| Asphalt and Road Oil | 1,153 | 299 | 32 | 57 | 33 | 1,574 | 52 |
| Miscellaneous Products | – | – | – | 1 | – | 1 | 0 |
| **Total** | **47,540** | **77,521** | **72,679** | **10,518** | **51,767** | **260,025** | **8,668** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-September 2019**
(Thousand Barrels)

| Commodity | PAD Districts | | | | | U.S. Total | |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | Total | Daily Average |
| **Crude Oil[1,2]** | **202,232** | **698,792** | **564,969** | **84,887** | **349,505** | **1,900,385** | **6,961** |
| **Hydrocarbon Gas Liquids** | **12,849** | **24,361** | **1,008** | **3,183** | **14,437** | **55,838** | **205** |
| Natural Gas Liquids | 10,628 | 21,864 | – | 3,183 | 14,437 | 50,112 | 184 |
| Ethane | – | – | – | – | – | – | – |
| Propane | 8,711 | 15,298 | – | 2,607 | 9,078 | 35,694 | 131 |
| Normal Butane | 461 | 4,848 | – | 423 | 4,891 | 10,623 | 39 |
| Isobutane | 1,456 | 1,674 | – | 153 | 468 | 3,751 | 14 |
| Natural Gasoline | – | 44 | – | – | – | 44 | 0 |
| Refinery Olefins | 2,221 | 2,497 | 1,008 | – | – | 5,726 | 21 |
| Ethylene | – | – | – | – | – | – | – |
| Propylene | 2,221 | 1,920 | – | – | – | 4,141 | 15 |
| Normal Butylene | – | 547 | 1,008 | – | – | 1,555 | 6 |
| Isobutylene | – | – | – | – | – | 30 | 0 |
| **Other Liquids** | **179,147** | **3,546** | **150,658** | **1,342** | **44,293** | **378,986** | **1,388** |
| Hydrogen/Oxygenates/Renewables/Other Hydrocarbons | 1,330 | 733 | 1,128 | 141 | 8,126 | 11,458 | 42 |
| Hydrogen | – | – | – | – | – | – | – |
| Oxygenates (excluding Fuel Ethanol) | – | – | 866 | – | – | 866 | 3 |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | 214 | – | – | 214 | 1 |
| Other Oxygenates[3] | – | – | 652 | – | – | 652 | 2 |
| Renewable Fuels (including Fuel Ethanol) | 1,330 | 733 | 235 | 141 | 8,126 | 10,565 | 39 |
| Fuel Ethanol | – | – | – | – | 3,464 | 3,464 | 13 |
| Biodiesel | 1,330 | 733 | 235 | 141 | 399 | 2,838 | 10 |
| Other Renewable Diesel Fuel | – | – | – | – | 4,263 | 4,263 | 16 |
| Other Renewable Fuels | – | – | – | – | – | – | – |
| Other Hydrocarbons | – | – | 27 | – | – | 27 | 0 |
| Unfinished Oils[1] | 13,058 | 315 | 129,932 | – | 24,253 | 167,558 | 614 |
| Naphthas and Lighter | 4,562 | 88 | 2,259 | – | 684 | 7,593 | 28 |
| Kerosene and Lighter Gas Oils | – | – | 222 | – | – | 222 | 1 |
| Heavy Gas Oils | 8,496 | 227 | 80,445 | – | 21,962 | 111,130 | 407 |
| Residuum | – | – | 47,006 | – | 1,607 | 48,613 | 178 |
| Motor Gasoline Blend.Comp. (MGBC) | 164,759 | 2,498 | 19,598 | 1,201 | 11,914 | 199,970 | 732 |
| Reformulated - RBOB | 45,146 | – | 581 | – | 2,255 | 47,982 | 176 |
| Conventional | 119,613 | 2,498 | 19,017 | 1,201 | 9,659 | 151,988 | 557 |
| CBOB | 10,774 | 569 | – | – | 1,371 | 12,714 | 47 |
| GTAB | 28,723 | – | 907 | – | 607 | 30,237 | 111 |
| Other | 80,116 | 1,929 | 18,110 | 1,201 | 7,681 | 109,037 | 399 |
| Aviation Gasoline Blend. Comp. | – | – | – | – | – | – | – |
| **Finished Petroleum Products** | **104,025** | **8,536** | **33,574** | **1,462** | **45,669** | **193,266** | **708** |
| Finished Motor Gasoline | 16,745 | 1 | 785 | 65 | 3,951 | 21,547 | 79 |
| Reformulated | – | – | – | – | – | – | – |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – | – |
| Reformulated Other | – | – | – | – | – | – | – |
| Conventional | 16,745 | 1 | 785 | 65 | 3,951 | 21,547 | 79 |
| Conventional Blended with Fuel Ethanol | – | – | – | – | – | – | – |
| Ed55 and Lower | – | – | – | – | – | – | – |
| Greater than Ed55 | – | – | – | – | – | – | – |
| Conventional Other | 16,745 | 1 | 785 | 65 | 3,951 | 21,547 | 79 |
| Finished Aviation Gasoline | 122 | 30 | 59 | 17 | 30 | 258 | 1 |
| Kerosene-Type Jet Fuel | 15,614 | – | 30 | – | 30,437 | 46,081 | 169 |
| Bonded Aircraft Fuel | 3,804 | – | – | – | 12,552 | 16,356 | 60 |
| Other | 11,810 | – | 30 | – | 17,885 | 29,725 | 109 |
| Kerosene | 101 | – | – | – | – | 101 | 0 |
| Distillate Fuel Oil | 40,989 | 2,651 | 1,813 | 1,014 | 3,688 | 50,155 | 184 |
| 15 ppm sulfur and under | 39,097 | 1,928 | 516 | 1,014 | 3,679 | 46,234 | 169 |
| Bonded | – | – | – | – | – | – | – |
| Other | 39,097 | 1,928 | 516 | 1,014 | 3,679 | 46,234 | 169 |
| Greater than 15 ppm to 500 ppm sulfur | 645 | – | – | – | – | 645 | 2 |
| Bonded | – | – | – | – | – | – | – |
| Other | 645 | – | – | – | – | 645 | 2 |
| Greater than 500 ppm to 2000 ppm sulfur | 766 | 473 | 261 | – | 9 | 1,509 | 6 |
| Bonded | – | – | – | – | – | – | – |
| Other | 766 | 473 | 261 | – | 9 | 1,509 | 6 |
| Greater than 2000 ppm | 481 | 250 | 1,036 | – | – | 1,767 | 6 |
| Bonded | – | – | – | – | – | – | – |
| Other | 481 | 250 | 1,036 | – | – | 1,767 | 6 |
| Residual Fuel Oil | 19,812 | 627 | 13,521 | 97 | 5,107 | 39,164 | 143 |
| Less than 0.31 percent sulfur | 996 | – | 2,480 | – | 338 | 3,814 | 14 |
| 0.31 to 1.00 percent sulfur | 2,002 | 193 | 1,077 | – | 1,806 | 5,078 | 19 |
| Greater than 1.00 percent sulfur | 16,814 | 434 | 9,964 | 97 | 2,963 | 30,272 | 111 |
| Petrochemical Feedstocks | 22 | 1,366 | 3,002 | – | 269 | 4,659 | 17 |
| Naphtha for Petro. Feed. Use | 8 | 721 | 2,842 | – | 269 | 3,840 | 14 |
| Other Oils for Petro. Feed. Use | 14 | 645 | 160 | – | – | 819 | 3 |
| Special Naphthas | 8 | 49 | 4,427 | – | – | 4,484 | 16 |
| Lubricants | 2,003 | 1,073 | 8,447 | 1 | 558 | 12,082 | 44 |
| Waxes | 615 | 41 | 229 | – | 480 | 1,365 | 5 |
| Petroleum Coke (Marketable) | 24 | 254 | 1,206 | – | 227 | 1,711 | 6 |
| Asphalt and Road Oil | 7,970 | 2,444 | 55 | 259 | 922 | 11,650 | 43 |
| Miscellaneous Products | – | – | – | 9 | – | 9 | 0 |
| **Total** | **498,253** | **735,235** | **750,209** | **90,874** | **453,904** | **2,528,475** | **9,262** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2019**
(Thousand Barrels)

| Country of Origin | Crude Oil[1,2] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils[1] | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| **OPEC** | **43,071** | **74** | **–** | **4,121** | **–** | **–** | **–** | **–** | **697** | **697** |
| Algeria | – | – | – | 1,474 | – | – | – | – | – | – |
| Angola | 1,729 | – | – | 117 | – | – | – | – | 274 | 274 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – |
| Ecuador | 5,595 | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | 74 | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | 11,999 | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – |
| Libya | 2,072 | – | – | – | – | – | – | – | – | – |
| Nigeria | 6,923 | – | – | – | – | – | – | – | 423 | 423 |
| Saudi Arabia | 13,727 | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | 1,026 | – | – | 2,530 | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **151,269** | **4,220** | **658** | **14,935** | **–** | **3,024** | **3,024** | **6,202** | **12,157** | **18,359** |
| Argentina | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | 1,095 | – | – | – | – | 243 | 243 |
| Brazil | 2,460 | – | – | – | – | – | – | – | 1,553 | 1,553 |
| Brunei | 2,026 | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – |
| Canada | 110,918 | 4,220 | 466 | 440 | – | 509 | 509 | 3,438 | 1,214 | 4,652 |
| Chad | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | 295 | 295 |
| Colombia | 7,309 | – | – | – | – | – | – | – | 718 | 718 |
| Denmark | – | – | – | – | – | – | – | – | – | – |
| Egypt | 11 | – | – | 2,266 | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | 104 | – | – | – | – | 519 | 519 |
| France | – | – | – | 386 | – | 555 | 555 | 247 | – | 247 |
| Germany | – | – | – | 186 | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | 366 | – | – | – | – | 1,063 | 1,063 |
| Indonesia | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | 360 | – | – | – | – | 589 | 589 |
| Korea, South | – | – | – | – | – | 317 | 317 | – | 74 | 74 |
| Latvia | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | 191 | 191 |
| Mexico | 15,689 | – | 34 | – | – | – | – | – | – | – |
| Netherlands | – | – | – | 106 | – | 313 | 313 | 1,508 | 1,482 | 2,990 |
| Norway | 2,271 | – | – | – | – | 105 | 105 | – | 1,310 | 1,310 |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – |
| Russia | 3,385 | – | – | 7,625 | – | 287 | 287 | 64 | 1,747 | 1,811 |
| Spain | – | – | – | 27 | – | 160 | 160 | – | 70 | 70 |
| Sweden | – | – | – | 37 | – | 155 | 155 | – | 391 | 391 |
| Syria | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | 1,050 | – | – | – | – | – | – | – | – | – |
| United Kingdom | 3,039 | – | – | 637 | – | 623 | 623 | 945 | 70 | 1,015 |
| Vietnam | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – |
| Other | 3,111 | 0 | 158 | 1,300 | – | 0 | 0 | 0 | 628 | 628 |
| **Total** | **194,340** | **4,294** | **658** | **19,056** | **–** | **3,024** | **3,024** | **6,202** | **12,854** | **19,056** |
| **Persian Gulf[3]** | **26,752** | **–** | **–** | **2,530** | **–** | **–** | **–** | **–** | **–** | **–** |

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **44** | **–** | **1,203** | **280** | **325** | **–** | **3,077** | **12** | **252** | **–** | **3,341** |
| Argentina | 44 | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | 1,203 | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | 142 | – | – | 2,676 | 12 | 96 | – | 2,784 |
| Chad | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | 401 | – | – | – | 401 |
| Denmark | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | 138 | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | 156 | – | 156 |
| Norway | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | – | 0 | 0 | 325 | – | 0 | 0 | 0 | – | 0 |
| **Total** | **44** | **–** | **1,203** | **280** | **325** | **–** | **3,077** | **12** | **252** | **–** | **3,341** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | 47 | – | 5,573 | 675 | 299 | 341 | 4,326 | 4,966 |
| Argentina | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | 68 | 305 | 373 |
| Brunei | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – |
| Canada | – | 6 | – | 576 | 6 | 299 | 137 | 853 | 1,289 |
| Chad | – | – | – | – | – | – | – | – | – |
| China | – | – | – | 454 | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | 63 | 63 |
| Denmark | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | 2,964 | 517 | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | 49 | – | – | 1,710 | 1,710 |
| Netherlands | – | 41 | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | 1,093 | 1,093 |
| Spain | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – |
| Other | – | 0 | – | 1,579 | 103 | 0 | 136 | 302 | 438 |
| **Total** | – | 47 | – | 5,573 | 675 | 299 | 341 | 4,326 | 4,966 |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Petrochemical Feedstocks | | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellaneous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Naphtha | Other Oils | | | | | | | | Crude Oil | Products | Total |
| **OPEC** | **–** | **–** | **–** | **–** | **–** | **59** | **–** | **4,951** | **48,022** | **1,436** | **165** | **1,601** |
| Algeria | – | – | – | – | – | – | – | 1,474 | 1,474 | – | 49 | 49 |
| Angola | – | – | – | – | – | – | – | 391 | 2,120 | 58 | 13 | 71 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | 5,595 | 187 | – | 187 |
| Equatorial Guinea | – | – | – | – | – | – | – | 74 | 74 | – | 2 | 2 |
| Gabon | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | 11,999 | 400 | – | 400 |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | 2,072 | 69 | – | 69 |
| Nigeria | – | – | – | – | – | – | – | 423 | 7,346 | 231 | 14 | 245 |
| Saudi Arabia | – | – | – | – | – | – | – | – | 13,727 | 458 | – | 458 |
| United Arab Emirates | – | – | – | – | – | 59 | – | 2,589 | 3,615 | 34 | 86 | 121 |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **544** | **51** | **161** | **49** | **1,574** | **704** | **1** | **60,734** | **212,003** | **5,042** | **2,024** | **7,067** |
| Argentina | – | – | – | – | – | – | – | 44 | 44 | – | 1 | 1 |
| Aruba | – | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | 60 | – | 60 | 60 | – | 2 | 2 |
| Belgium | – | – | – | – | – | 19 | – | 1,357 | 1,357 | – | 45 | 45 |
| Brazil | – | – | – | – | – | – | – | 3,129 | 5,589 | 82 | 104 | 186 |
| Brunei | – | – | – | – | – | – | – | – | 2,026 | 68 | – | 68 |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – | – |
| Canada | 86 | 51 | 44 | 48 | 1,271 | 255 | 1 | 16,846 | 127,764 | 3,697 | 562 | 4,259 |
| Chad | – | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | 40 | – | – | – | – | 789 | 789 | – | 26 | 26 |
| Colombia | – | – | – | – | – | – | – | 1,182 | 8,491 | 244 | 39 | 283 |
| Denmark | – | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | 2,266 | 2,277 | 0 | 76 | 76 |
| Estonia | – | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | 623 | 623 | – | 21 | 21 |
| France | – | – | – | – | – | 9 | – | 1,197 | 1,197 | – | 40 | 40 |
| Germany | – | – | 1 | – | – | 18 | – | 343 | 343 | – | 11 | 11 |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | 1,429 | 1,429 | – | 48 | 48 |
| Indonesia | – | – | – | – | – | 40 | – | 40 | 40 | – | 1 | 1 |
| Italy | – | – | – | – | – | 9 | – | 958 | 958 | – | 32 | 32 |
| Korea, South | 14 | – | 1 | – | – | 234 | – | 4,121 | 4,121 | – | 137 | 137 |
| Latvia | – | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | 19 | – | – | – | – | 210 | 210 | – | 7 | 7 |
| Mexico | 200 | – | – | – | – | – | – | 1,993 | 17,682 | 523 | 66 | 589 |
| Netherlands | – | – | – | – | – | 1 | – | 3,607 | 3,607 | – | 120 | 120 |
| Norway | – | – | – | – | – | – | – | 1,415 | 3,686 | 76 | 47 | 123 |
| Oman | – | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | 20 | – | 10,836 | 14,221 | 113 | 361 | 474 |
| Spain | – | – | – | – | 163 | – | – | 420 | 420 | – | 14 | 14 |
| Sweden | – | – | – | – | – | – | – | 583 | 583 | – | 19 | 19 |
| Syria | – | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | 1,050 | 35 | – | 35 |
| United Kingdom | 11 | – | – | – | – | 38 | – | 2,324 | 5,363 | 101 | 77 | 179 |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | 233 | 0 | 56 | 1 | 140 | 1 | 0 | 4,962 | 8,073 | 103 | 168 | 271 |
| **Total** | **544** | **51** | **161** | **49** | **1,574** | **763** | **1** | **65,685** | **260,025** | **6,478** | **2,190** | **8,668** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **119** | **–** | **2,649** | **29,401** | **892** | **88** | **980** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2019**
(Thousand Barrels)

| Country of Origin | Crude Oil[1,2] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils[1] | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| **OPEC** | **425,710** | **74** | **–** | **32,760** | **–** | **81** | **81** | **100** | **7,069** | **7,169** |
| Algeria | 6,413 | – | – | 19,434 | – | – | – | – | – | – |
| Angola | 9,290 | – | – | 768 | – | – | – | – | 483 | 483 |
| Congo (Brazzaville) | 5,537 | – | – | 173 | – | – | – | – | – | – |
| Ecuador | 49,958 | – | – | 1,220 | – | – | – | – | – | – |
| Equatorial Guinea | 2,623 | 74 | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | 94,134 | – | – | 312 | – | – | – | – | – | – |
| Kuwait | 13,911 | – | – | – | – | – | – | – | – | – |
| Libya | 15,576 | – | – | 1,123 | – | – | – | – | – | – |
| Nigeria | 52,990 | – | – | 360 | – | – | – | – | 1,542 | 1,542 |
| Saudi Arabia | 144,851 | – | – | 4,373 | – | 81 | 81 | 100 | 2,474 | 2,574 |
| United Arab Emirates | 1,026 | – | – | 4,952 | – | – | – | – | 1,264 | 1,264 |
| Venezuela | 29,401 | – | – | 45 | – | – | – | – | 1,306 | 1,306 |
| **Non-OPEC** | **1,474,675** | **50,038** | **5,726** | **134,798** | **–** | **21,466** | **21,466** | **47,882** | **144,919** | **192,801** |
| Argentina | 9,724 | 254 | – | – | – | – | – | – | 579 | 579 |
| Aruba | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | 398 | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | 13,647 | – | 600 | 600 | 1,383 | 5,133 | 6,516 |
| Brazil | 31,758 | – | – | 1,155 | – | – | – | – | 15,896 | 15,896 |
| Brunei | 6,906 | – | – | – | – | – | – | – | – | – |
| Cameroon | 1,339 | – | – | 793 | – | – | – | – | – | – |
| Canada | 1,045,126 | 48,871 | 4,718 | 5,474 | – | 4,327 | 4,327 | 23,676 | 16,612 | 40,288 |
| Chad | 1,901 | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | 486 | 486 |
| Colombia | 93,744 | – | – | 676 | – | – | – | – | 3,963 | 3,963 |
| Denmark | 4,411 | – | – | 320 | – | 1 | 1 | 9 | 419 | 428 |
| Egypt | 4,380 | – | – | 10,798 | – | 138 | 138 | – | 337 | 337 |
| Estonia | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | 235 | – | 228 | 228 | 107 | 7,236 | 7,343 |
| France | – | – | 65 | 824 | – | 4,507 | 4,507 | 1,166 | 1,267 | 2,433 |
| Germany | – | – | – | 1,380 | – | 72 | 72 | 3 | 720 | 723 |
| Guatemala | 1,923 | – | – | – | – | – | – | – | – | – |
| India | – | – | – | 1,862 | – | – | – | – | 19,644 | 19,644 |
| Indonesia | – | – | – | – | – | – | – | – | 566 | 566 |
| Italy | – | – | – | 3,009 | – | 166 | 166 | 88 | 4,879 | 4,967 |
| Korea, South | – | – | – | 149 | – | 2,253 | 2,253 | – | 1,861 | 1,861 |
| Latvia | – | – | – | – | – | – | – | – | 69 | 69 |
| Lithuania | – | – | – | 19 | – | – | – | – | 1,170 | 1,170 |
| Malaysia | – | – | – | 289 | – | – | – | – | 243 | 243 |
| Mexico | 168,121 | – | 193 | – | – | – | – | – | 1,216 | 1,216 |
| Netherlands | 486 | – | – | 2,964 | – | 2,135 | 2,135 | 9,207 | 14,453 | 23,660 |
| Norway | 15,836 | 309 | – | 4,291 | – | 396 | 396 | 622 | 5,926 | 6,548 |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | 837 | 7,023 | 7,860 |
| Qatar | – | – | – | – | – | – | – | – | 36 | 36 |
| Russia | 36,100 | – | – | 69,390 | – | 851 | 851 | 162 | 11,133 | 11,295 |
| Spain | 194 | – | – | 2,714 | – | 861 | 861 | 1 | 7,834 | 7,835 |
| Sweden | – | 191 | – | 1,542 | – | 313 | 313 | 35 | 893 | 928 |
| Syria | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | 11,529 | – | – | – | – | – | – | – | 350 | 350 |
| United Kingdom | 19,978 | 192 | – | 1,934 | – | 4,005 | 4,005 | 10,518 | 5,603 | 16,121 |
| Vietnam | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – |
| Other | 21,219 | 221 | 750 | 10,935 | – | 613 | 613 | 68 | 9,372 | 9,440 |
| **Total** | **1,900,385** | **50,112** | **5,726** | **167,558** | **–** | **21,547** | **21,547** | **47,982** | **151,988** | **199,970** |
| **Persian Gulf[3]** | **253,922** | **–** | **–** | **9,637** | **–** | **81** | **81** | **100** | **3,774** | **3,874** |

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| **OPEC** | **–** | **–** | **–** | **–** | **–** | **–** | **1,999** | **–** | **–** | **156** | **2,155** |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | 156 | 156 |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | 312 | – | – | – | 312 |
| Saudi Arabia | – | – | – | – | – | – | 1,193 | – | – | – | 1,193 |
| United Arab Emirates | – | – | – | – | – | – | 200 | – | – | – | 200 |
| Venezuela | – | – | – | – | – | – | 294 | – | – | – | 294 |
| **Non-OPEC** | **214** | **652** | **3,464** | **2,838** | **4,263** | **–** | **44,235** | **645** | **1,509** | **1,611** | **48,000** |
| Argentina | 214 | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | 501 | – | – | 396 | 897 |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | 143 | – | – | – | – | – | – | – |
| Brazil | – | 652 | 3,464 | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | 1,156 | – | – | 27,281 | 369 | 1,092 | 731 | 29,473 |
| Chad | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | 279 | – | – | – | 279 |
| Colombia | – | – | – | – | – | – | 5,966 | – | – | – | 5,966 |
| Denmark | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | 121 | – | – | – | – | – | – | – |
| Germany | – | – | – | 926 | – | – | – | – | 106 | – | 106 |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | 6,477 | – | – | – | 6,477 |
| Indonesia | – | – | – | – | – | – | 312 | – | – | – | 312 |
| Italy | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | 293 | – | – | 518 | – | – | – | 518 |
| Latvia | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | 464 | – | – | – | 464 |
| Mexico | – | – | – | – | – | – | – | – | 125 | – | 125 |
| Netherlands | – | – | – | – | – | – | – | – | 186 | – | 186 |
| Norway | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | 2,071 | – | – | – | 2,071 |
| Russia | – | – | – | – | – | – | 366 | 276 | – | 484 | 1,126 |
| Spain | – | – | – | 170 | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | 0 | 29 | 4,263 | – | 0 | 0 | 0 | 0 | 0 |
| **Total** | **214** | **652** | **3,464** | **2,838** | **4,263** | **–** | **46,234** | **645** | **1,509** | **1,767** | **50,155** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **–** | **3,464** | **–** | **–** | **–** | **3,464** |

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| **OPEC** | **–** | **–** | **–** | **1,522** | **–** | **–** | **–** | **3,394** | **3,394** |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | 282 | 282 |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | 24 | – | – | – | – | – |
| Kuwait | – | – | – | 101 | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | 20 | – | – | – | – | – |
| Saudi Arabia | – | – | – | 618 | – | – | – | 679 | 679 |
| United Arab Emirates | – | – | – | 658 | – | – | – | 20 | 20 |
| Venezuela | – | – | – | 101 | – | – | – | 2,413 | 2,413 |
| **Non-OPEC** | **101** | **258** | **–** | **44,559** | **4,484** | **3,814** | **5,078** | **26,878** | **35,770** |
| Argentina | – | – | – | – | – | 939 | 1,102 | – | 2,041 |
| Aruba | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | 562 | 562 |
| Bahrain | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | 9 | 245 | – | 68 | 412 | 480 |
| Brunei | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – |
| Canada | – | 77 | – | 6,125 | 660 | 356 | 2,336 | 6,818 | 9,510 |
| Chad | – | – | – | – | – | – | – | – | – |
| China | – | – | – | 1,284 | – | – | – | – | – |
| Colombia | 101 | – | – | – | – | 560 | 40 | 3,512 | 4,112 |
| Denmark | – | – | – | 70 | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | 37 | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – |
| India | – | – | – | 613 | 197 | – | – | 4 | 4 |
| Indonesia | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – |
| Korea, South | – | 10 | – | 25,540 | 2,182 | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | 6 | 228 | 749 | 20 | 6,813 | 7,582 |
| Netherlands | – | 171 | – | – | 13 | – | 118 | 925 | 1,043 |
| Norway | – | – | – | – | – | – | – | 244 | 244 |
| Oman | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | 484 | – | – | – | – | – |
| Russia | – | – | – | – | 13 | 872 | 199 | 6,172 | 7,243 |
| Spain | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | 286 | 286 |
| Syria | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | – | 10,428 | 909 | 338 | 1,195 | 1,130 | 2,663 |
| **Total** | **101** | **258** | **–** | **46,081** | **4,484** | **3,814** | **5,078** | **30,272** | **39,164** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **1,885** | **–** | **–** | **–** | **699** | **699** |

See footnotes at end of table.

**Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Petrochemical Feedstocks | | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellaneous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Naphtha | Other Oils | | | | | | | | Crude Oil | Products | Total |
| **OPEC** | **–** | **–** | **–** | **–** | **31** | **1,260** | **–** | **48,446** | **474,156** | **1,559** | **177** | **1,737** |
| Algeria | – | – | – | – | – | 410 | – | 19,844 | 26,257 | 23 | 73 | 96 |
| Angola | – | – | – | – | – | – | – | 1,251 | 10,541 | 34 | 5 | 39 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | 173 | 5,710 | 20 | 1 | 21 |
| Ecuador | – | – | – | – | – | – | – | 1,658 | 51,616 | 183 | 6 | 189 |
| Equatorial Guinea | – | – | – | – | – | – | – | 74 | 2,697 | 10 | 0 | 10 |
| Gabon | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | 336 | 94,470 | 345 | 1 | 346 |
| Kuwait | – | – | – | – | – | – | – | 101 | 14,012 | 51 | 0 | 51 |
| Libya | – | – | – | – | – | – | – | 1,123 | 16,699 | 57 | 4 | 61 |
| Nigeria | – | – | – | – | – | – | – | 2,234 | 55,224 | 194 | 8 | 202 |
| Saudi Arabia | – | – | – | – | – | – | – | 9,518 | 154,369 | 531 | 35 | 565 |
| United Arab Emirates | – | – | – | – | – | 850 | – | 7,944 | 8,970 | 4 | 29 | 33 |
| Venezuela | – | – | – | – | 31 | – | – | 4,190 | 33,591 | 108 | 15 | 123 |
| **Non-OPEC** | **3,840** | **819** | **1,365** | **1,711** | **11,619** | **10,822** | **9** | **579,644** | **2,054,319** | **5,402** | **2,123** | **7,525** |
| Argentina | – | – | – | 768 | – | 24 | – | 3,880 | 13,604 | 36 | 14 | 50 |
| Aruba | – | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | 398 | 398 | – | 1 | 1 |
| Bahamas | – | – | – | – | – | – | – | 1,459 | 1,459 | – | 5 | 5 |
| Bahrain | – | – | – | – | – | 612 | – | 612 | 612 | – | 2 | 2 |
| Belgium | 1 | – | – | – | 84 | 109 | – | 21,100 | 21,100 | – | 77 | 77 |
| Brazil | – | 9 | – | – | – | – | – | 21,910 | 53,668 | 116 | 80 | 197 |
| Brunei | – | – | – | – | – | – | – | – | 6,906 | 25 | – | 25 |
| Cameroon | – | – | – | – | – | – | – | 793 | 2,132 | 5 | 3 | 8 |
| Canada | 721 | 659 | 383 | 469 | 9,516 | 2,112 | 9 | 164,548 | 1,209,674 | 3,828 | 603 | 4,431 |
| Chad | – | – | – | – | – | – | – | – | 1,901 | 7 | – | 7 |
| China | – | – | 580 | – | – | – | – | 2,629 | 2,629 | – | 10 | 10 |
| Colombia | – | – | – | – | 39 | – | – | 14,857 | 108,601 | 343 | 54 | 398 |
| Denmark | – | – | – | – | – | – | – | 819 | 5,230 | 16 | 3 | 19 |
| Egypt | – | – | – | – | – | – | – | 11,273 | 15,653 | 16 | 41 | 57 |
| Estonia | – | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | 15 | – | 7,821 | 7,821 | – | 29 | 29 |
| France | – | 148 | – | – | – | 126 | – | 8,261 | 8,261 | – | 30 | 30 |
| Germany | – | – | 44 | – | – | 167 | – | 3,418 | 3,418 | – | 13 | 13 |
| Guatemala | – | – | – | – | – | – | – | – | 1,923 | 7 | – | 7 |
| India | – | – | – | – | – | 1 | – | 28,798 | 28,798 | – | 105 | 105 |
| Indonesia | – | – | 1 | – | – | 676 | – | 1,555 | 1,555 | – | 6 | 6 |
| Italy | 34 | – | – | – | – | 151 | – | 8,329 | 8,329 | – | 31 | 31 |
| Korea, South | 14 | – | 6 | – | 130 | 3,185 | – | 36,141 | 36,141 | – | 132 | 132 |
| Latvia | – | – | – | – | – | – | – | 69 | 69 | – | 0 | 0 |
| Lithuania | – | – | – | – | – | – | – | 1,189 | 1,189 | – | 4 | 4 |
| Malaysia | – | – | 88 | – | 65 | 3 | – | 1,152 | 1,152 | – | 4 | 4 |
| Mexico | 1,796 | – | – | – | – | – | – | 11,146 | 179,267 | 616 | 41 | 657 |
| Netherlands | – | – | – | – | – | 32 | – | 30,216 | 30,702 | 2 | 111 | 112 |
| Norway | – | – | – | – | – | – | – | 11,788 | 27,624 | 58 | 43 | 101 |
| Oman | – | – | – | 411 | – | – | – | 411 | 411 | – | 2 | 2 |
| Portugal | – | – | – | – | – | 10 | – | 7,870 | 7,870 | – | 29 | 29 |
| Qatar | – | – | – | – | – | 2,932 | – | 5,523 | 5,523 | – | 20 | 20 |
| Russia | – | – | – | – | – | 223 | – | 90,141 | 126,241 | 132 | 330 | 462 |
| Spain | – | – | 8 | – | 916 | – | – | 12,504 | 12,698 | 1 | 46 | 47 |
| Sweden | – | – | – | 19 | – | 9 | – | 3,288 | 3,288 | – | 12 | 12 |
| Syria | – | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | 350 | 11,879 | 42 | 1 | 44 |
| United Kingdom | 240 | – | – | 24 | – | 156 | – | 22,672 | 42,650 | 73 | 83 | 156 |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | 1,034 | 3 | 255 | 20 | 869 | 279 | 0 | 42,724 | 63,943 | 79 | 158 | 235 |
| **Total** | **3,840** | **819** | **1,365** | **1,711** | **11,650** | **12,082** | **9** | **628,090** | **2,528,475** | **6,961** | **2,301** | **9,262** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **4,394** | **–** | **24,034** | **277,956** | **930** | **88** | **1,018** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels)

| Country of Origin | Crude Oil[1,2] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils[1] | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| **OPEC** | **7,852** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **697** | **697** |
| Algeria | – | – | – | – | – | – | – | – | – | – |
| Angola | 50 | – | – | – | – | – | – | – | 274 | 274 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – |
| Libya | 1,048 | – | – | – | – | – | – | – | – | – |
| Nigeria | 4,712 | – | – | – | – | – | – | – | 423 | 423 |
| Saudi Arabia | 2,042 | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **10,771** | **688** | **198** | **1,104** | **–** | **2,555** | **2,555** | **6,202** | **9,126** | **15,328** |
| Argentina | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | 243 | 243 |
| Brazil | – | – | – | – | – | – | – | – | 937 | 937 |
| Brunei | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – |
| Canada | 4,930 | 688 | 198 | – | – | 357 | 357 | 3,438 | 872 | 4,310 |
| Chad | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | 718 | 718 |
| Denmark | – | – | – | – | – | – | – | – | – | – |
| Egypt | 11 | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | 519 | 519 |
| France | – | – | – | – | – | 555 | 555 | 247 | – | 247 |
| Germany | – | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | 203 | 203 |
| Indonesia | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | 279 | 279 |
| Korea, South | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – |
| Mexico | 498 | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | 313 | 313 | 1,508 | 1,358 | 2,866 |
| Norway | 1,642 | – | – | – | – | 105 | 105 | – | 1,310 | 1,310 |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | 824 | – | 287 | 287 | 64 | 1,747 | 1,811 |
| Spain | – | – | – | – | – | 160 | 160 | – | 70 | 70 |
| Sweden | – | – | – | – | – | 155 | 155 | – | 391 | 391 |
| Syria | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | 1,515 | – | – | – | – | 623 | 623 | 945 | 70 | 1,015 |
| Vietnam | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – |
| Other | 2,175 | 0 | 0 | 280 | – | 0 | 0 | 0 | 409 | 409 |
| **Total** | **18,623** | **688** | **198** | **1,104** | **–** | **2,555** | **2,555** | **6,202** | **9,823** | **16,025** |
| **Persian Gulf[3]** | **2,042** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |

See footnotes at end of table.

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | – | – | **189** | – | – | **2,498** | **12** | **159** | – | **2,669** |
| Argentina | – | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | 51 | – | – | 2,097 | 12 | 3 | – | 2,112 |
| Chad | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | 401 | – | – | – | 401 |
| Denmark | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | 138 | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | 156 | – | 156 |
| Norway | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | – | 0 | – | – | 0 | 0 | 0 | – | 0 |
| **Total** | – | – | – | **189** | – | – | **2,498** | **12** | **159** | – | **2,669** |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | 42 | – | 1,329 | 2 | – | 137 | 2,568 | 2,705 |
| Argentina | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | 31 | 31 |
| Brunei | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – |
| Canada | – | 1 | – | 576 | 2 | – | 1 | 806 | 807 |
| Chad | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | 63 | 63 |
| Denmark | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | 753 | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | 424 | 424 |
| Netherlands | – | 41 | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | 1,093 | 1,093 |
| Spain | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – |
| Other | – | 0 | – | 0 | 0 | – | 136 | 151 | 287 |
| **Total** | – | 42 | – | 1,329 | 2 | – | 137 | 2,568 | 2,705 |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Petrochemical Feedstocks | | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellaneous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Naphtha | Other Oils | | | | | | | | Crude Oil | Products | Total |
| **OPEC** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **697** | **8,549** | **262** | **23** | **285** |
| Algeria | – | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | 274 | 324 | 2 | 9 | 11 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | 1,048 | 35 | – | 35 |
| Nigeria | – | – | – | – | – | – | – | 423 | 5,135 | 157 | 14 | 171 |
| Saudi Arabia | – | – | – | – | – | – | – | – | 2,042 | 68 | – | 68 |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **–** | **–** | **74** | **1** | **1,153** | **183** | **–** | **28,220** | **38,991** | **359** | **941** | **1,300** |
| Argentina | – | – | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | 1 | – | 244 | 244 | – | 8 | 8 |
| Brazil | – | – | – | – | – | – | – | 968 | 968 | – | 32 | 32 |
| Brunei | – | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | 39 | – | 882 | 121 | – | 10,144 | 15,074 | 164 | 338 | 502 |
| Chad | – | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | 2 | – | – | – | – | 2 | 2 | – | 0 | 0 |
| Colombia | – | – | – | – | – | – | – | 1,182 | 1,182 | – | 39 | 39 |
| Denmark | – | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | 11 | 0 | – | 0 |
| Estonia | – | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | 519 | 519 | – | 17 | 17 |
| France | – | – | – | – | – | 7 | – | 809 | 809 | – | 27 | 27 |
| Germany | – | – | – | – | – | 8 | – | 146 | 146 | – | 5 | 5 |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | 203 | 203 | – | 7 | 7 |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | 1 | – | 280 | 280 | – | 9 | 9 |
| Korea, South | – | – | 1 | – | – | 23 | – | 777 | 777 | – | 26 | 26 |
| Latvia | – | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | 424 | 922 | 17 | 14 | 31 |
| Netherlands | – | – | – | – | – | 1 | – | 3,377 | 3,377 | – | 113 | 113 |
| Norway | – | – | – | – | – | – | – | 1,415 | 3,057 | 55 | 47 | 102 |
| Oman | – | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | 20 | – | 4,035 | 4,035 | – | 135 | 135 |
| Spain | – | – | – | – | 163 | – | – | 393 | 393 | – | 13 | 13 |
| Sweden | – | – | – | – | – | – | – | 546 | 546 | – | 18 | 18 |
| Syria | – | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | 1,638 | 3,153 | 51 | 55 | 105 |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | 32 | 1 | 108 | 1 | – | 1,118 | 3,293 | 72 | 38 | 111 |
| **Total** | **–** | **–** | **74** | **1** | **1,153** | **183** | **–** | **28,917** | **47,540** | **621** | **964** | **1,585** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **2,042** | **68** | **–** | **68** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels)

| Country of Origin | Crude Oil[1,2] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils[1] | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **74,297** | **1,807** | **268** | **–** | **–** | **–** | **–** | **–** | **193** | **193** |
| Argentina | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – |
| Canada | 74,297 | 1,807 | 268 | – | – | – | – | – | 193 | 193 |
| Chad | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | 0 | – | – | – | – | – | 0 | 0 |
| **Total** | **74,297** | **1,807** | **268** | **–** | **–** | **–** | **–** | **–** | **193** | **193** |
| **Persian Gulf[3]** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | – | – | **62** | – | – | **135** | – | **92** | – | **227** |
| Argentina | – | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | 62 | – | – | 135 | – | 92 | – | 227 |
| Chad | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | – | 0 | – | – | 0 | – | 0 | – | 0 |
| **Total** | – | – | – | **62** | – | – | **135** | – | **92** | – | **227** |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| **OPEC** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **–** | **3** | **–** | **–** | **4** | **–** | **14** | **47** | **61** |
| Argentina | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – |
| Canada | – | 3 | – | – | 4 | – | 14 | 47 | 61 |
| Chad | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – |
| Other | – | 0 | – | – | 0 | – | 0 | 0 | 0 |
| **Total** | **–** | **3** | **–** | **–** | **4** | **–** | **14** | **47** | **61** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |

See footnotes at end of table.

**Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Petrochemical Feedstocks | | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellaneous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Naphtha | Other Oils | | | | | | | | Crude Oil | Products | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **86** | **51** | **5** | **26** | **299** | **132** | **–** | **3,224** | **77,521** | **2,477** | **107** | **2,584** |
| Argentina | – | – | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – | – |
| Canada | 86 | 51 | 5 | 26 | 299 | 129 | – | 3,221 | 77,518 | 2,477 | 107 | 2,584 |
| Chad | – | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | 3 | – | 3 | 3 | – | 0 | 0 |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | – | 0 | 0 | 0 | 0 | 0 |
| **Total** | **86** | **51** | **5** | **26** | **299** | **132** | **–** | **3,224** | **77,521** | **2,477** | **107** | **2,584** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels)

| Country of Origin | Crude Oil[1,2] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils[1] | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| **OPEC** | **11,055** | – | – | **3,011** | – | – | – | – | – | – |
| Algeria | – | – | – | 364 | – | – | – | – | – | – |
| Angola | – | – | – | 117 | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – |
| Ecuador | 647 | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | 3,522 | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – |
| Nigeria | 207 | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | 6,679 | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | 2,530 | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **41,078** | – | **192** | **11,401** | – | – | – | – | **2,373** | **2,373** |
| Argentina | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | 1,095 | – | – | – | – | – | – |
| Brazil | 1,516 | – | – | – | – | – | – | – | 616 | 616 |
| Brunei | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – |
| Canada | 15,244 | – | – | 440 | – | – | – | – | – | – |
| Chad | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | 295 | 295 |
| Colombia | 4,971 | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | 2,266 | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | 104 | – | – | – | – | – | – |
| France | – | – | – | 386 | – | – | – | – | – | – |
| Germany | – | – | – | 186 | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | 860 | 860 |
| Indonesia | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | 310 | 310 |
| Korea, South | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – |
| Mexico | 14,714 | – | 34 | – | – | – | – | – | – | – |
| Netherlands | – | – | – | 106 | – | – | – | – | 124 | 124 |
| Norway | 629 | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – |
| Russia | 1,430 | – | – | 5,384 | – | – | – | – | – | – |
| Spain | – | – | – | 27 | – | – | – | – | – | – |
| Sweden | – | – | – | 37 | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | 1,050 | – | – | – | – | – | – | – | – | – |
| United Kingdom | 1,524 | – | – | 637 | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | – | 158 | 733 | – | – | – | – | 168 | 168 |
| **Total** | **52,133** | – | **192** | **14,412** | – | – | – | – | **2,373** | **2,373** |
| **Persian Gulf[3]** | **10,201** | – | – | **2,530** | – | – | – | – | – | – |

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | 44 | – | – | – | – | – | – | – | – | – | – |
| Argentina | 44 | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | – | – | – | – | – | – | – | – |
| Chad | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | – | – | – | – | – | – | – | – | – | – |
| **Total** | 44 | – | – | – | – | – | – | – | – | – | – |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | – | – | – | **669** | **299** | **68** | **1,560** | **1,927** |
| Argentina | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | 68 | 274 | 342 |
| Brunei | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | – | – | 299 | – | – | 299 |
| Chad | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | 517 | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | 49 | – | – | 1,286 | 1,286 |
| Netherlands | – | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – |
| Other | – | – | – | – | 103 | 0 | 0 | 0 | 0 |
| **Total** | – | – | – | – | **669** | **299** | **68** | **1,560** | **1,927** |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Petrochemical Feedstocks | | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellaneous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Naphtha | Other Oils | | | | | | | | Crude Oil | Products | Total |
| **OPEC** | **–** | **–** | **–** | **–** | **–** | **59** | **–** | **3,070** | **14,125** | **369** | **102** | **471** |
| Algeria | – | – | – | – | – | – | – | 364 | 364 | – | 12 | 12 |
| Angola | – | – | – | – | – | – | – | 117 | 117 | – | 4 | 4 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | 647 | 22 | – | 22 |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | 3,522 | 117 | – | 117 |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | 207 | 7 | – | 7 |
| Saudi Arabia | – | – | – | – | – | – | – | – | 6,679 | 223 | – | 223 |
| United Arab Emirates | – | – | – | – | – | 59 | – | 2,589 | 2,589 | – | 86 | 86 |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **458** | **–** | **19** | **–** | **32** | **361** | **–** | **17,476** | **58,554** | **1,369** | **583** | **1,952** |
| Argentina | – | – | – | – | – | – | – | 44 | 44 | – | 1 | 1 |
| Aruba | – | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | 60 | – | 60 | 60 | – | 2 | 2 |
| Belgium | – | – | – | – | – | 18 | – | 1,113 | 1,113 | – | 37 | 37 |
| Brazil | – | – | – | – | – | – | – | 958 | 2,474 | 51 | 32 | 82 |
| Brunei | – | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | – | – | – | – | 739 | 15,983 | 508 | 25 | 533 |
| Chad | – | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | 295 | 295 | – | 10 | 10 |
| Colombia | – | – | – | – | – | – | – | – | 4,971 | 166 | – | 166 |
| Denmark | – | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | 2,266 | 2,266 | – | 76 | 76 |
| Estonia | – | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | 104 | 104 | – | 3 | 3 |
| France | – | – | – | – | – | 2 | – | 388 | 388 | – | 13 | 13 |
| Germany | – | – | – | – | – | 7 | – | 193 | 193 | – | 6 | 6 |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | 860 | 860 | – | 29 | 29 |
| Indonesia | – | – | – | – | – | 40 | – | 40 | 40 | – | 1 | 1 |
| Italy | – | – | – | – | – | 8 | – | 318 | 318 | – | 11 | 11 |
| Korea, South | 14 | – | – | – | – | 188 | – | 719 | 719 | – | 24 | 24 |
| Latvia | – | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | 19 | – | – | – | – | 19 | 19 | – | 1 | 1 |
| Mexico | 200 | – | – | – | – | – | – | 1,569 | 16,283 | 490 | 52 | 543 |
| Netherlands | – | – | – | – | – | – | – | 230 | 230 | – | 8 | 8 |
| Norway | – | – | – | – | – | – | – | – | 629 | 21 | – | 21 |
| Oman | – | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | 5,384 | 6,814 | 48 | 179 | 227 |
| Spain | – | – | – | – | – | – | – | 27 | 27 | – | 1 | 1 |
| Sweden | – | – | – | – | – | – | – | 37 | 37 | – | 1 | 1 |
| Syria | – | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | 1,050 | 35 | – | 35 |
| United Kingdom | 11 | – | – | – | – | 38 | – | 686 | 2,210 | 51 | 23 | 74 |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | 233 | – | 0 | – | 32 | 0 | – | 1,427 | 1,427 | -1 | 48 | 47 |
| **Total** | **458** | **–** | **19** | **–** | **32** | **420** | **–** | **20,546** | **72,679** | **1,738** | **685** | **2,423** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **119** | **–** | **2,649** | **12,850** | **340** | **88** | **428** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels)

| Country of Origin | Crude Oil[1,2] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils[1] | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| | **PAD District 4** | | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **9,643** | **383** | – | – | – | **65** | **65** | – | **149** | **149** |
| Canada | 9,643 | 383 | – | – | – | 65 | 65 | – | 149 | 149 |
| Qatar | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | – | – | – | 0 | 0 | – | 0 | 0 |
| **Total** | **9,643** | **383** | – | – | – | **65** | **65** | – | **149** | **149** |
| | **PAD District 5** | | | | | | | | | |
| **OPEC** | **24,164** | – | – | **1,110** | – | – | – | – | – | – |
| Algeria | – | – | – | 1,110 | – | – | – | – | – | – |
| Angola | 1,679 | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – |
| Ecuador | 4,948 | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | 8,477 | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – |
| Libya | 1,024 | – | – | – | – | – | – | – | – | – |
| Nigeria | 2,004 | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | 5,006 | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | 1,026 | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **15,480** | **1,342** | – | **2,430** | – | **404** | **404** | – | **316** | **316** |
| Argentina | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – |
| Brazil | 944 | – | – | – | – | – | – | – | – | – |
| Brunei | 2,026 | – | – | – | – | – | – | – | – | – |
| Canada | 6,804 | 1,342 | – | – | – | 87 | 87 | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – |
| Colombia | 2,338 | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – |
| Japan | – | – | – | – | – | – | – | – | 51 | 51 |
| Korea, South | – | – | – | – | – | 317 | 317 | – | 74 | 74 |
| Malaysia | – | – | – | – | – | – | – | – | 191 | 191 |
| Mexico | 477 | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Papua New Guinea | – | – | – | – | – | – | – | – | – | – |
| Peru | – | – | – | 287 | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – |
| Singapore | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – |
| Taiwan | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – |
| Other | 2,891 | 0 | – | 2,143 | – | 0 | 0 | – | 0 | 0 |
| **Total** | **39,644** | **1,416** | – | **3,540** | – | **404** | **404** | – | **316** | **316** |
| **Persian Gulf[3]** | **14,509** | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| | **PAD District 4** | | | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | – | – | **22** | – | – | **198** | – | – | – | **198** |
| Canada | – | – | – | 22 | – | – | 198 | – | – | – | 198 |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | – | 0 | – | – | 0 | – | – | – | 0 |
| **Total** | – | – | – | **22** | – | – | **198** | – | – | – | **198** |
| | **PAD District 5** | | | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | – | **1,203** | **7** | **325** | – | **246** | – | **1** | – | **247** |
| Argentina | – | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | 1,203 | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | 7 | – | – | 246 | – | 1 | – | 247 |
| China | – | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – |
| Japan | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – |
| Papua New Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Peru | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Singapore | – | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Taiwan | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | 0 | 0 | 325 | – | 0 | – | 0 | – | 0 |
| **Total** | – | – | **1,203** | **7** | **325** | – | **246** | – | **1** | – | **247** |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| | **PAD District 4** | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – |
| Other | – | – | – | – | – | – | – | – | – |
| **Total** | – | – | – | – | – | – | – | – | – |
| | **PAD District 5** | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | **2** | – | **4,244** | – | – | **122** | **151** | **273** |
| Argentina | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – |
| Canada | – | 2 | – | – | – | – | 122 | – | 122 |
| China | – | – | – | 454 | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – |
| Japan | – | – | – | 948 | – | – | – | – | – |
| Korea, South | – | – | – | 2,211 | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – |
| Papua New Guinea | – | – | – | – | – | – | – | – | – |
| Peru | – | – | – | – | – | – | – | 151 | 151 |
| Qatar | – | – | – | – | – | – | – | – | – |
| Singapore | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – |
| Taiwan | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – |
| Other | – | 0 | – | 631 | – | – | 0 | 0 | 0 |
| **Total** | – | **2** | – | **4,244** | – | – | **122** | **151** | **273** |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Petrochemical Feedstocks | | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellaneous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Naphtha | Other Oils | | | | | | | | Crude Oil | Products | Total |
| | **PAD District 4** | | | | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **–** | **–** | **–** | **–** | **57** | **–** | **1** | **875** | **10,518** | **321** | **29** | **351** |
| Canada | – | – | – | – | 57 | – | 1 | 875 | 10,518 | 321 | 29 | 351 |
| Qatar | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | – | – | 0 | – | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **–** | **–** | **–** | **–** | **57** | **–** | **1** | **875** | **10,518** | **321** | **29** | **351** |
| | **PAD District 5** | | | | | | | | | | | |
| **OPEC** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **1,184** | **25,348** | **805** | **39** | **845** |
| Algeria | – | – | – | – | – | – | – | 1,110 | 1,110 | – | 37 | 37 |
| Angola | – | – | – | – | – | – | – | – | 1,679 | 56 | – | 56 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | 4,948 | 165 | – | 165 |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | 8,477 | 283 | – | 283 |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | 1,024 | 34 | – | 34 |
| Nigeria | – | – | – | – | – | – | – | – | 2,004 | 67 | – | 67 |
| Saudi Arabia | – | – | – | – | – | – | – | – | 5,006 | 167 | – | 167 |
| United Arab Emirates | – | – | – | – | – | – | – | – | 1,026 | 34 | – | 34 |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **–** | **–** | **63** | **22** | **33** | **28** | **–** | **10,939** | **26,419** | **516** | **365** | **881** |
| Argentina | – | – | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | 1,203 | 2,147 | 31 | 40 | 72 |
| Brunei | – | – | – | – | – | – | – | – | 2,026 | 68 | – | 68 |
| Canada | – | – | – | 22 | 33 | 5 | – | 1,867 | 8,671 | 227 | 62 | 289 |
| China | – | – | 38 | – | – | – | – | 492 | 492 | – | 16 | 16 |
| Colombia | – | – | – | – | – | – | – | – | 2,338 | 78 | – | 78 |
| Finland | – | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | 1 | – | – | – | – | 1 | 1 | – | 0 | 0 |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – | – |
| Japan | – | – | – | – | – | – | – | 999 | 999 | – | 33 | 33 |
| Korea, South | – | – | – | – | – | 23 | – | 2,625 | 2,625 | – | 88 | 88 |
| Malaysia | – | – | – | – | – | – | – | 191 | 191 | – | 6 | 6 |
| Mexico | – | – | – | – | – | – | – | – | 477 | 16 | – | 16 |
| Netherlands | – | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – | – |
| Papua New Guinea | – | – | – | – | – | – | – | – | – | – | – | – |
| Peru | – | – | – | – | – | – | – | 438 | 438 | – | 15 | 15 |
| Qatar | – | – | – | – | – | – | – | – | – | – | – | – |
| Singapore | – | – | – | – | – | – | – | 325 | 325 | – | 11 | 11 |
| Sweden | – | – | – | – | – | – | – | – | – | – | – | – |
| Taiwan | – | – | 24 | – | – | – | – | 24 | 24 | – | 1 | 1 |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | 0 | 0 | 0 | 0 | – | 2,774 | 5,665 | 96 | 93 | 188 |
| **Total** | **–** | **–** | **63** | **22** | **33** | **28** | **–** | **12,123** | **51,767** | **1,321** | **404** | **1,726** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **14,509** | **484** | **–** | **484** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels)

| Country of Origin | Crude Oil[1,2] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils[1] | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| **OPEC** | **75,804** | **–** | **–** | **1,606** | **–** | **81** | **81** | **100** | **7,069** | **7,169** |
| Algeria | 6,413 | – | – | 1,201 | – | – | – | – | – | – |
| Angola | 622 | – | – | – | – | – | – | – | 483 | 483 |
| Congo (Brazzaville) | 5,537 | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – |
| Libya | 5,669 | – | – | – | – | – | – | – | – | – |
| Nigeria | 31,068 | – | – | 360 | – | – | – | – | 1,542 | 1,542 |
| Saudi Arabia | 26,495 | – | – | – | – | 81 | 81 | 100 | 2,474 | 2,574 |
| United Arab Emirates | – | – | – | – | – | – | – | – | 1,264 | 1,264 |
| Venezuela | – | – | – | 45 | – | – | – | – | 1,306 | 1,306 |
| **Non-OPEC** | **126,428** | **10,628** | **2,221** | **11,452** | **–** | **16,664** | **16,664** | **45,046** | **112,544** | **157,590** |
| Argentina | – | – | – | – | – | – | – | – | 52 | 52 |
| Aruba | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | 513 | 513 | 1,070 | 3,964 | 5,034 |
| Brazil | 546 | – | – | 288 | – | – | – | – | 12,944 | 12,944 |
| Brunei | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | 503 | – | – | – | – | – | – |
| Canada | 60,031 | 10,053 | 2,221 | 2,285 | – | 3,479 | 3,479 | 23,676 | 12,187 | 35,863 |
| Chad | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – |
| Colombia | 6,285 | – | – | – | – | – | – | – | 3,163 | 3,163 |
| Denmark | 4,411 | – | – | – | – | 1 | 1 | 9 | 349 | 358 |
| Egypt | 2,755 | – | – | – | – | 138 | 138 | – | 337 | 337 |
| Estonia | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | 1 | 1 | 107 | 6,760 | 6,867 |
| France | – | – | – | 128 | – | 4,507 | 4,507 | 1,166 | 562 | 1,728 |
| Germany | – | – | – | 222 | – | 71 | 71 | 3 | 17 | 20 |
| Guatemala | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | 164 | – | – | – | – | 15,102 | 15,102 |
| Indonesia | – | – | – | – | – | – | – | – | 566 | 566 |
| Italy | – | – | – | 68 | – | 166 | 166 | 88 | 3,252 | 3,340 |
| Korea, South | – | – | – | – | – | – | – | – | 339 | 339 |
| Latvia | – | – | – | – | – | – | – | – | 69 | 69 |
| Lithuania | – | – | – | – | – | – | – | – | 845 | 845 |
| Malaysia | – | – | – | – | – | – | – | – | 52 | 52 |
| Mexico | 498 | – | – | – | – | – | – | – | 75 | 75 |
| Netherlands | – | – | – | 292 | – | 1,987 | 1,987 | 7,265 | 13,322 | 20,587 |
| Norway | 15,207 | 192 | – | – | – | 396 | 396 | 622 | 5,531 | 6,153 |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | 837 | 6,107 | 6,944 |
| Qatar | – | – | – | – | – | – | – | – | – | – |
| Russia | 13,237 | – | – | 4,306 | – | 851 | 851 | 162 | 10,816 | 10,978 |
| Spain | 194 | – | – | 1,568 | – | 588 | 588 | 1 | 6,956 | 6,957 |
| Sweden | – | 191 | – | 39 | – | 313 | 313 | 35 | 568 | 603 |
| Syria | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | 9,213 | – | – | – | – | 3,650 | 3,650 | 9,937 | 3,478 | 13,415 |
| Vietnam | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – |
| Other | 14,051 | 192 | 0 | 1,589 | – | 3 | 3 | 68 | 5,131 | 5,199 |
| **Total** | **202,232** | **10,628** | **2,221** | **13,058** | **–** | **16,745** | **16,745** | **45,146** | **119,613** | **164,759** |
| **Persian Gulf[3]** | **26,495** | **–** | **–** | **–** | **–** | **81** | **81** | **100** | **3,738** | **3,838** |

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| **OPEC** | **–** | **–** | **–** | **–** | **–** | **–** | **1,706** | **–** | **–** | **–** | **1,706** |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | 312 | – | – | – | 312 |
| Saudi Arabia | – | – | – | – | – | – | 1,193 | – | – | – | 1,193 |
| United Arab Emirates | – | – | – | – | – | – | 200 | – | – | – | 200 |
| Venezuela | – | – | – | – | – | – | 1 | – | – | – | 1 |
| **Non-OPEC** | **–** | **–** | **–** | **1,330** | **–** | **–** | **37,391** | **645** | **766** | **481** | **39,283** |
| Argentina | – | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | 501 | – | – | – | 501 |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | 143 | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | 205 | – | – | 20,955 | 369 | 610 | 481 | 22,415 |
| Chad | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | 279 | – | – | – | 279 |
| Colombia | – | – | – | – | – | – | 5,966 | – | – | – | 5,966 |
| Denmark | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | 121 | – | – | – | – | – | – | – |
| Germany | – | – | – | 804 | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | 6,477 | – | – | – | 6,477 |
| Indonesia | – | – | – | – | – | – | 312 | – | – | – | 312 |
| Italy | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | 464 | – | – | – | 464 |
| Mexico | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | 156 | – | 156 |
| Norway | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | 2,071 | – | – | – | 2,071 |
| Russia | – | – | – | – | – | – | 366 | 276 | – | – | 642 |
| Spain | – | – | – | 57 | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | – | 0 | – | – | 0 | 0 | 0 | 0 | 0 |
| **Total** | **–** | **–** | **–** | **1,330** | **–** | **–** | **39,097** | **645** | **766** | **481** | **40,989** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **–** | **3,464** | **–** | **–** | **–** | **3,464** |

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| **OPEC** | **–** | **–** | **–** | **1,504** | **–** | **–** | **–** | **1,912** | **1,912** |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | 6 | – | – | – | – | – |
| Kuwait | – | – | – | 101 | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | 20 | – | – | – | – | – |
| Saudi Arabia | – | – | – | 618 | – | – | – | – | – |
| United Arab Emirates | – | – | – | 658 | – | – | – | 20 | 20 |
| Venezuela | – | – | – | 101 | – | – | – | 1,892 | 1,892 |
| **Non-OPEC** | **101** | **122** | **–** | **14,110** | **8** | **996** | **2,002** | **14,902** | **17,900** |
| Argentina | – | – | – | – | – | 939 | 1,102 | – | 2,041 |
| Aruba | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | 562 | 562 |
| Bahrain | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | 9 | – | – | – | 138 | 138 |
| Brunei | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – |
| Canada | – | 10 | – | 6,083 | 8 | 57 | 337 | 5,187 | 5,581 |
| Chad | – | – | – | – | – | – | – | – | – |
| China | – | – | – | 275 | – | – | – | – | – |
| Colombia | 101 | – | – | – | – | – | 40 | 2,946 | 2,986 |
| Denmark | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – |
| India | – | – | – | 613 | – | – | – | 4 | 4 |
| Indonesia | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | 6,344 | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | 20 | 867 | 887 |
| Netherlands | – | 112 | – | – | – | – | – | 610 | 610 |
| Norway | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | 484 | – | – | – | – | – |
| Russia | – | – | – | – | – | – | 99 | 4,021 | 4,120 |
| Spain | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | 286 | 286 |
| Syria | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | – | 302 | 0 | 0 | 404 | 281 | 685 |
| **Total** | **101** | **122** | **–** | **15,614** | **8** | **996** | **2,002** | **16,814** | **19,812** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **1,867** | **–** | **–** | **–** | **20** | **20** |

See footnotes at end of table.

**Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Petrochemical Feedstocks | | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellaneous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Naphtha | Other Oils | | | | | | | | Crude Oil | Products | Total |
| **OPEC** | **–** | **–** | **–** | **–** | **31** | **547** | **–** | **14,556** | **90,360** | **278** | **53** | **331** |
| Algeria | – | – | – | – | – | 410 | – | 1,611 | 8,024 | 23 | 6 | 29 |
| Angola | – | – | – | – | – | – | – | 483 | 1,105 | 2 | 2 | 4 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | 5,537 | 20 | – | 20 |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | 6 | 6 | – | 0 | 0 |
| Kuwait | – | – | – | – | – | – | – | 101 | 101 | – | 0 | 0 |
| Libya | – | – | – | – | – | – | – | – | 5,669 | 21 | – | 21 |
| Nigeria | – | – | – | – | – | – | – | 2,234 | 33,302 | 114 | 8 | 122 |
| Saudi Arabia | – | – | – | – | – | – | – | 4,466 | 30,961 | 97 | 16 | 113 |
| United Arab Emirates | – | – | – | – | – | 137 | – | 2,279 | 2,279 | – | 8 | 8 |
| Venezuela | – | – | – | – | 31 | – | – | 3,376 | 3,376 | – | 12 | 12 |
| **Non-OPEC** | **8** | **14** | **615** | **24** | **7,939** | **1,456** | **–** | **281,465** | **407,893** | **463** | **1,031** | **1,494** |
| Argentina | – | – | – | – | – | 14 | – | 2,107 | 2,107 | – | 8 | 8 |
| Aruba | – | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | 1,063 | 1,063 | – | 4 | 4 |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | 1 | – | – | – | 84 | 62 | – | 5,837 | 5,837 | – | 21 | 21 |
| Brazil | – | – | – | – | – | – | – | 13,379 | 13,925 | 2 | 49 | 51 |
| Brunei | – | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | 503 | 503 | – | 2 | 2 |
| Canada | – | 14 | 342 | 5 | 6,086 | 982 | – | 95,632 | 155,663 | 220 | 350 | 570 |
| Chad | – | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | 126 | – | – | – | – | 680 | 680 | – | 2 | 2 |
| Colombia | – | – | – | – | 39 | – | – | 12,255 | 18,540 | 23 | 45 | 68 |
| Denmark | – | – | – | – | – | – | – | 359 | 4,770 | 16 | 1 | 17 |
| Egypt | – | – | – | – | – | – | – | 475 | 3,230 | 10 | 2 | 12 |
| Estonia | – | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | 6,868 | 6,868 | – | 25 | 25 |
| France | – | – | – | – | – | 70 | – | 6,554 | 6,554 | – | 24 | 24 |
| Germany | – | – | 42 | – | – | 103 | – | 1,262 | 1,262 | – | 5 | 5 |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | 1 | – | 22,361 | 22,361 | – | 82 | 82 |
| Indonesia | – | – | 1 | – | – | – | – | 879 | 879 | – | 3 | 3 |
| Italy | – | – | – | – | – | 9 | – | 3,583 | 3,583 | – | 13 | 13 |
| Korea, South | – | – | 6 | – | – | 155 | – | 6,844 | 6,844 | – | 25 | 25 |
| Latvia | – | – | – | – | – | – | – | 69 | 69 | – | 0 | 0 |
| Lithuania | – | – | – | – | – | – | – | 845 | 845 | – | 3 | 3 |
| Malaysia | – | – | – | – | – | 3 | – | 519 | 519 | – | 2 | 2 |
| Mexico | – | – | – | – | – | – | – | 962 | 1,460 | 2 | 4 | 5 |
| Netherlands | – | – | – | – | – | 6 | – | 23,750 | 23,750 | – | 87 | 87 |
| Norway | – | – | – | – | – | – | – | 6,741 | 21,948 | 56 | 25 | 80 |
| Oman | – | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | 6,944 | 6,944 | – | 25 | 25 |
| Qatar | – | – | – | – | – | – | – | 2,555 | 2,555 | – | 9 | 9 |
| Russia | – | – | – | – | – | 38 | – | 20,935 | 34,172 | 48 | 77 | 125 |
| Spain | – | – | 7 | – | 916 | – | – | 10,093 | 10,287 | 1 | 37 | 38 |
| Sweden | – | – | – | 2 | – | 9 | – | 1,443 | 1,443 | – | 5 | 5 |
| Syria | – | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | 7 | – | – | 8 | – | – | – | 17,272 | 26,485 | 34 | 63 | 97 |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | 91 | 9 | 814 | 4 | – | 8,696 | 22,747 | 51 | 33 | 86 |
| **Total** | **8** | **14** | **615** | **24** | **7,970** | **2,003** | **–** | **296,021** | **498,253** | **741** | **1,084** | **1,825** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **137** | **–** | **9,407** | **35,902** | **97** | **34** | **132** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels)

| Country of Origin | Crude Oil[1,2] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils[1] | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **698,792** | **21,864** | **2,497** | **315** | **–** | **1** | **1** | **–** | **2,498** | **2,498** |
| Argentina | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – | – |
| Brazil | 475 | – | – | – | – | – | – | – | – | – |
| Brunei | 417 | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – |
| Canada | 696,045 | 21,864 | 2,497 | 315 | – | 1 | 1 | – | 2,498 | 2,498 |
| Chad | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – |
| Mexico | 1,855 | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | 0 | 0 | – | 0 | 0 | – | 0 | 0 |
| **Total** | **698,792** | **21,864** | **2,497** | **315** | **–** | **1** | **1** | **–** | **2,498** | **2,498** |
| **Persian Gulf[3]** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |

See footnotes at end of table.

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | – | – | **733** | – | – | **1,928** | – | **473** | **250** | **2,651** |
| Argentina | – | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | 733 | – | – | 1,928 | – | 473 | 250 | 2,651 |
| Chad | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | – | 0 | – | – | 0 | – | 0 | 0 | 0 |
| **Total** | – | – | – | **733** | – | – | **1,928** | – | **473** | **250** | **2,651** |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | **30** | – | – | **49** | – | **193** | **434** | **627** |
| Argentina | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – |
| Canada | – | 30 | – | – | 49 | – | 193 | 434 | 627 |
| Chad | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – |
| Other | – | 0 | – | – | 0 | – | 0 | 0 | 0 |
| **Total** | – | **30** | – | – | **49** | – | **193** | **434** | **627** |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Petrochemical Feedstocks | | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellaneous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Naphtha | Other Oils | | | | | | | | Crude Oil | Products | Total |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **721** | **645** | **41** | **254** | **2,444** | **1,073** | **–** | **36,443** | **735,235** | **2,560** | **133** | **2,693** |
| Argentina | – | – | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | 2 | – | 2 | 2 | – | 0 | 0 |
| Brazil | – | – | – | – | – | – | – | – | 475 | 2 | – | 2 |
| Brunei | – | – | – | – | – | – | – | – | 417 | 2 | – | 2 |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – | – |
| Canada | 721 | 645 | 41 | 237 | 2,444 | 1,064 | – | 36,417 | 732,462 | 2,550 | 133 | 2,683 |
| Chad | – | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | 3 | – | 3 | 3 | – | 0 | 0 |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | 1,855 | 7 | – | 7 |
| Netherlands | – | – | – | – | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | 4 | – | 4 | 4 | – | 0 | 0 |
| Russia | – | – | – | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | 17 | – | – | – | 17 | 17 | – | 0 | 0 |
| Syria | – | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | – | 0 | 0 | -1 | 0 | -1 |
| **Total** | **721** | **645** | **41** | **254** | **2,444** | **1,073** | **–** | **36,443** | **735,235** | **2,560** | **133** | **2,693** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **4** | **–** | **4** | **4** | **–** | **0** | **0** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels)

| Country of Origin | Crude Oil[1,2] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils[1] | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| **OPEC** | **149,872** | – | – | **23,017** | – | – | – | – | – | – |
| Algeria | – | – | – | 11,578 | – | – | – | – | – | – |
| Angola | 1,939 | – | – | 768 | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | 173 | – | – | – | – | – | – |
| Ecuador | 6,176 | – | – | 33 | – | – | – | – | – | – |
| Equatorial Guinea | 663 | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | 55,125 | – | – | 312 | – | – | – | – | – | – |
| Kuwait | 5,610 | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | 916 | – | – | – | – | – | – |
| Nigeria | 6,999 | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | 44,456 | – | – | 4,373 | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | 4,864 | – | – | – | – | – | – |
| Venezuela | 28,904 | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **415,097** | – | **1,008** | **106,915** | – | **785** | **785** | **581** | **19,017** | **19,598** |
| Argentina | 3,944 | – | – | – | – | – | – | – | 527 | 527 |
| Aruba | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | 13,647 | – | – | – | – | 311 | 311 |
| Brazil | 18,249 | – | – | 783 | – | – | – | – | 2,952 | 2,952 |
| Brunei | – | – | – | – | – | – | – | – | – | – |
| Cameroon | 1,339 | – | – | 290 | – | – | – | – | – | – |
| Canada | 138,549 | – | – | 1,542 | – | – | – | – | 9 | 9 |
| Chad | 1,901 | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | 414 | 414 |
| Colombia | 61,050 | – | – | 246 | – | – | – | – | 200 | 200 |
| Denmark | – | – | – | 320 | – | – | – | – | 70 | 70 |
| Egypt | 1,625 | – | – | 10,798 | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | 235 | – | 227 | 227 | – | 312 | 312 |
| France | – | – | 65 | 696 | – | – | – | – | 111 | 111 |
| Germany | – | – | – | 1,158 | – | 1 | 1 | – | 375 | 375 |
| Guatemala | 1,923 | – | – | – | – | – | – | – | – | – |
| India | – | – | – | 745 | – | – | – | – | 4,542 | 4,542 |
| Indonesia | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | 1,643 | – | – | – | – | 1,627 | 1,627 |
| Korea, South | – | – | – | – | – | – | – | – | 303 | 303 |
| Latvia | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | 19 | – | – | – | – | 325 | 325 |
| Malaysia | – | – | – | – | – | – | – | – | – | – |
| Mexico | 155,450 | – | 193 | – | – | – | – | – | 1,141 | 1,141 |
| Netherlands | 486 | – | – | 2,672 | – | – | – | – | 1,000 | 1,000 |
| Norway | 629 | – | – | 3,930 | – | – | – | – | 322 | 322 |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | 916 | 916 |
| Qatar | – | – | – | – | – | – | – | – | 36 | 36 |
| Russia | 9,599 | – | – | 58,045 | – | – | – | – | 317 | 317 |
| Spain | – | – | – | 934 | – | 273 | 273 | – | 553 | 553 |
| Sweden | – | – | – | 766 | – | – | – | – | 325 | 325 |
| Syria | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | 9,452 | – | – | – | – | – | – | – | 350 | 350 |
| United Kingdom | 10,765 | – | – | 1,585 | – | 284 | 284 | 581 | 767 | 1,348 |
| Vietnam | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – |
| Other | 136 | – | 750 | 6,861 | – | 0 | 0 | 0 | 1,212 | 1,212 |
| **Total** | **564,969** | – | **1,008** | **129,932** | – | **785** | **785** | **581** | **19,017** | **19,598** |
| **Persian Gulf[3]** | **105,191** | – | – | **9,549** | – | – | – | – | **36** | **36** |

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| **OPEC** | **–** | **–** | **–** | **–** | **–** | **–** | **293** | **–** | **–** | **156** | **449** |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | 156 | 156 |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | 293 | – | – | – | 293 |
| **Non-OPEC** | **214** | **652** | **–** | **235** | **–** | **–** | **223** | **–** | **261** | **880** | **1,364** |
| Argentina | 214 | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – | 396 | 396 |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | 652 | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | – | – | – | 223 | – | – | – | 223 |
| Chad | – | – | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – | – | – |
| Denmark | – | – | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | 122 | – | – | – | – | 106 | – | 106 |
| Guatemala | – | – | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | 125 | – | 125 |
| Netherlands | – | – | – | – | – | – | – | – | 30 | – | 30 |
| Norway | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | – | – | – | – | 484 | 484 |
| Spain | – | – | – | 113 | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | – | 0 | – | – | 0 | – | 0 | 0 | 0 |
| **Total** | **214** | **652** | **–** | **235** | **–** | **–** | **516** | **–** | **261** | **1,036** | **1,813** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **–** |

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| **OPEC** | **–** | **–** | **–** | **18** | **–** | **–** | **–** | **1,332** | **1,332** |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | 132 | 132 |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | 18 | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | 679 | 679 |
| United Arab Emirates | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | 521 | 521 |
| **Non-OPEC** | **–** | **59** | **–** | **12** | **4,427** | **2,480** | **1,077** | **8,632** | **12,189** |
| Argentina | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | – | – |
| Bahrain | – | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | 245 | – | 68 | 274 | 342 |
| Brunei | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | 6 | 603 | 299 | – | 651 | 950 |
| Chad | – | – | – | – | – | – | – | – | – |
| China | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | 560 | – | 566 | 1,126 |
| Denmark | – | – | – | – | – | – | – | – | – |
| Egypt | – | – | – | – | – | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – |
| France | – | – | – | – | 37 | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | – | – | – |
| India | – | – | – | – | 197 | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | 2,182 | – | – | – | – |
| Latvia | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | 6 | 228 | 749 | – | 4,511 | 5,260 |
| Netherlands | – | 59 | – | – | 13 | – | 118 | 235 | 353 |
| Norway | – | – | – | – | – | – | – | 244 | 244 |
| Oman | – | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | 13 | 872 | 100 | 2,151 | 3,123 |
| Spain | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – |
| Syria | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – |
| Other | – | 0 | – | 0 | 909 | 0 | 791 | 0 | 791 |
| **Total** | **–** | **59** | **–** | **30** | **4,427** | **2,480** | **1,077** | **9,964** | **13,521** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **18** | **–** | **–** | **–** | **679** | **679** |

See footnotes at end of table.

**Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Petrochemical Feedstocks | | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellaneous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Naphtha | Other Oils | | | | | | | | Crude Oil | Products | Total |
| **OPEC** | **–** | **–** | **–** | **–** | **–** | **713** | **–** | **25,529** | **175,401** | **549** | **94** | **642** |
| Algeria | – | – | – | – | – | – | – | 11,578 | 11,578 | – | 42 | 42 |
| Angola | – | – | – | – | – | – | – | 768 | 2,707 | 7 | 3 | 10 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | 173 | 173 | – | 1 | 1 |
| Ecuador | – | – | – | – | – | – | – | 321 | 6,497 | 23 | 1 | 24 |
| Equatorial Guinea | – | – | – | – | – | – | – | – | 663 | 2 | – | 2 |
| Gabon | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | 330 | 55,455 | 202 | 1 | 203 |
| Kuwait | – | – | – | – | – | – | – | – | 5,610 | 21 | – | 21 |
| Libya | – | – | – | – | – | – | – | 916 | 916 | – | 3 | 3 |
| Nigeria | – | – | – | – | – | – | – | – | 6,999 | 26 | – | 26 |
| Saudi Arabia | – | – | – | – | – | – | – | 5,052 | 49,508 | 163 | 19 | 181 |
| United Arab Emirates | – | – | – | – | – | 713 | – | 5,577 | 5,577 | – | 20 | 20 |
| Venezuela | – | – | – | – | – | – | – | 814 | 29,718 | 106 | 3 | 109 |
| **Non-OPEC** | **2,842** | **160** | **229** | **1,206** | **55** | **7,734** | **–** | **159,711** | **574,808** | **1,521** | **585** | **2,106** |
| Argentina | – | – | – | 768 | – | 10 | – | 1,519 | 5,463 | 14 | 6 | 20 |
| Aruba | – | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | – | – | – | – | 396 | 396 | – | 1 | 1 |
| Bahrain | – | – | – | – | – | 612 | – | 612 | 612 | – | 2 | 2 |
| Belgium | – | – | – | – | – | 45 | – | 14,003 | 14,003 | – | 51 | 51 |
| Brazil | – | 9 | – | – | – | – | – | 4,983 | 23,232 | 67 | 18 | 85 |
| Brunei | – | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | 290 | 1,629 | 5 | 1 | 6 |
| Canada | – | – | – | – | – | – | – | 3,333 | 141,882 | 508 | 12 | 520 |
| Chad | – | – | – | – | – | – | – | – | 1,901 | 7 | – | 7 |
| China | – | – | 48 | – | – | – | – | 462 | 462 | – | 2 | 2 |
| Colombia | – | – | – | – | – | – | – | 1,572 | 62,622 | 224 | 6 | 229 |
| Denmark | – | – | – | – | – | – | – | 390 | 390 | – | 1 | 1 |
| Egypt | – | – | – | – | – | – | – | 10,798 | 12,423 | 6 | 40 | 46 |
| Estonia | – | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | 15 | – | 789 | 789 | – | 3 | 3 |
| France | – | 148 | – | – | – | 56 | – | 1,113 | 1,113 | – | 4 | 4 |
| Germany | – | – | 1 | – | – | 61 | – | 1,824 | 1,824 | – | 7 | 7 |
| Guatemala | – | – | – | – | – | – | – | – | 1,923 | 7 | – | 7 |
| India | – | – | – | – | – | – | – | 5,484 | 5,484 | – | 20 | 20 |
| Indonesia | – | – | – | – | – | 676 | – | 676 | 676 | – | 2 | 2 |
| Italy | 34 | – | – | – | – | 142 | – | 3,448 | 3,448 | – | 13 | 13 |
| Korea, South | 14 | – | – | – | – | 2,939 | – | 5,438 | 5,438 | – | 20 | 20 |
| Latvia | – | – | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | 344 | 344 | – | 1 | 1 |
| Malaysia | – | – | 86 | – | – | – | – | 86 | 86 | – | 0 | 0 |
| Mexico | 1,796 | – | – | – | – | – | – | 8,749 | 164,199 | 569 | 32 | 601 |
| Netherlands | – | – | – | – | – | 26 | – | 4,165 | 4,651 | 2 | 15 | 17 |
| Norway | – | – | – | – | – | – | – | 4,496 | 5,125 | 2 | 16 | 19 |
| Oman | – | – | – | 411 | – | – | – | 411 | 411 | – | 2 | 2 |
| Portugal | – | – | – | – | – | 10 | – | 926 | 926 | – | 3 | 3 |
| Qatar | – | – | – | – | – | 2,928 | – | 2,964 | 2,964 | – | 11 | 11 |
| Russia | – | – | – | – | – | – | – | 61,982 | 71,581 | 35 | 227 | 262 |
| Spain | – | – | 1 | – | – | – | – | 1,874 | 1,874 | – | 7 | 7 |
| Sweden | – | – | – | – | – | – | – | 1,091 | 1,091 | – | 4 | 4 |
| Syria | – | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | – | 350 | 9,802 | 35 | 1 | 36 |
| United Kingdom | 233 | – | – | 16 | – | 156 | – | 3,622 | 14,387 | 39 | 13 | 53 |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – | – |
| Yemen | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | 765 | 3 | 93 | 11 | 55 | 58 | – | 11,521 | 11,657 | 1 | 44 | 44 |
| **Total** | **2,842** | **160** | **229** | **1,206** | **55** | **8,447** | **–** | **185,240** | **750,209** | **2,069** | **679** | **2,748** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **4,253** | **–** | **14,535** | **119,726** | **385** | **53** | **439** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels)

| Country of Origin | Crude Oil[1,2] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils[1] | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| | **PAD District 4** | | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **84,887** | **3,183** | – | – | – | **65** | **65** | – | **1,201** | **1,201** |
| Canada | 84,887 | 3,183 | – | – | – | 65 | 65 | – | 1,201 | 1,201 |
| Qatar | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | – | – | – | 0 | 0 | – | 0 | 0 |
| **Total** | **84,887** | **3,183** | – | – | – | **65** | **65** | – | **1,201** | **1,201** |
| | **PAD District 5** | | | | | | | | | |
| **OPEC** | **200,034** | – | – | **8,137** | – | – | – | – | – | – |
| Algeria | – | – | – | 6,655 | – | – | – | – | – | – |
| Angola | 6,729 | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – |
| Ecuador | 43,782 | – | – | 1,187 | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | 39,009 | – | – | – | – | – | – | – | – | – |
| Kuwait | 8,301 | – | – | – | – | – | – | – | – | – |
| Libya | 9,907 | – | – | 207 | – | – | – | – | – | – |
| Nigeria | 14,923 | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | 73,900 | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | 1,026 | – | – | 88 | – | – | – | – | – | – |
| Venezuela | 497 | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **149,471** | **14,363** | – | **16,116** | – | **3,951** | **3,951** | **2,255** | **9,659** | **11,914** |
| Argentina | 5,780 | 254 | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | 398 | – | – | – | – | – | – |
| Brazil | 12,488 | – | – | 84 | – | – | – | – | – | – |
| Brunei | 6,489 | – | – | – | – | – | – | – | – | – |
| Canada | 65,614 | 13,771 | – | 1,332 | – | 782 | 782 | – | 717 | 717 |
| China | – | – | – | – | – | – | – | – | 72 | 72 |
| Colombia | 26,409 | – | – | 430 | – | – | – | – | 600 | 600 |
| Finland | – | – | – | – | – | – | – | – | 164 | 164 |
| Germany | – | – | – | – | – | – | – | – | 328 | 328 |
| Indonesia | – | – | – | – | – | – | – | – | – | – |
| Japan | – | – | – | 885 | – | 610 | 610 | – | 1,898 | 1,898 |
| Korea, South | – | – | – | 149 | – | 2,253 | 2,253 | – | 1,219 | 1,219 |
| Malaysia | – | – | – | 289 | – | – | – | – | 191 | 191 |
| Mexico | 10,318 | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | 148 | 148 | 1,942 | 131 | 2,073 |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Papua New Guinea | – | – | – | – | – | – | – | – | – | – |
| Peru | – | – | – | 476 | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – |
| Singapore | – | – | – | 641 | – | – | – | – | 431 | 431 |
| Sweden | – | – | – | 737 | – | – | – | – | – | – |
| Taiwan | – | – | – | – | – | – | – | – | 327 | 327 |
| United Kingdom | – | – | – | 349 | – | 71 | 71 | – | 1,358 | 1,358 |
| Vietnam | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – |
| Other | 22,373 | 338 | – | 10,346 | – | 87 | 87 | 313 | 2,223 | 2,536 |
| **Total** | **349,505** | **14,437** | – | **24,253** | – | **3,951** | **3,951** | **2,255** | **9,659** | **11,914** |
| **Persian Gulf[3]** | **122,236** | – | – | **88** | – | – | – | – | – | – |

See footnotes at end of table.

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| | **PAD District 4** | | | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | – | – | **141** | – | – | **1,014** | – | – | – | **1,014** |
| Canada | – | – | – | 141 | – | – | 1,014 | – | – | – | 1,014 |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | – | 0 | – | – | 0 | – | – | – | 0 |
| **Total** | – | – | – | **141** | – | – | **1,014** | – | – | – | **1,014** |
| | **PAD District 5** | | | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | – | **3,464** | **399** | **4,263** | – | **3,679** | – | **9** | – | **3,688** |
| Argentina | – | – | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | 3,464 | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | – | – | 77 | – | – | 3,161 | – | 9 | – | 3,170 |
| China | – | – | – | – | – | – | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – |
| Japan | – | – | – | – | – | – | – | – | – | – | – |
| Korea, South | – | – | – | 293 | – | – | 518 | – | – | – | 518 |
| Malaysia | – | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – | – | – | – |
| Papua New Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Peru | – | – | – | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Singapore | – | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Taiwan | – | – | – | – | – | – | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | 0 | 29 | 4,263 | – | 0 | – | 0 | – | 0 |
| **Total** | – | – | **3,464** | **399** | **4,263** | – | **3,679** | – | **9** | – | **3,688** |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Less than 0.31 % sulfur | 0.31 to 1.00 % sulfur | Greater than 1.00 % sulfur | Total |
| | **PAD District 4** | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | **17** | – | – | – | – | – | **97** | **97** |
| Canada | – | 17 | – | – | – | – | – | 97 | 97 |
| Qatar | – | – | – | – | – | – | – | – | – |
| Other | – | 0 | – | – | – | – | – | 0 | 0 |
| **Total** | – | **17** | – | – | – | – | – | **97** | **97** |
| | **PAD District 5** | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | **150** | **150** |
| Algeria | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | 150 | 150 |
| Iran | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | – | **30** | – | **30,437** | – | **338** | **1,806** | **2,813** | **4,957** |
| Argentina | – | – | – | – | – | – | – | – | – |
| Aruba | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | – | – | – | – | – | – |
| Brunei | – | – | – | – | – | – | – | – | – |
| Canada | – | 20 | – | 36 | – | – | 1,806 | 449 | 2,255 |
| China | – | – | – | 1,009 | – | – | – | – | – |
| Colombia | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – | – |
| Japan | – | – | – | 5,032 | – | – | – | – | – |
| Korea, South | – | 10 | – | 19,196 | – | – | – | – | – |
| Malaysia | – | – | – | – | – | – | – | – | – |
| Mexico | – | – | – | – | – | – | – | 1,435 | 1,435 |
| Netherlands | – | – | – | – | – | – | – | 80 | 80 |
| Oman | – | – | – | – | – | – | – | – | – |
| Papua New Guinea | – | – | – | – | – | – | – | – | – |
| Peru | – | – | – | – | – | – | – | 656 | 656 |
| Qatar | – | – | – | – | – | – | – | – | – |
| Singapore | – | – | – | 1,176 | – | 338 | – | – | 338 |
| Sweden | – | – | – | – | – | – | – | – | – |
| Taiwan | – | – | – | 190 | – | – | – | – | – |
| United Kingdom | – | – | – | – | – | – | – | – | – |
| Vietnam | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – |
| Other | – | 0 | – | 3,798 | – | 0 | 0 | 193 | 193 |
| **Total** | – | **30** | – | **30,437** | – | **338** | **1,806** | **2,963** | **5,107** |
| **Persian Gulf**[3] | – | – | – | – | – | – | – | – | – |

See footnotes at end of table.

**Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-September 2019**
(Thousand Barrels) — Continued

| Country of Origin | Petrochemical Feedstocks | | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellaneous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Naphtha | Other Oils | | | | | | | | Crude Oil | Products | Total |
| | **PAD District 4** | | | | | | | | | | | |
| **OPEC** | – | – | – | – | – | – | – | – | – | – | – | – |
| Algeria | – | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | – | – | – | – | – | – | – | – | – | – |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **–** | **–** | **–** | **–** | **259** | **1** | **9** | **5,987** | **90,874** | **311** | **22** | **333** |
| Canada | – | – | – | – | 259 | 1 | 9 | 5,987 | 90,874 | 311 | 22 | 333 |
| Qatar | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | – | – | – | – | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **–** | **–** | **–** | **–** | **259** | **1** | **9** | **5,987** | **90,874** | **311** | **22** | **333** |
| | **PAD District 5** | | | | | | | | | | | |
| **OPEC** | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **8,361** | **208,395** | **733** | **31** | **763** |
| Algeria | – | – | – | – | – | – | – | 6,655 | 6,655 | – | 24 | 24 |
| Angola | – | – | – | – | – | – | – | – | 6,729 | 25 | – | 25 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | – | 1,337 | 45,119 | 160 | 5 | 165 |
| Iran | – | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – | 39,009 | 143 | – | 143 |
| Kuwait | – | – | – | – | – | – | – | – | 8,301 | 30 | – | 30 |
| Libya | – | – | – | – | – | – | – | 207 | 10,114 | 36 | 1 | 37 |
| Nigeria | – | – | – | – | – | – | – | – | 14,923 | 55 | – | 55 |
| Saudi Arabia | – | – | – | – | – | – | – | – | 73,900 | 271 | – | 271 |
| United Arab Emirates | – | – | – | – | – | – | – | 88 | 1,114 | 4 | 0 | 4 |
| Venezuela | – | – | – | – | – | – | – | – | 497 | 2 | – | 2 |
| **Non-OPEC** | **269** | **–** | **480** | **227** | **922** | **558** | **–** | **96,038** | **245,509** | **548** | **352** | **899** |
| Argentina | – | – | – | – | – | – | – | 254 | 6,034 | 21 | 1 | 22 |
| Aruba | – | – | – | – | – | – | – | – | – | – | – | – |
| Australia | – | – | – | – | – | – | – | 398 | 398 | – | 1 | 1 |
| Brazil | – | – | – | – | – | – | – | 3,548 | 16,036 | 46 | 13 | 59 |
| Brunei | – | – | – | – | – | – | – | – | 6,489 | 24 | – | 24 |
| Canada | – | – | – | 227 | 727 | 65 | – | 23,179 | 88,793 | 240 | 85 | 325 |
| China | – | – | 406 | – | – | – | – | 1,487 | 1,487 | – | 5 | 5 |
| Colombia | – | – | – | – | – | – | – | 1,030 | 27,439 | 97 | 4 | 101 |
| Finland | – | – | – | – | – | – | – | 164 | 164 | – | 1 | 1 |
| Germany | – | – | 1 | – | – | – | – | 329 | 329 | – | 1 | 1 |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – | – |
| Japan | – | – | 47 | – | – | – | – | 8,472 | 8,472 | – | 31 | 31 |
| Korea, South | – | – | – | – | 130 | 91 | – | 23,859 | 23,859 | – | 87 | 87 |
| Malaysia | – | – | 2 | – | 65 | – | – | 547 | 547 | – | 2 | 2 |
| Mexico | – | – | – | – | – | – | – | 1,435 | 11,753 | 38 | 5 | 43 |
| Netherlands | – | – | – | – | – | – | – | 2,301 | 2,301 | – | 8 | 8 |
| Oman | – | – | – | – | – | – | – | – | – | – | – | – |
| Papua New Guinea | – | – | – | – | – | – | – | – | – | – | – | – |
| Peru | – | – | – | – | – | – | – | 1,132 | 1,132 | – | 4 | 4 |
| Qatar | – | – | – | – | – | – | – | – | – | – | – | – |
| Singapore | – | – | – | – | – | – | – | 6,849 | 6,849 | – | 25 | 25 |
| Sweden | – | – | – | – | – | – | – | 737 | 737 | – | 3 | 3 |
| Taiwan | 269 | – | 24 | – | – | – | – | 810 | 810 | – | 3 | 3 |
| United Kingdom | – | – | – | – | – | – | – | 1,778 | 1,778 | – | 7 | 7 |
| Vietnam | – | – | – | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | – | – | – | – | – |
| Other | 0 | – | 0 | 0 | 0 | 402 | – | 17,729 | 40,102 | 82 | 66 | 147 |
| **Total** | **269** | **–** | **480** | **227** | **922** | **558** | **–** | **104,399** | **453,904** | **1,280** | **382** | **1,663** |
| **Persian Gulf**[3] | **–** | **–** | **–** | **–** | **–** | **–** | **–** | **88** | **122,324** | **448** | **0** | **448** |

– = No Data Reported.
1 Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.
2 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
3 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

**Table 49. Exports of Crude Oil and Petroleum Products by PAD District, September 2019**
(Thousand Barrels)

| Commodity | PAD Districts | | | | | U.S. Total | |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | Total | Daily Average |
| **Crude Oil**[1] | **1,455** | **5,268** | **83,507** | **–** | **2,526** | **92,755** | **3,092** |
| **Hydrocarbon Gas Liquids** | **8,041** | **7,558** | **38,642** | **97** | **1,418** | **55,757** | **1,859** |
| Natural Gas Liquids | 8,041 | 7,558 | 38,642 | 97 | 1,418 | 55,757 | 1,859 |
| Ethane | 637 | 2,646 | 4,110 | – | 0 | 7,393 | 246 |
| Propane | 5,639 | 83 | 26,471 | 0 | 860 | 33,053 | 1,102 |
| Normal Butane | 1,554 | 71 | 7,825 | 1 | 517 | 9,968 | 332 |
| Isobutane | 1 | 1 | 170 | – | 1 | 172 | 6 |
| Natural Gasoline | 211 | 4,757 | 66 | 96 | 40 | 5,170 | 172 |
| Refinery Olefins | – | – | – | – | – | – | – |
| Ethylene | – | – | – | – | – | – | – |
| Propylene | – | – | – | – | – | – | – |
| Normal Butylene | – | – | – | – | – | – | – |
| Isobutylene | – | – | – | – | – | – | – |
| **Other Liquids** | **79** | **3,230** | **9,099** | **0** | **387** | **12,795** | **426** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | 49 | 858 | 3,864 | 0 | 361 | 5,131 | 171 |
| Hydrogen | – | – | – | – | – | – | – |
| Oxygenates (excluding Fuel Ethanol) | 0 | 2 | 2,351 | 0 | 0 | 2,354 | 78 |
| Methyl Tertiary Butyl Ether (MTBE) | – | – | 1,353 | – | – | 1,353 | 45 |
| Other Oxygenates | 0 | 2 | 997 | 0 | 0 | 1,000 | 33 |
| Renewable Fuels (including Fuel Ethanol) | 48 | 856 | 1,513 | – | 361 | 2,778 | 93 |
| Fuel Ethanol | 47 | 731 | 1,500 | – | 261 | 2,540 | 85 |
| Biodiesel | 1 | 124 | 13 | – | 100 | 238 | 8 |
| Other Renewable Diesel | – | – | – | – | – | – | – |
| Other Renewable Fuels | – | – | – | – | – | – | – |
| Other Hydrocarbons | – | – | – | – | – | – | – |
| Unfinished Oils | 23 | 2,269 | 4,583 | 0 | 22 | 6,897 | 230 |
| Naphthas and Lighter | 10 | 2,264 | 4,485 | 0 | 19 | 6,779 | 226 |
| Kerosene and Light Gas Oils | 13 | 5 | 98 | – | 2 | 117 | 4 |
| Heavy Gas Oils | – | – | – | – | – | – | – |
| Residuum | – | – | – | – | – | – | – |
| Motor Gasoline Blend.Comp. (MGBC) | 7 | 103 | 653 | 0 | 4 | 766 | 26 |
| Reformulated | 2 | – | 18 | – | 3 | 23 | 1 |
| Conventional | 5 | 103 | 634 | 0 | 1 | 743 | 25 |
| Aviation Gasoline Blend. Comp. | – | – | – | – | – | – | – |
| **Finished Petroleum Products** | **6,196** | **1,879** | **83,178** | **32** | **10,107** | **101,392** | **3,380** |
| Finished Motor Gasoline | 1,378 | 323 | 20,991 | 0 | 1,058 | 23,750 | 792 |
| Reformulated | – | – | – | – | – | – | – |
| Conventional | 1,378 | 323 | 20,991 | 0 | 1,058 | 23,750 | 792 |
| Finished Aviation Gasoline | – | – | – | – | – | – | – |
| Kerosene-Type Jet Fuel | 782 | 52 | 6,076 | – | 789 | 7,698 | 257 |
| Kerosene | 1 | 0 | 212 | – | 0 | 213 | 7 |
| Distillate Fuel Oil | 1,664 | 393 | 36,486 | 12 | 4,338 | 42,892 | 1,430 |
| 15 ppm sulfur and under | 814 | 1 | 31,878 | – | 2,222 | 34,915 | 1,164 |
| Greater than 15 ppm to 500 ppm sulfur | 364 | 182 | 2,210 | 12 | 148 | 2,915 | 97 |
| Greater than 500 ppm sulfur | 486 | 210 | 2,398 | – | 1,968 | 5,062 | 169 |
| Residual Fuel Oil | 1,055 | 122 | 4,945 | 9 | 960 | 7,091 | 236 |
| Naphtha for Petro. Feed. Use | – | – | – | – | – | – | – |
| Other Oils for Petro. Feed. Use | – | – | – | – | – | – | – |
| Special Naphthas | – | – | – | – | – | – | – |
| Lubricants | 304 | 188 | 2,015 | 6 | 282 | 2,795 | 93 |
| Waxes | 46 | 33 | 30 | 0 | 5 | 114 | 4 |
| Petroleum Coke | 831 | 561 | 11,959 | – | 2,636 | 15,987 | 533 |
| Asphalt and Road Oil | 118 | 205 | 444 | 4 | 39 | 810 | 27 |
| Miscellaneous Products | 18 | 3 | 20 | – | 0 | 40 | 1 |
| **Total** | **15,771** | **17,934** | **214,425** | **130** | **14,438** | **262,698** | **8,757** |

– = No Data Reported.
[1] On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
Note: Totals may not equal sum of components due to independent rounding.
Sources: U.S. Census Bureau and EIA estimates.

**Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-September 2019**
(Thousand Barrels)

| Commodity | PAD Districts | | | | | U.S. Total | |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | Total | Daily Average |
| **Crude Oil**[1] | **3,559** | **44,048** | **723,540** | **–** | **6,377** | **777,524** | **2,848** |
| **Hydrocarbon Gas Liquids** | **55,614** | **65,569** | **342,315** | **1,835** | **13,405** | **478,738** | **1,754** |
| Natural Gas Liquids | 55,614 | 65,569 | 342,315 | 1,835 | 13,405 | 478,738 | 1,754 |
| Ethane | 9,427 | 24,654 | 40,239 | 0 | 3 | 74,323 | 272 |
| Propane | 33,565 | 881 | 244,509 | 3 | 8,214 | 286,247 | 1,049 |
| Normal Butane | 11,399 | 1,452 | 56,934 | 49 | 5,049 | 74,609 | 273 |
| Isobutane | 9 | 7 | 1,407 | – | 6 | 1,424 | 5 |
| Natural Gasoline | 1,256 | 38,583 | 331 | 1,782 | 182 | 42,134 | 154 |
| Refinery Olefins | – | – | – | – | – | – | – |
| Ethylene | – | – | – | – | – | – | – |
| Propylene | – | – | – | – | – | – | – |
| Normal Butylene | – | – | – | – | – | – | – |
| Isobutylene | – | – | – | – | – | – | – |
| **Other Liquids** | **1,586** | **22,899** | **105,419** | **25** | **5,111** | **135,039** | **495** |
| Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons | 1,187 | 6,553 | 37,187 | 5 | 2,537 | 47,470 | 174 |
| Hydrogen | – | – | – | – | – | – | – |
| Oxygenates (excluding Fuel Ethanol) | 7 | 15 | 18,596 | 0 | 5 | 18,622 | 68 |
| Methyl Tertiary Butyl Ether (MTBE) | 0 | 0 | 10,826 | – | 0 | 10,826 | 40 |
| Other Oxygenates | 7 | 15 | 7,770 | 0 | 5 | 7,796 | 29 |
| Renewable Fuels (including Fuel Ethanol) | 1,180 | 6,539 | 18,591 | 5 | 2,532 | 28,848 | 106 |
| Fuel Ethanol | 1,087 | 5,206 | 18,316 | 0 | 1,825 | 26,434 | 97 |
| Biodiesel | 93 | 1,333 | 275 | 5 | 707 | 2,414 | 9 |
| Other Renewable Diesel | – | – | – | – | – | – | – |
| Other Renewable Fuels | – | – | – | – | – | – | – |
| Other Hydrocarbons | – | – | – | – | – | – | – |
| Unfinished Oils | 241 | 14,954 | 45,967 | 19 | 1,521 | 62,701 | 230 |
| Naphthas and Lighter | 116 | 14,891 | 44,668 | 1 | 1,459 | 61,137 | 224 |
| Kerosene and Light Gas Oils | 124 | 63 | 1,298 | 17 | 61 | 1,564 | 6 |
| Heavy Gas Oils | – | – | – | – | – | – | – |
| Residuum | – | – | – | – | – | – | – |
| Motor Gasoline Blend.Comp. (MGBC) | 158 | 1,391 | 22,265 | 1 | 1,052 | 24,868 | 91 |
| Reformulated | 12 | – | 136 | – | 15 | 162 | 1 |
| Conventional | 146 | 1,391 | 22,129 | 1 | 1,038 | 24,705 | 90 |
| Aviation Gasoline Blend. Comp. | – | – | – | – | – | – | – |
| **Finished Petroleum Products** | **38,293** | **11,242** | **747,999** | **200** | **95,334** | **893,068** | **3,271** |
| Finished Motor Gasoline | 4,030 | 1,457 | 194,517 | 9 | 10,246 | 210,259 | 770 |
| Reformulated | – | – | – | – | – | – | – |
| Conventional | 4,030 | 1,457 | 194,517 | 9 | 10,246 | 210,259 | 770 |
| Finished Aviation Gasoline | – | – | – | – | – | – | – |
| Kerosene-Type Jet Fuel | 4,906 | 450 | 47,221 | – | 6,570 | 59,147 | 217 |
| Kerosene | 281 | 5 | 481 | – | 10 | 776 | 3 |
| Distillate Fuel Oil | 11,670 | 2,195 | 320,019 | 27 | 35,710 | 369,621 | 1,354 |
| 15 ppm sulfur and under | 7,715 | 93 | 264,579 | 15 | 24,003 | 296,404 | 1,086 |
| Greater than 15 ppm to 500 ppm sulfur | 2,722 | 872 | 24,827 | 12 | 4,574 | 33,007 | 121 |
| Greater than 500 ppm sulfur | 1,234 | 1,230 | 30,613 | – | 7,133 | 40,211 | 147 |
| Residual Fuel Oil | 9,429 | 1,333 | 47,829 | 72 | 8,189 | 66,852 | 245 |
| Naphtha for Petro. Feed. Use | – | – | – | – | – | – | – |
| Other Oils for Petro. Feed. Use | – | – | – | – | – | – | – |
| Special Naphthas | – | – | – | – | – | – | – |
| Lubricants | 2,009 | 1,714 | 23,156 | 64 | 2,704 | 29,646 | 109 |
| Waxes | 503 | 301 | 228 | 2 | 47 | 1,081 | 4 |
| Petroleum Coke | 4,545 | 2,619 | 109,597 | 1 | 31,338 | 148,099 | 542 |
| Asphalt and Road Oil | 797 | 1,147 | 4,667 | 22 | 518 | 7,150 | 26 |
| Miscellaneous Products | 123 | 23 | 283 | 4 | 2 | 435 | 2 |
| **Total** | **99,053** | **143,758** | **1,919,272** | **2,060** | **120,227** | **2,284,369** | **8,368** |

– = No Data Reported.
[1] On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
Note: Totals may not equal sum of components due to independent rounding.
Sources: U.S. Census Bureau and EIA estimates.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2019**
(Thousand Barrels)

| Destination | Crude Oil[1] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| Argentina | – | – | – | 234 | – | – | – | – | – | – |
| Australia | 2,278 | 575 | – | 1 | – | – | – | 1 | – | 1 |
| Bahamas | – | 40 | – | 1 | – | 93 | 93 | – | – | – |
| Bahrain | – | – | – | – | – | 1 | 1 | – | – | – |
| Belgium | – | – | – | 14 | – | – | – | – | – | – |
| Belize | – | – | – | – | – | – | – | – | – | – |
| Brazil | 1,149 | 548 | – | 1,027 | – | 1,820 | 1,820 | – | – | – |
| Canada | 12,998 | 7,898 | – | 2,280 | – | 1,731 | 1,731 | – | 104 | 104 |
| Cayman Islands | – | 0 | – | – | – | 27 | 27 | 0 | 0 | 0 |
| Chile | 722 | 837 | – | 9 | – | 130 | 130 | – | – | – |
| China | 6,034 | 1,494 | – | 10 | – | 4 | 4 | 0 | – | 0 |
| Colombia | 501 | 0 | – | 1,667 | – | 943 | 943 | – | – | – |
| Costa Rica | – | 152 | – | 1 | – | 305 | 305 | – | – | – |
| Denmark | 573 | – | – | – | – | – | – | – | – | – |
| Dominican Republic | – | 1,230 | – | – | – | 274 | 274 | – | – | – |
| Ecuador | – | 877 | – | – | – | 827 | 827 | – | – | – |
| Egypt | – | 738 | – | – | – | – | – | – | – | – |
| El Salvador | – | 237 | – | 1 | – | 406 | 406 | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – |
| France | 2,179 | 1,173 | – | 12 | – | 1 | 1 | – | – | – |
| Germany | 1,242 | – | – | 5 | – | – | – | – | – | – |
| Ghana | – | – | – | – | – | – | – | – | – | – |
| Gibraltar | – | 534 | – | – | – | – | – | – | – | – |
| Greece | – | – | – | – | – | – | – | – | – | – |
| Guatemala | – | 206 | – | 10 | – | 1,378 | 1,378 | – | 90 | 90 |
| Honduras | – | 350 | – | 2 | – | 397 | 397 | – | – | – |
| Hong Kong | – | – | – | 0 | – | – | – | – | 1 | 1 |
| India | 7,443 | 1,587 | – | 8 | – | – | – | – | – | – |
| Indonesia | – | 4,234 | – | – | – | – | – | – | – | – |
| Ireland | 1,184 | – | – | – | – | – | – | – | – | – |
| Israel | 697 | 0 | – | – | – | – | – | – | – | – |
| Italy | 4,158 | – | – | – | – | – | – | – | 0 | 0 |
| Jamaica | – | 49 | – | – | – | 411 | 411 | – | 0 | 0 |
| Japan | 2,916 | 13,728 | – | 590 | – | 0 | 0 | 0 | – | 0 |
| Korea, South | 15,544 | 2,175 | – | 347 | – | 1 | 1 | 3 | 0 | 3 |
| Lebanon | – | – | – | – | – | – | – | – | – | – |
| Mexico | – | 4,686 | – | 384 | – | 12,914 | 12,914 | 18 | 477 | 495 |
| Montenegro | – | – | – | – | – | – | – | – | – | – |
| Morocco | – | 982 | – | – | – | – | – | – | – | – |
| Mozambique | – | – | – | – | – | – | – | – | – | – |
| Netherlands | 10,021 | 1,190 | – | 16 | – | – | – | – | – | – |
| New Zealand | – | – | – | – | – | – | – | – | – | – |
| Nicaragua | 385 | – | – | – | – | 179 | 179 | – | – | – |
| Nigeria | – | 480 | – | – | – | 320 | 320 | – | – | – |
| Norway | – | 1,054 | – | – | – | – | – | – | – | – |
| Pakistan | – | – | – | – | – | – | – | – | – | – |
| Panama | 498 | 0 | – | 0 | – | 752 | 752 | – | 0 | 0 |
| Peru | 2,416 | 240 | – | 3 | – | 424 | 424 | – | 66 | 66 |
| Philippines | 280 | 549 | – | 0 | – | – | – | – | – | – |
| Portugal | – | 923 | – | – | – | – | – | – | – | – |
| Puerto Rico | – | 7 | – | 0 | – | 2 | 2 | – | 2 | 2 |
| Romania | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | – | – | – | – | – |
| Serbia (Excludes Kosovo) | – | – | – | – | – | – | – | – | – | – |
| Singapore | 1,589 | 1,127 | – | 0 | – | – | – | – | – | – |
| South Africa | – | 230 | – | – | – | – | – | – | 0 | 0 |
| Spain | 600 | 1,128 | – | – | – | – | – | – | – | – |
| Switzerland | – | – | – | – | – | – | – | – | – | – |
| Taiwan | 4,787 | 2,292 | – | 267 | – | 0 | 0 | – | – | – |
| Thailand | 3,895 | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | 0 | – | 0 | – | 270 | 270 | – | – | – |
| Turkey | – | 559 | – | – | – | – | – | – | – | – |
| United Arab Emirates | 1,410 | 1 | – | 0 | – | 0 | 0 | – | – | – |
| United Kingdom | 6,570 | 680 | – | 0 | – | 0 | 0 | – | – | – |
| Venezuela | – | 0 | – | 0 | – | 2 | 2 | 1 | – | 1 |
| Other | 686 | 967 | – | 8 | – | 138 | 138 | – | 3 | 3 |
| **Total** | 92,755 | 55,757 | – | 6,897 | – | 23,750 | 23,750 | 23 | 743 | 766 |

See footnotes at end of table.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2019**
(Thousand Barrels) — Continued

| Destination | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| Argentina | – | – | – | – | – | – | 522 | – | – | – | 522 |
| Australia | – | 0 | 0 | – | – | – | 3 | – | – | – | 3 |
| Bahamas | – | – | 0 | – | – | – | 409 | – | – | – | 409 |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | 7 | 0 | – | 0 | – | – | – | – | 287 | – | 287 |
| Belize | – | – | – | – | – | – | 10 | 57 | – | – | 67 |
| Brazil | – | 0 | 419 | – | – | – | 8,652 | – | 620 | – | 9,272 |
| Canada | – | 1 | 771 | 224 | – | – | 1 | 371 | 233 | – | 606 |
| Cayman Islands | – | – | – | – | – | – | 75 | – | – | – | 75 |
| Chile | 415 | – | 1 | – | – | – | 3,443 | 310 | – | – | 3,753 |
| China | – | 1 | 0 | – | – | – | 1 | – | – | – | 1 |
| Colombia | – | – | 55 | – | – | – | 1,120 | – | – | – | 1,120 |
| Costa Rica | – | – | 0 | – | – | – | 533 | – | – | – | 533 |
| Denmark | – | – | – | – | – | – | – | – | – | – | – |
| Dominican Republic | – | – | 0 | – | – | – | 1,657 | – | – | – | 1,657 |
| Ecuador | – | – | – | – | – | – | 519 | 260 | 818 | – | 1,597 |
| Egypt | – | – | – | – | – | – | – | – | – | – | – |
| El Salvador | – | – | – | – | – | – | – | 465 | – | – | 465 |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| France | – | 0 | – | – | – | – | – | – | – | – | – |
| Germany | 0 | 0 | 0 | 0 | – | – | – | – | – | – | – |
| Ghana | – | – | – | – | – | – | – | – | – | – | – |
| Gibraltar | – | – | – | – | – | – | 1,538 | 105 | – | – | 1,643 |
| Greece | – | – | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | 1,204 | 119 | – | – | 1,323 |
| Honduras | – | – | – | – | – | – | 314 | 219 | – | – | 533 |
| Hong Kong | – | 0 | – | – | – | – | – | – | – | – | – |
| India | – | 0 | 0 | – | – | – | 0 | – | – | – | 0 |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – |
| Ireland | – | – | 0 | – | – | – | – | – | – | – | – |
| Israel | – | 0 | – | – | – | – | 0 | – | – | – | 0 |
| Italy | – | – | 0 | – | – | – | 32 | – | – | – | 32 |
| Jamaica | – | – | 26 | – | – | – | 181 | – | 19 | – | 200 |
| Japan | – | 996 | 0 | – | – | – | 1 | – | – | – | 1 |
| Korea, South | – | 0 | 212 | – | – | – | 2 | – | – | – | 2 |
| Lebanon | – | – | – | – | – | – | 535 | – | – | – | 535 |
| Mexico | 677 | 0 | 62 | 0 | – | – | 7,559 | 1 | 5 | – | 7,564 |
| Montenegro | – | – | – | – | – | – | – | – | – | – | – |
| Morocco | – | – | – | – | – | – | 1,087 | – | – | – | 1,087 |
| Mozambique | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | – | 1 | 146 | – | – | – | 759 | 310 | 199 | – | 1,268 |
| New Zealand | – | – | 0 | 0 | – | – | – | – | – | – | – |
| Nicaragua | – | – | – | – | – | – | – | 218 | – | – | 218 |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Norway | – | – | 76 | – | – | – | – | – | – | – | – |
| Pakistan | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Panama | – | – | 0 | – | – | – | 1,352 | 113 | 697 | – | 2,162 |
| Peru | – | – | 192 | 13 | – | – | 1,556 | – | – | – | 1,556 |
| Philippines | – | 0 | 163 | – | – | – | 0 | – | – | – | 0 |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Puerto Rico | – | 0 | 151 | – | – | – | 1 | – | – | – | 1 |
| Romania | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | 13 | – | – | – | – | – | – | – | – |
| Serbia (Excludes Kosovo) | – | – | – | – | – | – | – | – | – | – | – |
| Singapore | 86 | 0 | 1 | 1 | – | – | 211 | – | 948 | – | 1,159 |
| South Africa | – | – | – | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – | – |
| Switzerland | – | – | 1 | – | – | – | – | – | – | – | – |
| Taiwan | – | 0 | 0 | – | – | – | – | – | – | – | – |
| Thailand | – | 0 | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | 0 | 315 | 270 | – | 585 |
| Turkey | – | – | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | 159 | – | – | – | 0 | – | – | – | 0 |
| United Kingdom | – | 0 | 43 | – | – | – | 896 | – | – | – | 896 |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| Other | 168 | 1 | 49 | – | – | – | 742 | 52 | 966 | – | 1,760 |
| **Total** | 1,353 | 1,000 | 2,540 | 238 | – | – | 34,915 | 2,915 | 5,062 | – | 42,892 |

See footnotes at end of table.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2019**
(Thousand Barrels) — Continued

| Destination | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | Petrochemical Feedstocks | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Naphtha | Other Oils |
| Argentina | – | – | – | 25 | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | 51 | – | 260 | – | – |
| Bahrain | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – |
| Belize | – | – | – | 16 | – | – | – | – |
| Brazil | – | – | – | 688 | – | – | – | – |
| Canada | 212 | – | – | 1,557 | – | 332 | – | – |
| Cayman Islands | 0 | – | – | 13 | – | – | – | – |
| Chile | – | – | – | 0 | – | – | – | – |
| China | 0 | – | – | 0 | – | 1 | – | – |
| Colombia | – | – | – | 120 | – | – | – | – |
| Costa Rica | 0 | – | – | 70 | – | 0 | – | – |
| Denmark | – | – | – | – | – | – | – | – |
| Dominican Republic | 0 | – | – | 123 | – | – | – | – |
| Ecuador | – | – | – | – | – | 214 | – | – |
| Egypt | – | – | – | – | – | – | – | – |
| El Salvador | 0 | – | – | 81 | – | 0 | – | – |
| Finland | – | – | – | – | – | – | – | – |
| France | 0 | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – |
| Ghana | – | – | – | – | – | – | – | – |
| Gibraltar | – | – | – | – | – | 180 | – | – |
| Greece | – | – | – | – | – | – | – | – |
| Guatemala | 0 | – | – | 145 | – | 28 | – | – |
| Honduras | – | – | – | 52 | – | 255 | – | – |
| Hong Kong | – | – | – | – | – | – | – | – |
| India | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – |
| Ireland | – | – | – | – | – | – | – | – |
| Israel | 0 | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – |
| Jamaica | 0 | – | – | 92 | – | 205 | – | – |
| Japan | 0 | – | – | – | – | – | – | – |
| Korea, South | – | – | – | – | – | – | – | – |
| Lebanon | – | – | – | – | – | 474 | – | – |
| Mexico | 0 | – | – | 1,404 | – | 1,495 | – | – |
| Montenegro | – | – | – | – | – | – | – | – |
| Morocco | – | – | – | – | – | – | – | – |
| Mozambique | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | 1,270 | – | 337 | – | – |
| New Zealand | – | – | – | – | – | – | – | – |
| Nicaragua | 0 | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – |
| Pakistan | – | – | – | – | – | – | – | – |
| Panama | 0 | – | – | 307 | – | 1,199 | – | – |
| Peru | 0 | – | – | – | – | – | – | – |
| Philippines | – | – | – | – | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – |
| Puerto Rico | – | – | – | – | – | – | – | – |
| Romania | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | 0 | – | – |
| Serbia (Excludes Kosovo) | – | – | – | – | – | – | – | – |
| Singapore | – | – | – | – | – | 1,377 | – | – |
| South Africa | – | – | – | 318 | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – |
| Switzerland | – | – | – | – | – | – | – | – |
| Taiwan | – | – | – | – | – | 0 | – | – |
| Thailand | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | 468 | – | – | – | – |
| Turkey | – | – | – | – | – | – | – | – |
| United Arab Emirates | 0 | – | – | – | – | 0 | – | – |
| United Kingdom | 0 | – | – | 640 | – | 150 | – | – |
| Venezuela | – | – | – | – | – | – | – | – |
| Other | 1 | – | – | 258 | – | 584 | – | – |
| **Total** | 213 | – | – | 7,698 | – | 7,091 | – | – |

See footnotes at end of table.

**Table 51. Exports of Crude Oil and Petroleum Products by Destination, September 2019**
(Thousand Barrels) — Continued

| Destination | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellanous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Crude Oil | Products | Total |
| Argentina | 0 | – | 0 | 58 | 0 | 840 | 840 | – | 28 | 28 |
| Australia | 0 | 193 | 0 | 4 | 1 | 778 | 3,056 | 76 | 26 | 102 |
| Bahamas | – | – | 2 | 3 | – | 858 | 858 | – | 29 | 29 |
| Bahrain | – | – | – | 0 | – | 1 | 1 | – | 0 | 0 |
| Belgium | – | 179 | 0 | 405 | 1 | 893 | 893 | – | 30 | 30 |
| Belize | – | – | – | 1 | – | 84 | 84 | – | 3 | 3 |
| Brazil | 0 | 2,378 | – | 238 | 1 | 16,390 | 17,539 | 38 | 546 | 585 |
| Canada | 76 | 893 | 329 | 253 | 11 | 17,277 | 30,275 | 433 | 576 | 1,009 |
| Cayman Islands | – | – | 1 | 1 | – | 116 | 116 | – | 4 | 4 |
| Chile | 1 | – | – | 55 | 0 | 5,201 | 5,923 | 24 | 173 | 197 |
| China | 1 | 1,179 | 2 | 13 | 1 | 2,706 | 8,740 | 201 | 90 | 291 |
| Colombia | 0 | 0 | 0 | 44 | 0 | 3,951 | 4,451 | 17 | 132 | 148 |
| Costa Rica | 0 | – | 3 | 13 | 0 | 1,078 | 1,078 | – | 36 | 36 |
| Denmark | – | 165 | – | 0 | – | 165 | 738 | 19 | 6 | 25 |
| Dominican Republic | 0 | 181 | 118 | 10 | 0 | 3,596 | 3,596 | – | 120 | 120 |
| Ecuador | – | 396 | 0 | 19 | – | 3,930 | 3,930 | – | 131 | 131 |
| Egypt | – | – | – | 1 | – | 739 | 739 | – | 25 | 25 |
| El Salvador | 0 | – | – | 3 | – | 1,192 | 1,192 | – | 40 | 40 |
| Finland | – | – | – | 0 | – | 0 | 0 | – | 0 | 0 |
| France | 0 | 209 | – | 165 | – | 1,560 | 3,739 | 73 | 52 | 125 |
| Germany | 13 | – | 1 | 2 | – | 21 | 1,263 | 41 | 1 | 42 |
| Ghana | – | – | – | 0 | – | 0 | 0 | – | 0 | 0 |
| Gibraltar | – | – | – | 0 | – | 2,356 | 2,356 | – | 79 | 79 |
| Greece | – | 99 | 0 | 0 | – | 100 | 100 | – | 3 | 3 |
| Guatemala | 0 | 433 | – | 12 | – | 3,627 | 3,627 | – | 121 | 121 |
| Honduras | 0 | – | 38 | 7 | 0 | 1,633 | 1,633 | – | 54 | 54 |
| Hong Kong | 0 | – | – | 1 | – | 2 | 2 | – | 0 | 0 |
| India | 1 | 2,497 | 0 | 33 | 0 | 4,126 | 11,570 | 248 | 138 | 386 |
| Indonesia | 0 | 0 | 0 | 1 | 0 | 4,236 | 4,236 | – | 141 | 141 |
| Ireland | – | 63 | – | 0 | – | 63 | 1,246 | 39 | 2 | 42 |
| Israel | 0 | 325 | – | 1 | 0 | 327 | 1,024 | 23 | 11 | 34 |
| Italy | 0 | – | 0 | 0 | – | 33 | 4,192 | 139 | 1 | 140 |
| Jamaica | – | – | 0 | 230 | 0 | 1,213 | 1,213 | – | 40 | 40 |
| Japan | 1 | 1,660 | 1 | 22 | 3 | 17,004 | 19,919 | 97 | 567 | 664 |
| Korea, South | 0 | 588 | 1 | 22 | 0 | 3,351 | 18,895 | 518 | 112 | 630 |
| Lebanon | – | – | – | 0 | – | 1,009 | 1,009 | – | 34 | 34 |
| Mexico | 17 | 1,241 | 307 | 921 | 19 | 32,188 | 32,188 | – | 1,073 | 1,073 |
| Montenegro | – | – | – | – | – | – | – | – | – | – |
| Morocco | – | 302 | – | – | – | 2,372 | 2,372 | – | 79 | 79 |
| Mozambique | – | 92 | – | – | – | 92 | 92 | – | 3 | 3 |
| Netherlands | 1 | 50 | 1 | 36 | 0 | 4,315 | 14,336 | 334 | 144 | 478 |
| New Zealand | 0 | 66 | – | 1 | – | 67 | 67 | – | 2 | 2 |
| Nicaragua | – | – | – | 3 | – | 400 | 785 | 13 | 13 | 26 |
| Nigeria | – | – | – | 1 | – | 801 | 801 | – | 27 | 27 |
| Norway | – | 45 | – | 0 | – | 1,175 | 1,175 | – | 39 | 39 |
| Pakistan | 0 | 268 | – | 0 | 0 | 269 | 269 | – | 9 | 9 |
| Panama | – | – | – | 10 | – | 4,431 | 4,930 | 17 | 148 | 164 |
| Peru | 0 | 0 | 0 | 58 | 0 | 2,553 | 4,969 | 81 | 85 | 166 |
| Philippines | 0 | 0 | – | 1 | 0 | 715 | 995 | 9 | 24 | 33 |
| Portugal | 0 | 177 | – | 0 | – | 1,100 | 1,100 | – | 37 | 37 |
| Puerto Rico | 0 | – | 1 | 9 | – | 174 | 174 | – | 6 | 6 |
| Romania | – | 349 | – | 0 | – | 349 | 349 | – | 12 | 12 |
| Saudi Arabia | 0 | 1 | – | 3 | – | 17 | 17 | – | 1 | 1 |
| Serbia (Excludes Kosovo) | – | – | – | – | – | – | – | – | – | – |
| Singapore | 0 | – | – | 2 | – | 3,752 | 5,341 | 53 | 125 | 178 |
| South Africa | 0 | 107 | 0 | 41 | – | 697 | 697 | – | 23 | 23 |
| Spain | 0 | 456 | – | 4 | – | 1,588 | 2,188 | 20 | 53 | 73 |
| Switzerland | – | – | – | 0 | – | 1 | 1 | – | 0 | 0 |
| Taiwan | 0 | – | 0 | 4 | 0 | 2,564 | 7,351 | 160 | 85 | 245 |
| Thailand | 0 | – | 0 | 1 | 0 | 2 | 3,897 | 130 | 0 | 130 |
| Trinidad and Tobago | – | – | – | 5 | – | 1,329 | 1,329 | – | 44 | 44 |
| Turkey | – | 1,157 | 0 | 2 | – | 1,717 | 1,717 | – | 57 | 57 |
| United Arab Emirates | 0 | 1 | – | 16 | – | 177 | 1,587 | 47 | 6 | 53 |
| United Kingdom | 0 | 33 | – | 2 | 0 | 2,444 | 9,014 | 219 | 81 | 300 |
| Venezuela | 0 | – | – | 6 | – | 8 | 8 | – | 0 | 0 |
| Other | 3 | 204 | 5 | 52 | 3 | 4,190 | 4,876 | 23 | 138 | 161 |
| **Total** | 114 | 15,987 | 810 | 2,795 | 40 | 169,943 | 262,698 | 3,092 | 5,665 | 8,757 |

– = No Data Reported.
[1] On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
Note: Totals may not equal sum of components due to independent rounding.
Sources: U.S. Census Bureau and EIA estimates.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2019**
(Thousand Barrels)

| Destination | Crude Oil[1] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| Argentina | 13 | 1 | – | 2,384 | – | 1,012 | 1,012 | – | – | – |
| Australia | 8,077 | 2,891 | – | 6 | – | 2,699 | 2,699 | 4 | – | 4 |
| Bahamas | – | 283 | – | 1 | – | 891 | 891 | 1 | 1 | 2 |
| Bahrain | – | – | – | 0 | – | 2 | 2 | – | 0 | 0 |
| Belgium | 267 | 1,034 | – | 406 | – | – | – | – | 0 | 0 |
| Belize | – | – | – | – | – | 204 | 204 | – | 152 | 152 |
| Brazil | 12,894 | 13,646 | – | 8,996 | – | 13,973 | 13,973 | – | 2,495 | 2,495 |
| Canada | 123,504 | 69,013 | – | 15,119 | – | 6,915 | 6,915 | – | 6,132 | 6,132 |
| Cayman Islands | – | 80 | – | – | – | 462 | 462 | 1 | 0 | 1 |
| Chile | 9,723 | 8,175 | – | 72 | – | 1,785 | 1,785 | – | – | – |
| China | 46,286 | 4,888 | – | 1,485 | – | 11 | 11 | 0 | – | 0 |
| Colombia | 5,864 | 243 | – | 13,147 | – | 6,152 | 6,152 | 0 | 478 | 478 |
| Costa Rica | – | 1,252 | – | 312 | – | 3,443 | 3,443 | – | – | – |
| Denmark | 6,103 | 0 | – | – | – | 1 | 1 | 0 | 0 | 0 |
| Dominican Republic | 3,635 | 11,860 | – | 1,252 | – | 3,491 | 3,491 | 0 | 62 | 62 |
| Ecuador | – | 10,317 | – | 34 | – | 7,747 | 7,747 | – | 1,581 | 1,581 |
| Egypt | – | 3,248 | – | 0 | – | – | – | – | 1 | 1 |
| El Salvador | – | 2,239 | – | 3 | – | 3,069 | 3,069 | 0 | 0 | 1 |
| Finland | – | – | – | 0 | – | 1 | 1 | – | – | – |
| France | 14,210 | 6,080 | – | 202 | – | 2 | 2 | – | 0 | 0 |
| Germany | 8,182 | 112 | – | 59 | – | 2 | 2 | – | 0 | 0 |
| Ghana | – | 815 | – | 0 | – | 0 | 0 | – | – | – |
| Gibraltar | – | 1,214 | – | – | – | 318 | 318 | – | – | – |
| Greece | 2,169 | 0 | – | – | – | 0 | 0 | – | – | – |
| Guatemala | – | 3,546 | – | 35 | – | 9,732 | 9,732 | 0 | 1,479 | 1,479 |
| Honduras | – | 4,528 | – | 6 | – | 4,613 | 4,613 | – | 712 | 712 |
| Hong Kong | – | 552 | – | 1 | – | – | – | – | 1 | 1 |
| India | 70,831 | 26,836 | – | 36 | – | 0 | 0 | 1 | – | 1 |
| Indonesia | 630 | 18,545 | – | 19 | – | – | – | – | – | – |
| Ireland | 10,307 | – | – | 0 | – | – | – | – | – | – |
| Israel | 2,133 | 2 | – | 7 | – | 9 | 9 | – | – | – |
| Italy | 32,853 | 234 | – | 8 | – | 474 | 474 | – | 0 | 0 |
| Jamaica | 626 | 368 | – | 2 | – | 2,138 | 2,138 | 0 | 3 | 3 |
| Japan | 14,930 | 110,367 | – | 4,220 | – | 319 | 319 | 6 | 1 | 6 |
| Korea, South | 116,857 | 31,171 | – | 2,266 | – | 192 | 192 | 4 | 5 | 10 |
| Lebanon | – | – | – | 0 | – | – | – | – | – | – |
| Mexico | 533 | 39,511 | – | 2,873 | – | 118,120 | 118,120 | 132 | 10,808 | 10,940 |
| Montenegro | – | – | – | – | – | – | – | – | – | – |
| Morocco | – | 10,659 | – | 0 | – | – | – | – | – | – |
| Mozambique | – | – | – | – | – | – | – | – | – | – |
| Netherlands | 69,933 | 14,784 | – | 4,298 | – | 1,204 | 1,204 | 0 | 217 | 217 |
| New Zealand | – | 2 | – | 0 | – | 0 | 0 | 0 | – | 0 |
| Nicaragua | 2,800 | – | – | 1 | – | 1,142 | 1,142 | – | – | – |
| Nigeria | – | 1,506 | – | 8 | – | 796 | 796 | – | – | – |
| Norway | 7,083 | 7,614 | – | 243 | – | 1 | 1 | – | – | – |
| Pakistan | – | – | – | – | – | – | – | – | – | – |
| Panama | 11,905 | 2 | – | 5 | – | 5,754 | 5,754 | – | 62 | 62 |
| Peru | 6,721 | 1,209 | – | 20 | – | 4,985 | 4,985 | – | 213 | 213 |
| Philippines | 280 | 1,587 | – | 2 | – | – | – | – | – | – |
| Portugal | – | 3,629 | – | – | – | – | – | – | – | – |
| Puerto Rico | – | 93 | – | 18 | – | 20 | 20 | – | 2 | 2 |
| Romania | – | 0 | – | 0 | – | – | – | – | – | – |
| Saudi Arabia | – | 5 | – | 8 | – | – | – | – | 0 | 0 |
| Serbia (Excludes Kosovo) | – | – | – | – | – | – | – | – | – | – |
| Singapore | 17,700 | 3,094 | – | 383 | – | 455 | 455 | – | 50 | 50 |
| South Africa | 970 | 999 | – | 0 | – | 508 | 508 | 0 | 0 | 0 |
| Spain | 11,260 | 11,180 | – | 0 | – | 498 | 498 | – | 1 | 1 |
| Switzerland | – | 289 | – | 0 | – | 85 | 85 | 0 | – | 0 |
| Taiwan | 46,020 | 10,152 | – | 1,730 | – | 3 | 3 | – | 0 | 0 |
| Thailand | 28,081 | 0 | – | 7 | – | – | – | – | – | – |
| Trinidad and Tobago | – | 129 | – | 1 | – | 1,894 | 1,894 | – | 240 | 240 |
| Turkey | – | 6,300 | – | 0 | – | – | – | 1 | – | 1 |
| United Arab Emirates | 11,645 | 1 | – | 2 | – | 18 | 18 | 0 | – | 0 |
| United Kingdom | 59,000 | 13,425 | – | 3 | – | 9 | 9 | 0 | 0 | 0 |
| Venezuela | – | 270 | – | 2,040 | – | 1,491 | 1,491 | 7 | 2 | 9 |
| Other | 13,499 | 18,758 | – | 981 | – | 3,619 | 3,619 | 5 | 7 | 12 |
| **Total** | 777,524 | 478,738 | – | 62,701 | – | 210,259 | 210,259 | 162 | 24,705 | 24,868 |

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2019**
(Thousand Barrels) — Continued

| Destination | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| Argentina | – | – | 1 | 0 | – | – | 9,416 | 310 | 386 | – | 10,112 |
| Australia | 0 | 0 | 74 | – | – | – | 4 | – | 0 | – | 4 |
| Bahamas | – | 1 | 1 | – | – | – | 5,572 | 150 | 2,455 | – | 8,176 |
| Bahrain | – | – | 0 | – | – | – | – | – | – | – | – |
| Belgium | 56 | 0 | 1 | 0 | – | – | 300 | – | 533 | – | 833 |
| Belize | – | – | – | – | – | – | 151 | 384 | 78 | – | 613 |
| Brazil | 0 | 0 | 6,439 | 0 | – | – | 50,000 | 1,664 | 3,663 | – | 55,327 |
| Canada | – | 4 | 5,758 | 2,180 | – | – | 1,135 | 3,564 | 1,443 | – | 6,142 |
| Cayman Islands | – | – | – | 0 | – | – | 823 | – | – | – | 823 |
| Chile | 2,184 | – | 9 | – | – | – | 26,538 | 310 | 462 | – | 27,310 |
| China | 0 | 3 | 1 | – | – | – | 9 | 299 | – | – | 308 |
| Colombia | – | – | 1,243 | – | – | – | 10,219 | – | – | – | 10,219 |
| Costa Rica | 24 | 0 | 2 | – | – | – | 5,540 | – | 1 | – | 5,541 |
| Denmark | – | – | – | – | – | – | 414 | – | – | – | 414 |
| Dominican Republic | – | – | 7 | – | – | – | 4,055 | 1,300 | 2,320 | – | 7,675 |
| Ecuador | – | 0 | 0 | – | – | – | 5,460 | 2,903 | 1,078 | – | 9,441 |
| Egypt | – | – | 0 | – | – | – | 0 | – | – | – | 0 |
| El Salvador | – | – | – | – | – | – | 1,526 | 2,948 | – | – | 4,474 |
| Finland | – | – | 170 | – | – | – | 58 | – | – | – | 58 |
| France | – | 1 | 95 | – | – | – | 9,949 | 1,017 | 1 | – | 10,967 |
| Germany | 0 | 0 | 0 | 6 | – | – | 1 | – | – | – | 1 |
| Ghana | – | – | – | – | – | – | 2 | – | – | – | 2 |
| Gibraltar | – | – | – | – | – | – | 4,047 | 499 | 5,862 | – | 10,409 |
| Greece | – | – | – | – | – | – | – | – | – | – | – |
| Guatemala | – | – | 0 | – | – | – | 4,949 | 5,144 | 847 | – | 10,941 |
| Honduras | – | 0 | – | – | – | – | 1,728 | 2,005 | 1,363 | – | 5,096 |
| Hong Kong | – | 0 | 0 | 0 | – | – | 246 | – | – | – | 246 |
| India | 170 | 0 | 3,180 | 1 | – | – | 31 | – | – | – | 31 |
| Indonesia | 59 | – | 0 | – | – | – | – | – | – | – | – |
| Ireland | – | 0 | 0 | – | – | – | 254 | – | – | – | 254 |
| Israel | – | 0 | 1 | – | – | – | 0 | – | – | – | 0 |
| Italy | – | – | 2 | – | – | – | 1,042 | – | – | – | 1,042 |
| Jamaica | – | 0 | 387 | – | – | – | 1,278 | 71 | 665 | – | 2,013 |
| Japan | – | 7,765 | 90 | – | – | – | 5 | 24 | – | – | 29 |
| Korea, South | 155 | 1 | 1,752 | – | – | – | 722 | – | – | – | 722 |
| Lebanon | – | – | 0 | – | – | – | 535 | – | – | – | 535 |
| Mexico | 6,877 | 6 | 580 | 13 | – | – | 75,952 | 1,001 | 589 | – | 77,542 |
| Montenegro | – | – | – | – | – | – | – | – | – | – | – |
| Morocco | – | – | – | 10 | – | – | 6,808 | 77 | – | – | 6,886 |
| Mozambique | – | – | – | – | – | – | – | – | – | – | – |
| Netherlands | 105 | 6 | 842 | 152 | – | – | 11,330 | 1,136 | 2,889 | – | 15,356 |
| New Zealand | – | – | 0 | 0 | – | – | 0 | – | – | – | 0 |
| Nicaragua | – | – | – | – | – | – | 377 | 1,302 | 210 | – | 1,888 |
| Nigeria | – | – | 343 | – | – | – | 0 | – | – | – | 0 |
| Norway | 0 | – | 127 | – | – | – | 411 | – | – | – | 411 |
| Pakistan | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Panama | – | – | 0 | – | – | – | 8,319 | 1,361 | 4,252 | – | 13,932 |
| Peru | – | 0 | 983 | 43 | – | – | 18,273 | – | – | – | 18,273 |
| Philippines | – | 0 | 1,383 | – | – | – | 0 | – | – | – | 0 |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Puerto Rico | – | 2 | 159 | – | – | – | 8 | 72 | – | – | 80 |
| Romania | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | 1 | 319 | – | – | – | 0 | – | – | – | 0 |
| Serbia (Excludes Kosovo) | – | – | – | – | – | – | – | – | – | – | – |
| Singapore | 112 | 3 | 96 | 2 | – | – | 350 | 197 | 3,222 | – | 3,770 |
| South Africa | – | – | 0 | – | – | – | 1 | – | – | – | 1 |
| Spain | – | – | 270 | – | – | – | 6,385 | 548 | 434 | – | 7,366 |
| Switzerland | – | – | 233 | 6 | – | – | 674 | – | 4 | – | 678 |
| Taiwan | 0 | 0 | 3 | – | – | – | 2 | 9 | – | – | 11 |
| Thailand | – | 0 | 0 | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | 0 | – | – | – | 1,271 | 1,653 | 1,607 | – | 4,531 |
| Turkey | – | – | 22 | – | – | – | 1 | – | – | – | 1 |
| United Arab Emirates | – | – | 474 | – | – | – | 0 | – | – | – | 0 |
| United Kingdom | – | 0 | 489 | – | – | – | 10,833 | – | – | – | 10,833 |
| Venezuela | 259 | – | – | – | – | – | 276 | – | – | – | 276 |
| Other | 825 | 3 | 898 | 1 | – | – | 9,124 | 3,059 | 5,847 | – | 18,028 |
| **Total** | 10,826 | 7,796 | 26,434 | 2,414 | – | – | 296,404 | 33,007 | 40,211 | – | 369,621 |

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2019**
(Thousand Barrels) — Continued

| Destination | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | Petrochemical Feedstocks | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Naphtha | Other Oils |
| Argentina | – | – | – | 884 | – | 0 | – | – |
| Australia | – | – | – | – | – | 1 | – | – |
| Bahamas | – | – | – | 544 | – | 3,216 | – | – |
| Bahrain | – | – | – | 0 | – | – | – | – |
| Belgium | – | – | – | – | – | 0 | – | – |
| Belize | – | – | – | 117 | – | 0 | – | – |
| Brazil | 0 | – | – | 1,847 | – | 639 | – | – |
| Canada | 550 | – | – | 13,451 | – | 6,524 | – | – |
| Cayman Islands | 1 | – | – | 211 | – | 0 | – | – |
| Chile | 3 | – | – | 2,075 | – | 1 | – | – |
| China | 0 | – | – | 0 | – | 5 | – | – |
| Colombia | 0 | – | – | 297 | – | 1 | – | – |
| Costa Rica | 11 | – | – | 1,422 | – | 1 | – | – |
| Denmark | – | – | – | 99 | – | – | – | – |
| Dominican Republic | 1 | – | – | 2,113 | – | 892 | – | – |
| Ecuador | 0 | – | – | 9 | – | 2,777 | – | – |
| Egypt | – | – | – | – | – | 0 | – | – |
| El Salvador | 0 | – | – | 251 | – | 0 | – | – |
| Finland | – | – | – | 453 | – | 0 | – | – |
| France | 0 | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | 0 | – | – |
| Ghana | – | – | – | – | – | 345 | – | – |
| Gibraltar | – | – | – | – | – | 2,483 | – | – |
| Greece | – | – | – | – | – | – | – | – |
| Guatemala | 30 | – | – | 1,774 | – | 453 | – | – |
| Honduras | 11 | – | – | 494 | – | 2,091 | – | – |
| Hong Kong | 0 | – | – | – | – | – | – | – |
| India | – | – | – | 1 | – | 66 | – | – |
| Indonesia | – | – | – | – | – | – | – | – |
| Ireland | – | – | – | – | – | – | – | – |
| Israel | 1 | – | – | 846 | – | 154 | – | – |
| Italy | – | – | – | – | – | – | – | – |
| Jamaica | 0 | – | – | 1,093 | – | 4,277 | – | – |
| Japan | 0 | – | – | 0 | – | 65 | – | – |
| Korea, South | 0 | – | – | 0 | – | 232 | – | – |
| Lebanon | – | – | – | 0 | – | 3,909 | – | – |
| Mexico | 145 | – | – | 14,382 | – | 14,654 | – | – |
| Montenegro | – | – | – | – | – | – | – | – |
| Morocco | – | – | – | 329 | – | – | – | – |
| Mozambique | – | – | – | – | – | – | – | – |
| Netherlands | – | – | – | 1,590 | – | 6,899 | – | – |
| New Zealand | 0 | – | – | – | – | – | – | – |
| Nicaragua | 0 | – | – | 32 | – | 93 | – | – |
| Nigeria | – | – | – | – | – | – | – | – |
| Norway | – | – | – | – | – | – | – | – |
| Pakistan | 0 | – | – | – | – | – | – | – |
| Panama | 1 | – | – | 4,461 | – | 6,868 | – | – |
| Peru | 1 | – | – | 1,212 | – | 1 | – | – |
| Philippines | – | – | – | 0 | – | – | – | – |
| Portugal | – | – | – | – | – | – | – | – |
| Puerto Rico | 0 | – | – | 1 | – | 1 | – | – |
| Romania | – | – | – | – | – | – | – | – |
| Saudi Arabia | 0 | – | – | 3 | – | 1 | – | – |
| Serbia (Excludes Kosovo) | – | – | – | – | – | – | – | – |
| Singapore | 0 | – | – | 0 | – | 5,946 | – | – |
| South Africa | – | – | – | 318 | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – |
| Switzerland | – | – | – | – | – | – | – | – |
| Taiwan | 0 | – | – | 0 | – | 1 | – | – |
| Thailand | – | – | – | – | – | 0 | – | – |
| Trinidad and Tobago | 0 | – | – | 1,756 | – | – | – | – |
| Turkey | 1 | – | – | 1 | – | – | – | – |
| United Arab Emirates | 2 | – | – | 0 | – | 399 | – | – |
| United Kingdom | 0 | – | – | 1,920 | – | 885 | – | – |
| Venezuela | – | – | – | 18 | – | 1 | – | – |
| Other | 18 | – | – | 5,143 | – | 2,971 | – | – |
| **Total** | 776 | – | – | 59,147 | – | 66,852 | – | – |

See footnotes at end of table.

**Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-September 2019**
(Thousand Barrels) — Continued

| Destination | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellanous Products | Total Products | Total Crude Oil and Products | Daily Average | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Crude Oil | Products | Total |
| Argentina | 5 | 264 | 2 | 333 | 0 | 14,997 | 15,010 | 0 | 55 | 55 |
| Australia | 4 | 1,754 | 1 | 189 | 4 | 7,630 | 15,708 | 30 | 28 | 58 |
| Bahamas | 0 | – | 19 | 29 | 0 | 13,164 | 13,164 | – | 48 | 48 |
| Bahrain | 0 | – | – | 3 | – | 6 | 6 | – | 0 | 0 |
| Belgium | 0 | 3,073 | 1 | 3,814 | 10 | 9,227 | 9,493 | 1 | 34 | 35 |
| Belize | – | – | – | 10 | 0 | 1,097 | 1,097 | – | 4 | 4 |
| Brazil | 6 | 12,169 | 0 | 3,418 | 5 | 118,960 | 131,854 | 47 | 436 | 483 |
| Canada | 747 | 7,052 | 1,714 | 2,353 | 68 | 143,722 | 267,226 | 452 | 526 | 979 |
| Cayman Islands | – | – | 7 | 10 | – | 1,595 | 1,595 | – | 6 | 6 |
| Chile | 4 | 1 | 351 | 690 | 1 | 42,660 | 52,382 | 36 | 156 | 192 |
| China | 19 | 10,630 | 9 | 160 | 7 | 17,529 | 63,814 | 170 | 64 | 234 |
| Colombia | 1 | 238 | 3 | 836 | 3 | 32,861 | 38,725 | 21 | 120 | 142 |
| Costa Rica | 1 | 187 | 173 | 131 | 0 | 12,501 | 12,501 | – | 46 | 46 |
| Denmark | 0 | 837 | – | 0 | – | 1,352 | 7,455 | 22 | 5 | 27 |
| Dominican Republic | 2 | 1,710 | 912 | 196 | 1 | 30,175 | 33,810 | 13 | 111 | 124 |
| Ecuador | 0 | 1,502 | 1 | 541 | 0 | 33,951 | 33,951 | – | 124 | 124 |
| Egypt | – | 851 | 286 | 91 | – | 4,478 | 4,478 | – | 16 | 16 |
| El Salvador | 0 | 186 | 0 | 202 | – | 10,426 | 10,426 | – | 38 | 38 |
| Finland | 0 | 293 | 0 | 6 | – | 982 | 982 | – | 4 | 4 |
| France | 2 | 1,736 | – | 577 | – | 19,663 | 33,873 | 52 | 72 | 124 |
| Germany | 23 | 289 | 6 | 25 | 0 | 524 | 8,706 | 30 | 2 | 32 |
| Ghana | 0 | – | 0 | 2 | – | 1,164 | 1,164 | – | 4 | 4 |
| Gibraltar | – | – | – | 0 | – | 14,424 | 14,424 | – | 53 | 53 |
| Greece | – | 1,459 | 0 | 2 | – | 1,462 | 3,631 | 8 | 5 | 13 |
| Guatemala | 1 | 2,544 | 0 | 165 | – | 30,700 | 30,700 | – | 112 | 112 |
| Honduras | 0 | 1,444 | 190 | 112 | 0 | 19,298 | 19,298 | – | 71 | 71 |
| Hong Kong | 2 | – | 0 | 14 | 1 | 817 | 817 | – | 3 | 3 |
| India | 13 | 24,649 | 6 | 626 | 1 | 55,614 | 126,445 | 259 | 204 | 463 |
| Indonesia | 1 | 0 | 9 | 117 | 1 | 18,750 | 19,380 | 2 | 69 | 71 |
| Ireland | 0 | 964 | – | 0 | 1 | 1,220 | 11,527 | 38 | 4 | 42 |
| Israel | 0 | 1,271 | 0 | 103 | 0 | 2,396 | 4,529 | 8 | 9 | 17 |
| Italy | 2 | 4,219 | 0 | 30 | – | 6,011 | 38,863 | 120 | 22 | 142 |
| Jamaica | 0 | 0 | 1 | 421 | 1 | 10,703 | 11,329 | 2 | 39 | 41 |
| Japan | 35 | 17,469 | 7 | 110 | 30 | 140,513 | 155,443 | 55 | 515 | 569 |
| Korea, South | 2 | 2,052 | 5 | 59 | 2 | 38,621 | 155,478 | 428 | 141 | 570 |
| Lebanon | – | 632 | – | 6 | – | 5,083 | 5,083 | – | 19 | 19 |
| Mexico | 163 | 14,833 | 2,730 | 9,553 | 281 | 313,204 | 313,737 | 2 | 1,147 | 1,149 |
| Montenegro | – | – | – | – | – | – | – | – | – | – |
| Morocco | – | 3,477 | 1 | 1 | – | 21,361 | 21,361 | – | 78 | 78 |
| Mozambique | – | 720 | – | – | – | 720 | 720 | – | 3 | 3 |
| Netherlands | 23 | 2,765 | 15 | 518 | 1 | 48,775 | 118,707 | 256 | 179 | 435 |
| New Zealand | 0 | 407 | 0 | 9 | – | 419 | 419 | – | 2 | 2 |
| Nicaragua | – | – | – | 38 | – | 3,195 | 5,995 | 10 | 12 | 22 |
| Nigeria | 0 | – | 33 | 918 | – | 3,604 | 3,604 | – | 13 | 13 |
| Norway | 0 | 894 | – | 3 | – | 9,292 | 16,376 | 26 | 34 | 60 |
| Pakistan | 1 | 268 | 0 | 1 | 0 | 271 | 271 | – | 1 | 1 |
| Panama | 0 | 520 | 345 | 409 | 0 | 32,356 | 44,261 | 44 | 119 | 162 |
| Peru | 1 | 536 | 0 | 621 | 1 | 28,098 | 34,820 | 25 | 103 | 128 |
| Philippines | 1 | 303 | 0 | 14 | 2 | 3,291 | 3,571 | 1 | 12 | 13 |
| Portugal | 0 | 781 | – | 0 | – | 4,411 | 4,411 | – | 16 | 16 |
| Puerto Rico | 0 | 0 | 27 | 113 | – | 516 | 516 | – | 2 | 2 |
| Romania | 0 | 1,401 | – | 1 | 0 | 1,403 | 1,403 | – | 5 | 5 |
| Saudi Arabia | 1 | 313 | 1 | 41 | 0 | 693 | 693 | – | 3 | 3 |
| Serbia (Excludes Kosovo) | – | – | 0 | 0 | – | 0 | 0 | – | – | – |
| Singapore | 1 | 193 | 150 | 93 | 0 | 14,349 | 32,049 | 65 | 53 | 117 |
| South Africa | 1 | 621 | 1 | 441 | – | 2,889 | 3,859 | 4 | 11 | 14 |
| Spain | 3 | 3,499 | 0 | 20 | 0 | 22,836 | 34,095 | 41 | 84 | 125 |
| Switzerland | 0 | – | – | 1 | – | 1,293 | 1,293 | – | 5 | 5 |
| Taiwan | 9 | 0 | 2 | 50 | 1 | 11,964 | 57,984 | 169 | 44 | 212 |
| Thailand | 1 | 122 | 3 | 27 | 2 | 162 | 28,243 | 103 | 1 | 103 |
| Trinidad and Tobago | 0 | 0 | 0 | 72 | 0 | 8,623 | 8,623 | – | 32 | 32 |
| Turkey | 0 | 7,863 | 0 | 112 | – | 14,301 | 14,301 | – | 52 | 52 |
| United Arab Emirates | 0 | 1,138 | 5 | 425 | 0 | 2,464 | 14,110 | 43 | 9 | 52 |
| United Kingdom | 2 | 915 | 1 | 22 | 1 | 28,506 | 87,506 | 216 | 104 | 321 |
| Venezuela | 0 | 30 | – | 49 | 0 | 4,443 | 4,443 | – | 16 | 16 |
| Other | 4 | 7,025 | 133 | 713 | 10 | 59,129 | 72,631 | 49 | 215 | 266 |
| **Total** | 1,081 | 148,099 | 7,150 | 29,646 | 435 | 1,506,844 | 2,284,369 | 2,848 | 5,520 | 8,368 |

– = No Data Reported.
[1] On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
Note: Totals may not equal sum of components due to independent rounding.
Sources: U.S. Census Bureau and EIA estimates.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2019**
(Thousand Barrels per Day)

| Country of Origin | Crude Oil[1] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| **OPEC** | **1,389** | **-43** | **–** | **137** | **–** | **-38** | **-38** | **0** | **23** | **23** |
| Algeria | – | – | – | 49 | – | – | – | – | – | – |
| Angola | 58 | – | – | 4 | – | – | – | – | 9 | 9 |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – |
| Ecuador | 187 | -29 | – | – | – | -28 | -28 | – | – | – |
| Equatorial Guinea | – | 2 | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | 400 | – | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – | – | – |
| Libya | 69 | – | – | – | – | – | – | – | – | – |
| Nigeria | 231 | -16 | – | – | – | -11 | -11 | – | 14 | 14 |
| Saudi Arabia | 458 | – | – | – | – | – | – | – | – | – |
| United Arab Emirates | -13 | 0 | – | 84 | – | 0 | 0 | – | – | – |
| Venezuela | – | 0 | – | 0 | – | 0 | 0 | 0 | – | 0 |
| **Non-OPEC** | **1,997** | **-1,673** | **22** | **268** | **–** | **-653** | **-653** | **206** | **380** | **586** |
| Argentina | – | – | – | -8 | – | – | – | – | – | – |
| Aruba | – | – | – | 0 | – | -2 | -2 | – | – | – |
| Australia | -76 | -19 | – | 0 | – | – | – | 0 | – | 0 |
| Bahamas | – | -1 | – | 0 | – | -3 | -3 | – | – | – |
| Bahrain | – | – | – | – | – | 0 | 0 | – | – | – |
| Belgium | – | – | – | 36 | – | – | – | – | 8 | 8 |
| Brazil | 44 | -18 | – | -34 | – | -61 | -61 | – | 52 | 52 |
| Brunei | 68 | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – |
| Canada | 3,264 | -123 | 16 | -61 | – | -41 | -41 | 115 | 37 | 152 |
| Chad | – | – | – | – | – | – | – | – | 0 | 0 |
| China | -201 | -50 | – | 0 | – | 0 | 0 | 0 | 10 | 10 |
| Colombia | 227 | 0 | – | -56 | – | -31 | -31 | – | 24 | 24 |
| Denmark | -19 | – | – | – | – | – | – | – | – | – |
| Dominican Republic | – | -41 | – | – | – | -9 | -9 | – | – | – |
| Estonia | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | 3 | – | – | – | – | 17 | 17 |
| France | -73 | -39 | – | 12 | – | 18 | 18 | 8 | – | 8 |
| Germany | -41 | – | – | 6 | – | – | – | – | – | – |
| Guatemala | – | -7 | – | 0 | – | -46 | -46 | – | -3 | -3 |
| Honduras | – | -12 | – | 0 | – | -13 | -13 | – | – | – |
| India | -248 | -53 | – | 12 | – | – | – | – | 35 | 35 |
| Indonesia | – | -141 | – | – | – | – | – | – | – | – |
| Italy | -139 | – | – | 12 | – | – | – | – | 20 | 20 |
| Japan | -97 | -458 | – | -20 | – | 0 | 0 | 0 | 2 | 2 |
| Korea, South | -518 | -72 | – | -12 | – | 11 | 11 | 0 | 2 | 2 |
| Latvia | – | – | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – | – | – |
| Malaysia | – | – | – | 0 | – | – | – | – | 6 | 6 |
| Mexico | 523 | -156 | 1 | -13 | – | -430 | -430 | -1 | -16 | -17 |
| Netherlands | -334 | -40 | – | 3 | – | 10 | 10 | 50 | 49 | 100 |
| Norway | 76 | -35 | – | – | – | 4 | 4 | – | 44 | 44 |
| Oman | – | – | – | – | – | – | – | – | – | – |
| Panama | -17 | 0 | – | 0 | – | -25 | -25 | – | 0 | 0 |
| Portugal | – | -31 | – | – | – | – | – | – | – | – |
| Puerto Rico | – | 0 | – | 0 | – | 0 | 0 | – | 0 | 0 |
| Qatar | – | – | – | – | – | 0 | 0 | – | – | – |
| Russia | 113 | – | – | 254 | – | 10 | 10 | 2 | 58 | 60 |
| Spain | -20 | -38 | – | 1 | – | 5 | 5 | – | 2 | 2 |
| Sweden | – | -20 | – | 1 | – | 5 | 5 | – | 13 | 13 |
| Trinidad and Tobago | 35 | 0 | – | 0 | – | -9 | -9 | – | – | – |
| United Kingdom | -118 | -23 | – | 21 | – | 21 | 21 | 32 | 2 | 34 |
| Vietnam | – | – | – | 0 | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | 0 | 0 | 0 | – | 0 |
| Yemen | – | – | – | – | – | – | – | – | – | – |
| Other | -452 | -296 | 5 | 111 | – | -67 | -67 | 0 | 18 | 17 |
| **Total** | **3,386** | **-1,715** | **22** | **405** | **–** | **-691** | **-691** | **206** | **404** | **610** |
| **Persian Gulf[2]** | **845** | **0** | **–** | **84** | **–** | **0** | **0** | **–** | **–** | **–** |

See footnotes at end of table.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2019**
(Thousand Barrels per Day) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| **OPEC** | **–** | **–** | **-6** | **–** | **–** | **–** | **-17** | **-9** | **-27** | **–** | **-53** |
| Algeria | – | – | – | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | – | -17 | -9 | -27 | – | -53 |
| Equatorial Guinea | – | – | – | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Kuwait | – | – | – | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Nigeria | – | – | – | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | 0 | – | – | – | – | – | – | – | – |
| United Arab Emirates | – | – | -5 | – | – | – | 0 | – | – | – | 0 |
| Venezuela | – | – | – | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **-44** | **-33** | **-39** | **1** | **11** | **–** | **-1,044** | **-88** | **-133** | **–** | **-1,265** |
| Argentina | 1 | – | – | – | – | – | -17 | – | – | – | -17 |
| Aruba | – | – | – | – | – | – | -1 | – | – | – | -1 |
| Australia | – | 0 | 0 | – | – | – | 0 | – | – | – | 0 |
| Bahamas | – | – | 0 | – | – | – | -14 | – | – | – | -14 |
| Bahrain | – | – | – | – | – | – | – | – | – | – | – |
| Belgium | 0 | 0 | – | 0 | – | – | – | – | -10 | – | -10 |
| Brazil | – | 0 | 26 | – | – | – | -288 | – | -21 | – | -309 |
| Brunei | – | – | – | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – | – | – | – |
| Canada | – | 0 | -26 | -3 | – | – | 89 | -12 | -5 | – | 73 |
| Chad | – | – | – | – | – | – | – | – | – | – | – |
| China | – | 0 | 0 | – | – | – | 0 | – | – | – | 0 |
| Colombia | – | – | -2 | – | – | – | -24 | – | – | – | -24 |
| Denmark | – | – | – | – | – | – | – | – | – | – | – |
| Dominican Republic | – | – | 0 | – | – | – | -55 | – | – | – | -55 |
| Estonia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – | – | – | – |
| France | – | 0 | – | – | – | – | – | – | – | – | – |
| Germany | 0 | 0 | 0 | 5 | – | – | – | – | – | – | – |
| Guatemala | – | – | – | – | – | – | -40 | -4 | – | – | -44 |
| Honduras | – | – | – | – | – | – | -10 | -7 | – | – | -18 |
| India | – | 0 | 0 | – | – | – | 0 | – | – | – | 0 |
| Indonesia | – | – | – | – | – | – | – | – | – | – | – |
| Italy | – | – | 0 | – | – | – | -1 | – | – | – | -1 |
| Japan | – | -33 | 0 | – | – | – | 0 | – | – | – | 0 |
| Korea, South | – | 0 | -7 | – | – | – | 0 | – | – | – | 0 |
| Latvia | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | -6 | 0 | – | – | – | – | 0 | – | -12 | – | -12 |
| Mexico | -23 | 0 | -2 | 0 | – | – | -252 | 0 | 0 | – | -252 |
| Netherlands | – | 0 | -5 | – | – | – | -25 | -10 | -1 | – | -37 |
| Norway | – | – | -3 | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Panama | – | – | 0 | – | – | – | -45 | -4 | -23 | – | -72 |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Puerto Rico | – | 0 | -5 | – | – | – | 0 | – | – | – | 0 |
| Qatar | – | – | – | – | – | – | – | – | – | – | – |
| Russia | – | – | 0 | – | – | – | – | – | – | – | – |
| Spain | – | – | – | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | – | – | – | 0 | -10 | -9 | – | -20 |
| United Kingdom | – | 0 | -1 | – | – | – | -30 | – | – | – | -30 |
| Vietnam | – | 0 | – | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | – | – | – | – | -2 | -5 | – | -7 |
| Yemen | – | – | – | – | – | – | – | – | – | – | – |
| Other | -16 | 0 | -14 | -1 | 11 | – | -331 | -39 | -47 | – | -415 |
| **Total** | **-44** | **-33** | **-45** | **1** | **11** | **–** | **-1,061** | **-97** | **-160** | **–** | **-1,318** |
| **Persian Gulf**[2] | **–** | **–** | **-6** | **–** | **–** | **–** | **0** | **–** | **–** | **–** | **0** |

See footnotes at end of table.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2019**
(Thousand Barrels per Day) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | Petrochemical Feedstocks | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Naphtha | Other Oils |
| **OPEC** | **0** | **–** | **–** | **–** | **–** | **-7** | **–** | **–** |
| Algeria | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – |
| Ecuador | – | – | – | – | – | -7 | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – |
| Gabon | 0 | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | – | – |
| Kuwait | – | – | – | – | – | – | – | – |
| Libya | – | – | – | – | – | – | – | – |
| Nigeria | – | – | – | – | – | – | – | – |
| Saudi Arabia | – | – | – | – | – | 0 | – | – |
| United Arab Emirates | 0 | – | – | – | – | 0 | – | – |
| Venezuela | – | – | – | – | – | – | – | – |
| **Non-OPEC** | **-7** | **2** | **–** | **-71** | **23** | **-64** | **18** | **2** |
| Argentina | – | – | – | -1 | – | – | – | – |
| Aruba | 0 | – | – | -2 | – | – | – | – |
| Australia | – | – | – | – | – | – | – | – |
| Bahamas | – | – | – | -2 | – | -9 | – | – |
| Bahrain | – | – | – | – | – | – | – | – |
| Belgium | – | – | – | – | – | – | – | – |
| Brazil | – | – | – | -23 | – | 12 | – | – |
| Brunei | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – |
| Canada | -7 | 0 | – | -33 | 0 | 32 | 3 | 2 |
| Chad | – | – | – | – | – | – | – | – |
| China | 0 | – | – | 15 | – | 0 | – | – |
| Colombia | – | – | – | -4 | – | 2 | – | – |
| Denmark | – | – | – | – | – | – | – | – |
| Dominican Republic | 0 | – | – | -4 | – | – | – | – |
| Estonia | – | – | – | – | – | – | – | – |
| Finland | – | – | – | – | – | – | – | – |
| France | 0 | – | – | – | – | – | – | – |
| Germany | – | – | – | – | – | – | – | – |
| Guatemala | 0 | – | – | -5 | – | -1 | – | – |
| Honduras | – | – | – | -2 | – | -8 | – | – |
| India | – | – | – | – | – | – | – | – |
| Indonesia | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | – | – |
| Japan | 0 | – | – | 32 | 3 | – | 2 | – |
| Korea, South | – | – | – | 99 | 17 | – | 0 | – |
| Latvia | – | – | – | – | – | – | – | – |
| Lithuania | – | – | – | – | – | – | – | – |
| Malaysia | 0 | – | – | – | – | – | – | – |
| Mexico | 0 | – | – | -47 | 2 | 7 | 7 | – |
| Netherlands | – | 1 | – | -42 | – | -11 | – | – |
| Norway | – | – | – | – | – | – | – | – |
| Oman | – | – | – | – | – | – | – | – |
| Panama | 0 | – | – | 0 | – | -40 | – | – |
| Portugal | – | – | – | – | – | – | – | – |
| Puerto Rico | – | – | – | – | – | – | – | – |
| Qatar | – | – | – | – | – | – | – | – |
| Russia | – | – | – | – | – | 36 | – | – |
| Spain | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | – | – | – | – | – |
| Trinidad and Tobago | – | – | – | -16 | – | – | – | – |
| United Kingdom | 0 | – | – | -21 | – | -5 | 0 | – |
| Vietnam | – | – | – | – | – | – | – | – |
| Virgin Islands, U.S. | – | – | – | -3 | – | -13 | – | – |
| Yemen | – | – | – | – | – | – | – | – |
| Other | 0 | 1 | – | -12 | 1 | -66 | 6 | 0 |
| **Total** | **-7** | **2** | **–** | **-71** | **23** | **-71** | **18** | **2** |
| **Persian Gulf**[2] | **0** | **–** | **–** | **–** | **–** | **0** | **–** | **–** |

See footnotes at end of table.

**Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, September 2019**
(Thousand Barrels per Day) — Continued

| Country of Origin | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellanous Products | Total Products | Total Crude Oil and Products |
|---|---|---|---|---|---|---|---|
| **OPEC** | **0** | **-13** | **0** | **0** | **–** | **0** | **1,389** |
| Algeria | – | – | – | – | – | 49 | 49 |
| Angola | – | – | – | 0 | – | 13 | 71 |
| Congo (Brazzaville) | – | – | – | – | – | – | 0 |
| Ecuador | – | -13 | 0 | -1 | – | -131 | 55 |
| Equatorial Guinea | – | – | – | 0 | – | 2 | 2 |
| Gabon | – | – | – | 0 | – | 0 | 0 |
| Iran | – | – | – | – | – | – | – |
| Iraq | – | – | – | 0 | – | 0 | 400 |
| Kuwait | – | – | 0 | 0 | – | 0 | 0 |
| Libya | – | – | – | – | – | 0 | 69 |
| Nigeria | – | – | – | 0 | – | -13 | 218 |
| Saudi Arabia | 0 | 0 | – | 0 | – | -1 | 457 |
| United Arab Emirates | 0 | 0 | – | 1 | – | 80 | 68 |
| Venezuela | 0 | – | – | 0 | – | 0 | 0 |
| **Non-OPEC** | **2** | **-518** | **25** | **-68** | **-1** | **-3,476** | **-1,478** |
| Argentina | 0 | – | 0 | -2 | 0 | -27 | -27 |
| Aruba | – | – | – | 0 | – | -6 | -6 |
| Australia | 0 | -6 | 0 | 0 | 0 | -26 | -102 |
| Bahamas | – | – | 0 | 0 | – | -29 | -29 |
| Bahrain | – | – | – | 2 | – | 2 | 2 |
| Belgium | – | -6 | 0 | -13 | 0 | 15 | 15 |
| Brazil | 0 | -79 | – | -8 | 0 | -442 | -398 |
| Brunei | – | – | – | – | – | – | 68 |
| Cameroon | – | – | – | – | – | – | – |
| Canada | -1 | -28 | 31 | 0 | 0 | -14 | 3,250 |
| Chad | – | – | – | – | – | 0 | 0 |
| China | 1 | -39 | 0 | 0 | 0 | -64 | -265 |
| Colombia | 0 | 0 | 0 | -1 | 0 | -92 | 135 |
| Denmark | – | -6 | – | 0 | – | -6 | -25 |
| Dominican Republic | 0 | -6 | -4 | 0 | 0 | -120 | -120 |
| Estonia | – | – | – | 0 | – | 0 | 0 |
| Finland | – | – | – | 0 | – | 21 | 21 |
| France | 0 | -7 | – | -5 | – | -12 | -85 |
| Germany | 0 | – | 0 | 1 | – | 11 | -31 |
| Guatemala | 0 | -14 | – | 0 | – | -121 | -121 |
| Honduras | 0 | – | -1 | 0 | 0 | -54 | -54 |
| India | 0 | -83 | 0 | -1 | 0 | -90 | -338 |
| Indonesia | 0 | 0 | 0 | 1 | 0 | -140 | -140 |
| Italy | 0 | – | 0 | 0 | – | 31 | -108 |
| Japan | 0 | -55 | 0 | -1 | 0 | -528 | -625 |
| Korea, South | 0 | -20 | 0 | 7 | 0 | 26 | -492 |
| Latvia | – | – | – | 0 | 0 | 0 | 0 |
| Lithuania | – | – | – | 0 | – | 0 | 0 |
| Malaysia | 1 | – | – | 0 | 0 | -11 | -11 |
| Mexico | -1 | -41 | -10 | -31 | -1 | -1,006 | -484 |
| Netherlands | 0 | -2 | 0 | -1 | 0 | -24 | -358 |
| Norway | – | -2 | – | 0 | – | 8 | 84 |
| Oman | – | – | – | 0 | – | 0 | 0 |
| Panama | – | – | – | 0 | – | -137 | -154 |
| Portugal | 0 | -6 | – | 0 | – | -37 | -37 |
| Puerto Rico | 0 | – | 0 | 0 | – | -6 | -6 |
| Qatar | 0 | – | – | 0 | – | 0 | 0 |
| Russia | 0 | 0 | – | 1 | – | 361 | 474 |
| Spain | 0 | -15 | 5 | 0 | – | -39 | -59 |
| Sweden | – | – | – | 0 | – | 0 | 0 |
| Trinidad and Tobago | – | – | – | 0 | – | -44 | -9 |
| United Kingdom | 0 | -1 | – | 1 | 0 | -4 | -122 |
| Vietnam | 0 | – | 0 | 0 | – | 0 | 0 |
| Virgin Islands, U.S. | – | – | – | 0 | – | -22 | -22 |
| Yemen | – | – | – | 0 | – | 0 | 0 |
| Other | 2 | -102 | 4 | -18 | 0 | -850 | -1,299 |
| **Total** | **2** | **-531** | **25** | **-68** | **-1** | **-3,475** | **-89** |
| **Persian Gulf**[2] | **0** | **0** | **0** | **3** | **–** | **82** | **926** |

– = No Data Reported.
1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
2 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Sources: U.S. Census Bureau and EIA estimates.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2019**
(Thousand Barrels per Day)

| Country of Origin | Crude Oil[1] | Natural Gas Liquids | Refinery Olefins | Unfinished Oils | Finished Motor Gasoline | | | Motor Gasoline Blending Components | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Reform-ulated | Conven-tional | Total | Reform-ulated | Conven-tional | Total |
| **OPEC** | **1,517** | **-44** | **–** | **112** | **–** | **-37** | **-37** | **0** | **20** | **20** |
| Algeria | 23 | – | – | 71 | – | – | – | – | – | – |
| Angola | 34 | – | – | 3 | – | – | – | – | 2 | 2 |
| Congo (Brazzaville) | 20 | – | – | – | – | – | – | – | – | – |
| Ecuador | 183 | -38 | – | 4 | – | -28 | -28 | – | -6 | -6 |
| Equatorial Guinea | 10 | 0 | – | – | – | – | – | – | – | – |
| Gabon | – | – | – | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – | – | – |
| Iraq | 345 | – | – | 1 | – | – | – | – | – | – |
| Kuwait | 51 | 0 | – | 0 | – | 0 | 0 | 0 | – | 0 |
| Libya | 57 | – | – | 4 | – | – | – | – | – | – |
| Nigeria | 194 | -6 | – | 1 | – | -3 | -3 | – | 6 | 6 |
| Saudi Arabia | 531 | 0 | – | 16 | – | 0 | 0 | 0 | 9 | 9 |
| United Arab Emirates | -39 | 0 | – | 18 | – | 0 | 0 | 0 | 5 | 5 |
| Venezuela | 108 | -1 | – | -7 | – | -5 | -5 | 0 | 5 | 5 |
| **Non-OPEC** | **2,596** | **-1,526** | **21** | **272** | **–** | **-655** | **-655** | **175** | **446** | **621** |
| Argentina | 36 | 1 | – | -9 | – | -4 | -4 | – | 2 | 2 |
| Aruba | – | 0 | – | 0 | – | -1 | -1 | – | – | – |
| Australia | -30 | -11 | – | 1 | – | -10 | -10 | 0 | – | 0 |
| Bahamas | – | -1 | – | 0 | – | -3 | -3 | 0 | 0 | 0 |
| Bahrain | – | – | – | 0 | – | 0 | 0 | – | 0 | 0 |
| Belgium | -1 | -4 | – | 49 | – | 2 | 2 | 5 | 19 | 24 |
| Brazil | 69 | -50 | – | -29 | – | -51 | -51 | – | 49 | 49 |
| Brunei | 25 | – | – | -1 | – | – | – | – | – | – |
| Cameroon | 5 | – | – | 3 | – | – | – | – | – | – |
| Canada | 3,376 | -74 | 17 | -35 | – | -9 | -9 | 87 | 38 | 125 |
| Chad | 7 | – | – | – | – | – | – | – | 0 | 0 |
| China | -170 | -18 | – | -5 | – | 0 | 0 | 0 | 2 | 2 |
| Colombia | 322 | -1 | – | -46 | – | -23 | -23 | 0 | 13 | 13 |
| Denmark | -6 | 0 | – | 1 | – | 0 | 0 | 0 | 2 | 2 |
| Dominican Republic | -13 | -43 | – | -5 | – | -13 | -13 | 0 | 0 | 0 |
| Estonia | – | – | – | – | – | 0 | 0 | – | – | – |
| Finland | – | – | – | 1 | – | 1 | 1 | 0 | 27 | 27 |
| France | -52 | -22 | 0 | 2 | – | 17 | 17 | 4 | 5 | 9 |
| Germany | -30 | 0 | – | 5 | – | 0 | 0 | 0 | 3 | 3 |
| Guatemala | 7 | -13 | – | 0 | – | -36 | -36 | 0 | -5 | -5 |
| Honduras | – | -17 | – | 0 | – | -17 | -17 | – | -3 | -3 |
| India | -259 | -98 | – | 7 | – | 0 | 0 | 0 | 72 | 72 |
| Indonesia | -2 | -68 | – | 0 | – | – | – | – | 2 | 2 |
| Italy | -120 | -1 | – | 11 | – | -1 | -1 | 0 | 18 | 18 |
| Japan | -55 | -404 | – | -12 | – | 1 | 1 | 0 | 9 | 9 |
| Korea, South | -428 | -114 | – | -8 | – | 8 | 8 | 0 | 7 | 7 |
| Latvia | – | – | – | 0 | – | 0 | 0 | – | 0 | 0 |
| Lithuania | -2 | – | – | 0 | – | – | – | – | 4 | 4 |
| Malaysia | -2 | 0 | – | 1 | – | 0 | 0 | – | 1 | 1 |
| Mexico | 614 | -145 | 1 | -11 | – | -433 | -433 | 0 | -35 | -36 |
| Netherlands | -254 | -54 | – | -5 | – | 3 | 3 | 34 | 52 | 86 |
| Norway | 32 | -27 | – | 15 | – | 1 | 1 | 2 | 22 | 24 |
| Oman | – | – | – | -1 | – | – | – | – | 0 | 0 |
| Panama | -44 | 0 | – | 0 | – | -21 | -21 | – | 0 | 0 |
| Portugal | – | -13 | – | – | – | – | – | 3 | 26 | 29 |
| Puerto Rico | – | 0 | – | 0 | – | 0 | 0 | – | 0 | 0 |
| Qatar | – | – | – | 0 | – | 0 | 0 | – | 0 | 0 |
| Russia | 132 | 0 | – | 254 | – | 3 | 3 | 1 | 41 | 41 |
| Spain | -41 | -41 | – | 10 | – | 1 | 1 | 0 | 29 | 29 |
| Sweden | -2 | -16 | – | 5 | – | 1 | 1 | 0 | 3 | 3 |
| Trinidad and Tobago | 42 | 0 | – | 0 | – | -7 | -7 | – | 0 | 0 |
| United Kingdom | -143 | -48 | – | 7 | – | 15 | 15 | 39 | 21 | 59 |
| Vietnam | -7 | -2 | – | 0 | – | 0 | 0 | – | 0 | 0 |
| Virgin Islands, U.S. | – | -11 | – | – | – | -1 | -1 | 0 | – | 0 |
| Yemen | – | – | – | – | – | – | – | – | – | – |
| Other | -410 | -231 | 3 | 67 | – | -78 | -78 | 0 | 22 | 25 |
| **Total** | **4,113** | **-1,570** | **21** | **384** | **–** | **-691** | **-691** | **175** | **466** | **641** |
| **Persian Gulf[2]** | **887** | **0** | **–** | **35** | **–** | **0** | **0** | **0** | **14** | **14** |

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2019**
(Thousand Barrels per Day) — Continued

| Country of Origin | Oxygenates | | Renewable Fuels | | | | Distillate Fuel Oil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Methyl Tertiary Butyl Ether (MTBE) | Other Oxygen-ates | Fuel Ethanol | Biomass-Based Diesel | Other Renewable Diesel | Other Renewable Fuels | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | 501 to 2000 ppm | Greater than 2000 ppm | Total |
| **OPEC** | **-1** | **0** | **-4** | **–** | **–** | **–** | **-15** | **-12** | **-5** | **1** | **-32** |
| Algeria | – | – | 0 | – | – | – | -1 | -2 | -1 | – | -4 |
| Angola | – | 0 | – | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – | – | – | – |
| Ecuador | – | 0 | 0 | – | – | – | -20 | -11 | -4 | 1 | -34 |
| Equatorial Guinea | – | – | – | – | – | – | 0 | – | 0 | – | 0 |
| Gabon | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Iran | – | – | – | – | – | – | – | – | – | – | – |
| Iraq | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Kuwait | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Libya | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Nigeria | – | – | -1 | – | – | – | 1 | – | – | – | 1 |
| Saudi Arabia | – | 0 | -1 | – | – | – | 4 | – | – | – | 4 |
| United Arab Emirates | – | – | -2 | – | – | – | 1 | – | – | – | 1 |
| Venezuela | -1 | – | – | – | – | – | 0 | – | – | – | 0 |
| **Non-OPEC** | **-38** | **-26** | **-80** | **2** | **16** | **–** | **-902** | **-106** | **-137** | **6** | **-1,139** |
| Argentina | 1 | – | 0 | 0 | – | – | -34 | -1 | -1 | – | -37 |
| Aruba | – | – | 0 | – | – | – | 0 | – | – | – | 0 |
| Australia | 0 | 0 | 0 | – | – | – | 0 | – | 0 | – | 0 |
| Bahamas | – | 0 | 0 | – | – | – | -19 | -1 | -9 | 1 | -27 |
| Bahrain | – | – | 0 | – | – | – | – | – | – | – | – |
| Belgium | 0 | 0 | 0 | 1 | – | – | -1 | – | -2 | – | -3 |
| Brazil | 0 | 2 | -11 | 0 | – | – | -183 | -6 | -13 | – | -203 |
| Brunei | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Cameroon | – | – | – | – | – | – | 0 | – | – | – | 0 |
| Canada | – | 0 | -21 | -4 | – | – | 96 | -12 | -1 | 3 | 85 |
| Chad | – | – | – | – | – | – | – | – | – | – | – |
| China | 0 | 0 | 0 | – | – | – | 1 | -1 | – | – | 0 |
| Colombia | – | – | -5 | – | – | – | -16 | – | – | – | -16 |
| Denmark | – | – | – | – | – | – | -2 | – | – | – | -2 |
| Dominican Republic | – | – | 0 | – | – | – | -15 | -5 | -8 | – | -28 |
| Estonia | – | – | – | – | – | – | – | – | – | – | – |
| Finland | – | – | -1 | – | – | – | 0 | – | – | – | 0 |
| France | – | 0 | 0 | 0 | – | – | -36 | -4 | 0 | – | -40 |
| Germany | 0 | 0 | 0 | 3 | – | – | 0 | – | 0 | – | 0 |
| Guatemala | – | – | 0 | – | – | – | -18 | -19 | -3 | – | -40 |
| Honduras | – | 0 | – | – | – | – | -6 | -7 | -5 | – | -19 |
| India | -1 | 0 | -12 | 0 | – | – | 24 | – | – | – | 24 |
| Indonesia | 0 | – | 0 | – | – | – | 1 | – | – | – | 1 |
| Italy | – | – | 0 | – | – | – | -4 | – | – | – | -4 |
| Japan | – | -28 | 0 | – | – | – | 0 | 0 | – | – | 0 |
| Korea, South | -1 | 0 | -6 | 1 | – | – | -1 | – | – | – | -1 |
| Latvia | -2 | – | – | – | – | – | 0 | – | – | – | 0 |
| Lithuania | – | – | – | – | – | – | – | – | – | – | – |
| Malaysia | -1 | 0 | 0 | – | – | – | 2 | – | -1 | – | 0 |
| Mexico | -25 | 0 | -2 | 0 | – | – | -278 | -4 | -2 | – | -284 |
| Netherlands | 0 | 0 | -3 | -1 | – | – | -42 | -4 | -10 | – | -56 |
| Norway | 0 | – | 0 | – | – | – | -2 | – | – | – | -2 |
| Oman | – | – | -2 | – | – | – | 0 | – | – | – | 0 |
| Panama | – | – | 0 | – | – | – | -30 | -5 | -16 | – | -51 |
| Portugal | – | – | – | – | – | – | – | – | – | – | – |
| Puerto Rico | – | 0 | -1 | – | – | – | 0 | 0 | – | – | 0 |
| Qatar | – | – | 0 | – | – | – | 8 | – | – | – | 8 |
| Russia | – | 0 | 0 | – | – | – | 1 | 1 | – | 2 | 4 |
| Spain | – | – | -1 | 1 | – | – | -23 | -2 | -2 | – | -27 |
| Sweden | – | – | 0 | – | – | – | 0 | – | – | – | 0 |
| Trinidad and Tobago | – | – | 0 | – | – | – | -5 | -6 | -6 | – | -17 |
| United Kingdom | – | 0 | -2 | – | – | – | -40 | – | – | – | -40 |
| Vietnam | – | 0 | 0 | – | – | – | 0 | – | – | – | 0 |
| Virgin Islands, U.S. | – | – | 0 | – | – | – | -3 | 0 | -7 | – | -10 |
| Yemen | – | – | – | – | – | – | – | – | – | – | – |
| Other | -9 | 0 | -13 | 1 | 16 | – | -277 | -30 | -51 | 0 | -354 |
| **Total** | **-39** | **-26** | **-84** | **2** | **16** | **–** | **-916** | **-119** | **-142** | **6** | **-1,170** |
| **Persian Gulf**[2] | **–** | **0** | **-3** | **–** | **–** | **–** | **13** | **–** | **–** | **–** | **13** |

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2019**
(Thousand Barrels per Day) — Continued

| Country of Origin | Kerosene | Finished Aviation Gasoline | Aviation Gasoline Blending Components | Kerosene-Type Jet Fuel | Special Naphthas | Residual Fuel Oil | Petrochemical Feedstocks | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Naphtha | Other Oils |
| **OPEC** | **0** | **–** | **–** | **5** | **–** | **1** | **–** | **–** |
| Algeria | – | – | – | – | – | – | – | – |
| Angola | – | – | – | – | – | – | – | – |
| Congo (Brazzaville) | – | – | – | – | – | – | – | – |
| Ecuador | 0 | – | – | 0 | – | -9 | – | – |
| Equatorial Guinea | – | – | – | – | – | – | – | – |
| Gabon | 0 | – | – | – | – | – | – | – |
| Iran | – | – | – | – | – | – | – | – |
| Iraq | 0 | – | – | 0 | – | 0 | – | – |
| Kuwait | – | – | – | 0 | – | – | – | – |
| Libya | – | – | – | 0 | – | 0 | – | – |
| Nigeria | – | – | – | 0 | – | – | – | – |
| Saudi Arabia | 0 | – | – | 2 | – | 2 | – | – |
| United Arab Emirates | 0 | – | – | 2 | – | -1 | – | – |
| Venezuela | – | – | – | 0 | – | 9 | – | – |
| **Non-OPEC** | **-2** | **1** | **–** | **-53** | **16** | **-102** | **14** | **3** |
| Argentina | – | – | – | -3 | – | 7 | – | – |
| Aruba | 0 | – | – | -2 | – | – | – | – |
| Australia | – | – | – | – | – | 0 | – | – |
| Bahamas | – | – | – | -2 | – | -10 | – | – |
| Bahrain | – | – | – | 0 | – | – | – | – |
| Belgium | – | – | – | – | – | 0 | 0 | – |
| Brazil | 0 | – | – | -7 | 1 | -1 | – | 0 |
| Brunei | – | – | – | – | – | – | – | – |
| Cameroon | – | – | – | – | – | – | – | – |
| Canada | -2 | 0 | – | -27 | 2 | 11 | 3 | 2 |
| Chad | – | – | – | – | – | – | – | – |
| China | 0 | – | – | 5 | – | 0 | – | – |
| Colombia | 0 | – | – | -1 | – | 15 | – | – |
| Denmark | – | – | – | 0 | – | – | – | – |
| Dominican Republic | 0 | – | – | -8 | – | -3 | – | – |
| Estonia | – | – | – | – | – | – | – | – |
| Finland | – | – | – | -2 | – | 0 | – | – |
| France | 0 | – | – | – | 0 | – | – | 1 |
| Germany | – | – | – | – | – | 0 | – | – |
| Guatemala | 0 | – | – | -6 | – | -2 | – | – |
| Honduras | 0 | – | – | -2 | – | -8 | – | – |
| India | – | – | – | 2 | 1 | 0 | – | – |
| Indonesia | – | – | – | – | – | – | – | – |
| Italy | – | – | – | – | – | – | 0 | – |
| Japan | 0 | – | – | 20 | 3 | 0 | 2 | 0 |
| Korea, South | 0 | 0 | – | 94 | 8 | -1 | 0 | – |
| Latvia | – | – | – | 0 | – | – | – | – |
| Lithuania | 0 | – | – | – | – | – | – | – |
| Malaysia | 0 | – | – | – | – | -1 | – | – |
| Mexico | -1 | – | – | -53 | 1 | -26 | 7 | – |
| Netherlands | – | 1 | – | -6 | 0 | -21 | – | – |
| Norway | – | – | – | – | – | 1 | – | – |
| Oman | – | – | – | – | – | – | – | – |
| Panama | 0 | – | – | -12 | – | -25 | – | – |
| Portugal | – | – | – | – | – | – | – | – |
| Puerto Rico | 0 | – | – | 0 | – | 0 | – | – |
| Qatar | 0 | – | – | 2 | – | – | – | – |
| Russia | – | – | – | 0 | 0 | 27 | – | – |
| Spain | – | – | – | – | – | – | – | – |
| Sweden | – | – | – | 0 | – | 1 | – | – |
| Trinidad and Tobago | 0 | – | – | -6 | – | – | – | – |
| United Kingdom | 0 | – | – | -7 | – | -3 | 1 | – |
| Vietnam | 0 | – | – | 0 | – | 0 | – | – |
| Virgin Islands, U.S. | 0 | – | – | -7 | – | -6 | – | – |
| Yemen | – | – | – | – | – | – | – | – |
| Other | 1 | 0 | – | -25 | 0 | -57 | 1 | 0 |
| **Total** | **-2** | **1** | **–** | **-48** | **16** | **-101** | **14** | **3** |
| **Persian Gulf**[2] | **0** | **–** | **–** | **7** | **–** | **1** | **–** | **–** |

See footnotes at end of table.

**Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-September 2019**
(Thousand Barrels per Day) — Continued

| Country of Origin | Waxes | Petroleum Coke | Asphalt and Road Oil | Lubricants | Miscellanous Products | Total Products | Total Crude Oil and Products |
|---|---|---|---|---|---|---|---|
| **OPEC** | **0** | **-11** | **0** | **-3** | **0** | **8** | **1,525** |
| Algeria | – | – | 0 | 1 | – | 69 | 92 |
| Angola | – | – | 0 | 0 | – | 5 | 39 |
| Congo (Brazzaville) | – | – | – | – | – | – | 21 |
| Ecuador | 0 | -6 | 0 | -2 | 0 | -118 | 65 |
| Equatorial Guinea | – | – | – | 0 | – | 0 | 10 |
| Gabon | – | – | 0 | 0 | – | 0 | 0 |
| Iran | – | – | – | – | – | – | – |
| Iraq | – | – | 0 | 0 | – | 1 | 346 |
| Kuwait | – | 0 | 0 | 0 | – | 0 | 51 |
| Libya | – | – | – | 0 | – | 4 | 61 |
| Nigeria | 0 | – | 0 | -3 | – | -5 | 189 |
| Saudi Arabia | 0 | -1 | 0 | 0 | 0 | 32 | 563 |
| United Arab Emirates | 0 | -4 | 0 | 2 | 0 | 20 | -19 |
| Venezuela | 0 | 0 | 0 | 0 | 0 | -1 | 107 |
| **Non-OPEC** | **1** | **-525** | **17** | **-62** | **-2** | **-3,227** | **-631** |
| Argentina | 0 | 2 | 0 | -1 | 0 | -41 | -5 |
| Aruba | – | – | 0 | 0 | – | -4 | -4 |
| Australia | 0 | -6 | 0 | -1 | 0 | -26 | -56 |
| Bahamas | 0 | – | 0 | 0 | 0 | -43 | -43 |
| Bahrain | 0 | – | – | 2 | – | 2 | 2 |
| Belgium | 0 | -11 | 0 | -14 | 0 | 43 | 43 |
| Brazil | 0 | -45 | 0 | -13 | 0 | -355 | -286 |
| Brunei | – | – | – | 0 | – | -1 | 24 |
| Cameroon | – | – | – | 0 | – | 3 | 8 |
| Canada | -1 | -24 | 29 | -1 | 0 | 76 | 3,452 |
| Chad | – | – | – | 0 | – | 0 | 7 |
| China | 2 | -39 | 0 | -1 | 0 | -55 | -224 |
| Colombia | 0 | -1 | 0 | -3 | 0 | -66 | 256 |
| Denmark | 0 | -3 | – | 0 | – | -2 | -8 |
| Dominican Republic | 0 | -6 | -3 | -1 | 0 | -110 | -123 |
| Estonia | – | – | – | 0 | – | 0 | 0 |
| Finland | 0 | -1 | 0 | 0 | – | 25 | 25 |
| France | 0 | -6 | – | -2 | – | -42 | -94 |
| Germany | 0 | -1 | 0 | 1 | 0 | 11 | -19 |
| Guatemala | 0 | -9 | 0 | -1 | – | -112 | -105 |
| Honduras | 0 | -5 | -1 | 0 | 0 | -71 | -71 |
| India | 0 | -90 | 0 | -2 | 0 | -98 | -358 |
| Indonesia | 0 | 0 | 0 | 2 | 0 | -63 | -65 |
| Italy | 0 | -15 | 0 | 0 | – | 8 | -112 |
| Japan | 0 | -64 | 0 | 0 | 0 | -475 | -530 |
| Korea, South | 0 | -8 | 0 | 11 | 0 | -9 | -437 |
| Latvia | – | – | – | 0 | 0 | -2 | -2 |
| Lithuania | 0 | 0 | – | 0 | – | 4 | 2 |
| Malaysia | 0 | -2 | 0 | 0 | 0 | -1 | -3 |
| Mexico | -1 | -54 | -10 | -35 | -1 | -1,106 | -493 |
| Netherlands | 0 | -10 | 0 | -2 | 0 | -68 | -322 |
| Norway | 0 | -3 | – | 0 | – | 9 | 41 |
| Oman | – | 1 | 0 | 0 | – | -3 | -3 |
| Panama | 0 | -2 | -1 | -1 | 0 | -114 | -158 |
| Portugal | 0 | -3 | – | 0 | – | 13 | 13 |
| Puerto Rico | 0 | 0 | 0 | 0 | – | -2 | -2 |
| Qatar | 0 | -1 | 0 | 11 | – | 20 | 20 |
| Russia | 0 | 0 | 0 | 1 | – | 330 | 462 |
| Spain | 0 | -13 | 3 | 0 | 0 | -38 | -78 |
| Sweden | 0 | -1 | – | 0 | 0 | -7 | -9 |
| Trinidad and Tobago | 0 | 0 | 0 | 0 | 0 | -30 | 12 |
| United Kingdom | 0 | -3 | 0 | 0 | 0 | -21 | -164 |
| Vietnam | 0 | 0 | 0 | 0 | 0 | -2 | -10 |
| Virgin Islands, U.S. | – | – | 0 | 0 | 0 | -35 | -35 |
| Yemen | – | – | – | 0 | – | 0 | 0 |
| Other | 1 | -102 | 0 | -12 | -1 | -769 | -1,179 |
| **Total** | **1** | **-536** | **16** | **-64** | **-2** | **-3,219** | **894** |
| **Persian Gulf**[2] | **0** | **-6** | **0** | **14** | **0** | **76** | **963** |

– = No Data Reported.
1 On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.
2 Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.
Note: Totals may not equal sum of components due to independent rounding.
Sources: U.S. Census Bureau and EIA estimates.

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2019**
(Thousand Barrels)

| Commodity | PAD Districts | | | | | U.S. Total |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | |
| **Crude Oil** | **9,779** | **127,979** | **866,645** | **20,632** | **46,239** | **1,071,274** |
| Refinery | 7,233 | 13,542 | 44,189 | 2,576 | 21,484 | 89,024 |
| Tank Farms and Pipelines (Includes Cushing, OK) | 2,546 | 114,437 | 177,638 | 18,056 | 22,393 | 335,070 |
| Cushing, Oklahoma | – | 40,042 | – | – | – | 40,042 |
| Leases | – – | – – | – – | – – | – – | – – |
| Strategic Petroleum Reserve[1] | – | – | 644,818 | – | – | 644,818 |
| Alaskan In Transit | – | – | – | – | 2,362 | 2,362 |
| **Total Stocks, All Oils (excluding Crude Oil)[2]** | **155,306** | **193,042** | **417,526** | **23,059** | **89,160** | **878,093** |
| Refinery | 14,677 | 50,587 | 129,244 | 11,440 | 49,113 | 255,061 |
| Bulk Terminal | 113,471 | 105,183 | 229,331 | 7,404 | 34,655 | 490,044 |
| Pipeline | 26,886 | 35,869 | 56,703 | 4,023 | 4,878 | 128,359 |
| Natural Gas Processing Plant | 272 | 1,403 | 2,248 | 192 | 514 | 4,629 |
| **Natural Gas Liquids** | **11,609** | **64,343** | **171,700** | **4,880** | **6,119** | **258,651** |
| Refinery | 530 | 4,940 | 9,131 | 383 | 1,756 | 16,740 |
| Bulk Terminal | 9,241 | 43,278 | 139,753 | 2,249 | 3,849 | 198,370 |
| Pipeline | 1,566 | 14,722 | 20,568 | 2,056 | – | 38,912 |
| Natural Gas Processing Plant | 272 | 1,403 | 2,248 | 192 | 514 | 4,629 |
| **Ethane** | **663** | **5,978** | **50,234** | **503** | **–** | **57,378** |
| Refinery | – | – | 240 | – | – | 240 |
| Bulk Terminal | 429 | 3,046 | 42,668 | – | – | 46,143 |
| Pipeline | 234 | 2,862 | 7,105 | 496 | – | 10,697 |
| Natural Gas Processing Plant | – | 70 | 221 | 7 | – | 298 |
| **Propane** | **7,901** | **27,307** | **56,059** | **1,782** | **2,540** | **95,589** |
| Refinery | 101 | 1,714 | 1,226 | 45 | 94 | 3,180 |
| Bulk Terminal | 6,577 | 21,531 | 48,113 | 876 | 2,341 | 79,438 |
| Pipeline | 1,095 | 3,312 | 6,499 | 780 | – | 11,686 |
| Natural Gas Processing Plant | 128 | 750 | 221 | 81 | 105 | 1,285 |
| **Normal Butane** | **2,533** | **19,786** | **45,983** | **1,953** | **3,055** | **73,310** |
| Refinery | 324 | 2,315 | 5,741 | 232 | 1,222 | 9,834 |
| Bulk Terminal | 1,992 | 15,976 | 35,988 | 1,364 | 1,502 | 56,822 |
| Pipeline | 162 | 1,292 | 2,945 | 311 | – | 4,710 |
| Natural Gas Processing Plant | 55 | 203 | 1,309 | 46 | 331 | 1,944 |
| **Isobutane** | **155** | **2,145** | **8,063** | **258** | **473** | **11,094** |
| Refinery | 105 | 637 | 1,351 | 79 | 440 | 2,612 |
| Bulk Terminal | – | 798 | 5,468 | – | – | 6,266 |
| Pipeline | 38 | 542 | 981 | 161 | – | 1,722 |
| Natural Gas Processing Plant | 12 | 168 | 263 | 18 | 33 | 494 |
| **Natural Gasoline** | **357** | **9,127** | **11,361** | **384** | **51** | **21,280** |
| Refinery | – | 274 | 573 | 27 | – | 874 |
| Bulk Terminal | 243 | 1,927 | 7,516 | 9 | 6 | 9,701 |
| Pipeline | 37 | 6,714 | 3,038 | 308 | – | 10,097 |
| Natural Gas Processing Plant | 77 | 212 | 234 | 40 | 45 | 608 |
| **Refinery Olefins** | **341** | **742** | **7,153** | **84** | **127** | **8,447** |
| Refinery | 341 | 739 | 2,848 | 84 | 127 | 4,139 |
| Bulk Terminal | – | 3 | 4,305 | – | – | 4,308 |
| Pipeline | – | – | – | – | – | – |
| Natural Gas Processing Plant | – | – | – | – | – | – |
| **Ethylene** | **–** | **–** | **0** | **–** | **–** | **0** |
| Refinery | – | – | 0 | – | – | 0 |
| Bulk Terminal | – | – | – | – | – | – |
| Pipeline | – | – | – | – | – | – |
| Natural Gas Processing Plant | – | – | – | – | – | – |
| **Propylene** | **155** | **486** | **6,313** | **0** | **13** | **6,967** |
| Refinery | 155 | 483 | 2,008 | 0 | 13 | 2,659 |
| Bulk Terminal | – | 3 | 4,305 | – | – | 4,308 |
| Pipeline | – | – | – | – | – | – |
| Natural Gas Processing Plant | – | – | – | – | – | – |
| **Normal Butylene** | **160** | **256** | **840** | **84** | **114** | **1,454** |
| Refinery | 160 | 256 | 840 | 84 | 114 | 1,454 |
| Bulk Terminal | – | – | – | – | – | – |
| Pipeline | – | – | – | – | – | – |
| Natural Gas Processing Plant | – | – | – | – | – | – |
| **Isobutylene** | **26** | **0** | **0** | **0** | **0** | **26** |
| Refinery | 26 | 0 | 0 | 0 | 0 | 26 |
| Bulk Terminal | – | – | – | – | – | – |
| Pipeline | – | – | – | – | – | – |
| Natural Gas Processing Plant | – | – | – | – | – | – |
| **Other Hydrocarbons** | **–** | **15** | **–** | **–** | **–** | **15** |
| Refinery | – | 15 | – | – | – | 15 |
| **Oxygenates (excluding Fuel Ethanol)** | **–** | **2** | **1,318** | **–** | **–** | **1,320** |
| Refinery | – | – | – | – | – | – |
| Bulk Terminal | – | 2 | 1,318 | – | – | 1,320 |
| Pipeline | – | – | – | – | – | – |

See footnotes at end of table.

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2019**
(Thousand Barrels) — Continued

| Commodity | PAD Districts | | | | | U.S. Total |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | |
| **MTBE** | **–** | **–** | **1,196** | **–** | **–** | **1,196** |
| Refinery | – | – | – | – | – | – |
| Bulk Terminal[3] | – | – | 1,196 | – | – | 1,196 |
| Pipeline | – | – | – | – | – | – |
| **Other Oxygenates[4]** | **–** | **2** | **122** | **–** | **–** | **124** |
| Refinery | – | – | – | – | – | – |
| Bulk Terminal | – | 2 | 122 | – | – | 124 |
| Pipeline | – | – | – | – | – | – |
| **Renewable Fuels (including Fuel Ethanol)** | **8,321** | **8,200** | **6,615** | **411** | **4,798** | **28,345** |
| Refinery | 231 | 134 | 405 | 188 | 411 | 1,369 |
| Bulk Terminal | 8,090 | 8,066 | 6,210 | 220 | 4,387 | 26,973 |
| Pipeline | – | – | – | 3 | – | 3 |
| **Fuel Ethanol[2]** | **7,144** | **7,403** | **5,061** | **339** | **3,089** | **23,036** |
| Refinery | 223 | 97 | 213 | 121 | 29 | 683 |
| Bulk Terminal | 6,921 | 7,306 | 4,848 | 215 | 3,060 | 22,350 |
| Pipeline | – | – | – | 3 | – | 3 |
| **Renewable Diesel Fuel[5]** | **1,177** | **797** | **1,549** | **72** | **1,665** | **5,260** |
| Refinery | 8 | 37 | 192 | 67 | 382 | 686 |
| Bulk Terminal | 1,169 | 760 | 1,357 | 5 | 1,283 | 4,574 |
| Pipeline | – | – | – | – | – | – |
| **Other Renewable Fuels** | **–** | **–** | **5** | **–** | **44** | **49** |
| Refinery | – | – | – | – | – | – |
| Bulk Terminal | – | – | 5 | – | 44 | 49 |
| Pipeline | – | – | – | – | – | – |
| **Unfinished Oils** | **4,132** | **13,747** | **52,120** | **3,060** | **19,154** | **92,213** |
| **Naphthas and Lighter** | **1,114** | **3,491** | **11,154** | **822** | **3,603** | **20,184** |
| Refinery | 1,114 | 3,440 | 9,829 | 822 | 3,043 | 18,248 |
| Bulk Terminal | – | 51 | 1,325 | – | 560 | 1,936 |
| **Kerosene and Light Gas Oils** | **552** | **2,478** | **8,670** | **447** | **3,529** | **15,676** |
| Refinery | 552 | 2,478 | 6,608 | 447 | 3,412 | 13,497 |
| Bulk Terminal | – | – | 2,062 | – | 117 | 2,179 |
| **Heavy Gas Oils** | **1,817** | **5,399** | **25,935** | **1,257** | **9,336** | **43,744** |
| Refinery | 1,801 | 5,316 | 20,507 | 1,257 | 9,197 | 38,078 |
| Bulk Terminal | 16 | 83 | 5,428 | – | 139 | 5,666 |
| **Residuum** | **649** | **2,379** | **6,361** | **534** | **2,686** | **12,609** |
| Refinery | 649 | 2,193 | 5,917 | 534 | 2,657 | 11,950 |
| Bulk Terminal | – | 186 | 444 | – | 29 | 659 |
| **Motor Gasoline Blending Components[2]** | **60,715** | **44,318** | **73,293** | **5,974** | **24,587** | **208,887** |
| Refinery | 4,416 | 12,945 | 28,640 | 3,276 | 12,890 | 62,167 |
| Bulk Terminal | 44,979 | 22,570 | 26,645 | 1,803 | 9,053 | 105,050 |
| Pipeline | 11,320 | 8,803 | 18,008 | 895 | 2,644 | 41,670 |
| **Reformulated - RBOB** | **18,535** | **5,252** | **10,317** | **–** | **11,343** | **45,447** |
| Refinery | 1,097 | 1,030 | 1,577 | – | 4,431 | 8,135 |
| Bulk Terminal | 13,475 | 3,186 | 4,628 | – | 5,331 | 26,620 |
| Pipeline | 3,963 | 1,036 | 4,112 | – | 1,581 | 10,692 |
| **Conventional** | **42,180** | **39,066** | **62,976** | **5,974** | **13,244** | **163,440** |
| Refinery | 3,319 | 11,915 | 27,063 | 3,276 | 8,459 | 54,032 |
| Bulk Terminal | 31,504 | 19,384 | 22,017 | 1,803 | 3,722 | 78,430 |
| Pipeline | 7,357 | 7,767 | 13,896 | 895 | 1,063 | 30,978 |
| **CBOB** | **27,987** | **31,246** | **35,201** | **4,328** | **6,610** | **105,372** |
| Refinery | 591 | 5,402 | 11,063 | 1,633 | 2,146 | 20,835 |
| Bulk Terminal | 20,039 | 18,332 | 10,363 | 1,800 | 3,404 | 53,938 |
| Pipeline | 7,357 | 7,512 | 13,775 | 895 | 1,060 | 30,599 |
| **GTAB** | **895** | **–** | **–** | **–** | **–** | **895** |
| Refinery | – | – | – | – | – | – |
| Bulk Terminal | 895 | – | – | – | – | 895 |
| Pipeline | – | – | – | – | – | – |
| **Other** | **13,298** | **7,820** | **27,775** | **1,646** | **6,634** | **57,173** |
| Refinery | 2,728 | 6,513 | 16,000 | 1,643 | 6,313 | 33,197 |
| Bulk Terminal | 10,570 | 1,052 | 11,654 | 3 | 318 | 23,597 |
| Pipeline | – | 255 | 121 | – | 3 | 379 |
| **Aviation Gasoline Blending Components** | **–** | **–** | **44** | **–** | **–** | **44** |
| Refinery | – | – | 44 | – | – | 44 |
| Bulk Terminal | – | – | – | – | – | – |
| **Finished Motor Gasoline** | **4,213** | **6,632** | **8,237** | **1,677** | **2,238** | **22,997** |
| Refinery | 70 | 1,293 | 2,812 | 867 | 710 | 5,752 |
| Bulk Terminal | 2,162 | 2,425 | 3,168 | 597 | 1,317 | 9,669 |
| Pipeline | 1,981 | 2,914 | 2,257 | 213 | 211 | 7,576 |
| **Reformulated** | **36** | **–** | **–** | **–** | **13** | **49** |
| Refinery | – | – | – | – | 13 | 13 |
| Bulk Terminal | 36 | – | – | – | – | 36 |
| Pipeline | – | – | – | – | – | – |
| **Reformulated (Blended with Fuel Ethanol)** | **36** | **–** | **–** | **–** | **13** | **49** |
| Refinery | – | – | – | – | 13 | 13 |
| Bulk Terminal | 36 | – | – | – | – | 36 |
| Pipeline | – | – | – | – | – | – |

See footnotes at end of table.

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2019**
(Thousand Barrels) — Continued

| Commodity | PAD Districts | | | | | U.S. Total |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | |
| **Reformulated (Other)** | **–** | **–** | **–** | **–** | **–** | **–** |
| Refinery | – | – | – | – | – | – |
| Bulk Terminal | – | – | – | – | – | – |
| Pipeline | – | – | – | – | – | – |
| **Conventional** | **4,177** | **6,632** | **8,237** | **1,677** | **2,225** | **22,948** |
| Refinery | 70 | 1,293 | 2,812 | 867 | 697 | 5,739 |
| Bulk Terminal | 2,126 | 2,425 | 3,168 | 597 | 1,317 | 9,633 |
| Pipeline | 1,981 | 2,914 | 2,257 | 213 | 211 | 7,576 |
| **Conventional (Blended with Fuel Ethanol)** | **57** | **181** | **–** | **65** | **6** | **309** |
| Refinery | – | – | – | 63 | – | 63 |
| Bulk Terminal | 57 | 181 | – | 2 | 6 | 246 |
| Pipeline | – | – | – | – | – | – |
| **Ed55 and Lower** | **57** | **181** | **–** | **65** | **–** | **303** |
| Refinery | – | – | – | 63 | – | 63 |
| Bulk Terminal | 57 | 181 | – | 2 | – | 240 |
| Pipeline | – | – | – | – | – | – |
| **Greater than Ed55** | **–** | **–** | **–** | **–** | **–** | **–** |
| Refinery | – | – | – | – | – | – |
| Bulk Terminal | – | – | – | – | 6 | 6 |
| Pipeline | – | – | – | – | – | – |
| **Conventional (Other)** | **4,120** | **6,451** | **8,237** | **1,612** | **2,219** | **22,639** |
| Refinery | 70 | 1,293 | 2,812 | 804 | 697 | 5,676 |
| Bulk Terminal | 2,069 | 2,244 | 3,168 | 595 | 1,311 | 9,387 |
| Pipeline | 1,981 | 2,914 | 2,257 | 213 | 211 | 7,576 |
| **Finished Aviation Gasoline** | **195** | **127** | **411** | **10** | **152** | **895** |
| Refinery | – | 38 | 322 | 10 | 59 | 429 |
| Bulk Terminal | 195 | 89 | 89 | – | 93 | 466 |
| Pipeline | – | – | – | – | – | – |
| **Kerosene-Type Jet Fuel** | **10,593** | **7,723** | **15,865** | **748** | **9,429** | **44,358** |
| Refinery | 518 | 2,094 | 6,843 | 282 | 3,925 | 13,662 |
| Bulk Terminal | 5,095 | 3,712 | 4,630 | 345 | 4,735 | 18,517 |
| Pipeline | 4,980 | 1,917 | 4,392 | 121 | 769 | 12,179 |
| **Kerosene** | **1,688** | **154** | **146** | **2** | **43** | **2,033** |
| Refinery | 77 | 101 | 123 | 2 | 1 | 304 |
| Bulk Terminal | 1,398 | 53 | 9 | – | 42 | 1,502 |
| Pipeline | 213 | – | 14 | – | – | 227 |
| **Distillate Fuel Oil**[2] | **40,145** | **33,005** | **41,517** | **4,246** | **12,818** | **131,731** |
| Refinery | 2,031 | 6,955 | 14,773 | 1,916 | 5,325 | 31,000 |
| Bulk Terminal | 31,288 | 18,537 | 15,280 | 1,595 | 6,248 | 72,948 |
| Pipeline | 6,826 | 7,513 | 11,464 | 735 | 1,245 | 27,783 |
| **15 ppm sulfur and Under** | **35,281** | **31,941** | **33,579** | **4,021** | **11,919** | **116,741** |
| Refinery | 1,486 | 6,315 | 11,752 | 1,749 | 4,835 | 26,137 |
| Bulk Terminal | 27,704 | 18,388 | 10,825 | 1,539 | 5,896 | 64,352 |
| Pipeline | 6,091 | 7,238 | 11,002 | 733 | 1,188 | 26,252 |
| **Greater than 15 ppm to 500 ppm sulfur** | **1,465** | **608** | **1,931** | **184** | **177** | **4,365** |
| Refinery | 270 | 238 | 886 | 126 | 177 | 1,697 |
| Bulk Terminal | 1,186 | 134 | 972 | 56 | – | 2,348 |
| Pipeline | 9 | 236 | 73 | 2 | – | 320 |
| **Greater than 500 ppm sulfur** | **3,399** | **456** | **6,007** | **41** | **722** | **10,625** |
| Refinery | 275 | 402 | 2,135 | 41 | 313 | 3,166 |
| Bulk Terminal | 2,398 | 15 | 3,483 | – | 352 | 6,248 |
| Pipeline | 726 | 39 | 389 | – | 57 | 1,211 |
| **Residual Fuel Oil**[6] | **6,949** | **1,186** | **16,462** | **229** | **5,070** | **29,896** |
| Refinery | 845 | 999 | 3,459 | 229 | 2,575 | 8,107 |
| Bulk Terminal | 6,104 | 187 | 13,003 | – | 2,486 | 21,780 |
| Pipeline | – | – | – | – | 9 | 9 |
| **Less than 0.31% Sulfur** | **1,569** | **74** | **1,601** | **32** | **180** | **3,456** |
| Refinery | 273 | 74 | 36 | 32 | – | 415 |
| Bulk Terminal | 1,296 | – | 1,565 | – | 180 | 3,041 |
| **0.31% to 1.00% Sulfur** | **1,066** | **221** | **2,914** | **6** | **425** | **4,632** |
| Refinery | 91 | 139 | 148 | 6 | 246 | 630 |
| Bulk Terminal | 975 | 82 | 2,766 | – | 179 | 4,002 |
| **Greater than 1.00% Percent Sulfur** | **4,314** | **891** | **11,947** | **191** | **4,456** | **21,799** |
| Refinery | 481 | 786 | 3,275 | 191 | 2,329 | 7,062 |
| Bulk Terminal | 3,833 | 105 | 8,672 | – | 2,127 | 14,737 |
| **Petrochemical Feedstocks** | **43** | **556** | **2,501** | **–** | **6** | **3,106** |
| Refinery | 43 | 556 | 2,501 | – | 6 | 3,106 |
| Naphtha for Petrochemical Feedstock Use | 43 | 456 | 1,677 | – | 6 | 2,182 |
| Other Oils for Petrochemical Feedstock Use | – | 100 | 824 | – | – | 924 |
| **Special Naphthas** | **36** | **163** | **977** | **–** | **43** | **1,219** |
| Refinery | 19 | 77 | 969 | – | 43 | 1,108 |
| Bulk Terminal | 17 | 86 | 8 | – | – | 111 |
| **Lubricants** | **1,090** | **724** | **8,969** | **–** | **666** | **11,449** |
| Refinery | 586 | 313 | 5,885 | – | 504 | 7,288 |
| Bulk Terminal | 504 | 411 | 3,084 | – | 162 | 4,161 |
| **Waxes** | **342** | **68** | **255** | **–** | **–** | **665** |
| Refinery | 342 | 68 | 255 | – | – | 665 |
| **Petroleum Coke** | **–** | **1,791** | **4,902** | **161** | **1,703** | **8,557** |
| Refinery | – | 1,791 | 4,902 | 161 | 1,703 | 8,557 |
| **Asphalt and Road Oil** | **4,861** | **9,442** | **4,622** | **1,555** | **2,125** | **22,605** |
| Refinery | 479 | 3,998 | 2,052 | 960 | 687 | 8,176 |
| Bulk Terminal | 4,382 | 5,444 | 2,570 | 595 | 1,438 | 14,429 |

**Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, September 2019**
(Thousand Barrels) — Continued

| Commodity | PAD Districts | | | | | U.S. Total |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | |
| **Miscellaneous Products** | **33** | **104** | **419** | **22** | **82** | **660** |
| Refinery | 33 | 104 | 419 | 22 | 82 | 660 |
| Bulk Terminal | – | – | – | – | – | – |
| Pipeline | – | – | – | – | – | – |
| **Total Stocks, All Oils** | **165,085** | **321,021** | **1,284,171** | **43,691** | **135,399** | **1,949,367** |

– = No Data Reported.
Lease stocks were excluded from crude oil stocks beginning with data for July 2016 (see explanatory notes).
[1] Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.
[2] Excludes stocks located in the “Northeast Heating Oil Reserve”, “Northeast Regional Refined Petroleum Product Reserve”, and “State of New York’s Strategic Fuels Reserve Program”. For details see Appendix D.
Includes stocks held at fuel ethanol production facilities.
[3] Includes stocks held by merchant producers.
[4] Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).
[5] Renewable diesel fuel includes biodiesel and other renewable diesel.
[6] Sulfur content not available for stocks held by pipelines.
Note: Stocks are reported as of the last day of the month.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

**Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, September 2019**
(Thousand Barrels)

| Commodity | Motor Gasoline | | | Motor Gasoline Blending Components[1] | | | Kerosene |
|---|---|---|---|---|---|---|---|
| | Reformulated | Conventional | Total | Reformulated | Conventional | Total | |
| **PAD District 1** | **36** | **2,196** | **2,232** | **14,572** | **34,823** | **49,395** | **1,475** |
| Connecticut | – | – | – | 777 | 38 | 815 | 8 |
| Delaware | – | – | – | 726 | 290 | 1,016 | 65 |
| District of Columbia | – | – | – | – | – | – | – |
| Florida | – | 831 | 831 | – | 6,919 | 6,919 | – |
| Georgia | – | 287 | 287 | – | 2,798 | 2,798 | – |
| Maine | – | – | – | 450 | 240 | 690 | 177 |
| Maryland | – | – | – | 1,281 | 107 | 1,388 | 77 |
| Massachusetts | 5 | – | 5 | 1,375 | 29 | 1,404 | 30 |
| New Hampshire | – | – | – | – | – | – | – |
| New Jersey | – | 463 | 463 | 6,204 | 12,989 | 19,193 | 194 |
| New York | 31 | 13 | 44 | 686 | 1,797 | 2,483 | 482 |
| North Carolina | – | 246 | 246 | – | 2,306 | 2,306 | 258 |
| Pennsylvania | – | 25 | 25 | 692 | 4,458 | 5,150 | 117 |
| Rhode Island | – | – | – | 862 | – | 862 | – |
| South Carolina | – | 154 | 154 | – | 1,158 | 1,158 | 22 |
| Vermont | – | 57 | 57 | – | – | – | 4 |
| Virginia | – | 54 | 54 | 1,519 | 1,524 | 3,043 | 41 |
| West Virginia | – | 66 | 66 | – | 170 | 170 | – |
| **PAD District 2** | **–** | **3,718** | **3,718** | **4,216** | **31,299** | **35,515** | **154** |
| Illinois | – | 234 | 234 | 2,308 | 4,494 | 6,802 | 86 |
| Indiana | – | 251 | 251 | 831 | 4,540 | 5,371 | – |
| Iowa | – | 148 | 148 | – | 1,599 | 1,599 | 9 |
| Kansas | – | 308 | 308 | – | 3,256 | 3,256 | 21 |
| Kentucky | – | 192 | 192 | 339 | 1,207 | 1,546 | 2 |
| Michigan | – | 158 | 158 | 62 | 2,816 | 2,878 | – |
| Minnesota | – | 456 | 456 | – | 2,376 | 2,376 | – |
| Missouri | – | 147 | 147 | 107 | 460 | 567 | – |
| Nebraska | – | 96 | 96 | – | 517 | 517 | – |
| North Dakota | – | 92 | 92 | – | 788 | 788 | – |
| Ohio | – | 767 | 767 | 3 | 3,752 | 3,755 | 20 |
| Oklahoma | – | 583 | 583 | – | 2,278 | 2,278 | – |
| South Dakota | – | 37 | 37 | – | 304 | 304 | – |
| Tennessee | – | 160 | 160 | – | 1,791 | 1,791 | – |
| Wisconsin | – | 89 | 89 | 566 | 1,121 | 1,687 | 16 |
| **PAD District 3** | **–** | **5,980** | **5,980** | **6,205** | **49,080** | **55,285** | **132** |
| Alabama | – | 162 | 162 | – | 1,457 | 1,457 | 8 |
| Arkansas | – | 127 | 127 | 9 | 657 | 666 | – |
| Louisiana | – | 1,399 | 1,399 | 220 | 11,674 | 11,894 | 95 |
| Mississippi | – | 1,220 | 1,220 | – | 1,869 | 1,869 | – |
| New Mexico | – | 21 | 21 | – | 696 | 696 | – |
| Texas | – | 3,051 | 3,051 | 5,976 | 32,727 | 38,703 | 29 |
| **PAD District 4** | **–** | **1,464** | **1,464** | **–** | **5,079** | **5,079** | **2** |
| Colorado | – | 230 | 230 | – | 1,293 | 1,293 | – |
| Idaho | – | 225 | 225 | – | 80 | 80 | – |
| Montana | – | 428 | 428 | – | 1,480 | 1,480 | – |
| Utah | – | 125 | 125 | – | 1,378 | 1,378 | 2 |
| Wyoming | – | 456 | 456 | – | 848 | 848 | – |
| **PAD District 5** | **13** | **2,014** | **2,027** | **9,762** | **12,181** | **21,943** | **43** |
| Alaska | – | 774 | 774 | – | – | – | 42 |
| Arizona | – | 71 | 71 | 721 | 428 | 1,149 | – |
| California | 13 | 340 | 353 | 8,972 | 6,136 | 15,108 | 1 |
| Hawaii | – | 117 | 117 | – | 698 | 698 | – |
| Nevada | – | 202 | 202 | 10 | 409 | 419 | – |
| Oregon | – | 45 | 45 | – | 1,126 | 1,126 | – |
| Washington | – | 465 | 465 | 59 | 3,384 | 3,443 | – |
| **U.S. Total** | **49** | **15,372** | **15,421** | **34,755** | **132,462** | **167,217** | **1,806** |

See footnotes at end of table.

**Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, September 2019**
(Thousand Barrels) — Continued

| Commodity | Distillate Fuel Oil[1] | | | | Residual Fuel Oil | Propane |
|---|---|---|---|---|---|---|
| | 15 ppm sulfur and under | Greater than 15 ppm to 500 ppm sulfur | Greater than 500 ppm | Total | | |
| **PAD District 1** | **29,190** | **1,456** | **2,673** | **33,319** | **6,949** | **6,806** |
| Connecticut | 2,837 | 13 | 62 | 2,912 | 11 | – |
| Delaware | 367 | 23 | 88 | 478 | 473 | 26 |
| District of Columbia | – | – | – | – | – | – |
| Florida | 2,326 | 153 | – | 2,479 | 539 | 287 |
| Georgia | 1,041 | – | – | 1,041 | 158 | 11 |
| Maine | 884 | 3 | 94 | 981 | 48 | – |
| Maryland | 1,585 | – | – | 1,585 | 546 | 4 |
| Massachusetts | 1,248 | 251 | 159 | 1,658 | 28 | – |
| New Hampshire | 215 | – | – | 215 | 16 | 522 |
| New Jersey | 8,455 | 312 | 1,183 | 9,950 | 2,968 | 66 |
| New York | 3,787 | 57 | 119 | 3,963 | 1,242 | 1,903 |
| North Carolina | 1,148 | – | 2 | 1,150 | – | 334 |
| Pennsylvania | 2,399 | 240 | 618 | 3,257 | 865 | 2,653 |
| Rhode Island | 796 | 75 | – | 871 | – | – |
| South Carolina | 749 | – | – | 749 | 15 | 905 |
| Vermont | 47 | – | 12 | 59 | – | – |
| Virginia | 1,190 | 290 | 336 | 1,816 | 40 | 1 |
| West Virginia | 116 | 39 | – | 155 | – | 94 |
| **PAD District 2** | **24,703** | **372** | **417** | **25,492** | **1,186** | **23,995** |
| Illinois | 3,007 | – | – | 3,007 | 346 | 1,105 |
| Indiana | 3,174 | – | 114 | 3,288 | 104 | 382 |
| Iowa | 2,749 | – | – | 2,749 | 1 | 571 |
| Kansas | 2,224 | – | – | 2,224 | 42 | 14,972 |
| Kentucky | 804 | 20 | – | 824 | 164 | 235 |
| Michigan | 1,481 | 73 | – | 1,554 | 142 | 5,024 |
| Minnesota | 1,792 | – | 22 | 1,814 | 134 | 352 |
| Missouri | 456 | 41 | 4 | 501 | – | 165 |
| Nebraska | 928 | – | – | 928 | – | 348 |
| North Dakota | 1,121 | 1 | – | 1,122 | 26 | 40 |
| Ohio | 2,218 | – | 93 | 2,311 | 100 | 697 |
| Oklahoma | 1,769 | 229 | 71 | 2,069 | 28 | 44 |
| South Dakota | 628 | – | – | 628 | – | 23 |
| Tennessee | 803 | – | – | 803 | 87 | 1 |
| Wisconsin | 1,549 | 8 | 113 | 1,670 | 12 | 36 |
| **PAD District 3** | **22,577** | **1,858** | **5,618** | **30,053** | **16,462** | **49,560** |
| Alabama | 980 | 4 | 33 | 1,017 | 432 | 29 |
| Arkansas | 746 | – | 16 | 762 | – | 54 |
| Louisiana | 4,391 | 813 | 1,631 | 6,835 | 7,527 | 2,092 |
| Mississippi | 812 | 348 | 125 | 1,285 | 62 | 4,690 |
| New Mexico | 402 | – | – | 402 | 32 | 3 |
| Texas | 15,246 | 693 | 3,813 | 19,752 | 8,409 | 42,692 |
| **PAD District 4** | **3,288** | **182** | **41** | **3,511** | **229** | **1,002** |
| Colorado | 582 | – | – | 582 | 5 | 22 |
| Idaho | 294 | – | – | 294 | – | – |
| Montana | 1,025 | 63 | – | 1,088 | 81 | 26 |
| Utah | 670 | 54 | 41 | 765 | 63 | 886 |
| Wyoming | 717 | 65 | – | 782 | 80 | 68 |
| **PAD District 5** | **10,731** | **177** | **665** | **11,573** | **5,061** | **2,540** |
| Alaska | 880 | – | 86 | 966 | 208 | 4 |
| Arizona | 702 | – | – | 702 | – | 1,634 |
| California | 5,073 | 177 | 333 | 5,583 | 3,202 | 592 |
| Hawaii | 347 | – | 242 | 589 | 753 | 73 |
| Nevada | 394 | – | 4 | 398 | – | – |
| Oregon | 1,020 | – | – | 1,020 | 13 | – |
| Washington | 2,315 | – | – | 2,315 | 885 | 237 |
| **U.S. Total** | **90,489** | **4,045** | **9,414** | **103,948** | **29,887** | **83,903** |

– = No Data Reported.
[1] Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.
Note: Stocks are reported as of the last day of the month.
Note: Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

**Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail [1] Between PAD Districts, September 2019**
(Thousand Barrels)

| Commodity | From 1 to | | | From 2 to | | | | From 3 to | |
|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 5 | 1 | 3 | 4 | 5 | 1 | 2 |
| **Crude Oil** | **339** | **27** | **0** | **5,115** | **59,872** | **6,922** | **4,290** | **2,557** | **26,611** |
| **Petroleum Products** | **16,202** | **358** | **0** | **20,913** | **38,941** | **8,592** | **4,175** | **94,999** | **18,328** |
| **Natural Gas Liquids** | **6,568** | **191** | **0** | **6,596** | **28,845** | **4,969** | **635** | **1,257** | **6,995** |
| Ethane | 4,829 | 0 | – | 0 | 11,062 | 630 | – | 0 | 714 |
| Propane | 1,033 | 0 | 0 | 4,737 | 9,300 | 2,338 | 217 | 1,257 | 879 |
| Normal Butane | 121 | 28 | 0 | 1,760 | 4,775 | 1,034 | 270 | 0 | 314 |
| Isobutane | 317 | 163 | 0 | 99 | 1,329 | 378 | 148 | 0 | 369 |
| Natural Gasoline | 268 | 0 | – | 0 | 2,379 | 589 | – | 0 | 4,719 |
| Refinery Olefins | 0 | 0 | – | 276 | 391 | – | – | 0 | 0 |
| Ethylene | – | – | – | – | – | – | – | – | – |
| Propylene | 0 | 0 | – | 276 | 391 | – | – | 0 | 0 |
| Normal Butylene | – | – | – | – | – | – | – | – | – |
| Isobutylene | – | – | – | – | – | – | – | – | – |
| Unfinished Oils | 9 | 0 | – | 0 | 943 | – | – | 0 | 296 |
| Motor Gasoline Blending Components | 6,602 | 0 | 0 | 1,360 | 1,556 | 1,458 | 0 | 55,286 | 6,048 |
| Reformulated - RBOB | 0 | 0 | 0 | 0 | 171 | – | 0 | 6,804 | 2,901 |
| Conventional | 6,602 | 0 | 0 | 1,360 | 1,385 | 1,458 | 0 | 48,482 | 3,147 |
| CBOB | 6,574 | 0 | 0 | 1,360 | 1,080 | 1,458 | 0 | 48,330 | 2,699 |
| GTAB | – | – | – | – | – | – | – | – | – |
| Other | 28 | 0 | – | 0 | 305 | – | – | 152 | 448 |
| Renewable Fuels | 0 | 0 | 0 | 9,615 | 4,960 | 446 | 3,302 | 345 | 0 |
| Fuel Ethanol | 0 | 0 | 0 | 9,558 | 4,664 | 389 | 3,054 | 250 | 0 |
| Renewable Diesel Fuel[2] | 0 | 0 | 0 | 57 | 295 | 57 | 248 | 95 | 0 |
| Other Renewable Fuels | – | – | – | – | – | – | – | – | – |
| Finished Motor Gasoline | 70 | 0 | 0 | 280 | 241 | 243 | 0 | 2,721 | 971 |
| Reformulated | – | – | – | – | – | – | – | – | – |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – | – | – | – |
| Reformulated Other | – | – | – | – | – | – | – | – | – |
| Conventional | 70 | 0 | 0 | 280 | 241 | 243 | 0 | 2,721 | 971 |
| Conventional Blended with Fuel Ethanol | – | – | – | – | – | – | – | – | – |
| Ed55 and Lower | – | – | – | – | – | – | – | – | – |
| Greater than Ed55 | – | – | – | – | – | – | – | – | – |
| Conventional Other | 70 | 0 | 0 | 280 | 241 | 243 | 0 | 2,721 | 971 |
| Finished Aviation Gasoline | 0 | 0 | – | 0 | 0 | – | – | 98 | 10 |
| Kerosene-Type Jet Fuel | 299 | 0 | 0 | 117 | 0 | 908 | 0 | 13,988 | 1,507 |
| Kerosene | – | 0 | – | 0 | 0 | – | – | 198 | – |
| Distillate Fuel Oil | 2,654 | 0 | 0 | 1,130 | 1,092 | 518 | 0 | 20,411 | 2,050 |
| 15 ppm sulfur and under | 2,654 | 0 | 0 | 1,130 | 1,092 | 518 | 0 | 19,793 | 1,941 |
| Greater than 15 ppm to 500 ppm sulfur | 0 | 0 | – | – | 0 | – | – | – | 109 |
| Greater than 500 ppm sulfur | – | 0 | – | 0 | 0 | – | – | 618 | – |
| Residual Fuel Oil | 0 | 121 | – | 0 | 516 | – | – | 0 | 0 |
| Petrochemical Feedstocks | 0 | 0 | – | – | 91 | – | – | – | 0 |
| Naphtha for Petrochemical Feedstock Use | 0 | 0 | – | – | 91 | – | – | – | 0 |
| Other Oils for Petrochemical Feedstock Use | – | – | – | – | – | – | – | – | – |
| Special Naphthas | – | – | – | – | – | – | – | – | – |
| Lubricants | 0 | 0 | 0 | 0 | 0 | – | 0 | 361 | 146 |
| Waxes | – | – | – | – | – | – | – | – | – |
| Marketable Petroleum Coke | 0 | 26 | 0 | 683 | 134 | 50 | 0 | 0 | 26 |
| Asphalt and Road Oil | 0 | 20 | 0 | 856 | 172 | 0 | 238 | 334 | 279 |
| Miscellaneous Products | – | – | – | – | – | – | – | – | – |
| **Total** | 16,541 | 385 | 0 | 26,028 | 98,813 | 15,514 | 8,465 | 97,556 | 44,939 |

See footnotes at end of table.

**Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail [1] Between PAD Districts, September 2019**
(Thousand Barrels) — Continued

| Commodity | From 3 to | | From 4 to | | | | From 5 to | | |
|---|---|---|---|---|---|---|---|---|---|
| | 4 | 5 | 1 | 2 | 3 | 5 | 1 | 3 | 4 |
| **Crude Oil** | **0** | **660** | **0** | **25,849** | **416** | **0** | **0** | **0** | **0** |
| **Petroleum Products** | **0** | **4,652** | **98** | **12,207** | **3,408** | **2,306** | **24** | **112** | **0** |
| **Natural Gas Liquids** | **0** | **0** | **0** | **11,344** | **2,919** | **148** | **0** | **0** | **0** |
| Ethane | 0 | – | 0 | 2,224 | 639 | – | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 4,730 | 1,018 | 79 | 0 | 0 | 0 |
| Normal Butane | 0 | 0 | 0 | 2,020 | 372 | 69 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 826 | 292 | 0 | 0 | 0 | 0 |
| Natural Gasoline | 0 | – | 0 | 1,544 | 598 | – | 0 | 0 | 0 |
| Refinery Olefins | – | – | 0 | 0 | 0 | – | 0 | 0 | – |
| Ethylene | – | – | – | – | – | – | – | – | – |
| Propylene | – | – | 0 | 0 | 0 | – | 0 | 0 | – |
| Normal Butylene | – | – | – | – | – | – | – | – | – |
| Isobutylene | – | – | – | – | – | – | – | – | – |
| Unfinished Oils | – | – | 0 | 0 | 0 | – | 0 | 0 | – |
| Motor Gasoline Blending Components | 0 | 3,357 | 0 | 160 | 0 | 1,048 | 0 | 0 | 0 |
| Reformulated - RBOB | – | 2,001 | 0 | 0 | 0 | 0 | 0 | 0 | – |
| Conventional | 0 | 1,356 | 0 | 160 | 0 | 1,048 | 0 | 0 | 0 |
| CBOB | 0 | 1,356 | 0 | 160 | 0 | 1,048 | 0 | 0 | 0 |
| GTAB | – | – | – | – | – | – | – | – | – |
| Other | – | – | 0 | 0 | 0 | – | 0 | 0 | – |
| Renewable Fuels | 0 | 214 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fuel Ethanol | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Renewable Diesel Fuel[2] | 0 | 214 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Renewable Fuels | – | – | – | – | – | – | – | – | – |
| Finished Motor Gasoline | 0 | 0 | 0 | 218 | 0 | 376 | 0 | 0 | 0 |
| Reformulated | – | – | – | – | – | – | – | – | – |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – | – | – | – |
| Reformulated Other | – | – | – | – | – | – | – | – | – |
| Conventional | 0 | 0 | 0 | 218 | 0 | 376 | 0 | 0 | 0 |
| Conventional Blended with Fuel Ethanol | – | – | – | – | – | – | – | – | – |
| Ed55 and Lower | – | – | – | – | – | – | – | – | – |
| Greater than Ed55 | – | – | – | – | – | – | – | – | – |
| Conventional Other | 0 | 0 | 0 | 218 | 0 | 376 | 0 | 0 | 0 |
| Finished Aviation Gasoline | – | – | 0 | 0 | 0 | – | 0 | 0 | – |
| Kerosene-Type Jet Fuel | 0 | 247 | 0 | 18 | 0 | 10 | 0 | 0 | 0 |
| Kerosene | – | – | 0 | – | 0 | – | 0 | 0 | – |
| Distillate Fuel Oil | 0 | 794 | 0 | 420 | 0 | 351 | 0 | 0 | 0 |
| 15 ppm sulfur and under | 0 | 794 | 0 | 420 | 0 | 351 | 0 | 0 | 0 |
| Greater than 15 ppm to 500 ppm sulfur | – | – | – | 0 | 0 | – | – | 0 | – |
| Greater than 500 ppm sulfur | – | – | 0 | – | 0 | – | 0 | 0 | – |
| Residual Fuel Oil | – | – | 0 | 0 | 0 | – | 0 | 0 | – |
| Petrochemical Feedstocks | – | – | – | 0 | 0 | – | – | 0 | – |
| Naphtha for Petrochemical Feedstock Use | – | – | – | 0 | 0 | – | – | 0 | – |
| Other Oils for Petrochemical Feedstock Use | – | – | – | – | – | – | – | – | – |
| Special Naphthas | – | – | – | – | – | – | – | – | – |
| Lubricants | – | 0 | 0 | 0 | 0 | 0 | 0 | 88 | – |
| Waxes | – | – | – | – | – | – | – | – | – |
| Marketable Petroleum Coke | 0 | 0 | 0 | 0 | 234 | 89 | 24 | 24 | 0 |
| Asphalt and Road Oil | 0 | 40 | 98 | 47 | 255 | 284 | 0 | 0 | 0 |
| Miscellaneous Products | – | – | – | – | – | – | – | – | – |
| **Total** | 0 | 5,311 | 98 | 38,056 | 3,823 | 2,306 | 24 | 112 | 0 |

– = No Data Reported.
[1] Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.
[2] Renewable diesel fuel includes biodiesel and other renewable diesel.
Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, September 2019**
(Thousand Barrels)

| Commodity | From 1 to | | From 2 to | | | From 3 to | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 1 | 3 | 4 | 1 | 2 | 4 | 5 |
| **Crude Oil** | **178** | **27** | **271** | **56,024** | **6,922** | **121** | **26,611** | **0** | **–** |
| **Petroleum Products** | **15,996** | **0** | **6,488** | **30,195** | **8,096** | **75,499** | **16,802** | **0** | **4,398** |
| Natural Gas Liquids | 6,399 | 0 | 4,999 | 27,795 | 4,969 | 1,162 | 6,916 | 0 | – |
| Ethane | 4,829 | 0 | 0 | 11,062 | 630 | 0 | 714 | 0 | – |
| Propane | 891 | 0 | 3,718 | 8,759 | 2,338 | 1,162 | 844 | 0 | – |
| Normal Butane | 121 | 0 | 1,281 | 4,556 | 1,034 | 0 | 308 | 0 | – |
| Isobutane | 290 | 0 | 0 | 1,039 | 378 | 0 | 331 | 0 | – |
| Natural Gasoline | 268 | 0 | 0 | 2,379 | 589 | 0 | 4,719 | 0 | – |
| Motor Gasoline Blending Components | 6,574 | 0 | 565 | 1,190 | 1,458 | 44,230 | 5,943 | 0 | 3,357 |
| Reformulated - RBOB | 0 | 0 | 0 | 171 | – | 6,804 | 2,901 | – | 2,001 |
| Conventional | 6,574 | 0 | 565 | 1,019 | 1,458 | 37,426 | 3,042 | 0 | 1,356 |
| CBOB | 6,574 | 0 | 565 | 1,019 | 1,458 | 37,426 | 2,699 | 0 | 1,356 |
| GTAB | – | – | – | – | – | – | – | – | – |
| Other | 0 | 0 | – | 0 | – | – | 343 | – | – |
| Renewable Fuels | – | – | – | – | – | – | – | – | – |
| Fuel Ethanol | – | – | – | – | – | – | – | – | – |
| Renewable Diesel Fuel[1] | – | – | – | – | – | – | – | – | – |
| Other Renewable Fuels | – | – | – | – | – | – | – | – | – |
| Finished Motor Gasoline | 70 | 0 | 232 | 118 | 243 | 1,365 | 735 | 0 | 0 |
| Reformulated | – | – | – | – | – | – | – | – | – |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – | – | – | – |
| Reformulated Other | – | – | – | – | – | – | – | – | – |
| Conventional | 70 | 0 | 232 | 118 | 243 | 1,365 | 735 | 0 | 0 |
| Conventional Blended with Fuel Ethanol | – | – | – | – | – | – | – | – | – |
| Ed55 and Lower | – | – | – | – | – | – | – | – | – |
| Greater than Ed55 | – | – | – | – | – | – | – | – | – |
| Conventional Other | 70 | 0 | 232 | 118 | 243 | 1,365 | 735 | 0 | 0 |
| Finished Aviation Gasoline | – | – | – | – | – | – | – | – | – |
| Kerosene-Type Jet Fuel | 299 | 0 | 104 | 0 | 908 | 11,723 | 1,430 | 0 | 247 |
| Kerosene | – | 0 | 0 | 0 | – | 198 | – | – | – |
| Distillate Fuel Oil | 2,654 | 0 | 588 | 1,092 | 518 | 16,821 | 1,778 | 0 | 794 |
| 15 ppm sulfur and under | 2,654 | 0 | 588 | 1,092 | 518 | 16,203 | 1,669 | 0 | 794 |
| Greater than 15 ppm to 500 ppm sulfur | 0 | 0 | – | 0 | – | – | 109 | – | – |
| Greater than 500 ppm sulfur | – | 0 | 0 | 0 | – | 618 | – | – | – |
| Residual Fuel Oil | – | – | – | – | – | – | – | – | – |
| Miscellaneous Products | – | – | – | – | – | – | – | – | – |
| **Total** | **16,174** | **27** | **6,759** | **86,219** | **15,018** | **75,620** | **43,413** | **0** | **4,398** |

See footnotes at end of table.

**Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, September 2019**
(Thousand Barrels) — Continued

| Commodity | From 4 to | | | | From 5 to | |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 5 | 3 | 4 |
| **Crude Oil** | **0** | **25,849** | **283** | **–** | **0** | **0** |
| **Petroleum Products** | **0** | **12,160** | **2,919** | **1,785** | **0** | **0** |
| Natural Gas Liquids | 0 | 11,344 | 2,919 | – | 0 | 0 |
| Ethane | 0 | 2,224 | 639 | – | 0 | 0 |
| Propane | 0 | 4,730 | 1,018 | – | 0 | 0 |
| Normal Butane | 0 | 2,020 | 372 | – | 0 | 0 |
| Isobutane | 0 | 826 | 292 | – | 0 | 0 |
| Natural Gasoline | 0 | 1,544 | 598 | – | 0 | 0 |
| Motor Gasoline Blending Components | 0 | 160 | 0 | 1,048 | 0 | 0 |
| Reformulated - RBOB | 0 | 0 | 0 | 0 | 0 | – |
| Conventional | 0 | 160 | 0 | 1,048 | 0 | 0 |
| CBOB | 0 | 160 | 0 | 1,048 | 0 | 0 |
| GTAB | – | – | – | – | – | – |
| Other | – | 0 | 0 | – | 0 | – |
| Renewable Fuels | – | – | – | – | – | – |
| Fuel Ethanol | – | – | – | – | – | – |
| Renewable Diesel Fuel[1] | – | – | – | – | – | – |
| Other Renewable Fuels | – | – | – | – | – | – |
| Finished Motor Gasoline | 0 | 218 | 0 | 376 | 0 | 0 |
| Reformulated | – | – | – | – | – | – |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – |
| Reformulated Other | – | – | – | – | – | – |
| Conventional | 0 | 218 | 0 | 376 | 0 | 0 |
| Conventional Blended with Fuel Ethanol | – | – | – | – | – | – |
| Ed55 and Lower | – | – | – | – | – | – |
| Greater than Ed55 | – | – | – | – | – | – |
| Conventional Other | 0 | 218 | 0 | 376 | 0 | 0 |
| Finished Aviation Gasoline | – | – | – | – | – | – |
| Kerosene-Type Jet Fuel | 0 | 18 | 0 | 10 | 0 | 0 |
| Kerosene | 0 | – | 0 | – | 0 | – |
| Distillate Fuel Oil | 0 | 420 | 0 | 351 | 0 | 0 |
| 15 ppm sulfur and under | 0 | 420 | 0 | 351 | 0 | 0 |
| Greater than 15 ppm to 500 ppm sulfur | – | 0 | 0 | – | 0 | – |
| Greater than 500 ppm sulfur | 0 | – | 0 | – | 0 | – |
| Residual Fuel Oil | – | – | – | – | – | – |
| Miscellaneous Products | – | – | – | – | – | – |
| **Total** | **0** | **38,009** | **3,202** | **1,785** | **0** | **0** |

– = No Data Reported.
[1] Renewable diesel fuel includes biodiesel and other renewable diesel.
Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

**Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, September 2019**
(Thousand Barrels)

| Commodity | From 1 to | | | From 2 to | | |
|---|---|---|---|---|---|---|
| | 2 | 3 | 5 | 1 | 3 | 5 |
| **Crude Oil** | **161** | **0** | **–** | **271** | **2,371** | **–** |
| **Petroleum Products** | **37** | **121** | **0** | **1,748** | **2,511** | **0** |
| Natural Gas Liquids | – | 0 | – | 0 | 0 | – |
| Ethane | – | – | – | – | – | – |
| Propane | – | 0 | – | 0 | 0 | – |
| Normal Butane | – | – | – | – | – | – |
| Isobutane | – | – | – | – | – | – |
| Natural Gasoline | – | – | – | – | – | – |
| Unfinished Oils | 9 | 0 | – | 0 | 943 | – |
| Motor Gasoline Blending Components | 28 | 0 | – | 795 | 366 | – |
| Reformulated - RBOB | – | – | – | – | – | – |
| Conventional | 28 | 0 | – | 795 | 366 | – |
| CBOB | 0 | 0 | – | 795 | 61 | – |
| GTAB | – | – | – | – | – | – |
| Other | 28 | 0 | – | 0 | 305 | – |
| Renewable Fuels | 0 | 0 | 0 | 250 | 456 | 0 |
| Fuel Ethanol | 0 | 0 | – | 250 | 393 | – |
| Renewable Diesel Fuel[1] | 0 | 0 | 0 | 0 | 63 | 0 |
| Other Renewable Fuels | – | – | – | – | – | – |
| Finished Motor Gasoline | 0 | 0 | – | 48 | 123 | – |
| Reformulated | – | – | – | – | – | – |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – |
| Reformulated Other | – | – | – | – | – | – |
| Conventional | 0 | 0 | – | 48 | 123 | – |
| Conventional Blended with Fuel Ethanol | – | – | – | – | – | – |
| Ed55 and Lower | – | – | – | – | – | – |
| Greater than Ed55 | – | – | – | – | – | – |
| Conventional Other | 0 | 0 | – | 48 | 123 | – |
| Finished Aviation Gasoline | 0 | 0 | – | 0 | 0 | – |
| Kerosene-Type Jet Fuel | 0 | 0 | – | 13 | 0 | – |
| Kerosene | – | – | – | – | – | – |
| Distillate Fuel Oil | 0 | 0 | – | 542 | 0 | – |
| 15 ppm sulfur and under | 0 | 0 | – | 542 | 0 | – |
| Greater than 15 ppm to 500 ppm sulfur | – | – | – | – | – | – |
| Greater than 500 ppm sulfur | – | – | – | – | – | – |
| Residual Fuel Oil | 0 | 121 | – | 0 | 516 | – |
| Less than 0.31 percent sulfur | 0 | 0 | – | – | 63 | – |
| 0.31 to 1.00 percent sulfur | – | – | – | – | – | – |
| Greater than 1.00 percent sulfur | 0 | 121 | – | 0 | 453 | – |
| Petrochemical Feedstocks | 0 | 0 | – | – | 91 | – |
| Naphtha for Petrochemical Feedstock Use | 0 | 0 | – | – | 91 | – |
| Other Oils for Petrochemical Feedstock Use | – | – | – | – | – | – |
| Special Naphthas | – | – | – | – | – | – |
| Lubricants | 0 | 0 | 0 | 0 | 0 | 0 |
| Waxes | – | – | – | – | – | – |
| Marketable Petroleum Coke | – | – | – | – | – | – |
| Asphalt and Road Oil | 0 | 0 | – | 100 | 16 | – |
| Miscellaneous Products | – | – | – | – | – | – |
| **Total** | **198** | **121** | **0** | **2,019** | **4,882** | **0** |

See footnotes at end of table.

**Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, September 2019**
(Thousand Barrels) — Continued

| Commodity | From 3 to | | | | | | From 5 to | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | New England | Central Atlantic | Lower Atlantic | 2 | 5 | 1 | 2 | 3 |
| **Crude Oil** | **2,436** | **–** | **2,436** | **–** | **0** | **–** | **0** | **0** | **0** |
| **Petroleum Products** | **19,322** | **289** | **427** | **18,606** | **1,381** | **214** | **0** | **0** | **88** |
| Natural Gas Liquids | 56 | – | – | 56 | – | – | 0 | – | 0 |
| Ethane | – | – | – | – | – | – | – | – | – |
| Propane | 56 | – | – | 56 | – | – | 0 | – | 0 |
| Normal Butane | – | – | – | – | – | – | – | – | – |
| Isobutane | – | – | – | – | – | – | – | – | – |
| Natural Gasoline | – | – | – | – | – | – | – | – | – |
| Unfinished Oils | 0 | – | – | – | 296 | – | 0 | 0 | 0 |
| Motor Gasoline Blending Components | 11,056 | – | 152 | 10,904 | 105 | – | 0 | 0 | 0 |
| Reformulated - RBOB | – | – | – | – | – | – | – | – | – |
| Conventional | 11,056 | – | 152 | 10,904 | 105 | – | 0 | 0 | 0 |
| CBOB | 10,904 | – | – | 10,904 | 0 | – | 0 | 0 | 0 |
| GTAB | – | – | – | – | – | – | – | – | – |
| Other | 152 | – | 152 | – | 105 | – | 0 | 0 | 0 |
| Renewable Fuels | 345 | – | – | 345 | 0 | 214 | 0 | 0 | 0 |
| Fuel Ethanol | 250 | – | – | 250 | 0 | – | 0 | 0 | 0 |
| Renewable Diesel Fuel[1] | 95 | – | – | 95 | 0 | 214 | 0 | 0 | 0 |
| Other Renewable Fuels | – | – | – | – | – | – | – | – | – |
| Finished Motor Gasoline | 1,356 | – | – | 1,356 | 236 | – | 0 | 0 | 0 |
| Reformulated | – | – | – | – | – | – | – | – | – |
| Reformulated Blended with Fuel Ethanol | – | – | – | – | – | – | – | – | – |
| Reformulated Other | – | – | – | – | – | – | – | – | – |
| Conventional | 1,356 | – | – | 1,356 | 236 | – | 0 | 0 | 0 |
| Conventional Blended with Fuel Ethanol | – | – | – | – | – | – | – | – | – |
| Ed55 and Lower | – | – | – | – | – | – | – | – | – |
| Greater than Ed55 | – | – | – | – | – | – | – | – | – |
| Conventional Other | 1,356 | – | – | 1,356 | 236 | – | 0 | 0 | 0 |
| Finished Aviation Gasoline | 98 | 4 | 36 | 58 | 10 | – | 0 | 0 | 0 |
| Kerosene-Type Jet Fuel | 2,265 | – | – | 2,265 | 77 | – | 0 | 0 | 0 |
| Kerosene | – | – | – | – | – | – | – | – | – |
| Distillate Fuel Oil | 3,590 | 285 | – | 3,305 | 272 | – | 0 | 0 | 0 |
| 15 ppm sulfur and under | 3,590 | 285 | – | 3,305 | 272 | – | 0 | 0 | 0 |
| Greater than 15 ppm to 500 ppm sulfur | – | – | – | – | – | – | – | – | – |
| Greater than 500 ppm sulfur | – | – | – | – | – | – | – | – | – |
| Residual Fuel Oil | 0 | – | – | – | 0 | – | 0 | 0 | 0 |
| Less than 0.31 percent sulfur | – | – | – | – | 0 | – | – | 0 | 0 |
| 0.31 to 1.00 percent sulfur | – | – | – | – | – | – | – | – | – |
| Greater than 1.00 percent sulfur | 0 | – | – | – | 0 | – | 0 | 0 | 0 |
| Petrochemical Feedstocks | – | – | – | – | 0 | – | – | 0 | 0 |
| Naphtha for Petrochemical Feedstock Use | – | – | – | – | 0 | – | – | 0 | 0 |
| Other Oils for Petrochemical Feedstock Use | – | – | – | – | – | – | – | – | – |
| Special Naphthas | – | – | – | – | – | – | – | – | – |
| Lubricants | 361 | – | 212 | 149 | 146 | 0 | 0 | 0 | 88 |
| Waxes | – | – | – | – | – | – | – | – | – |
| Marketable Petroleum Coke | – | – | – | – | – | – | – | – | – |
| Asphalt and Road Oil | 195 | – | 27 | 168 | 239 | – | 0 | 0 | 0 |
| Miscellaneous Products | – | – | – | – | – | – | – | – | – |
| **Total** | **21,758** | **289** | **2,863** | **18,606** | **1,381** | **214** | **0** | **0** | **88** |

– = No Data Reported.
[1] Renewable diesel fuel includes biodiesel and other renewable diesel.
Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

**Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, September 2019**
(Thousand Barrels)

| Commodity | From 1 to | | | | From 2 to | | | |
|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 4 | 5 | 1 | 3 | 4 | 5 |
| Crude Oil | 0 | 0 | 0 | 0 | 4,573 | 1,477 | 0 | 4,290 |
| Propane | 142 | 0 | 0 | 0 | 1,019 | 541 | 0 | 217 |
| Propylene | 0 | 0 | – | – | 276 | 391 | – | – |
| Normal Butane | 0 | 28 | 0 | 0 | 479 | 219 | 0 | 270 |
| Isobutane | 27 | 163 | 0 | 0 | 99 | 290 | 0 | 148 |
| Fuel Ethanol | 0 | 0 | 0 | 0 | 9,308 | 4,271 | 389 | 3,054 |
| Biodiesel | 0 | 0 | 0 | 0 | 57 | 232 | 57 | 248 |
| Marketable Petroleum Coke | 0 | 26 | 0 | 0 | 683 | 134 | 50 | 0 |
| Asphalt and Road Oil | 0 | 20 | 0 | 0 | 756 | 156 | 0 | 238 |

| Commodity | From 3 to | | | | From 4 to | | | |
|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 4 | 5 | 1 | 2 | 3 | 5 |
| Crude Oil | 0 | 0 | 0 | 660 | 0 | 0 | 133 | 0 |
| Propane | 39 | 35 | 0 | 0 | 0 | 0 | 0 | 79 |
| Propylene | 0 | 0 | – | – | 0 | 0 | 0 | – |
| Normal Butane | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 69 |
| Isobutane | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fuel Ethanol | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Biodiesel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Marketable Petroleum Coke | 0 | 26 | 0 | 0 | 0 | 0 | 234 | 89 |
| Asphalt and Road Oil | 139 | 40 | 0 | 40 | 98 | 47 | 255 | 284 |

| Commodity | From 5 to | | | |
|---|---|---|---|---|
| | 1 | 2 | 3 | 4 |
| Crude Oil | 0 | 0 | 0 | 0 |
| Propane | 0 | 0 | 0 | 0 |
| Propylene | 0 | 0 | 0 | – |
| Normal Butane | 0 | 0 | 0 | 0 |
| Isobutane | 0 | 0 | 0 | 0 |
| Fuel Ethanol | 0 | 0 | 0 | 0 |
| Biodiesel | 0 | 0 | 0 | 0 |
| Marketable Petroleum Coke | 24 | 0 | 24 | 0 |
| Asphalt and Road Oil | 0 | 0 | 0 | 0 |

– = No Data Reported.
Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, September 2019**
(Thousand Barrels)

| PADD | Pipeline | Tanker and Barge | Rail | Total |
|---|---|---|---|---|
| **From 1 to** | | | | |
| 2 | 178 | 161 | 0 | 339 |
| 3 | 27 | 0 | 0 | 27 |
| 4 | 0 | – | 0 | 0 |
| 5 | – | – | 0 | 0 |
| **From 2 to** | | | | |
| 1 | 271 | 271 | 4,573 | 5,115 |
| 3 | 56,024 | 2,371 | 1,477 | 59,872 |
| 4 | 6,922 | – | 0 | 6,922 |
| 5 | – | – | 4,290 | 4,290 |
| **From 3 to** | | | | |
| 1 | 121 | 2,436 | 0 | 2,557 |
| 2 | 26,611 | 0 | 0 | 26,611 |
| 4 | 0 | – | 0 | 0 |
| 5 | – | – | 660 | 660 |
| **From 4 to** | | | | |
| 1 | 0 | 0 | 0 | 0 |
| 2 | 25,849 | 0 | 0 | 25,849 |
| 3 | 283 | 0 | 133 | 416 |
| 5 | – | – | 0 | 0 |
| **From 5 to** | | | | |
| 1 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 |
| 4 | 0 | – | 0 | 0 |

– = No Data Reported.
Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

**Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail [1] Between PAD Districts, September 2019**
(Thousand Barrels)

| Commodity | PAD District 1 | | | PAD District 2 | | | PAD District 3 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Receipts | Shipments | Net Receipts | Receipts | Shipments | Net Receipts | Receipts | Shipments | Net Receipts |
| **Crude Oil** | **7,672** | **366** | **7,306** | **52,799** | **76,199** | **-23,400** | **60,315** | **29,828** | **30,487** |
| **Petroleum Products** | **116,034** | **16,560** | **99,474** | **46,737** | **72,621** | **-25,884** | **42,819** | **117,978** | **-75,159** |
| **Natural Gas Liquids** | **7,853** | **6,759** | **1,094** | **24,907** | **41,045** | **-16,138** | **31,955** | **8,252** | **23,703** |
| Ethane | 0 | 4,829 | -4,829 | 7,767 | 11,692 | -3,925 | 11,701 | 714 | 10,987 |
| Propane | 5,994 | 1,033 | 4,961 | 6,642 | 16,592 | -9,950 | 10,318 | 2,136 | 8,182 |
| Normal Butane | 1,760 | 149 | 1,611 | 2,455 | 7,839 | -5,384 | 5,175 | 314 | 4,861 |
| Isobutane | 99 | 480 | -381 | 1,512 | 1,954 | -442 | 1,784 | 369 | 1,415 |
| Natural Gasoline | 0 | 268 | -268 | 6,531 | 2,968 | 3,563 | 2,977 | 4,719 | -1,742 |
| Refinery Olefins | 276 | 0 | 276 | 0 | 667 | -667 | 391 | 0 | 391 |
| Ethylene | 0 | 0 | – | – | – | – | 0 | 0 | – |
| Propylene | 276 | 0 | 276 | 0 | 667 | -667 | 391 | 0 | 391 |
| Normal Butylene | 0 | 0 | – | 0 | 0 | – | 0 | 0 | – |
| Isobutylene | 0 | 0 | – | 0 | 0 | – | 0 | 0 | – |
| Unfinished Oils | 0 | 9 | -9 | 305 | 943 | -638 | 943 | 296 | 647 |
| Motor Gasoline Blending Components | 56,646 | 6,602 | 50,044 | 12,810 | 4,374 | 8,436 | 1,556 | 64,691 | -63,135 |
| Reformulated - RBOB | 6,804 | 0 | 6,804 | 2,901 | 171 | 2,730 | 171 | 11,706 | -11,535 |
| Conventional | 49,842 | 6,602 | 43,240 | 9,909 | 4,203 | 5,706 | 1,385 | 52,985 | -51,600 |
| CBOB | 49,690 | 6,574 | 43,116 | 9,433 | 3,898 | 5,535 | 1,080 | 52,385 | -51,305 |
| GTAB | 0 | 0 | – | – | – | – | – | – | – |
| Other | 152 | 28 | 124 | 476 | 305 | 171 | 305 | 600 | -295 |
| Renewable Fuels | 9,960 | 0 | 9,960 | 0 | 18,323 | -18,323 | 4,960 | 559 | 4,401 |
| Fuel Ethanol | 9,808 | 0 | 9,808 | 0 | 17,666 | -17,666 | 4,664 | 250 | 4,414 |
| Renewable Diesel Fuel[2] | 152 | 0 | 152 | 0 | 657 | -657 | 295 | 309 | -14 |
| Other Renewable Fuels | – | – | – | – | – | – | 0 | 0 | – |
| Finished Motor Gasoline | 3,001 | 70 | 2,931 | 1,259 | 764 | 495 | 241 | 3,692 | -3,451 |
| Reformulated | 0 | 0 | – | 0 | 0 | – | 0 | 0 | – |
| Reformulated Blended with Fuel Ethanol | 0 | 0 | – | 0 | 0 | – | 0 | 0 | – |
| Reformulated Other | – | – | – | – | – | – | – | – | – |
| Conventional | 3,001 | 70 | 2,931 | 1,259 | 764 | 495 | 241 | 3,692 | -3,451 |
| Conventional Blended with Fuel Ethanol | 0 | 0 | – | 0 | 0 | – | 0 | 0 | – |
| Ed55 and Lower | 0 | 0 | – | 0 | 0 | – | 0 | 0 | – |
| Greater than Ed55 | 0 | 0 | – | 0 | 0 | – | 0 | 0 | – |
| Conventional Other | 3,001 | 70 | 2,931 | 1,259 | 764 | 495 | 241 | 3,692 | -3,451 |
| Finished Aviation Gasoline | 98 | 0 | 98 | 10 | 0 | 10 | 0 | 108 | -108 |
| Kerosene-Type Jet Fuel | 14,105 | 299 | 13,806 | 1,824 | 1,025 | 799 | 0 | 15,742 | -15,742 |
| Kerosene | 198 | 0 | 198 | 0 | 0 | – | 0 | 198 | -198 |
| Distillate Fuel Oil | 21,541 | 2,654 | 18,887 | 5,124 | 2,740 | 2,384 | 1,092 | 23,255 | -22,163 |
| 15 ppm sulfur and under | 20,923 | 2,654 | 18,269 | 5,015 | 2,740 | 2,275 | 1,092 | 22,528 | -21,436 |
| Greater than 15 ppm to 500 ppm sulfur | 0 | 0 | – | 109 | 0 | 109 | 0 | 109 | -109 |
| Greater than 500 ppm sulfur | 618 | 0 | 618 | 0 | 0 | – | 0 | 618 | -618 |
| Residual Fuel Oil | 0 | 121 | -121 | 0 | 516 | -516 | 637 | 0 | 637 |
| Petrochemical Feedstocks | 0 | 0 | – | 0 | 91 | -91 | 91 | 0 | 91 |
| Naphtha for Petrochemical Feedstock Use | 0 | 0 | – | 0 | 91 | -91 | 91 | 0 | 91 |
| Other Oils for Petrochemical Feedstock Use | – | – | – | 0 | 0 | – | 0 | 0 | – |
| Special Naphthas | 0 | 0 | – | 0 | 0 | – | 0 | 0 | – |
| Lubricants | 361 | 0 | 361 | 146 | 0 | 146 | 88 | 507 | -419 |
| Waxes | 0 | 0 | – | 0 | 0 | – | 0 | 0 | – |
| Marketable Petroleum Coke | 707 | 26 | 681 | 26 | 867 | -841 | 418 | 26 | 392 |
| Asphalt and Road Oil | 1,287 | 20 | 1,267 | 326 | 1,266 | -940 | 447 | 652 | -205 |
| Miscellaneous Products | 0 | 0 | – | 0 | 0 | – | 0 | 0 | – |
| **Total** | **123,706** | **16,926** | **106,780** | **99,536** | **148,820** | **-49,285** | **103,134** | **147,806** | **-44,672** |

See footnotes at end of table.

**Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail [1] Between PAD Districts, September 2019**
(Thousand Barrels) — Continued

| Commodity | PAD District 4 | | | PAD District 5 | | |
|---|---|---|---|---|---|---|
| | Receipts | Shipments | Net Receipts | Receipts | Shipments | Net Receipts |
| **Crude Oil** | **6,922** | **26,265** | **-19,343** | **4,949** | **0** | **4,949** |
| **Petroleum Products** | **8,592** | **18,019** | **-9,427** | **11,133** | **136** | **10,997** |
| **Natural Gas Liquids** | **4,969** | **14,411** | **-9,442** | **783** | **0** | **783** |
| Ethane | 630 | 2,863 | -2,233 | 0 | 0 | – |
| Propane | 2,338 | 5,827 | -3,489 | 296 | 0 | 296 |
| Normal Butane | 1,034 | 2,461 | -1,427 | 339 | 0 | 339 |
| Isobutane | 378 | 1,118 | -740 | 148 | 0 | 148 |
| Natural Gasoline | 589 | 2,142 | -1,553 | 0 | 0 | – |
| Refinery Olefins | 0 | 0 | – | 0 | 0 | – |
| Ethylene | – | – | – | – | – | – |
| Propylene | 0 | 0 | – | 0 | 0 | – |
| Normal Butylene | 0 | 0 | – | 0 | 0 | – |
| Isobutylene | 0 | 0 | – | 0 | 0 | – |
| Unfinished Oils | 0 | 0 | – | 0 | 0 | – |
| Motor Gasoline Blending Components | 1,458 | 1,208 | 250 | 4,405 | 0 | 4,405 |
| Reformulated - RBOB | – | – | – | 2,001 | 0 | 2,001 |
| Conventional | 1,458 | 1,208 | 250 | 2,404 | 0 | 2,404 |
| CBOB | 1,458 | 1,208 | 250 | 2,404 | 0 | 2,404 |
| GTAB | – | – | – | – | – | – |
| Other | 0 | 0 | – | 0 | 0 | – |
| Renewable Fuels | 446 | 0 | 446 | 3,516 | 0 | 3,516 |
| Fuel Ethanol | 389 | 0 | 389 | 3,054 | 0 | 3,054 |
| Renewable Diesel Fuel[2] | 57 | 0 | 57 | 462 | 0 | 462 |
| Other Renewable Fuels | – | – | – | 0 | 0 | – |
| Finished Motor Gasoline | 243 | 594 | -351 | 376 | 0 | 376 |
| Reformulated | – | – | – | 0 | 0 | – |
| Reformulated Blended with Fuel Ethanol | – | – | – | 0 | 0 | – |
| Reformulated Other | – | – | – | – | – | – |
| Conventional | 243 | 594 | -351 | 376 | 0 | 376 |
| Conventional Blended with Fuel Ethanol | 0 | 0 | – | 0 | 0 | – |
| Ed55 and Lower | 0 | 0 | – | 0 | 0 | – |
| Greater than Ed55 | 0 | 0 | – | 0 | 0 | – |
| Conventional Other | 243 | 594 | -351 | 376 | 0 | 376 |
| Finished Aviation Gasoline | 0 | 0 | – | 0 | 0 | – |
| Kerosene-Type Jet Fuel | 908 | 28 | 880 | 257 | 0 | 257 |
| Kerosene | 0 | 0 | – | 0 | 0 | – |
| Distillate Fuel Oil | 518 | 771 | -253 | 1,145 | 0 | 1,145 |
| 15 ppm sulfur and under | 518 | 771 | -253 | 1,145 | 0 | 1,145 |
| Greater than 15 ppm to 500 ppm sulfur | 0 | 0 | – | 0 | 0 | – |
| Greater than 500 ppm sulfur | 0 | 0 | – | 0 | 0 | – |
| Residual Fuel Oil | 0 | 0 | – | 0 | 0 | – |
| Petrochemical Feedstocks | – | – | – | 0 | 0 | – |
| Naphtha for Petrochemical Feedstock Use | – | – | – | 0 | 0 | – |
| Other Oils for Petrochemical Feedstock Use | – | – | – | – | – | – |
| Special Naphthas | – | – | – | 0 | 0 | – |
| Lubricants | 0 | 0 | – | 0 | 88 | -88 |
| Waxes | 0 | 0 | – | 0 | 0 | – |
| Marketable Petroleum Coke | 50 | 323 | -273 | 89 | 48 | 41 |
| Asphalt and Road Oil | 0 | 684 | -684 | 562 | 0 | 562 |
| Miscellaneous Products | 0 | 0 | – | 0 | 0 | – |
| **Total** | **15,514** | **44,284** | **-28,770** | **16,082** | **136** | **15,946** |

– = No Data Reported.
[1] Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.
[2] Renewable diesel fuel includes biodiesel and other renewable diesel.
Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

## Appendix A

# District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

## PAD District I

***East Coast:*** The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

***Appalachian No. 1:*** The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

### Sub-PAD District I

***New England:*** The States of Connecticut, Maine, Massachusetts, NewHampshire, Rhode Island, and Vermont.

***Central Atlantic:*** The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

***Lower Atlantic:*** The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

## PAD District II

***Indiana-Illinois-Kentucky:*** The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

***Minnesota-Wisconsin-North and South Dakota:*** The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

***Oklahoma-Kansas-Missouri:*** The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

## PAD District III

***Texas Inland:*** The State of Texas except the Texas Gulf Coast District.

***Texas Gulf Coast:*** The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

***Louisiana Gulf Coast:*** The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

***North Louisiana-Arkansas:*** The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

***New Mexico:*** The State of New Mexico.

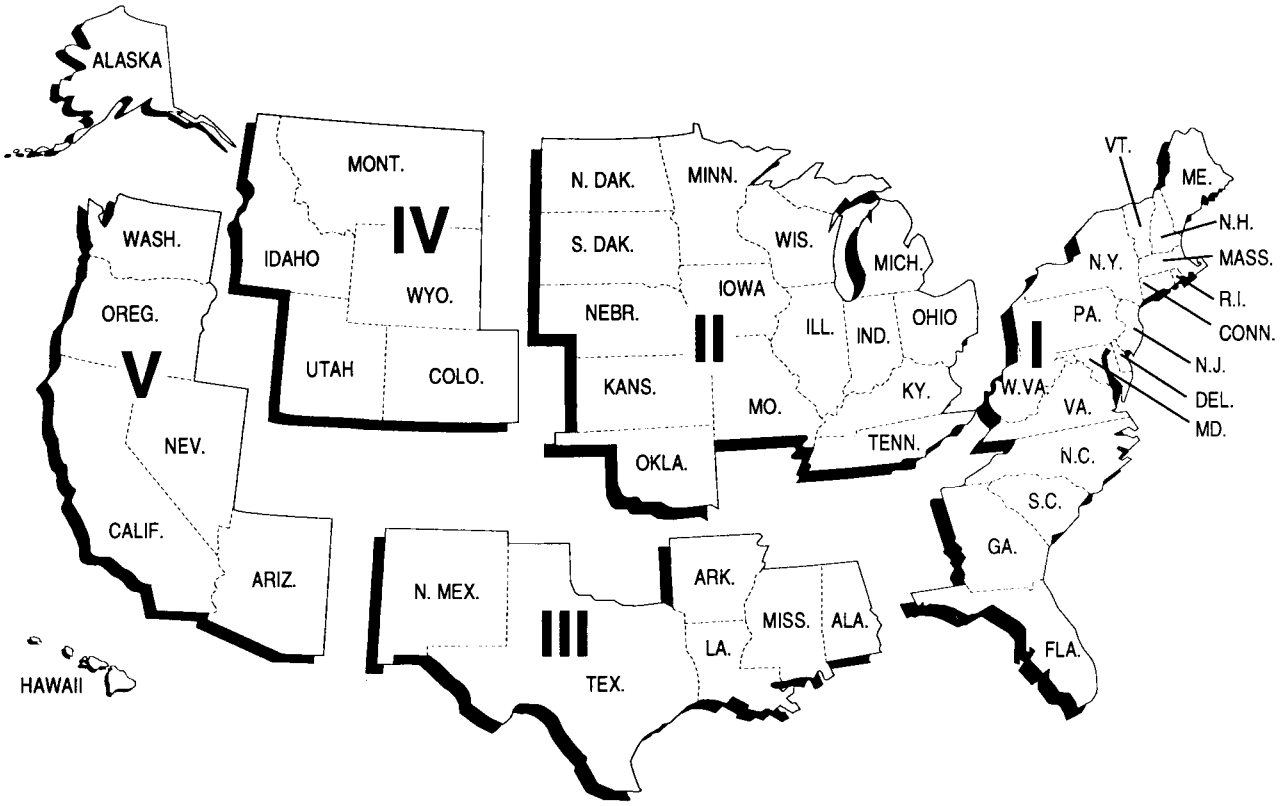
## PAD District IV

***Rocky Mountain:*** The States of Montana, Idaho, Wyoming, Utah, and Colorado.

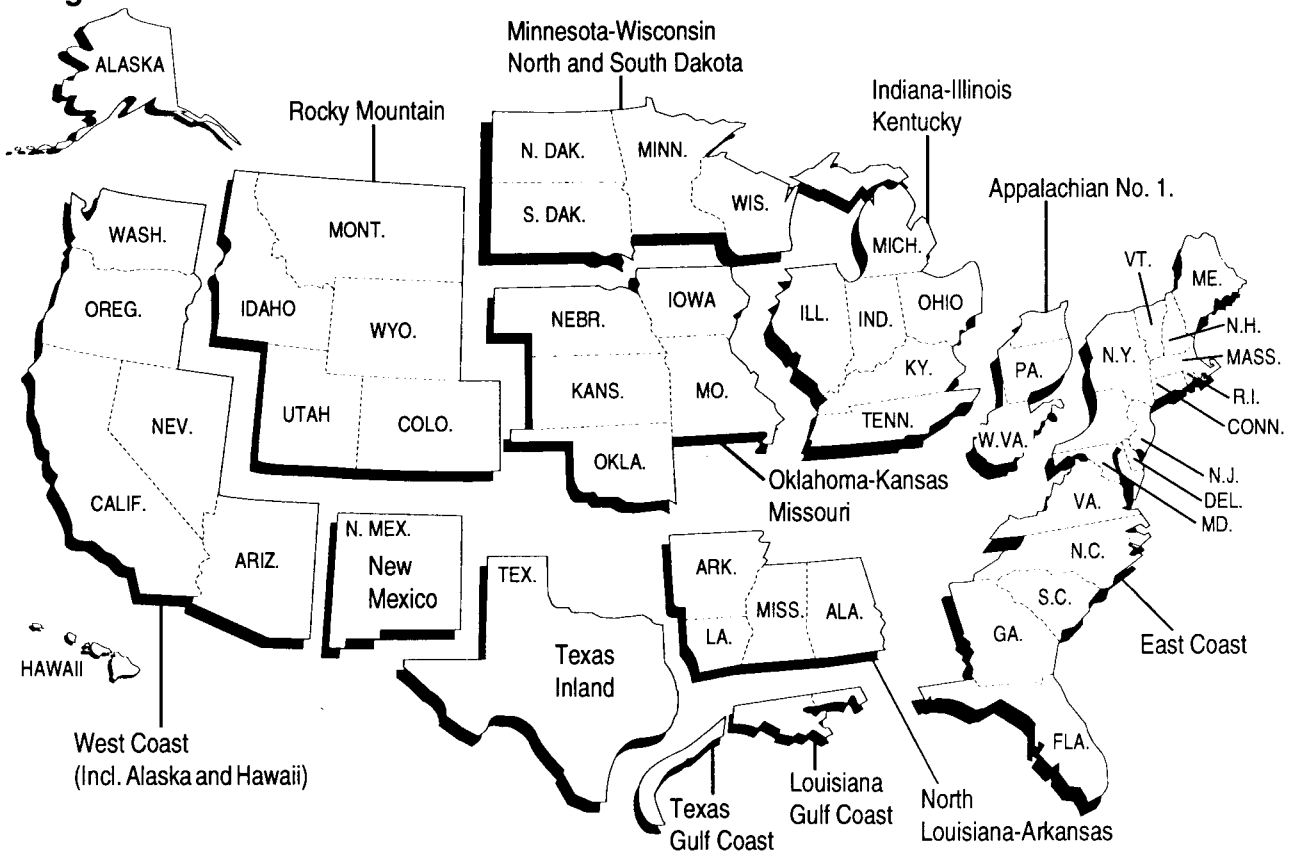
## PAD District V

***West Coast:*** The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

## Petroleum Administration for Defense (PAD) Districts




## Refining Districts



Appendix B

# PSM Explanatory Notes

## Preface

The *Petroleum Supply Monthly (PSM)* is the monthly component of a series of three publications concerning the supply and disposition of crude oil and petroleum products produced by the Petroleum Division of the Energy Information Administration (EIA). The other two components are the *Weekly Petroleum Status Report (WPSR)* and the *Petroleum Supply Annual (PSA)*. Together these publications present a comprehensive snapshot of petroleum supply data on a weekly, monthly and yearly basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply: petroleum refiners, motor gasoline blenders, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of petroleum products and crude oil. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

The PSM tables present statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District level, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources.

Final statistics for the data series published in the *PSM* are published in the *PSA*. The *PSA* is published approximately five months after the end of the report year.

# Appendix B. Explanatory Notes

## 1. Overview

### A. The Energy Information Administration's Quality Guidelines

The data contained in the *Petroleum Supply Monthly (PSM)* are subject to separate information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

### B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM are often interpreted as an approximation of petroleum demand measured as product supplied. Product supplied is often called "implied" demand because it is a measure of demand that is implied by disappearance of petroleum products from facilities and activities in the "primary" supply chain. Facilities and activities in the primary supply chain include refineries and blending terminals, gas processing plants and fractionators, oxygenate producers, biodiesel producers, imports, exports, bulk storage terminals, and pipelines. Total product supplied in the PSM at the U.S. level is equal to the sum of field production, plus refinery and blender net production, plus renewable fuels, and oxygenate plant net production, plus imports, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports. Net receipts are added as a component of supply at the PAD District level. Crude oil product supplied is normally zero because crude oil is processed in refineries and rarely, if ever, used directly.

The secondary system is that portion of the overall distribution network that falls between producers and end-users. Product typically flows in bulk from the primary supply system into the secondary system before delivery in small quantities to consumers (the tertiary system). The secondary system includes storage at bulk plants; at retail motor fuel outlets, such as service stations, truck stops, and convenience stores; and at retail fuel oil dealers. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, by definition, receive product only by tank car or truck, not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, jet fuel stored in facilities operated by end users, and certain proprietary storage of raw materials (e.g. propane) for the chemical industry.

Data users sometimes consider demand as sales to the ultimate consumer or as the actual consumption of the product. Since there may be time delays between the movement of product into the primary market and its ultimate purchase or consumption, these definitions of demand require data on changes in secondary and/or tertiary stocks or the assumption that these values either remain constant or are small compared to primary supply. The most recent study of secondary stocks was done by the National Petroleum Council in 1989. This study revealed that secondary distillate stocks were equal to about 6.9 percent of distillate stocks and 6.7 percent of distillate storage capacity.

### C. Components of Supply and Disposition

The detailed statistics tables in the PSM provide complete supply and disposition information for the current month and year to date. The tables are organized to locate National and Petroleum Administration for Defense (PAD) District supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. To assist in the interpretation of these tables, the following discussion of supply, disposition, and ending stocks as shown in Tables 1– 25 is provided. The categories and products are defined in the EIA Glossary.

(1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas plant liquids and liquefied refinery gases production.

Crude oil production is an estimate based on data received from State conservation agencies and the Mineral Management Service of the U.S. Department of the Interior. Refer to "Domestic Crude Oil Production" in Section 2C (1) for further details.

Field production of natural gas plant liquids is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. Renewable Fuels and Oxygenate Plant Net Production - Renewable Fuels and Oxygenate Plant Net Production are reported on Forms EIA-819 and EIA-22M. Production includes oxygenates (fuel ethanol, ETBE, MTBE, and other oxygenates) plus negative production of pentanes plus, finished motor gasoline, and motor gasoline blending components added to fuel ethanol as denaturants as well as biodiesel. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Form EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender net inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the

same month.

d. Imports - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

e. Net Receipts – Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 60.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, biodiesel (included in "Renewable Fuels Except Fuel Ethanol") and distillate fuel oil. Adjustment quantities are derived either to balance supply and disposition for selected products or to reclassify one product to another product. Product supplied is the balancing item for most products and is interpreted as an implied measure of petroleum demand. Adjustments are used in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, renewable fuels and oxygenate plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Unless otherwise noted in Section 2C, adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District.

(2.) Disposition

a. Stock Change – Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month's publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. Refinery and Blender Net Inputs – Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, liquefied petroleum gases, pentanes plus, hydrogen, oxygenates, renewable fuels, and other hydrocarbons) that are processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Inputs of natural gas plant liquids are refinery input of natural gas liquids received from natural gas plants for blending and processing. Published inputs of natural gas plant liquids are reported on a gross basis.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery input minus refinery production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. Exports - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. Products Supplied - Products supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, (plus net receipts on a PAD District basis), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied value indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of inter-PAD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported, e.g., streams returned to refineries from petrochemical plants.

Beginning with data for January 2010, product supplied for crude oil is assumed equal to zero. Prior to January 1983, crude oil burned on leases and by pipelines as fuel was reported as either distillate or residual fuel oil and was included in product supplied for these products. From January 1983 through December 2009, crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 "Monthly Crude Oil Report." Reporting of crude oil used directly was discontinued on Form EIA-813 after December 2009.

(3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks held by consumers. Product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported by EIA, but quantities held in selected government reserves are provided in Appendix D.

Primary stocks of crude oil included barrels held on producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in Petroleum Navigator were revised beginning with data for January 2005 to exclude lease stocks. Petroleum Navigator data may be accessed from the following locations on the EIA web site.

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbbl_m_cur.htm
http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm
http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbbl_m.htm

**2. Components - Forms Discussions**

The data presented in the PSM include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data obtained from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

**A. Petroleum Supply Reporting System**

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and natural gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the seven weekly surveys. The MPSRS includes nine monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Terminal Blender Report,"
6. EIA-809, "Weekly Oxygenate Report,"
8. EIA-22M, "Monthly Biodiesel Production Survey,"
9. EIA-810, "Monthly Refinery Report,"
10. EIA-812, "Monthly Product Pipeline Report,"
11. EIA-813, "Monthly Crude Oil Report,"
12. EIA-814, "Monthly Imports Report,"
13. EIA-815, "Monthly Terminal Blender Report."
14. EIA-816, "Monthly Natural Gas Liquids Report"
15. EIA-817, "Monthly Tanker and Barge Movement Report"
16. EIA-819, "Monthly Oxygenate Report"
17. EIA-820, "Annual Refinery Report."

Both weekly and monthly surveys are administered at six key points along the petroleum production and supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and renewable fuel (biodiesel and fuel ethanol) and oxygenate producing plants. Monthly surveys also include inter-PAD District movements by pipelines, tankers, and barges. Weekly surveys do not capture petroleum movements. Respondents reporting on weekly surveys are sampled from among the respondents reporting on monthly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, "Annual Refinery Report." The EIA-820 data are published in the annual "Refinery Capacity Report."

**B. Monthly Supply Survey Description and Methodology**

(1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at: http://www.eia.doe.gov/oil_gas/petroleum/survey_forms/pet_survey_forms.html

The Form EIA-22M "Monthly Biodiesel Production Survey" collects data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales.

The Form EIA-810, "Monthly Refinery Report," collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-812, "Monthly Product Pipeline Report," collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included. Product pipeline tank storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-813, "Monthly Crude Oil Report," collects data on end-of-month stock levels of crude oil held at pipeline and tank farms (associated with the pipelines) and terminals operated by the reporting company. Also, crude oil consumed by pipelines and on leases as pump fuel, boiler fuel, etc., is reported. Data are reported on a PAD District basis. Total Alaskan crude oil stocks in-transit by water (including stocks held at transshipment terminals between Alaska and the continental United States) to the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands are also reported by the transporting company having custody of the stocks. Inter- PAD District movements of crude oil by pipeline are collected by the shipping and receiving PAD District. Intermediate movements for pipeline systems operating in more than two PAD Districts

are not included. Crude oil storage capacity of tank farms is collected on a semi-annual basis.

The Form EIA-814, "Monthly Imports Report," collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil, unfinished oils, and gasoline blending components only.

The Form EIA-815, "Monthly Terminal Blender Report," collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on a semi-annual basis.

The Form EIA-816, "Monthly Natural Gas Liquids Report," collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

The Form EIA-817, "Monthly Tanker and Barge Movement Report," collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

The Form EIA-819, "Monthly Oxygenate Report" collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Data on end-of-month stocks are reported on a custody basis regardless of ownership. Fuel ethanol storage capacity is collected on a semi-annual basis.

(2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of "Who Must Submit" participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M "Monthly Biodiesel Production Survey" include operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes.

Respondents to Form EIA-810, "Monthly Refinery Report" include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, "Monthly Product Pipeline Report" include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, "Monthly Crude Oil Report" include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, "Monthly Imports Report" include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, "Monthly Terminal Blender Report" include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands,

Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included.

Respondents to Form EIA-816, "Monthly Natural Gas Liquids Report" include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, "Monthly Tanker and Barge Movement Report" include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, "Monthly Oxygenate Report" include all operators of facilities that produce (manufacture or distill) oxygenates (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations located in the 50 States and the District of Columbia.)

(3.) Collection

Survey data for the MPSRS are collected by facsimile, email, Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

(4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies result in further review of respondent data which in turn may result in additional flagged data and imputation.

(5.) Estimation and Imputation

TThe nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Imputation is performed for companies that fail to file Forms EIA-22M, 810, 812, 813, 815, 816, and 819. For these companies, previous monthly values and values reported on the weekly survey forms are used if available. Data for nonrespondents to the Forms EIA-814 and 817 are not imputed because respondent-level data for these surveys are highly variable.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in the *Petroleum Supply Annual (PSA).*

(6.) Macro Editing

Monthly data are compared to weekly data on a regular basis. Discrepancies between weekly and monthly data are documented and respondents are called when discrepancies are either large (usually over 300 thousand barrels) or consistent (e.g., weekly data are always lower than monthly data). In addition, a comparison of the data collected on the PSRS with other similar data series from sources outside of the EIA is performed on an ongoing basis. Results of selected data comparisons are published once a year in the feature article, "Comparison of Independent Statistics on Petroleum Supply." Additional comparisons are made between survey data and model results. Data reported in the Petroleum Supply Monthly and Petroleum Supply Annual are routinely imputed to correct for cases where comparison with other data suggests errors in survey data.

(7.) Dissemination

The *PSM* data are normally released within 60 days of the close of the reference month. The *PSM* is available on the web at:

http://www.eia.gov/petroleum/supply/monthly/

Much of the *PSM* data are available on the web product, Petroleum Navigator. Petroleum Navigator provides an interface for accessing a comprehensive set of EIA's petroleum data. Features include: downloadable spreadsheets containing complete data history, data tables which "pivot" to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum Navigator can be accessed at: http://www.eia.gov/petroleum/data.cfm

## C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the PSM are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

(1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the PSM, are based on:

(a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;

(b.) crude oil production data reported on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report." For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.

(c.) first purchase data reported on Form EIA-182 "Domestic Crude Oil First Purchase Report." For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, "Production of Crude Oil by PAD District and State." Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly (http://www.eia.gov/petroleum/supply/monthly/) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum Navigator and the Petroleum Supply Monthly roughly 60 days after the production month.

(2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a "Shipper's Export Declaration Document" with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.

- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

(3.) Movements of crude oil by railroad

The volume of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA's Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-915 survey starting in January 2015, and an estimation procedure developed by EIA for months in which data these data are not available.

Once the data necessary for calculating rail movements become available, which may take as long as 60 days after the end of a calendar quarter, EIA will revise the estimates made.

Movements of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane by rail are based on EIA analysis of carload data from the STB CWS. Additional data from the NEB, OGSM, and the EIA-915 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, propane, propylene, normal butane, and isobutane are converted to barrels using data from the CWS.

Carload data from the STB are available approximately 60 days after the end of each quarter. For example, carload data for the first quarter of each year are typically available by about June 1. Therefore, recent-month rail movements reported by EIA in the Petroleum Supply Monthly and Petroleum Navigator are modeled based on historical rail movement averages, medians, or correlations of rail movements derived from actual carload data with other regional supply data collected by EIA or other sources including field production, imports, refinery and blender inputs, movements other than rail, exports, and supply adjustments.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available through Petroleum Navigator on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum Navigator tables are updated with final data for a year from the Petroleum Supply Annual. Petroleum Supply Monthly and Petroleum Supply Annual tables released as PDF files will not be revised.

(4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the "lease adjustment," a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the "lease adjustment" could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

(5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Plant Liquids (NGPL Adjustment)

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGPL injection into Alaskan crude oil transported in TAPS. Natural gas processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGPL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGPL production is added to refinery receipts and inputs of NGPL. The adjusted NGPL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS-NGPL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and pentanes plus also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGPL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

(6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

**Note on MTBE Adjustment:** The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), "other" motor gasoline blending components, fuel ethanol, and MTBE. The quantity of GTAB and "other" motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each

PAD District. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and "other". During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and "other" motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PAD District. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PAD Districts. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

◦ Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, "other" motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and "other" finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PAD District. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PAD District, then the total adjustment quantity of finished conventional motor gasoline in that PAD District would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for "other" finished conventional motor gasoline.

◦ Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, "other" finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PAD District.

(7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and renewable fuels and oxygenate plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PAD District equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, renewable fuels and oxygenate plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and "other" motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

(8.) Renewable Fuels including Fuel Ethanol Adjustment

Adjustment quantities for renewable fuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum

of renewable fuels and oxygenate plant net production and imports. Calculation of adjustment quantities by PAD District depends on the product. Individual products include fuel ethanol, biomass based diesel fuel (including biodiesel), "other" renewable diesel fuel, and "other" renewable fuels (e.g. bio-jet fuel). Product supplied for renewable fuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and "other" renewable fuels are discussed separately below.

◦ Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of fuel ethanol between PAD Districts, and so allocation of fuel ethanol adjustments to PAD Districts is based on the ratio of fuel ethanol blending reported on surveys in each PAD District divided by fuel ethanol blending reported on surveys for the entire U.S. In this case, Fuel ethanol implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Fuel ethanol implied net receipts are the balancing item between total supply and disposition in each PAD District. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.

◦ The product category called "renewable fuels except fuel ethanol" includes biomass-based diesel fuel (including biodiesel), "other" renewable diesel fuel, and "other" renewable fuels (e.g. bio-jet fuel). For PSM data prior to January 2012, renewable fuels except fuel ethanol adjustment quantities at the U.S. and PAD District levels were calculated as the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Renewable Fuels except Fuel Ethanol was unavailable and was excluded from Renewable Fuels and Oxygenate Plant Net Production. Therefore the calculation of adjustments to Renewable Fuels except Fuel Ethanol caused production to be included in the adjustment. Similarly, the calculation caused net inter-PAD District movements (i.e. net receipts) by rail and truck to also be included in adjustments to renewable fuels except fuel ethanol.

◦ Beginning with PSM data for January 2012, production of biodiesel reported on Form EIA-22M was included under the heading of "renewable fuels and oxygenate plant net production" in petroleum supply and disposition balances for "renewable fuels except fuel ethanol". As a result, the adjustment for "renewable fuels except fuel ethanol" no longer includes production of biodiesel. This change will also be made to revised monthly data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

◦ Biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of biodiesel between PAD Districts, and so allocation of fuel biodiesel adjustments to PAD Districts is based on the ratio of biomass-based diesel blending reported on surveys in each PAD District divided by biomass-based diesel fuel blending reported on surveys for the entire U.S. Biodiesel implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Biodiesel implied net receipts are the balancing item between total supply and disposition in each PAD District. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppm sulfur and under) through distillate fuel oil adjustments.

(9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 "Monthly Product Pipeline Report." This adjustment was discontinued after publication of data for December 2010

Beginning with PSM data for January 2012, distillate fuel oil adjustments equal the opposite of biodiesel adjustments described above in section 7. Biodiesel adjustments are added to distillate fuel oil (15 ppm sulfur and under) and to total distillate fuel oil. Distillate fuel oil adjustment quantities are assumed to reflect biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Distillate fuel oil adjustments for biodiesel will also be added to revised data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

(10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 "Monthly Crude Oil Report" in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

(11.) Other Hydrocarbon Adjustment

Adjustment quantities for "other" hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. "Other" hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for "other" hydrocarbons produced outside of refineries. There are no movements data collected on surveys for "other" hydrocarbons. Therefore, adjustment quantities include any net receipts of "other" hydrocarbons resulting from inter-PAD District movements.

(12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

(13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol).

## 3. Quality

### A. General Discussion

(1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article "Accuracy of Petroleum Supply Data." Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

(2.) Non-sampling Errors

TThere are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

(3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the *PSM* has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the *PSA*. These values reflect all *PSM* resubmissions and other data corrections. The values contained in the *PSA* are EIA's most accurate measure of petroleum supply activity.

(4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the Previously published Petroleum Supply Annual every month in the Petroleum Supply Navigator (http://www.eia.gov/petroleum/supply/monthly/). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in the Petroleum Supply Navigator.

**B. Data Assessment**

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

**4. Provisions Regarding Disclosure of Information**

All PSRS survey forms, with the exception of the Form EIA-814, "Monthly Imports Report," have the same general disclosure information statement. The information reported on Form EIA-814 will be considered "public information" and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form.

TThe information reported on Forms EIA-810 through 813, 815 through 817, 819, and 820 will be protected and not disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the Department of Energy (DOE) regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data published from this survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Appendix D

# Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

## Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

| Terminal Operator | Location | Thousand Barrels |
|---|---|---|
| Buckeye Partners LP | Port Reading, NJ | 300 |
| Buckeye Partners LP | Groton, CT | 300 |
| Global Companies LLC | Revere, MA | 400 |

Source: U. S. Energy Information Administration

## Northeast Regional Refined Petroleum Product Reserve motor gasoline products

| Terminal Operator | Location | Thousand Barrels |
|---|---|---|
| Kinder Morgan Liq Terminals LLC | Carteret, NJ | 200 |
| Buckeye Terminals LLC | Port Reading, NJ | 0 |
| Buckeye Terminals LLC | Raritan Bay, NJ | 500 |
| Global Companies LLC | Revere, MA | 200 |
| South Portland Terminal LLC | South Portland, ME | 99 |

Source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at http://energy.gov/fe/services/petroleum-reserves/

# State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

| Product | Location | Thousand Barrels |
|---|---|---|
| Motor Gasoline Blending Components | NY | 89 |
| Fuel Ethanol | NY | 10 |
| Distillate Fuel Oil, 15 ppm Sulfur and Under | NY | 34 |

Source: New York State Energy Research & Development Authority

# Definitions of Petroleum Products and Other Terms

## (Revised May 2010)

***Alcohol.*** The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH3-(CH2)n-OH (e.g., methanol, ethanol, and tertiary butyl alcohol).

***Alkylate.*** The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

***Alkylation.*** A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

***All Other Motor Gasoline Blending Components. See Motor Gasoline Blending Components.***

***API Gravity.*** An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$Degrees\ API = \frac{141.5}{sp.\ gr.\ @\ 60^{o}\ F} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

***Aromatics.*** Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

***Asphalt.*** A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

***ASTM.*** The acronym for the American Society for Testing and Materials.

***Atmospheric Crude Oil Distillation.*** The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

***Aviation Gasoline (Finished).*** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

***Aviation Gasoline Blending Components.*** Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

***Barrel.*** A unit of volume equal to 42 U.S. gallons.

***Barrels Per Calendar Day.*** The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per Stream Day**) to account for the following limitations that may delay, interrupt, or slow down production:

- the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;
- the types and grades of inputs to be processed;
- the types and grades of products expected to be manufactured;
- the environmental constraints associated with refinery operations;
- the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and
- the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

***Barrels Per Stream Day.*** The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

***Benzene ($C_6H_6$).*** An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

***Biomass-Based Diesel Fuel.*** Biodiesel and other renewable diesel fuel or diesel fuel blending components derived from biomass, but excluding renewable diesel fuel coprocessed with petroleum

feedstocks.

***Blending Components. See Motor or Aviation Gasoline Blending Components.***

***Blending Plant.*** A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

***Bonded Petroleum Imports.*** Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

***BTX.*** The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

***Bulk Station.*** A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

***Bulk Terminal.*** A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

***Butane ($C_4H_{10}$).*** A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

> ***Normal Butane ($C_4H_{10}$).*** A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.
>
> ***Refinery-Grade Butane ($C_4H_{10}$).*** A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

***Butylene ($C_4H_8$).*** An olefinic hydrocarbon recovered from refinery processes.

***Captive Refinery Oxygenate Plants.*** Oxygenate production facilities located within or adjacent to a refinery complex.

***Catalytic Cracking.*** The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

> ***Fresh Feeds.*** Crude oil or petroleum distillates which are being fed to processing units for the first time.
>
> ***Recycled Feeds.*** Feeds that are continuously fed back for additional processing.

***Catalytic Hydrocracking.*** A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

***Catalytic Hydrotreating.*** A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

***Catalytic Reforming.*** A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

> ***Low Pressure.*** A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.
>
> ***High Pressure.*** A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

***Charge Capacity.*** The input (feed) capacity of the refinery processing facilities.

***Coal.*** A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

***Commercial Kerosene-Type Jet Fuel.*** See ***Kerosene-Type Jet Fuel.***

***Conventional Blendstock for Oxygenate Blending (CBOB).*** See ***Motor Gasoline Blending Components.***

***Conventional Gasoline.*** See ***Motor Gasoline (Finished).***

***Crude Oil.*** A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

> Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled

with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included;

Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals;

Drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

***Domestic.*** Crude oil produced in the United States or from its Aouter continental shelf' as defined in 43 USC 1331.

***Foreign.*** Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

***Crude Oil, Refinery Receipts.*** Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

***Crude Oil Losses.*** Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

***Crude Oil Production.*** The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

***Crude Oil Qualities.*** Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

***Delayed Coking.*** A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

***Desulfurization.*** The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See ***Catalytic Hydrotreating.***

***Disposition.*** The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

***Distillate Fuel Oil.*** A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

***No. 1 Distillate.*** A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

***No. 1 Diesel Fuel.*** A light distillate fuel oil that has a distillation temperature of 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles. See ***No. 1 Distillate.***

***No. 1 Fuel Oil.*** A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See ***No. 1 Distillate.***

***No. 2 Distillate.*** A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

***No. 2 Diesel Fuel.*** A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles. See ***No. 2 Distillate.***

***Low Sulfur No. 2 Diesel Fuel.*** No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

***High Sulfur No. 2 Diesel Fuel.*** No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

***No. 2 Fuel Oil (Heating Oil).*** A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in

atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See ***No. 2 Distillate***.

***No. 4 Fuel.*** A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms to ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

***No. 4 Diesel Fuel.*** See ***No. 4 Fuel.***

***No. 4 Fuel Oil.*** See ***No. 4 Fuel.***

***Electricity (Purchased).*** Electricity purchased for refinery operations that is not produced within the refinery complex.

***Ending Stocks.*** Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

***ETBE (Ethyl tertiary butyl ether) $(CH_3)_3COC_2H_5$.*** An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

***Ethane ($C_2H_6$).*** A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

***Ether.*** A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

***Ethylene ($C_2H_4$).*** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

***Exports.*** Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

***Field Production.*** Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

***Flexicoking.*** A thermal cracking process which converts heavy hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

***Fluid Coking.*** A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

***Fresh Feed Input.*** Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1.) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2.) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

***Fuel Ethanol ($C_2H_5OH$).*** An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

***Fuels Solvent Deasphalting.*** A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

***Gas Oil.*** A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

***Gasohol.*** A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See ***Oxygenates***.

***Gasoline Blending Components.*** Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

***Gasoline Treated as Blendstock (GTAB).*** See ***Motor Gasoline Blending Components.***

***Gross Input to Atmospheric Crude Oil Distillation Units.*** Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

***Heavy Gas Oil.*** Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

***High-Sulfur Distillate Fuel Oil.*** Distillate fuel oil having sulfur content greater than 500 ppm.

***Hydrogen.*** The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

***Idle Capacity.*** The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

***Imported Crude Oil Burned As Fuel.*** The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

***Imports.*** Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

***Isobutane ($C_4H_{10}$).*** A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

***Isobutylene ($C_4H_8$).*** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

***Isohexane ($C_6H_{14}$).*** A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

***Isomerization.*** A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane ($C_4$), an alkylation process feedstock, and normal pentane and hexane into isopentane ($C_5$) and isohexane ($C_6$), high-octane gasoline components.

***Isopentane.*** See ***Natural Gasoline and Isopentane.***

***Kerosene.*** A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See ***Kerosene-Type Jet Fuel.***

***Kerosene-Type Jet Fuel.*** A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

***Commercial.*** Kerosene-type jet fuel intended for use in commercial aircraft.

***Military.*** Kerosene-type jet fuel intended for use in military aircraft.

***Lease Condensate.*** A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See ***Natural Gas Liquids.***

***Light Gas Oils.*** Liquid Petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

***Liquefied Petroleum Gases (LPG).*** A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

***Liquefied Refinery Gases (LRG).*** Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

***Low-Sulfur Distillate Fuel Oil.*** Distillate fuel oil having sulfur content greater than 15 ppm to 500 ppm. Low sulfur distillate fuel oil also includes product with sulfur content equal to or less than 15 ppm if the product is intended for pipeline shipment and the pipeline has a sulfur specification below 15 ppm.

***Lubricants.*** Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

***Merchant Oxygenate Plants.*** Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

***Methanol ($CH_3OH$).*** A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

***Middle Distillates.*** A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

***Military Kerosene-Type Jet Fuel.*** See ***Kerosene-Type Jet Fuel.***

***Miscellaneous Products.*** Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note:

Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

***Motor Gasoline (Finished).*** A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. Note: E85 is included only in volumetric data on finished motor gasoline production and other components of product supplied.

***Conventional Gasoline.*** Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

***Ed 55 and Lower.*** Finished conventional motor gasoline blended with a maximum of 55 volume percent denatured fuel ethanol.

***Greater than Ed55.*** Finished conventional motor gasoline blended with denatured fuel ethanol where the volume percent of denatured fuel ethanol exceeds 55%.

***OPRG.*** "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

***Oxygenated Gasoline (Including Gasohol).*** Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

***Reformulated Gasoline.*** Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

***Reformulated (Blended with Alcohol).*** Reformulated gasoline blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content.

***Reformulated (Blended with Ether).*** Reformulated gasoline blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

***Reformulated (Non-Oxygenated).*** Reformulated gasoline without added ether or alcohol components.

***Motor Gasoline Blending.*** Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

***Motor Gasoline Blending Components.*** Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

***Conventional Blendstock for Oxygenate Blending (CBOB).*** Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

***Gasoline Treated as Blendstock (GTAB).*** Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB was classified on EIA surveys as either reformulated or conventional based on emissions performance and the intended end use in data through the end of December 2009. Designation of GTAB as reformulated or conventional was discontinued beginning with data for January 2010. GTAB was reported as a single product beginning with data for January 2010. GTAB data for January 2010 and later months is presented as conventional

motor gasoline blending components whenreported as a subset of motor gasoline blending components.

***Reformulated Blendstock for Oxygenate Blending (RBOB).*** Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g., California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

***RBOB for Blending with Alcohol.*** Motor gasoline blending components intended to be blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

***RBOB for Blending with Ether.*** Motor gasoline blending components intended to be blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

***All Other Motor Gasoline Blending Components.*** Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g. fuel ethanol and methyl tertiary butyl ether), butane, and pentanes plus.

***MTBE (Methyl tertiary butyl ether) $(CH_3)_3COCH_3$.*** An ether intended for gasoline blending as described in Oxygenate definition.

***Naphtha.*** A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

***Naphtha Less Than 401° F.*** See ***Petrochemical Feedstocks.***

***Naphtha-Type Jet Fuel.*** A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in ***Miscellaneous Products.***

***Natural Gas.*** A gaseous mixture of hydrocarbon compounds, the primary one being **methane**.

***Natural Gas Field Facility.*** A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

***Natural Gas Liquids.*** Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see ***Natural Gas Plant Liquids***) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see ***Lease Condensate***).

***Natural Gas Plant Liquids.*** Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

***Natural Gas Processing Plant.*** Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

***Natural Gasoline and Isopentane.*** A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, ($C_5H_{12}$), obtained by fractionation of natural gasoline or isomerization of normal pentane.

***Net Receipts.*** The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

***Normal Butane.*** See ***Butane***.

***OPEC.*** An intergovernmental organization whose stated objective is to coordinate and unify petroleum policies of member countries. It was created at the Baghdad Conference on September 10–14, 1960. Current and former members (with years of membership) include Algeria (1969-present), Angola (2007-present), Congo (Brazzaville) (June 2018-present), Ecuador (1973-1992 and 2007-present), Gabon (1975-1994 and July, 2016-present), Indonesia (1962-2008 and January, 2016-November, 2016), Iran (1960-present), Iraq (1960-present), Kuwait (1960-present), Libya (1962-present), Nigeria (1971-present), Qatar (1961-2018), Saudi Arabia (1960-present), United Arab Emirates (1967-present), and Venezuela (1960-present).

***Operable Capacity.*** The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

***Operable Utilization Rate.*** Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

***Operating Capacity.*** The component of operable capacity that is in operation at the beginning of the period.

***Operating Utilization Rate.*** Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

***Other Hydrocarbons.*** Materials received by a refinery and consumed as a raw material. Includes hydrogen, coal tar derivatives and gilsonite. Excludes natural gas used for fuel or hydrogen feedstock.

***Other Oils Equal To or Greater Than 401° F.*** See ***Petrochemical Feedstocks.***

***Other Oxygenates.*** Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

***Oxygenated Gasoline.*** See ***Motor Gasoline (Finished).***

***Oxygenates.*** Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

> ***Fuel Ethanol.*** Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the "gasohol waiver").
>
> ***Methanol.*** Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the "ARCO" waiver).
>
> Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the "DuPont" waiver).
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> ***MTBE (Methyl tertiary butyl ether).*** Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the "Sun" waiver).

***Pentanes Plus.*** A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

***Persian Gulf.*** The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

***Petrochemical Feedstocks.*** Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are "Naphtha Less Than 401° F" and "Other Oils Equal To or Greater Than 401° F."

> ***Naphtha Less Than 401° F.*** A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.
>
> ***Other Oils Equal To or Greater Than 401° F.*** Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

***Petroleum Administration for Defense (PAD) Districts.*** Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

***Petroleum Coke.*** A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

> ***Catalyst Coke.*** In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.
>
> ***Marketable Coke.*** Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This "green" coke may be sold as is or further purified by calcining.

***Petroleum Products.*** Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

***Pipeline (Petroleum).*** Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

***Plant Condensate.*** One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

***Processing Gain.*** The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

***Processing Loss.*** The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

***Product Supplied, Crude Oil.*** Crude oil burned on leases and by pipelines as fuel.

***Production Capacity.*** The maximum amount of product that can be produced from processing facilities.

***Products Supplied.*** Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

***Propane ($C_3H_8$).*** A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

***Propylene ($C_3H_6$).*** An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

> ***Propylene ($C_3H_6$) (nonfuel use).*** Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

***Refinery.*** An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

***Refinery-Grade Butane.*** See ***Butane.***

***Refinery Input, Crude Oil.*** Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

***Refinery Input, Total.*** The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

***Refinery Production.*** Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

***Refinery Yield.*** Refinery yield (expressed as a percentage) represents the percent of finished product produced from input of crude oil and net input of unfinished oils. It is calculated by dividing the sum of crude oil and net unfinished input into the individual net production of finished products. Before calculating the yield for finished motor gasoline, the input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components must be subtracted from the net production of finished motor gasoline. Before calculating the yield for finished aviation gasoline, input of aviation gasoline blending components must be subtracted from the net production of finished aviation gasoline.

***Reformulated Blendstock for Oxygenate Blending (RBOB).*** See ***Motor Gasoline Blending Components.***

***Reformulated Gasoline.*** See ***Motor Gasoline (Finished).***

***Renewable Fuels (Other).*** Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

***Residual Fuel Oil.*** A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

***Residuum.*** Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

***Road Oil.*** Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

***Shell Storage Capacity.*** The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity. Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

***Steam (Purchased).*** Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

***Still Gas (Refinery Gas).*** Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

***Stock Change.*** The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

***Strategic Petroleum Reserve (SPR).*** Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

***Sulfur.*** A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off- highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

***Supply.*** The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

***TAME (Tertiary amyl methyl ether) $(CH_3)_2(C_2H_5)COCH_3$.*** An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

***Tank Farm.*** An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

***Tanker and Barge.*** Vessels that transport crude oil or petroleum products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal to a PAD District.

***TBA (Tertiary butyl alcohol) $(CH_3)_3COH$.*** An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

***Thermal Cracking.*** A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

***Toluene ($C_6H_5CH_3$).*** Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

***Ultra-Low Sulfur Distillate Fuel Oil.*** Distillate fuel oil having sulfur content of 15 ppm or lower. Ultra-low sulfur distillate fuel oil that will be shipped by pipeline must satisfy the sulfur specification of the shipping pipeline if the pipeline specification is below 15 ppm. Distillate fuel oil intended for pipeline shipment that fails to meet a pipeline sulfur specification that is below 15 ppm will be classified as low-sulfur distillate fuel oil.

***Unaccounted for Crude Oil.*** Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

***Unfinished Oils.*** All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

***Unfractionated Streams.*** Mixtures of unsegregated natural gas liquid components excluding, those in plant condensate. This product is extracted from natural gas.

***United States.*** The United States is defined as the 50 States and the District of Columbia.

***Vacuum Distillation.*** Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

***Visbreaking.*** A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

***Wax.*** A solid or semi-solid material at 77 degrees Fahrenheit consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point

(ASTM D 938) between 80 (or 85) and 240 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

***Working Storage Capacity.*** The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

***Xylene ($C_6H_4(CH_3)_2$).*** Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.