



U.S. Energy Information
Administration

Petroleum Supply Monthly

with data for November 2017

January 2018



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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.

Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
- Imports by PADD
- Imports by country of origin
- Exports
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- Stocks
- Movements of crude oil, petroleum products, and biofuels

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2017
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	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 Oil⁴	301,138	--	--	228,703	6,959	-14,406	505,184	46,022	0	1,113,607
Hydrocarbon Gas Liquids	121,605	-670	10,454	6,414	--	-14,364	21,887	45,283	84,997	217,410
Natural Gas Liquids	121,605	-670	1,829	5,651	--	-13,668	21,887	45,283	74,913	211,554
Ethane	48,087	--	202	--	--	339	--	7,438	40,512	58,969
Propane	38,896	--	9,441	4,601	--	-2,219	--	28,047	27,110	69,236
Normal Butane	10,353	--	-7,111	793	--	-10,318	9,704	5,290	-641	52,652
Isobutane	10,409	--	-703	252	--	-1,213	6,253	57	4,861	9,362
Natural Gasoline	13,860	-670	--	5	--	-257	5,930	4,450	3,072	21,335
Refinery Olefins	--	--	8,625	763	--	-696	--	--	10,084	5,856
Ethylene	--	--	24	--	--	0	--	--	24	0
Propylene	--	--	9,036	603	--	82	--	--	9,557	5,026
Butylene	--	--	-461	160	--	-792	--	--	491	779
Isobutylene	--	--	26	--	--	14	--	--	12	51
Other Liquids	--	38,387	--	35,978	3,150	6,195	54,850	17,238	-768	316,835
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	38,391	--	1,426	2,895	1,464	36,287	4,961	0	29,719
Hydrogen	--	--	--	--	7,098	--	7,098	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,399	--	344	-309	160	--	2,274	0	1,648
Renewable Fuels (including Fuel Ethanol) ...	--	35,992	--	1,063	-3,906	1,290	29,173	2,686	0	28,026
Fuel Ethanol ⁵	--	32,469	--	496	-1,595	1,289	27,433	2,648	0	22,863
Renewable Fuels Except Fuel Ethanol	--	3,523	--	567	-2,311	1	1,740	38	0	5,163
Other Hydrocarbons	--	--	--	19	11	14	16	--	0	45
Unfinished Oils	--	--	--	19,630	--	-2,490	14,249	8,639	-768	86,102
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	14,922	255	7,218	4,317	3,638	0	201,001
Reformulated	--	--	--	5,721	5,309	2,561	8,461	8	0	48,781
Conventional	--	-4	--	9,201	-5,053	4,657	-4,144	3,631	0	152,220
Aviation Gasoline Blend. Comp.	--	--	--	--	--	3	-3	--	0	13
Finished Petroleum Products	--	154	605,845	22,384	3,790	1,852	--	106,204	524,117	274,651
Finished Motor Gasoline	--	154	305,984	312	1,340	441	--	33,131	274,218	23,595
Reformulated	--	--	97,702	--	-5,594	3	--	--	92,105	47
Conventional	--	154	208,282	312	6,934	438	--	33,131	182,113	23,548
Finished Aviation Gasoline	--	--	313	3	--	-4	--	--	320	919
Kerosene-Type Jet Fuel	--	--	50,148	5,807	--	-1,351	--	5,618	51,688	41,077
Kerosene	--	--	474	--	--	-241	--	619	96	1,713
Distillate Fuel Oil ⁵	--	--	160,738	5,400	2,450	2,815	--	40,829	124,944	132,700
15 ppm sulfur and under	--	--	150,561	3,477	2,450	3,256	--	33,803	119,429	116,043
Greater than 15 ppm to 500 ppm sulfur	--	--	3,726	42	--	-211	--	3,957	22	6,857
Greater than 500 ppm sulfur	--	--	6,451	1,881	--	-230	--	3,069	5,493	9,800
Residual Fuel Oil ⁶	--	--	12,349	6,277	--	-724	--	6,366	12,984	31,752
Less than 0.31 percent sulfur	--	--	1,280	243	--	-273	--	NA	NA	2,585
0.31 to 1.00 percent sulfur	--	--	1,551	649	--	221	--	NA	NA	6,583
Greater than 1.00 percent sulfur	--	--	9,518	5,385	--	-672	--	NA	NA	22,578
Petrochemical Feedstocks	--	--	8,629	1,202	--	66	--	--	9,765	3,076
Naphtha for Petro. Feed. Use	--	--	5,711	1,067	--	-79	--	--	6,857	1,947
Other Oils for Petro. Feed. Use	--	--	2,918	135	--	145	--	--	2,908	1,129
Special Naphthas	--	--	1,378	502	--	124	--	--	1,756	1,106
Lubricants	--	--	6,166	1,388	--	1,206	--	2,953	3,395	10,689
Waxes	--	--	154	210	--	5	--	136	223	732
Petroleum Coke	--	--	27,286	272	--	115	--	15,573	11,870	7,911
Marketable	--	--	20,265	272	--	115	--	15,573	4,849	7,911
Catalyst	--	--	7,021	--	--	--	--	--	7,021	--
Asphalt and Road Oil	--	--	8,651	987	--	-544	--	958	9,224	18,728
Still Gas	--	--	20,613	--	--	--	--	--	20,613	--
Miscellaneous Products	--	--	2,962	24	--	-56	--	22	3,020	653
Total	422,743	37,871	616,299	293,479	13,899	-20,723	581,921	214,747	608,346	1,922,503

-- = 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, 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-November 2017
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	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 Oil⁴	3,092,531	--	--	2,646,542	77,255	-65,807	5,521,101	361,034	0	1,113,607
Hydrocarbon Gas Liquids	1,241,707	-7,239	218,805	62,130	--	17,262	183,218	461,477	853,446	217,410
Natural Gas Liquids	1,241,707	-7,239	125,787	52,527	--	20,751	183,218	461,477	747,336	211,554
Ethane	465,918	--	1,747	--	--	8,282	--	58,640	400,743	58,969
Propane	405,860	--	101,411	41,735	--	-7,884	--	299,144	257,746	69,236
Normal Butane	102,832	--	24,249	4,840	--	22,813	54,357	44,128	10,623	52,652
Isobutane	116,736	--	-1,620	3,216	--	1,237	70,572	1,358	45,165	9,362
Natural Gasoline	150,361	-7,239	--	2,736	--	-3,697	58,289	58,207	33,059	21,335
Refinery Olefins	--	--	93,018	9,603	--	-3,489	--	--	106,110	5,856
Ethylene	--	--	232	--	--	0	--	--	232	0
Propylene	--	--	94,584	7,409	--	-1,950	--	--	103,943	5,026
Butylene	--	--	-2,061	2,194	--	-1,590	--	--	1,723	779
Isobutylene	--	--	263	--	--	51	--	--	212	51
Other Liquids	--	402,650	--	434,911	27,958	-1,271	702,786	162,152	1,852	316,835
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	402,695	--	18,900	36,331	1,317	402,963	53,646	0	29,719
Hydrogen	--	--	--	--	73,928	--	73,928	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	23,846	--	3,547	-4,142	171	318	22,762	0	1,648
Renewable Fuels (including Fuel Ethanol)	--	378,849	--	15,124	-33,620	1,118	328,350	30,884	0	28,026
Fuel Ethanol ⁵	--	344,451	--	1,824	-7,269	3,332	306,973	28,701	0	22,863
Renewable Fuels Except Fuel Ethanol	--	34,398	--	13,300	-26,352	-2,214	21,377	2,183	0	5,163
Other Hydrocarbons	--	--	--	229	166	28	367	--	0	45
Unfinished Oils	--	--	--	207,802	--	5,520	116,933	83,425	1,924	86,102
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-45	--	208,209	-8,373	-8,112	182,822	25,081	0	201,001
Reformulated	--	-1	--	71,703	57,306	-3,368	132,288	88	0	48,781
Conventional	--	-44	--	136,506	-65,680	-4,744	50,534	24,992	0	152,220
Aviation Gasoline Blend. Comp.	--	--	--	--	--	4	68	--	-72	13
Finished Petroleum Products	--	1,195	6,556,694	225,789	42,979	-55,020	--	1,104,394	5,777,282	274,651
Finished Motor Gasoline	--	1,195	3,323,384	10,724	15,642	-5,015	--	239,731	3,116,229	23,595
Reformulated	--	--	1,086,146	--	-51,531	0	--	--	1,034,615	47
Conventional	--	1,195	2,237,238	10,724	67,173	-5,015	--	239,731	2,081,614	23,548
Finished Aviation Gasoline	--	--	3,561	99	--	-75	--	--	3,735	919
Kerosene-Type Jet Fuel	--	--	566,010	54,129	--	-1,699	--	62,467	559,371	41,077
Kerosene	--	--	2,011	1,167	--	-548	--	2,119	1,607	1,713
Distillate Fuel Oil ⁵	--	--	1,668,480	45,465	27,337	-32,756	--	458,673	1,315,365	132,700
15 ppm sulfur and under	--	--	1,557,487	30,664	27,337	-26,977	--	387,523	1,254,942	116,043
Greater than 15 ppm to 500 ppm sulfur	--	--	38,479	428	--	-1,965	--	39,223	1,649	6,857
Greater than 500 ppm sulfur	--	--	72,514	14,373	--	-3,814	--	31,926	58,775	9,800
Residual Fuel Oil ⁶	--	--	145,151	62,780	--	-9,791	--	98,901	118,821	31,752
Less than 0.31 percent sulfur	--	--	18,145	3,786	--	-886	--	NA	NA	2,585
0.31 to 1.00 percent sulfur	--	--	17,702	7,035	--	-2,489	--	NA	NA	6,583
Greater than 1.00 percent sulfur	--	--	109,304	51,959	--	-6,416	--	NA	NA	22,578
Petrochemical Feedstocks	--	--	102,587	15,154	--	-164	--	--	117,905	3,076
Naphtha for Petro. Feed. Use	--	--	65,198	10,921	--	-64	--	--	76,183	1,947
Other Oils for Petro. Feed. Use	--	--	37,389	4,233	--	-100	--	--	41,722	1,129
Special Naphthas	--	--	12,457	4,831	--	-112	--	--	17,400	1,106
Lubricants	--	--	58,921	13,748	--	-1,686	--	37,449	36,906	10,689
Waxes	--	--	1,640	1,641	--	61	--	1,380	1,840	732
Petroleum Coke	--	--	300,447	3,164	--	928	--	197,063	105,620	7,911
Marketable	--	--	224,114	3,164	--	928	--	197,063	29,287	7,911
Catalyst	--	--	76,333	--	--	--	--	--	76,333	--
Asphalt and Road Oil	--	--	111,259	12,826	--	-4,138	--	6,244	121,979	18,728
Still Gas	--	--	229,344	--	--	--	--	--	229,344	--
Miscellaneous Products	--	--	31,442	61	--	-25	--	368	31,160	653
Total	4,334,238	396,606	6,775,499	3,369,372	148,192	-104,836	6,407,105	2,089,057	6,632,580	1,922,503

-- = Not Applicable.
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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.

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Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2017
(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 Oil⁴	10,038	--	--	7,623	232	-480	16,839	1,534	0
Hydrocarbon Gas Liquids	4,054	-22	348	214	--	-479	730	1,509	2,833
Natural Gas Liquids	4,054	-22	61	188	--	-456	730	1,509	2,497
Ethane	1,603	--	7	--	--	11	--	248	1,350
Propane	1,297	--	315	153	--	-74	--	935	904
Normal Butane	345	--	-237	26	--	-344	323	176	-21
Isobutane	347	--	-23	8	--	-40	208	2	162
Natural Gasoline	462	-22	--	0	--	-9	198	148	102
Refinery Olefins	--	--	288	25	--	-23	--	--	336
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	301	20	--	3	--	--	319
Butylene	--	--	-15	5	--	-26	--	--	16
Isobutylene	--	--	1	--	--	0	--	--	0
Other Liquids	--	1,280	--	1,199	105	207	1,828	575	-26
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	1,280	--	48	96	49	1,210	165	0
Hydrogen	--	--	--	--	237	--	237	--	0
Oxygenates (excluding Fuel Ethanol)	--	80	--	11	-10	5	--	76	0
Renewable Fuels (including Fuel Ethanol) ...	--	1,200	--	35	-130	43	972	90	0
Fuel Ethanol ⁵	--	1,082	--	17	-53	43	914	88	0
Renewable Fuels Except Fuel Ethanol	--	117	--	19	-77	0	58	1	0
Other Hydrocarbons	--	--	--	1	0	0	1	--	0
Unfinished Oils	--	--	--	654	--	-83	475	288	-26
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	497	9	241	144	121	0
Reformulated	--	--	--	191	177	85	282	0	0
Conventional	--	0	--	307	-168	155	-138	121	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	5	20,195	746	126	62	--	3,540	17,471
Finished Motor Gasoline	--	5	10,199	10	45	15	--	1,104	9,141
Reformulated	--	--	3,257	--	-186	0	--	--	3,070
Conventional	--	5	6,943	10	231	15	--	1,104	6,070
Finished Aviation Gasoline	--	--	10	0	--	0	--	--	11
Kerosene-Type Jet Fuel	--	--	1,672	194	--	-45	--	187	1,723
Kerosene	--	--	16	--	--	-8	--	21	3
Distillate Fuel Oil ⁵	--	--	5,358	180	82	94	--	1,361	4,165
15 ppm sulfur and under	--	--	5,019	116	82	109	--	1,127	3,981
Greater than 15 ppm to 500 ppm sulfur	--	--	124	1	--	-7	--	132	1
Greater than 500 ppm sulfur	--	--	215	63	--	-8	--	102	183
Residual Fuel Oil ⁶	--	--	412	209	--	-24	--	212	433
Less than 0.31 percent sulfur	--	--	43	8	--	-9	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	52	22	--	7	--	NA	NA
Greater than 1.00 percent sulfur	--	--	317	180	--	-22	--	NA	NA
Petrochemical Feedstocks	--	--	288	40	--	2	--	--	326
Naphtha for Petro. Feed. Use	--	--	190	36	--	-3	--	--	229
Other Oils for Petro. Feed. Use	--	--	97	5	--	5	--	--	97
Special Naphthas	--	--	46	17	--	4	--	--	59
Lubricants	--	--	206	46	--	40	--	98	113
Waxes	--	--	5	7	--	0	--	5	7
Petroleum Coke	--	--	910	9	--	4	--	519	396
Marketable	--	--	676	9	--	4	--	519	162
Catalyst	--	--	234	--	--	--	--	--	234
Asphalt and Road Oil	--	--	288	33	--	-18	--	32	307
Still Gas	--	--	687	--	--	--	--	--	687
Miscellaneous Products	--	--	99	1	--	-2	--	1	101
Total	14,091	1,262	20,543	9,783	463	-691	19,397	7,158	20,278

-- = 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, 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.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 13 for the breakout of Commercial Crude Oil.

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2017
(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 Oil⁴	9,259	--	--	7,924	231	-197	16,530	1,081	0
Hydrocarbon Gas Liquids	3,718	-22	655	186	--	52	549	1,382	2,555
Natural Gas Liquids	3,718	-22	377	157	--	62	549	1,382	2,238
Ethane	1,395	--	--	--	--	25	--	176	1,200
Propane	1,215	--	304	125	--	-24	--	896	772
Normal Butane	308	--	73	14	--	68	163	132	32
Isobutane	350	--	-323	10	--	4	211	4	135
Natural Gasoline	450	-22	--	8	--	-11	175	174	99
Refinery Olefins	--	--	278	29	--	-10	--	--	318
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	283	22	--	-6	--	--	311
Butylene	--	--	-6	7	--	-5	--	--	5
Isobutylene	--	--	523	--	--	0	--	--	1
Other Liquids	--	1,206	--	1,302	84	-4	2,104	485	6
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,206	--	57	109	4	1,206	161	0
Hydrogen	--	--	--	--	221	--	221	--	0
Oxygenates (excluding Fuel Ethanol)	--	71	--	11	-12	1	1	68	0
Renewable Fuels (including Fuel Ethanol)	--	1,134	--	45	-101	3	983	92	0
Fuel Ethanol ⁵	--	1,031	--	5	-22	10	919	86	0
Renewable Fuels Except Fuel Ethanol	--	103	--	40	-79	-7	64	7	0
Other Hydrocarbons	--	--	--	1	0	0	1	--	0
Unfinished Oils	--	--	--	622	--	17	350	250	6
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	623	-25	-24	547	75	0
Reformulated	--	0	--	215	172	-10	396	0	0
Conventional	--	0	--	409	-197	-14	151	75	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	4	19,631	676	129	-165	--	3,307	17,297
Finished Motor Gasoline	--	4	9,950	32	47	-15	--	718	9,330
Reformulated	--	--	3,252	--	-154	0	--	--	3,098
Conventional	--	4	6,698	32	201	-15	--	718	6,232
Finished Aviation Gasoline	--	--	11	0	--	0	--	--	11
Kerosene-Type Jet Fuel	--	--	1,695	162	--	-5	--	187	1,675
Kerosene	--	--	6	3	--	-2	--	6	5
Distillate Fuel Oil ⁵	--	--	4,995	136	82	-98	--	1,373	3,938
15 ppm sulfur and under	--	--	4,663	92	82	-81	--	1,160	3,757
Greater than 15 ppm to 500 ppm sulfur	--	--	115	1	--	-6	--	117	5
Greater than 500 ppm sulfur	--	--	217	43	--	-11	--	96	176
Residual Fuel Oil ⁶	--	--	435	188	--	-29	--	296	356
Less than 0.31 percent sulfur	--	--	54	11	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	53	21	--	-7	--	NA	NA
Greater than 1.00 percent sulfur	--	--	327	156	--	-19	--	NA	NA
Petrochemical Feedstocks	--	--	307	45	--	0	--	--	353
Naphtha for Petro. Feed. Use	--	--	195	33	--	0	--	--	228
Other Oils for Petro. Feed. Use	--	--	112	13	--	0	--	--	125
Special Naphthas	--	--	37	14	--	0	--	--	52
Lubricants	--	--	176	41	--	-5	--	112	110
Waxes	--	--	5	5	--	0	--	4	6
Petroleum Coke	--	--	900	9	--	3	--	590	316
Marketable	--	--	671	9	--	3	--	590	88
Catalyst	--	--	229	--	--	--	--	--	229
Asphalt and Road Oil	--	--	333	38	--	-12	--	19	365
Still Gas	--	--	687	--	--	--	--	--	687
Miscellaneous Products	--	--	94	0	--	0	--	1	93
Total	12,977	1,187	20,286	10,088	444	-314	19,183	6,255	19,858

-- = 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, 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.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 13 for the breakout of Commercial Crude Oil.

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	1,741	--	--	28,323	3,871	136	-724	34,795	0	0	13,016
Hydrocarbon Gas Liquids	14,149	-18	531	1,634	287	--	-18	1,872	2,545	12,184	9,904
Natural Gas Liquids	14,149	-18	131	1,377	82	--	80	1,872	2,545	11,224	9,625
Ethane	6,000	--	--	--	--	--	35	--	1,129	-35	408
Propane	4,705	--	790	1,264	4,098	--	413	--	1,258	9,186	6,849
Normal Butane	1,401	--	-635	57	785	--	-311	1,205	67	647	1,835
Isobutane	704	--	-24	56	81	--	7	407	0	403	163
Natural Gasoline	1,339	-18	--	--	-11	--	-64	260	90	1,024	370
Refinery Olefins	--	--	400	257	--	--	-98	--	--	960	279
Ethylene	--	--	16	--	--	--	--	--	--	16	--
Propylene	--	--	418	257	--	--	-12	--	--	892	144
Butylene	--	--	-82	--	--	--	-100	--	--	18	84
Isobutylene	--	--	48	--	--	--	14	--	--	34	51
Other Liquids	--	1,120	--	16,023	59,852	6,642	4,704	79,177	42	-286	68,402
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	1,123	--	150	10,115	-319	565	10,487	17	0	8,868
Hydrogen	--	--	--	--	--	97	--	97	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	1,123	--	150	10,115	-418	565	10,390	15	0	8,868
Fuel Ethanol	--	931	--	--	9,746	14	641	10,042	8	0	7,345
Renewable Fuels Except Fuel Ethanol	--	192	--	150	370	-432	-76	348	7	0	1,523
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,870	-17	--	-144	2,261	22	-286	5,235
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	14,003	49,754	6,961	4,283	66,429	3	0	54,299
Reformulated	--	--	--	5,721	8,328	2,237	1,268	15,018	0	0	19,100
Conventional	--	-3	--	8,282	41,426	4,724	3,015	51,411	3	0	35,199
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	116,896	11,285	48,988	-6,544	2,408	--	2,643	165,574	78,810
Finished Motor Gasoline	--	--	96,995	268	6,862	-6,975	203	--	20	96,927	4,408
Reformulated	--	--	39,699	--	--	-2,590	2	--	--	37,107	30
Conventional	--	--	57,296	268	6,862	-4,385	201	--	20	59,820	4,378
Finished Aviation Gasoline	--	--	--	1	447	--	15	--	--	433	144
Kerosene-Type Jet Fuel	--	--	3,149	2,690	13,415	--	-1,066	--	12	20,308	8,281
Kerosene	--	--	236	--	--	--	-201	--	7	430	1,445
Distillate Fuel Oil ⁶	--	--	11,123	4,235	25,932	431	3,381	--	196	38,144	51,729
15 ppm sulfur and under	--	--	10,254	2,810	24,000	431	4,328	--	10	33,157	43,130
Greater than 15 ppm to 500 ppm sulfur	--	--	-188	42	26	--	-87	--	186	-219	4,465
Greater than 500 ppm sulfur	--	--	1,057	1,383	1,906	--	-860	--	0	5,206	4,134
Residual Fuel Oil ⁷	--	--	1,171	2,917	20	--	89	--	1,170	2,849	7,292
Less than 0.31 percent sulfur	--	--	82	--	-80	--	-50	--	NA	NA	1,287
0.31 to 1.00 percent sulfur	--	--	368	204	--	--	178	--	NA	NA	1,481
Greater than 1.00 percent sulfur	--	--	721	2,713	100	--	-39	--	NA	NA	4,524
Petrochemical Feedstocks	--	--	117	292	-19	--	3	--	--	387	108
Naphtha for Petro. Feed. Use	--	--	117	292	--	--	3	--	--	406	108
Other Oils for Petro. Feed. Use	--	--	--	--	-19	--	--	--	--	-19	--
Special Naphthas	--	--	25	--	--	--	13	--	--	12	48
Lubricants	--	--	376	152	501	--	132	--	188	709	1,048
Waxes	--	--	-7	94	--	--	2	--	67	18	478
Petroleum Coke	--	--	1,181	1	1,101	--	--	--	902	1,381	--
Marketable	--	--	448	1	1,101	--	--	--	902	648	--
Catalyst	--	--	733	--	--	--	--	--	--	733	--
Asphalt and Road Oil	--	--	1,140	635	729	--	-164	--	68	2,600	3,802
Still Gas	--	--	1,284	--	--	--	--	--	--	1,284	--
Miscellaneous Products	--	--	106	--	--	--	1	--	12	93	27
Total	15,890	1,102	117,427	57,265	112,998	235	6,370	115,844	5,231	177,472	170,132

-- = 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 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 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

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	16,350	--	--	307,443	33,819	3,791	771	356,628	4,004	0	13,016
Hydrocarbon Gas Liquids	141,296	-166	11,139	15,747	-5,689	--	2,137	11,469	39,432	109,289	9,904
Natural Gas Liquids	141,296	-166	6,586	12,163	-8,721	--	2,117	11,469	39,432	98,140	--
Ethane	59,115	--	--	--	--	--	-32	--	12,576	862	--
Propane	47,217	--	7,438	10,948	32,376	--	994	--	16,551	80,434	--
Normal Butane	14,196	--	-529	573	3,058	--	963	5,813	1,594	8,928	--
Isobutane	7,117	--	-323	642	1,669	--	5	4,426	9	4,665	--
Natural Gasoline	13,651	-166	--	--	-115	--	187	1,230	8,702	3,251	--
Refinery Olefins	--	--	4,553	3,584	--	--	20	--	--	11,149	--
Ethylene	--	--	153	--	--	--	--	--	--	153	--
Propylene	--	--	4,578	3,577	--	--	-15	--	--	11,202	--
Butylene	--	--	-701	7	--	--	-16	--	--	-678	--
Isobutylene	--	--	523	--	--	--	51	--	--	472	--
Other Liquids	--	10,658	--	207,912	625,672	59,514	-4,708	910,200	12,259	-13,995	68,402
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	10,691	--	5,954	103,612	-3,097	-243	116,539	864	0	8,868
Hydrogen	--	--	--	--	--	1,085	--	1,085	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	14	--	--	14	0	--
Renewable Fuels (including Fuel Ethanol)	--	10,691	--	5,952	103,612	-4,194	-243	115,454	851	0	8,868
Fuel Ethanol	--	8,906	--	100	102,100	2,554	1,059	111,836	765	0	7,345
Renewable Fuels Except Fuel Ethanol	--	1,785	--	5,852	1,512	-6,748	-1,302	3,618	85	0	1,523
Other Hydrocarbons	--	--	--	2	--	-2	--	--	--	0	--
Unfinished Oils	--	--	--	21,304	-377	--	763	23,183	10,976	-13,995	5,235
Motor Gasoline Blend.Comp. (MGBC)	--	-33	--	180,654	522,437	62,611	-5,228	770,478	419	0	54,299
Reformulated	--	--	--	71,177	90,566	30,667	-523	192,928	5	0	19,100
Conventional	--	-33	--	109,477	431,871	31,944	-4,705	577,550	414	0	35,199
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,283,473	106,214	501,254	-58,419	-23,949	--	55,884	1,800,587	78,810
Finished Motor Gasoline	--	--	1,078,907	8,341	76,613	-65,164	-1,084	--	2,966	1,096,815	4,408
Reformulated	--	--	432,368	--	--	-23,511	-1	--	--	408,858	30
Conventional	--	--	646,539	8,341	76,613	-41,653	-1,083	--	2,966	687,957	4,378
Finished Aviation Gasoline	--	--	--	45	11,772	--	-20	--	--	11,837	144
Kerosene-Type Jet Fuel	--	--	30,650	21,768	147,184	--	-2,797	--	1,161	201,238	8,281
Kerosene	--	--	1,074	1,112	--	--	-326	--	651	1,861	1,445
Distillate Fuel Oil ⁶	--	--	111,734	36,747	243,990	6,746	-15,222	--	24,482	389,957	51,729
15 ppm sulfur and under	--	--	95,736	25,496	224,073	6,746	-10,327	--	21,022	341,355	43,130
Greater than 15 ppm to 500 ppm sulfur	--	--	1,386	428	3,066	--	-1,923	--	3,357	3,446	4,465
Greater than 500 ppm sulfur	--	--	14,612	10,823	16,851	--	-2,972	--	103	45,155	4,134
Residual Fuel Oil ⁷	--	--	15,005	25,708	369	--	-3,704	--	14,949	29,837	7,292
Less than 0.31 percent sulfur	--	--	3,544	1,209	-183	--	287	--	NA	NA	1,287
0.31 to 1.00 percent sulfur	--	--	4,400	3,656	-17	--	-1,162	--	NA	NA	1,481
Greater than 1.00 percent sulfur	--	--	7,061	20,843	569	--	-2,829	--	NA	NA	4,524
Petrochemical Feedstocks	--	--	1,273	301	-242	--	-51	--	--	1,383	108
Naphtha for Petro. Feed. Use	--	--	1,273	301	--	--	-51	--	--	1,625	108
Other Oils for Petro. Feed. Use	--	--	--	--	-242	--	--	--	--	-242	--
Special Naphthas	--	--	231	--	--	--	26	--	--	205	48
Lubricants	--	--	4,333	2,367	5,512	--	-160	--	2,253	10,119	1,048
Waxes	--	--	29	836	9	--	101	--	758	15	478
Petroleum Coke	--	--	11,638	217	6,303	--	--	--	7,687	10,471	--
Marketable	--	--	4,085	217	6,303	--	--	--	7,687	2,918	--
Catalyst	--	--	7,553	--	--	--	--	--	--	7,553	--
Asphalt and Road Oil	--	--	13,380	8,772	9,744	--	-702	--	847	31,751	3,802
Still Gas	--	--	14,159	--	--	--	--	--	--	14,159	--
Miscellaneous Products	--	--	1,060	--	--	--	-10	--	130	940	27
Total	157,646	10,492	1,294,612	637,316	1,155,056	4,886	-25,749	1,278,297	111,579	1,895,881	170,132

-- = 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 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 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

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	58	--	--	944	129	5	-24	1,160	0	0
Hydrocarbon Gas Liquids	472	-1	18	54	10	--	-1	62	85	406
Natural Gas Liquids	472	-1	4	46	3	--	3	62	85	374
Ethane	200	--	--	--	--	--	1	--	38	-1
Propane	157	--	26	42	137	--	14	--	--	306
Normal Butane	47	--	-21	2	26	--	-10	40	2	22
Isobutane	23	--	-1	2	3	--	0	14	0	13
Natural Gasoline	45	-1	--	--	0	--	-2	9	3	34
Refinery Olefins	--	--	13	9	--	--	-3	--	--	32
Ethylene	--	--	1	--	--	--	--	--	--	1
Propylene	--	--	14	9	7	--	0	--	--	30
Butylene	--	--	-3	--	--	--	-3	--	--	1
Isobutylene	--	--	2	--	--	--	0	--	--	1
Other Liquids	--	37	--	534	1,995	221	157	2,639	1	-10
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	37	--	5	337	-11	19	350	1	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	37	--	5	337	-14	19	346	1	0
Fuel Ethanol ⁶	--	31	--	--	325	0	21	335	0	0
Renewable Fuels Except Fuel Ethanol	--	6	--	5	12	-14	-3	12	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	62	-1	--	-5	75	1	-10
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	467	1,658	232	143	2,214	0	0
Reformulated	--	--	--	191	278	75	42	501	0	0
Conventional	--	0	--	276	1,381	157	101	1,714	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,897	376	1,633	-218	80	--	88	5,519
Finished Motor Gasoline	--	--	3,233	9	229	-233	7	--	1	3,231
Reformulated	--	--	1,323	--	--	-86	0	--	--	1,237
Conventional	--	--	1,910	9	229	-146	7	--	1	1,994
Finished Aviation Gasoline	--	--	--	0	15	--	1	--	--	14
Kerosene-Type Jet Fuel	--	--	105	90	447	--	-36	--	0	677
Kerosene	--	--	8	--	--	--	-7	--	0	14
Distillate Fuel Oil ⁶	--	--	371	141	864	14	113	--	7	1,271
15 ppm sulfur and under	--	--	342	94	800	14	144	--	0	1,105
Greater than 15 ppm to 500 ppm sulfur	--	--	-6	1	1	--	-3	--	6	-7
Greater than 500 ppm sulfur	--	--	35	46	64	--	-29	--	0	174
Residual Fuel Oil ⁷	--	--	39	97	1	--	3	--	39	95
Less than 0.31 percent sulfur	--	--	3	--	-3	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	12	7	--	--	6	--	NA	NA
Greater than 1.00 percent sulfur	--	--	24	90	3	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	4	10	-1	--	0	--	--	13
Naphtha for Petro. Feed. Use	--	--	4	10	--	--	0	--	--	14
Other Oils for Petro. Feed. Use	--	--	--	--	-1	--	--	--	--	-1
Special Naphthas	--	--	1	--	--	--	0	--	--	0
Lubricants	--	--	13	5	17	--	4	--	6	24
Waxes	--	--	0	3	--	--	0	--	2	1
Petroleum Coke	--	--	39	0	37	--	--	--	30	46
Marketable	--	--	15	0	37	--	--	--	30	22
Catalyst	--	--	24	--	--	--	--	--	--	24
Asphalt and Road Oil	--	--	38	21	24	--	-5	--	2	87
Still Gas	--	--	43	--	--	--	--	--	--	43
Miscellaneous Products	--	--	4	--	--	--	0	--	0	3
Total	530	37	3,914	1,909	3,767	8	212	3,861	174	5,916

-- = 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 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 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, Lease Condensate, and Natural Gas Production Report" and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	49	--	--	920	101	11	2	1,068	12	0
Hydrocarbon Gas Liquids	423	0	33	47	-17	--	6	34	118	327
Natural Gas Liquids	423	0	20	36	-26	--	6	34	118	294
Ethane	177	--	--	--	--	--	0	--	38	3
Propane	141	--	22	33	97	--	3	--	--	241
Normal Butane	43	--	-2	2	9	--	3	17	5	27
Isobutane	21	--	-1	2	5	--	0	13	0	14
Natural Gasoline	41	0	--	--	0	--	1	4	26	10
Refinery Olefins	--	--	14	11	--	--	0	--	--	33
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	14	11	9	--	0	--	--	34
Butylene	--	--	-2	0	--	--	0	--	--	-2
Isobutylene	--	--	2	--	--	--	0	--	--	1
Other Liquids	--	32	--	622	1,873	178	-14	2,725	37	-42
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32	--	18	310	-9	-1	349	3	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	32	--	18	310	-13	-1	346	3	0
Fuel Ethanol ⁶	--	27	--	0	306	8	3	335	2	0
Renewable Fuels Except Fuel Ethanol	--	5	--	18	5	-20	-4	11	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	64	-1	--	2	69	33	-42
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	541	1,564	187	-16	2,307	1	0
Reformulated	--	--	--	213	271	92	-2	578	0	0
Conventional	--	0	--	328	1,293	96	-14	1,729	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,843	318	1,501	-175	-72	--	167	5,391
Finished Motor Gasoline	--	--	3,230	25	229	-195	-3	--	9	3,284
Reformulated	--	--	1,295	--	--	-70	0	--	--	1,224
Conventional	--	--	1,936	25	229	-125	-3	--	9	2,060
Finished Aviation Gasoline	--	--	--	0	35	--	0	--	--	35
Kerosene-Type Jet Fuel	--	--	92	65	441	--	-8	--	3	603
Kerosene	--	--	3	3	--	--	-1	--	2	6
Distillate Fuel Oil ⁶	--	--	335	110	731	20	-46	--	73	1,168
15 ppm sulfur and under	--	--	287	76	671	20	-31	--	63	1,022
Greater than 15 ppm to 500 ppm sulfur	--	--	4	1	9	--	-6	--	10	10
Greater than 500 ppm sulfur	--	--	44	32	50	--	-9	--	0	135
Residual Fuel Oil ⁷	--	--	45	77	1	--	-11	--	45	89
Less than 0.31 percent sulfur	--	--	11	4	-1	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	11	0	--	-3	--	NA	NA
Greater than 1.00 percent sulfur	--	--	21	62	2	--	-8	--	NA	NA
Petrochemical Feedstocks	--	--	4	1	-1	--	0	--	--	4
Naphtha for Petro. Feed. Use	--	--	4	1	--	--	0	--	--	5
Other Oils for Petro. Feed. Use	--	--	--	--	-1	--	--	--	--	-1
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	7	17	--	0	--	7	30
Waxes	--	--	0	3	0	--	0	--	2	0
Petroleum Coke	--	--	35	1	19	--	--	--	23	31
Marketable	--	--	12	1	19	--	--	--	23	9
Catalyst	--	--	23	--	--	--	--	--	--	23
Asphalt and Road Oil	--	--	40	26	29	--	-2	--	3	95
Still Gas	--	--	42	--	--	--	--	--	--	42
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	472	31	3,876	1,908	3,458	15	-77	3,827	334	5,676

-- = Not Applicable.

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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 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 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, Lease Condensate, and Natural Gas Production Report" and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	56,680	--	--	75,876	-16,276	-10,181	-11,134	112,056	5,177	0	142,621
Hydrocarbon Gas Liquids	28,028	-611	-194	2,880	-9,852	--	-6,341	3,852	6,186	16,554	58,638
Natural Gas Liquids	28,028	-611	-1,584	2,490	-9,311	--	-5,543	3,852	6,186	14,517	57,818
Ethane	10,054	--	--	--	--	--	-720	--	1,473	3,897	6,029
Propane	10,005	--	2,071	2,016	-7,099	--	-2,058	--	154	8,897	24,092
Normal Butane	3,457	--	-3,398	300	-1,689	--	-2,900	1,427	290	-147	15,630
Isobutane	1,460	--	-257	169	94	--	-131	1,382	0	215	2,347
Natural Gasoline	3,052	-611	--	5	4,787	--	266	1,043	4,269	1,655	9,720
Refinery Olefins	--	--	1,390	390	--	--	-798	--	--	2,037	820
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,375	345	--	--	-20	--	--	1,199	732
Butylene	--	--	15	45	--	--	-778	--	--	838	88
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	32,067	--	446	-10,730	-3,628	2,590	14,522	2,644	-1,601	64,301
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	32,068	--	38	-18,960	-2,910	519	9,137	580	0	9,186
Hydrogen	--	--	--	--	--	1,196	--	1,196	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0	7
Renewable Fuels (including Fuel Ethanol)	--	32,068	--	33	-18,960	-4,131	505	7,925	580	0	9,134
Fuel Ethanol	--	29,730	--	--	-18,014	-3,150	496	7,499	571	0	8,272
Renewable Fuels Except Fuel Ethanol	--	2,338	--	33	-945	-982	9	426	9	0	862
Other Hydrocarbons	--	--	--	5	--	25	14	16	--	0	45
Unfinished Oils	--	--	--	--	59	--	224	-289	1,725	-1,601	13,720
Motor Gasoline Blend Comp. (MGBC)	--	-1	--	408	8,171	-718	1,847	5,674	339	0	41,395
Reformulated	--	--	--	--	1,993	-678	530	785	0	0	5,419
Conventional	--	-1	--	408	6,178	-40	1,317	4,889	339	0	35,976
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	154	137,255	995	2,857	4,850	-733	--	1,891	144,952	51,551
Finished Motor Gasoline	--	154	78,668	--	-182	3,868	189	--	271	82,048	6,498
Reformulated	--	--	11,058	--	--	889	--	--	--	11,947	--
Conventional	--	154	67,610	--	-182	2,979	189	--	271	70,101	6,498
Finished Aviation Gasoline	--	--	66	1	139	--	3	--	--	203	140
Kerosene-Type Jet Fuel	--	--	7,347	--	678	--	-508	--	477	8,056	6,896
Kerosene	--	--	182	--	--	--	-63	--	99	146	97
Distillate Fuel Oil	--	--	34,348	162	4,511	982	-394	--	281	40,116	25,369
15 ppm sulfur and under	--	--	34,333	139	4,407	982	-406	--	1	40,266	24,557
Greater than 15 ppm to 500 ppm sulfur	--	--	161	--	104	--	47	--	64	154	466
Greater than 500 ppm sulfur	--	--	-146	23	--	--	-35	--	216	-304	346
Residual Fuel Oil ⁶	--	--	1,461	151	-939	--	-68	--	314	427	1,078
Less than 0.31 percent sulfur	--	--	67	--	--	--	84	--	NA	NA	95
0.31 to 1.00 percent sulfur	--	--	213	81	-62	--	-51	--	NA	NA	127
Greater than 1.00 percent sulfur	--	--	1,181	70	-877	--	-101	--	NA	NA	856
Petrochemical Feedstocks	--	--	915	135	-84	--	-39	--	--	1,005	542
Naphtha for Petro. Feed. Use	--	--	641	51	-82	--	-51	--	--	661	387
Other Oils for Petro. Feed. Use	--	--	274	84	-2	--	12	--	--	344	155
Special Naphthas	--	--	53	51	47	--	13	--	--	138	143
Lubricants	--	--	296	172	228	--	188	--	242	266	813
Waxes	--	--	42	16	--	--	7	--	32	19	55
Petroleum Coke	--	--	5,537	26	-1,140	--	50	--	77	4,297	1,308
Marketable	--	--	4,116	26	-1,140	--	50	--	77	2,876	1,308
Catalyst	--	--	1,421	--	--	--	--	--	--	1,421	--
Asphalt and Road Oil	--	--	3,617	281	-441	--	-81	--	97	3,441	8,489
Still Gas	--	--	4,255	--	--	--	--	--	--	4,255	--
Miscellaneous Products	--	--	468	--	39	--	-30	--	1	536	123
Total	84,708	31,610	137,061	80,197	-34,001	-8,960	-15,618	130,430	15,898	159,906	317,111

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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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.

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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, 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

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	572,720	--	--	855,474	-64,613	-56,049	-8,658	1,253,140	63,049	0	142,621
Hydrocarbon Gas Liquids	279,501	-6,621	40,458	27,140	-105,601	--	10,711	33,422	71,220	119,524	58,638
Natural Gas Liquids	279,501	-6,621	24,838	22,498	-97,673	--	10,581	33,422	71,220	107,320	--
Ethane	92,100	--	--	--	--	--	348	--	18,495	29,881	--
Propane	103,404	--	24,748	18,174	-88,228	--	2,591	--	2,441	53,066	--
Normal Butane	33,890	--	5	2,068	-15,129	--	6,769	8,608	3,608	3,567	--
Isobutane	17,698	--	-1,627	2,209	-359	--	445	16,098	3	1,375	--
Natural Gasoline	32,409	-6,621	--	47	49,419	--	428	8,716	46,679	19,431	--
Refinery Olefins	--	--	15,620	4,642	--	--	130	--	--	12,204	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	14,287	3,831	--	--	99	--	--	10,091	--
Butylene	--	--	1,333	811	--	--	31	--	--	2,113	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	338,486	--	3,773	-123,407	-22,789	-2,236	192,970	21,626	-16,297	64,301
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	338,498	--	518	-216,784	-11,826	1,386	101,106	7,914	0	9,186
Hydrogen	--	--	--	--	--	12,774	--	12,774	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	11	--	--	--	3	7	--	7	0	7
Renewable Fuels (including Fuel Ethanol)	--	338,487	--	403	-216,784	-24,883	1,351	87,965	7,907	0	9,134
Fuel Ethanol	--	315,320	--	--	-210,367	-14,101	1,178	82,953	6,720	0	8,272
Renewable Fuels Except Fuel Ethanol	--	23,167	--	403	-6,417	-10,781	173	5,012	1,187	0	862
Other Hydrocarbons	--	--	--	115	--	280	28	367	--	0	45
Unfinished Oils	--	--	--	--	-1,827	--	583	1,272	12,615	-16,297	13,720
Motor Gasoline Blend.Comp. (MGBC)	--	-12	--	3,255	95,204	-10,963	-4,205	90,592	1,097	0	41,395
Reformulated	--	-1	--	258	20,439	-11,892	-1,128	9,932	0	0	5,419
Conventional	--	-11	--	2,997	74,765	929	-3,077	80,660	1,097	0	35,976
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,195	1,516,509	8,547	26,073	35,886	-9,882	--	16,666	1,581,426	51,551
Finished Motor Gasoline	--	1,195	866,199	--	4,382	25,064	-749	--	1,890	895,699	6,498
Reformulated	--	--	121,417	--	--	14,178	--	--	--	135,595	--
Conventional	--	1,195	744,782	--	4,382	10,886	-749	--	1,890	760,104	6,498
Finished Aviation Gasoline	--	--	527	24	580	--	-71	--	--	1,202	140
Kerosene-Type Jet Fuel	--	--	86,425	5	9,163	--	67	--	2,371	93,155	6,896
Kerosene	--	--	564	--	--	--	-99	--	317	346	97
Distillate Fuel Oil	--	--	364,986	487	35,199	10,822	-7,193	--	2,755	415,933	25,369
15 ppm sulfur and under	--	--	365,704	413	33,896	10,822	-6,731	--	12	417,555	24,557
Greater than 15 ppm to 500 ppm sulfur	--	--	482	--	991	--	16	--	1,140	317	466
Greater than 500 ppm sulfur	--	--	-1,200	74	312	--	-478	--	1,603	-1,939	346
Residual Fuel Oil ⁶	--	--	16,995	848	-9,245	--	-411	--	3,131	5,878	1,078
Less than 0.31 percent sulfur	--	--	1,026	--	-478	--	63	--	NA	NA	95
0.31 to 1.00 percent sulfur	--	--	2,465	435	-157	--	-160	--	NA	NA	127
Greater than 1.00 percent sulfur	--	--	13,504	413	-8,610	--	-314	--	NA	NA	856
Petrochemical Feedstocks	--	--	10,624	1,615	-1,162	--	9	--	--	11,068	542
Naphtha for Petro. Feed. Use	--	--	7,805	810	-1,062	--	-4	--	--	7,557	387
Other Oils for Petro. Feed. Use	--	--	2,819	805	-100	--	13	--	--	3,511	155
Special Naphthas	--	--	576	495	245	--	-18	--	--	1,334	143
Lubricants	--	--	2,579	2,123	2,484	--	73	--	2,109	5,004	813
Waxes	--	--	371	74	--	--	11	--	293	141	55
Petroleum Coke	--	--	64,039	251	-9,655	--	230	--	2,418	51,987	1,308
Marketable	--	--	47,899	251	-9,655	--	230	--	2,418	35,847	1,308
Catalyst	--	--	16,140	--	--	--	--	--	--	16,140	--
Asphalt and Road Oil	--	--	50,199	2,621	-6,131	--	-1,731	--	1,374	47,045	8,489
Still Gas	--	--	47,066	--	--	--	--	--	--	47,066	--
Miscellaneous Products	--	--	5,359	4	213	--	0	--	8	5,568	123
Total	852,221	333,060	1,556,967	894,934	-267,549	-42,952	-10,065	1,479,532	172,562	1,684,653	317,111

-- = 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 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 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, 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

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,889	--	--	2,529	-543	-339	-371	3,735	173	0
Hydrocarbon Gas Liquids	934	-20	-6	96	-328	--	-211	128	206	552
Natural Gas Liquids	934	-20	-53	83	-310	--	-185	128	206	484
Ethane	335	--	--	--	--	--	-24	--	49	130
Propane	334	--	69	67	-237	--	-69	--	5	297
Normal Butane	115	--	-1,671	10	-56	--	-97	48	10	-5
Isobutane	49	--	-9	6	3	--	-4	46	0	7
Natural Gasoline	102	-20	--	0	160	--	9	35	142	55
Refinery Olefins	--	--	46	13	--	--	-27	--	--	68
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	46	12	-18	--	-1	--	--	40
Butylene	--	--	1	2	--	--	-26	--	--	28
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,069	--	15	-358	-121	86	484	88	-53
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,069	--	1	-632	-97	17	305	19	0
Hydrogen	--	--	--	--	--	40	--	40	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,069	--	1	-632	-138	17	264	19	0
Fuel Ethanol	--	991	--	--	-600	-105	17	250	19	0
Renewable Fuels Except Fuel Ethanol	--	78	--	1	-32	-33	0	14	0	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	--	2	--	7	-10	57	-53
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	14	272	-24	62	189	11	0
Reformulated	--	--	--	--	66	-23	18	26	0	0
Conventional	--	0	--	14	206	-1	44	163	11	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,575	33	95	162	-24	--	63	4,832
Finished Motor Gasoline	--	5	2,622	--	-6	129	6	--	9	2,735
Reformulated	--	--	369	--	--	30	--	--	--	398
Conventional	--	5	2,254	--	-6	99	6	--	9	2,337
Finished Aviation Gasoline	--	--	2	0	5	--	0	--	--	7
Kerosene-Type Jet Fuel	--	--	245	--	23	--	-17	--	16	269
Kerosene	--	--	6	--	--	--	-2	--	3	5
Distillate Fuel Oil	--	--	1,145	5	150	33	-13	--	9	1,337
15 ppm sulfur and under	--	--	1,144	5	147	33	-14	--	0	1,342
Greater than 15 ppm to 500 ppm sulfur	--	--	5	--	3	--	2	--	2	5
Greater than 500 ppm sulfur	--	--	-5	1	--	--	-1	--	7	-10
Residual Fuel Oil ⁶	--	--	49	5	-31	--	-2	--	10	14
Less than 0.31 percent sulfur	--	--	2	--	--	--	3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	3	-2	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	39	2	-29	--	-3	--	NA	NA
Petrochemical Feedstocks	--	--	31	5	-3	--	-1	--	--	34
Naphtha for Petro. Feed. Use	--	--	21	2	-3	--	-2	--	--	22
Other Oils for Petro. Feed. Use	--	--	9	3	0	--	0	--	--	11
Special Naphthas	--	--	2	2	2	--	0	--	--	5
Lubricants	--	--	10	6	8	--	6	--	8	9
Waxes	--	--	1	1	--	--	0	--	1	1
Petroleum Coke	--	--	185	1	-38	--	2	--	3	143
Marketable	--	--	137	1	-38	--	2	--	3	96
Catalyst	--	--	47	--	--	--	--	--	--	47
Asphalt and Road Oil	--	--	121	9	-15	--	-3	--	3	115
Still Gas	--	--	142	--	--	--	--	--	--	142
Miscellaneous Products	--	--	16	--	1	--	-1	--	0	18
Total	2,824	1,054	4,569	2,673	-1,133	-299	-521	4,348	530	5,330

-- = 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 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 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, 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-November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,715	--	--	2,561	-193	-168	-26	3,752	189	0
Hydrocarbon Gas Liquids	837	-20	121	81	-316	--	32	100	213	358
Natural Gas Liquids	837	-20	74	67	-292	--	32	100	213	321
Ethane	276	--	--	--	--	--	1	--	55	89
Propane	310	--	74	54	-264	--	8	--	7	159
Normal Butane	101	--	5	6	-45	--	20	26	11	11
Isobutane	53	--	-5	7	-1	--	1	48	0	4
Natural Gasoline	97	-20	--	0	148	--	1	26	140	58
Refinery Olefins	--	--	47	14	--	--	0	--	--	37
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	43	11	-24	--	0	--	--	30
Butylene	--	--	4	2	--	--	0	--	--	6
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,013	--	11	-369	-68	-7	578	65	-49
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,013	--	2	-649	-35	4	303	24	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,013	--	1	-649	-74	4	263	24	0
Fuel Ethanol	--	944	--	--	-630	-42	4	248	20	0
Renewable Fuels Except Fuel Ethanol	--	69	--	1	-19	-32	1	15	4	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	--	-5	--	2	4	38	-49
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	10	285	-33	-13	271	3	0
Reformulated	--	0	--	1	61	-36	-3	30	0	0
Conventional	--	0	--	9	224	3	-9	241	3	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,540	26	78	107	-30	--	50	4,735
Finished Motor Gasoline	--	4	2,593	--	13	75	-2	--	6	2,682
Reformulated	--	--	364	--	--	42	--	--	--	406
Conventional	--	4	2,230	--	13	33	-2	--	6	2,276
Finished Aviation Gasoline	--	--	2	0	2	--	0	--	--	4
Kerosene-Type Jet Fuel	--	--	259	0	27	--	0	--	7	279
Kerosene	--	--	2	--	--	--	0	--	1	1
Distillate Fuel Oil	--	--	1,093	1	105	32	-22	--	8	1,245
15 ppm sulfur and under	--	--	1,095	1	101	32	-20	--	0	1,250
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	3	--	0	--	3	1
Greater than 500 ppm sulfur	--	--	-4	0	1	--	-1	--	5	-6
Residual Fuel Oil ⁶	--	--	51	3	-28	--	-1	--	9	18
Less than 0.31 percent sulfur	--	--	3	--	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	1	0	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	40	1	-26	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	32	5	-3	--	0	--	--	33
Naphtha for Petro. Feed. Use	--	--	23	2	-3	--	0	--	--	23
Other Oils for Petro. Feed. Use	--	--	8	2	0	--	0	--	--	11
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	8	6	7	--	0	--	6	15
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	192	1	-29	--	1	--	7	156
Marketable	--	--	143	1	-29	--	1	--	7	107
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	150	8	-18	--	-5	--	4	141
Still Gas	--	--	141	--	--	--	--	--	--	141
Miscellaneous Products	--	--	16	0	1	--	0	--	0	17
Total	2,552	997	4,662	2,679	-801	-129	-30	4,430	517	5,044

-- = 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 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 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, 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, November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	188,992	--	--	77,582	22,285	14,629	-5,741	268,418	40,811	0	881,715
Hydrocarbon Gas Liquids	64,395	-18	9,870	115	20,052	--	-6,415	12,004	35,048	53,777	139,797
Natural Gas Liquids	64,395	-18	3,269	--	19,716	--	-6,715	12,004	35,048	47,025	135,075
Ethane	27,636	--	202	--	--	--	959	--	4,836	36,393	52,047
Propane	19,538	--	5,174	--	6,502	--	-449	--	25,576	6,087	34,728
Normal Butane	3,396	--	-1,671	--	1,757	--	-5,693	5,119	4,563	-507	31,418
Isobutane	7,135	--	-436	--	432	--	-1,058	3,330	56	4,803	6,027
Natural Gasoline	6,690	-18	--	--	-3,325	--	-474	3,555	17	249	10,855
Refinery Olefins	--	--	6,601	115	--	--	300	--	--	6,752	4,722
Ethylene	--	--	8	--	--	--	0	--	--	8	0
Propylene	--	--	6,992	--	--	--	120	--	--	7,208	4,134
Butylene	--	--	-377	115	--	--	180	--	--	-442	588
Isobutylene	--	--	-22	--	--	--	0	--	--	-22	0
Other Liquids	--	3,914	--	13,231	-56,581	2,046	-3,762	-48,225	13,693	904	122,399
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	3,914	--	358	4,701	4,352	-51	9,187	4,189	0	6,934
Hydrogen	--	--	--	--	--	4,393	--	4,393	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,399	--	344	--	-313	160	--	2,270	0	1,641
Renewable Fuels (including Fuel Ethanol)	--	1,515	--	--	4,701	286	-211	4,794	1,919	0	5,293
Fuel Ethanol	--	780	--	--	4,647	686	-191	4,396	1,908	0	3,873
Renewable Fuels Except Fuel Ethanol	--	735	--	--	54	-400	-20	398	11	0	1,420
Other Hydrocarbons	--	--	--	14	--	-14	--	--	--	0	--
Unfinished Oils	--	--	--	12,847	-42	--	-2,067	7,451	6,517	904	44,057
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	26	-61,240	-2,306	-1,647	-64,860	2,987	0	71,395
Reformulated	--	--	--	--	-12,035	3,514	-804	-7,724	7	0	10,308
Conventional	--	--	--	26	-49,205	-5,820	-843	-57,136	2,980	0	61,087
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	3	-3	--	0	13
Finished Petroleum Products	--	--	241,439	4,396	-53,540	2,386	-2,225	--	88,081	108,825	103,367
Finished Motor Gasoline	--	--	74,674	--	-7,053	1,620	-88	--	28,543	40,786	8,539
Reformulated	--	--	14,095	--	--	-3,893	--	--	--	10,202	--
Conventional	--	--	60,579	--	-7,053	5,513	-88	--	28,543	30,584	8,539
Finished Aviation Gasoline	--	--	247	--	-586	--	11	--	--	-350	387
Kerosene-Type Jet Fuel	--	--	25,720	125	-14,944	--	-317	--	4,466	6,752	15,144
Kerosene	--	--	40	--	--	--	13	--	508	-481	125
Distillate Fuel Oil	--	--	91,142	475	-31,112	765	-1,568	--	36,205	26,633	39,463
15 ppm sulfur and under	--	--	82,509	--	-29,076	765	-1,990	--	31,543	24,645	33,531
Greater than 15 ppm to 500 ppm sulfur	--	--	3,406	--	-130	--	-185	--	3,500	-39	1,469
Greater than 500 ppm sulfur	--	--	5,227	475	-1,906	--	607	--	1,162	2,027	4,463
Residual Fuel Oil ⁷	--	--	5,813	1,295	919	--	-1,076	--	4,474	4,629	18,686
Less than 0.31 percent sulfur	--	--	976	243	80	--	-240	--	NA	NA	1,164
0.31 to 1.00 percent sulfur	--	--	394	171	62	--	121	--	NA	NA	4,510
Greater than 1.00 percent sulfur	--	--	4,443	881	777	--	-957	--	NA	NA	13,012
Petrochemical Feedstocks	--	--	7,595	676	103	--	103	--	--	8,271	2,425
Naphtha for Petro. Feed. Use	--	--	4,951	625	82	--	-30	--	--	5,688	1,451
Other Oils for Petro. Feed. Use	--	--	2,644	51	21	--	133	--	--	2,583	974
Special Naphthas	--	--	1,285	451	-47	--	141	--	--	1,548	899
Lubricants	--	--	4,693	1,058	-729	--	720	--	2,163	2,139	7,861
Waxes	--	--	119	60	--	--	-4	--	31	152	199
Petroleum Coke	--	--	15,210	234	272	--	251	--	10,922	4,543	5,343
Marketable	--	--	11,609	234	272	--	251	--	10,922	942	5,343
Catalyst	--	--	3,601	--	--	--	--	--	--	3,601	--
Asphalt and Road Oil	--	--	2,297	--	-324	--	-371	--	760	1,584	3,923
Still Gas	--	--	10,763	--	--	--	--	--	--	10,763	--
Miscellaneous Products	--	--	1,841	22	-39	--	-40	--	8	1,856	373
Total	253,387	3,896	251,309	95,324	-67,784	19,060	-18,143	232,197	177,633	163,506	1,247,278

-- = 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 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 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, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	1,942,024	--	--	959,730	126,924	98,612	-59,150	2,897,823	288,617	0	881,715
Hydrocarbon Gas Liquids	668,552	-202	141,959	4,109	219,633	--	3,086	103,209	334,012	593,744	139,797
Natural Gas Liquids	668,552	-202	72,628	2,733	214,737	--	6,699	103,209	334,012	514,528	--
Ethane	276,684	--	1,747	--	--	--	7,917	--	27,569	367,767	--
Propane	205,355	--	53,464	14	93,956	--	-12,120	--	269,821	95,088	--
Normal Butane	33,201	--	18,608	--	23,839	--	14,573	27,523	34,956	-1,404	--
Isobutane	79,215	--	-1,191	30	5,785	--	692	38,370	1,346	43,431	--
Natural Gasoline	74,097	-202	--	2,689	-33,665	--	-4,363	37,316	321	9,645	--
Refinery Olefins	--	--	69,331	1,376	--	--	-3,613	--	--	79,216	--
Ethylene	--	--	79	--	--	--	0	--	--	79	--
Propylene	--	--	72,617	--	--	--	-2,038	--	--	79,551	--
Butylene	--	--	-3,105	1,376	--	--	-1,575	--	--	-154	--
Isobutylene	--	--	-260	--	--	--	0	--	--	-260	--
Other Liquids	--	39,463	--	164,662	-606,938	10,338	2,546	-545,656	121,707	28,927	122,399
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	39,463	--	5,375	57,905	39,025	-140	99,133	42,774	0	6,934
Hydrogen	--	--	--	--	--	44,721	--	44,721	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	23,835	--	3,547	--	-4,179	164	318	22,721	0	1,641
Renewable Fuels (including Fuel Ethanol)	--	15,628	--	1,716	57,905	-1,405	-304	54,094	20,053	0	5,293
Fuel Ethanol	--	9,005	--	--	57,110	2,875	548	49,056	19,385	0	3,873
Renewable Fuels Except Fuel Ethanol	--	6,623	--	1,716	795	-4,280	-852	5,038	668	0	1,420
Other Hydrocarbons	--	--	--	112	--	-112	--	--	--	0	--
Unfinished Oils	--	--	--	145,648	2,204	--	2,485	58,357	58,011	28,999	44,057
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	13,639	-667,047	-28,687	197	-703,214	20,922	0	71,395
Reformulated	--	--	--	--	-136,670	38,531	-1,347	-96,866	74	0	10,308
Conventional	--	--	--	13,639	-530,377	-67,217	1,544	-606,348	20,849	0	61,087
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	4	68	--	-72	13
Finished Petroleum Products	--	--	2,513,614	54,718	-542,201	32,358	-20,425	--	916,488	1,162,425	103,367
Finished Motor Gasoline	--	--	736,137	1,187	-79,351	25,812	-2,935	--	215,769	470,951	8,539
Reformulated	--	--	154,675	--	--	-42,169	--	--	--	112,506	--
Conventional	--	--	581,462	1,187	-79,351	67,981	-2,935	--	215,769	358,446	8,539
Finished Aviation Gasoline	--	--	2,679	--	-12,532	--	-30	--	--	-9,823	387
Kerosene-Type Jet Fuel	--	--	285,538	125	-166,331	--	78	--	49,284	69,970	15,144
Kerosene	--	--	251	--	--	--	-121	--	1,115	-743	125
Distillate Fuel Oil	--	--	939,020	3,378	-288,907	6,546	-9,329	--	398,108	271,258	39,463
15 ppm sulfur and under	--	--	851,776	--	-267,951	6,546	-8,852	--	346,321	252,902	33,531
Greater than 15 ppm to 500 ppm sulfur	--	--	32,868	--	-4,057	--	-28	--	32,261	-3,422	1,469
Greater than 500 ppm sulfur	--	--	54,376	3,378	-16,899	--	-449	--	19,526	21,778	4,463
Residual Fuel Oil ⁷	--	--	70,926	21,412	8,876	--	-5,670	--	74,480	32,404	18,686
Less than 0.31 percent sulfur	--	--	11,332	2,577	661	--	-1,107	--	NA	NA	1,164
0.31 to 1.00 percent sulfur	--	--	3,868	1,594	174	--	-779	--	NA	NA	4,510
Greater than 1.00 percent sulfur	--	--	55,726	17,241	8,041	--	-3,784	--	NA	NA	13,012
Petrochemical Feedstocks	--	--	90,659	12,796	1,404	--	-122	--	--	104,981	2,425
Naphtha for Petro. Feed. Use	--	--	56,089	9,400	1,062	--	-9	--	--	66,560	1,451
Other Oils for Petro. Feed. Use	--	--	34,570	3,396	342	--	-113	--	--	38,421	974
Special Naphthas	--	--	11,365	4,291	-245	--	-107	--	--	15,518	899
Lubricants	--	--	45,197	8,729	-7,501	--	-1,968	--	29,831	18,562	7,861
Waxes	--	--	1,240	358	-9	--	-51	--	262	1,378	199
Petroleum Coke	--	--	165,477	2,400	6,311	--	795	--	143,782	29,611	5,343
Marketable	--	--	127,030	2,400	6,311	--	795	--	143,782	-8,836	5,343
Catalyst	--	--	38,447	--	--	--	--	--	--	38,447	--
Asphalt and Road Oil	--	--	26,693	--	-3,704	--	-914	--	3,631	20,273	3,923
Still Gas	--	--	119,287	--	--	--	--	--	--	119,287	--
Miscellaneous Products	--	--	19,145	42	-213	--	-51	--	226	18,799	373
Total	2,610,576	39,261	2,655,573	1,183,219	-802,582	141,308	-73,943	2,455,376	1,660,824	1,785,096	1,247,278

-- = 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 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 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, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	6,300	--	--	2,586	743	488	-191	8,947	1,360	0
Hydrocarbon Gas Liquids	2,147	-1	329	4	668	--	-214	400	1,168	1,793
Natural Gas Liquids	2,147	-1	109	--	657	--	-224	400	1,168	1,567
Ethane	921	--	7	--	--	--	32	--	161	1,213
Propane	651	--	172	--	217	--	-15	--	853	203
Normal Butane	113	--	-56	--	59	--	-190	171	152	-17
Isobutane	238	--	-15	--	14	--	-35	111	2	160
Natural Gasoline	223	-1	--	--	-111	--	-16	119	1	8
Refinery Olefins	--	--	220	4	--	--	10	--	--	225
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	233	--	11	--	4	--	--	240
Butylene	--	--	-13	4	--	--	6	--	--	-15
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	130	--	441	-1,886	68	-125	-1,608	456	30
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	130	--	12	157	145	-2	306	140	0
Hydrogen	--	--	--	--	--	146	--	146	--	0
Oxygenates (excluding Fuel Ethanol)	--	80	--	11	--	-10	5	--	76	0
Renewable Fuels (including Fuel Ethanol)	--	51	--	--	157	10	-7	160	64	0
Fuel Ethanol	--	26	--	--	155	23	-6	147	64	0
Renewable Fuels Except Fuel Ethanol	--	25	--	--	2	-13	-1	13	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	428	-1	--	-69	248	217	30
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	-2,041	-77	-55	-2,162	100	0
Reformulated	--	--	--	--	-401	117	-27	-257	0	0
Conventional	--	--	--	1	-1,640	-194	-28	-1,905	99	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	8,048	147	-1,785	80	-74	--	2,936	3,627
Finished Motor Gasoline	--	--	2,489	--	-235	54	-3	--	951	1,360
Reformulated	--	--	470	--	--	-130	--	--	--	340
Conventional	--	--	2,019	--	-235	184	-3	--	951	1,019
Finished Aviation Gasoline	--	--	8	--	-20	--	0	--	--	-12
Kerosene-Type Jet Fuel	--	--	857	4	-498	--	-11	--	149	225
Kerosene	--	--	1	--	--	--	0	--	17	-16
Distillate Fuel Oil	--	--	3,038	16	-1,037	26	-52	--	1,207	888
15 ppm sulfur and under	--	--	2,750	--	-969	26	-66	--	1,051	822
Greater than 15 ppm to 500 ppm sulfur	--	--	114	--	-4	--	-6	--	117	-1
Greater than 500 ppm sulfur	--	--	174	16	-64	--	20	--	39	68
Residual Fuel Oil ⁷	--	--	194	43	31	--	-36	--	149	154
Less than 0.31 percent sulfur	--	--	33	8	3	--	-8	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	6	2	--	4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	148	29	26	--	-32	--	NA	NA
Petrochemical Feedstocks	--	--	253	23	3	--	3	--	--	276
Naphtha for Petro. Feed. Use	--	--	165	21	3	--	-1	--	--	190
Other Oils for Petro. Feed. Use	--	--	88	2	1	--	4	--	--	86
Special Naphthas	--	--	43	15	-2	--	5	--	--	52
Lubricants	--	--	156	35	-24	--	24	--	72	71
Waxes	--	--	4	2	--	--	0	--	1	5
Petroleum Coke	--	--	507	8	9	--	8	--	364	151
Marketable	--	--	387	8	9	--	8	--	364	31
Catalyst	--	--	120	--	--	--	--	--	--	120
Asphalt and Road Oil	--	--	77	--	-11	--	-12	--	25	53
Still Gas	--	--	359	--	--	--	--	--	--	359
Miscellaneous Products	--	--	61	1	-1	--	-1	--	0	62
Total	8,446	130	8,377	3,177	-2,259	635	-605	7,740	5,921	5,450

-- = 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 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 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.

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, 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

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	5,814	--	--	2,873	380	295	-177	8,676	864	0
Hydrocarbon Gas Liquids	2,002	-1	425	12	658	--	9	309	1,000	1,778
Natural Gas Liquids	2,002	-1	217	8	643	--	20	309	1,000	1,541
Ethane	828	--	5	--	--	--	24	--	83	1,101
Propane	615	--	160	0	281	--	-36	--	808	285
Normal Butane	99	--	927	--	71	--	44	82	105	-4
Isobutane	237	--	-4	0	17	--	2	115	4	130
Natural Gasoline	222	-1	--	8	-101	--	-13	112	1	29
Refinery Olefins	--	--	208	4	--	--	-11	--	--	237
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	217	--	15	--	-6	--	--	238
Butylene	--	--	-9	4	--	--	-5	--	--	0
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	118	--	493	-1,817	31	8	-1,634	364	87
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	118	--	16	173	117	0	297	128	0
Hydrogen	--	--	--	--	--	134	--	134	--	0
Oxygenates (excluding Fuel Ethanol)	--	71	--	11	--	-13	0	1	68	0
Renewable Fuels (including Fuel Ethanol)	--	47	--	5	173	-4	-1	162	60	0
Fuel Ethanol	--	27	--	--	171	9	2	147	58	0
Renewable Fuels Except Fuel Ethanol	--	20	--	5	2	-13	-3	15	2	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	436	7	--	7	175	174	87
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	41	-1,997	-86	1	-2,105	63	0
Reformulated	--	--	--	--	-409	115	-4	-290	0	0
Conventional	--	--	--	41	-1,588	-201	5	-1,815	62	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,526	164	-1,623	97	-61	--	2,744	3,480
Finished Motor Gasoline	--	--	2,204	4	-238	77	-9	--	646	1,410
Reformulated	--	--	463	--	--	-126	--	--	--	337
Conventional	--	--	1,741	4	-238	204	-9	--	646	1,073
Finished Aviation Gasoline	--	--	8	--	-38	--	0	--	--	-29
Kerosene-Type Jet Fuel	--	--	855	0	-498	--	0	--	148	209
Kerosene	--	--	1	--	--	--	0	--	3	-2
Distillate Fuel Oil	--	--	2,811	10	-865	20	-28	--	1,192	812
15 ppm sulfur and under	--	--	2,550	--	-802	20	-27	--	1,037	757
Greater than 15 ppm to 500 ppm sulfur	--	--	98	--	-12	--	0	--	97	-10
Greater than 500 ppm sulfur	--	--	163	10	-51	--	-1	--	58	65
Residual Fuel Oil ⁷	--	--	212	64	27	--	-17	--	223	97
Less than 0.31 percent sulfur	--	--	34	8	2	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	12	5	1	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	167	52	24	--	-11	--	NA	NA
Petrochemical Feedstocks	--	--	271	38	4	--	0	--	--	314
Naphtha for Petro. Feed. Use	--	--	168	28	3	--	0	--	--	199
Other Oils for Petro. Feed. Use	--	--	104	10	1	--	0	--	--	115
Special Naphthas	--	--	34	13	-1	--	0	--	--	46
Lubricants	--	--	135	26	-22	--	-6	--	89	56
Waxes	--	--	4	1	0	--	0	--	1	4
Petroleum Coke	--	--	495	7	19	--	2	--	430	89
Marketable	--	--	380	7	19	--	2	--	430	-26
Catalyst	--	--	115	--	--	--	--	--	--	115
Asphalt and Road Oil	--	--	80	--	-11	--	-3	--	11	61
Still Gas	--	--	357	--	--	--	--	--	--	357
Miscellaneous Products	--	--	57	0	-1	--	0	--	1	56
Total	7,816	118	7,951	3,543	-2,403	423	-221	7,351	4,973	5,345

-- = 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 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 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.

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, 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

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	23,698	--	--	10,503	-13,110	-1,794	1,792	17,471	34	0	22,477
Hydrocarbon Gas Liquids	12,986	-9	10	430	-11,701	--	-283	703	72	1,224	4,156
Natural Gas Liquids	12,986	-9	5	430	-11,701	--	-279	703	72	1,215	4,151
Ethane	4,396	--	--	--	--	--	65	--	--	256	485
Propane	4,342	--	259	424	-3,830	--	44	--	0	1,151	1,581
Normal Butane	1,690	--	-257	4	-1,513	--	-437	317	--	44	1,451
Isobutane	771	--	3	2	-832	--	17	216	--	-289	276
Natural Gasoline	1,787	-9	--	--	-1,451	--	32	170	72	53	358
Refinery Olefins	--	--	5	--	--	--	-4	--	--	9	5
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	-1	--	--	1	0
Butylene	--	--	5	--	--	--	-3	--	--	8	5
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	430	--	18	-564	-717	43	-1,026	1	150	8,665
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	430	--	5	206	465	14	1,092	1	0	371
Hydrogen	--	--	--	--	--	202	--	202	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	430	--	5	206	263	14	890	0	0	371
Fuel Ethanol	--	430	--	--	171	270	12	859	--	0	364
Renewable Fuels Except Fuel Ethanol	--	--	--	5	35	-6	2	31	0	0	7
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	125	-275	--	150	3,080
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	13	-770	-1,182	-96	-1,843	--	0	5,214
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-770	-1,182	-96	-1,843	--	0	5,214
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	18,128	111	228	919	397	--	32	18,957	7,592
Finished Motor Gasoline	--	--	8,607	--	2	912	149	--	--	9,372	1,900
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	8,607	--	2	912	149	--	--	9,372	1,900
Finished Aviation Gasoline	--	--	--	--	--	--	-3	--	--	3	5
Kerosene-Type Jet Fuel	--	--	913	--	661	--	-66	--	--	1,640	707
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	6,040	85	36	6	346	--	--	5,821	3,534
15 ppm sulfur and under	--	--	6,006	85	36	6	349	--	--	5,784	3,289
Greater than 15 ppm to 500 ppm sulfur	--	--	54	--	--	--	16	--	--	38	180
Greater than 500 ppm sulfur	--	--	-20	--	--	--	-19	--	--	-1	65
Residual Fuel Oil ⁶	--	--	300	--	--	--	-11	--	17	294	191
Less than 0.31 percent sulfur	--	--	155	--	--	--	11	--	NA	NA	19
0.31 to 1.00 percent sulfur	--	--	20	--	--	--	-5	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	125	--	--	--	-17	--	NA	NA	168
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	12	-12	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	721	--	-284	--	-45	--	--	482	51
Marketable	--	--	519	--	-284	--	-45	--	--	280	51
Catalyst	--	--	202	--	--	--	--	--	--	202	--
Asphalt and Road Oil	--	--	825	25	-187	--	23	--	3	637	1,184
Still Gas	--	--	636	--	--	--	--	--	--	636	--
Miscellaneous Products	--	--	86	1	--	--	4	--	0	83	19
Total	36,684	421	18,138	11,062	-25,147	-1,592	1,949	17,148	138	20,331	42,890

-- = 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 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 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, 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

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	232,370	--	--	115,424	-141,565	2,346	-843	208,587	830	0	22,477
Hydrocarbon Gas Liquids	130,495	-103	4,820	3,619	-117,518	--	811	6,434	2,601	11,467	4,156
Natural Gas Liquids	130,495	-103	4,297	3,619	-117,518	--	845	6,434	2,601	10,910	--
Ethane	38,002	--	--	--	--	--	49	--	--	2,216	--
Propane	46,376	--	3,195	3,322	-41,450	--	228	--	2	11,213	--
Normal Butane	18,021	--	927	97	-15,803	--	496	2,160	203	383	--
Isobutane	8,350	--	175	200	-8,889	--	18	2,420	--	-2,602	--
Natural Gasoline	19,746	-103	--	--	-15,639	--	54	1,854	2,396	-300	--
Refinery Olefins	--	--	523	--	--	--	-34	--	--	557	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	151	--	--	--	0	--	--	151	--
Butylene	--	--	372	--	--	--	-34	--	--	406	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	4,680	--	407	373	-6,265	-203	-1,900	99	1,199	8,665
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	4,680	--	49	3,627	4,363	4	12,691	24	0	371
Hydrogen	--	--	--	--	--	2,288	--	2,288	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	4,680	--	49	3,627	2,075	4	10,403	24	0	371
Fuel Ethanol	--	4,680	--	--	3,248	1,945	11	9,861	0	0	364
Renewable Fuels Except Fuel Ethanol	--	--	--	49	379	130	-7	542	23	0	7
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	251	-1,524	74	1,199	3,080
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	358	-3,254	-10,628	-458	-13,067	1	0	5,214
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-3,254	-10,628	-458	-13,067	1	0	5,214
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	218,594	1,142	-6,652	8,553	-1,401	--	410	222,629	7,592
Finished Motor Gasoline	--	--	103,889	--	-5,144	8,684	-338	--	8	107,758	1,900
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	103,889	--	-5,144	8,684	-338	--	8	107,758	1,900
Finished Aviation Gasoline	--	--	44	9	--	--	-4	--	--	57	5
Kerosene-Type Jet Fuel	--	--	11,962	156	7,305	--	107	--	--	19,316	707
Kerosene	--	--	2	--	--	--	0	--	--	2	1
Distillate Fuel Oil	--	--	68,614	523	-996	-130	-782	--	--	68,793	3,534
15 ppm sulfur and under	--	--	68,117	523	-732	-130	-753	--	--	68,531	3,289
Greater than 15 ppm to 500 ppm sulfur	--	--	430	--	--	--	-40	--	--	470	180
Greater than 500 ppm sulfur	--	--	67	--	-264	--	11	--	--	-208	65
Residual Fuel Oil ⁶	--	--	3,920	--	--	--	-33	--	207	3,746	191
Less than 0.31 percent sulfur	--	--	2,199	--	--	--	-15	--	NA	NA	19
0.31 to 1.00 percent sulfur	--	--	229	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	1,492	--	--	--	-18	--	NA	NA	168
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	127	-127	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	8,628	--	-3,558	--	-93	--	1	5,162	51
Marketable	--	--	5,937	--	-3,558	--	-93	--	1	2,471	51
Catalyst	--	--	2,691	--	--	--	--	--	--	2,691	--
Asphalt and Road Oil	--	--	12,341	442	-4,259	--	-260	--	65	8,719	1,184
Still Gas	--	--	7,953	--	--	--	--	--	--	7,953	--
Miscellaneous Products	--	--	1,241	12	--	--	2	--	0	1,251	19
Total	362,865	4,577	223,414	120,592	-265,363	4,634	-1,636	213,121	3,940	235,295	42,890

-- = 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 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 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, 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

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	790	--	--	350	-437	-60	60	582	1	0
Hydrocarbon Gas Liquids	433	0	0	14	-390	--	-9	23	2	41
Natural Gas Liquids	433	0	0	14	-390	--	-9	23	2	40
Ethane	147	--	--	--	--	--	2	--	--	9
Propane	145	--	9	14	-128	--	1	--	0	38
Normal Butane	56	--	-9	0	-50	--	-15	11	--	1
Isobutane	26	--	0	0	-28	--	1	7	--	-10
Natural Gasoline	60	0	--	--	-48	--	1	6	2	2
Refinery Olefins	--	--	0	--	--	--	0	--	--	0
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	1	-19	-24	1	-34	0	5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	7	16	0	36	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	7	9	0	30	0	0
Fuel Ethanol	--	14	--	--	6	9	0	29	--	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	0	0	1	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	4	-9	--	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	0	-26	-39	-3	-61	--	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-26	-39	-3	-61	--	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	604	4	8	31	13	--	1	632
Finished Motor Gasoline	--	--	287	--	0	30	5	--	--	312
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	287	--	0	30	5	--	--	312
Finished Aviation Gasoline	--	--	--	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	30	--	22	--	-2	--	--	55
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	201	3	1	0	12	--	--	194
15 ppm sulfur and under	--	--	200	3	1	0	12	--	--	193
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	1	--	--	1
Greater than 500 ppm sulfur	--	--	-1	--	--	--	-1	--	--	0
Residual Fuel Oil ⁶	--	--	10	--	--	--	0	--	1	10
Less than 0.31 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	-1	--	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	--	--	24	--	-9	--	-2	--	--	16
Marketable	--	--	17	--	-9	--	-2	--	--	9
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	28	1	-6	--	1	--	0	21
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3
Total	1,223	14	605	369	-838	-53	65	572	5	678

-- = 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 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 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, 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-November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	696	--	--	346	-424	7	-3	625	2	0
Hydrocarbon Gas Liquids	391	0	14	11	-352	--	2	19	8	34
Natural Gas Liquids	391	0	13	11	-352	--	3	19	8	33
Ethane	114	--	--	--	--	--	0	--	--	7
Propane	139	--	10	10	-124	--	1	--	0	34
Normal Butane	54	--	3	0	-47	--	1	6	1	1
Isobutane	25	--	1	1	-27	--	0	7	--	-8
Natural Gasoline	59	0	--	--	-47	--	0	6	7	-1
Refinery Olefins	--	--	2	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Butylene	--	--	1	--	--	--	0	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	1	1	-19	-1	-6	0	4
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	11	13	0	38	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	11	6	0	31	0	0
Fuel Ethanol	--	14	--	--	10	6	0	30	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	0	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	1	-5	0	4
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	-10	-32	-1	-39	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-10	-32	-1	-39	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	654	3	-20	26	-4	--	1	667
Finished Motor Gasoline	--	--	311	--	-15	26	-1	--	0	323
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	311	--	-15	26	-1	--	0	323
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	36	0	22	--	0	--	--	58
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	205	2	-3	0	-2	--	--	206
15 ppm sulfur and under	--	--	204	2	-2	0	-2	--	--	205
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	-1	--	0	--	--	-1
Residual Fuel Oil ⁶	--	--	12	--	--	--	0	--	1	11
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	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	--	--	26	--	-11	--	0	--	0	15
Marketable	--	--	18	--	-11	--	0	--	0	7
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	37	1	-13	--	-1	--	0	26
Still Gas	--	--	24	--	--	--	--	--	--	24
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,086	14	669	361	-794	14	-5	638	12	704

-- = 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 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 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, 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, November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	30,027	--	--	36,419	3,230	4,169	1,401	72,444	--	0	53,778
Hydrocarbon Gas Liquids	2,047	-14	237	1,355	1,214	--	-1,307	3,456	1,432	1,258	4,915
Natural Gas Liquids	2,047	-14	8	1,354	1,214	--	-1,211	3,456	1,432	932	4,885
Ethane	1	--	--	--	--	--	--	--	--	1	--
Propane	306	--	1,147	897	329	--	-169	--	1,060	1,788	1,986
Normal Butane	409	--	-1,150	432	660	--	-977	1,636	369	-677	2,318
Isobutane	339	--	11	25	225	--	-48	918	0	-270	549
Natural Gasoline	992	-14	--	--	--	--	-17	902	2	91	32
Refinery Olefins	--	--	229	1	--	--	-96	--	--	326	30
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	251	1	--	--	-5	--	--	257	16
Butylene	--	--	-22	--	--	--	-91	--	--	69	14
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	855	--	6,260	8,022	-1,193	2,619	10,402	859	65	53,069
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	855	--	875	3,937	1,306	416	6,384	174	0	4,361
Hydrogen	--	--	--	--	--	1,210	--	1,210	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	855	--	875	3,937	95	416	5,174	172	0	4,361
Fuel Ethanol	--	598	--	496	3,450	585	331	4,637	161	0	3,009
Renewable Fuels Except Fuel Ethanol	--	257	--	379	487	-490	85	537	11	0	1,352
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	4,913	--	--	-628	5,101	375	65	20,010
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	472	4,085	-2,499	2,831	-1,083	310	0	28,698
Reformulated	--	--	--	--	1,714	236	1,567	382	1	0	13,954
Conventional	--	--	--	472	2,371	-2,735	1,264	-1,465	309	0	14,744
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	92,127	5,597	1,467	2,180	2,005	--	13,557	85,809	33,331
Finished Motor Gasoline	--	--	47,040	44	371	1,914	-12	--	4,297	45,085	2,250
Reformulated	--	--	32,850	--	--	0	1	--	--	32,849	17
Conventional	--	--	14,190	44	371	1,915	-13	--	4,297	12,236	2,233
Finished Aviation Gasoline	--	--	--	1	--	--	-30	--	--	31	243
Kerosene-Type Jet Fuel	--	--	13,019	2,992	190	--	606	--	663	14,932	10,049
Kerosene	--	--	16	--	--	--	10	--	5	1	45
Distillate Fuel Oil	--	--	18,085	443	633	265	1,050	--	4,146	14,230	12,605
15 ppm sulfur and under	--	--	17,459	443	633	265	975	--	2,249	15,576	11,536
Greater than 15 ppm to 500 ppm sulfur	--	--	293	--	--	--	-2	--	206	89	277
Greater than 500 ppm sulfur	--	--	333	--	--	--	77	--	1,690	-1,434	792
Residual Fuel Oil ⁶	--	--	3,604	1,914	--	--	342	--	390	4,786	4,505
Less than 0.31 percent sulfur	--	--	--	--	--	--	-78	--	NA	NA	20
0.31 to 1.00 percent sulfur	--	--	556	193	--	--	-22	--	NA	NA	461
Greater than 1.00 percent sulfur	--	--	3,048	1,721	--	--	442	--	NA	NA	4,018
Petrochemical Feedstocks	--	--	2	99	--	--	-1	--	--	102	1
Naphtha for Petro. Feed. Use	--	--	2	99	--	--	-1	--	--	102	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	15	--	--	--	-43	--	--	58	16
Lubricants	--	--	801	6	--	--	166	--	347	294	967
Waxes	--	--	--	40	--	--	--	--	6	34	--
Petroleum Coke	--	--	4,637	11	50	--	-141	--	3,672	1,167	1,209
Marketable	--	--	3,573	11	50	--	-141	--	3,672	103	1,209
Catalyst	--	--	1,064	--	--	--	--	--	--	1,064	--
Asphalt and Road Oil	--	--	772	46	223	--	49	--	30	961	1,330
Still Gas	--	--	3,675	--	--	--	--	--	--	3,675	--
Miscellaneous Products	--	--	461	1	--	--	9	--	0	453	111
Total	32,074	841	92,364	49,631	13,933	5,156	4,718	86,302	15,847	87,132	145,093

-- = 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 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 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, 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

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	329,067	--	--	408,471	45,435	28,556	2,073	804,923	4,533	0	53,778
Hydrocarbon Gas Liquids	21,863	-147	20,429	11,515	9,175	--	517	28,684	14,212	19,422	4,915
Natural Gas Liquids	21,863	-147	17,438	11,514	9,175	--	509	28,684	14,212	16,438	--
Ethane	17	--	--	--	--	--	--	--	1	16	--
Propane	3,508	--	12,566	9,277	3,346	--	423	--	10,330	17,944	--
Normal Butane	3,524	--	3,526	2,102	4,035	--	12	10,253	3,774	-852	--
Isobutane	4,356	--	1,346	135	1,794	--	77	9,258	0	-1,704	--
Natural Gasoline	10,458	-147	--	--	--	--	-3	9,173	108	1,033	--
Refinery Olefins	--	--	2,991	1	--	--	8	--	--	2,984	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	2,951	1	--	--	4	--	--	2,948	--
Butylene	--	--	40	--	--	--	4	--	--	36	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	9,364	--	58,157	104,301	-12,841	3,330	147,172	6,461	2,017	53,069
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	9,364	--	7,004	51,641	7,866	310	73,494	2,070	0	4,361
Hydrogen	--	--	--	--	--	13,060	--	13,060	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	20	--	--	20	0	--
Renewable Fuels (including Fuel Ethanol)	--	9,364	--	7,004	51,641	-5,214	310	60,434	2,050	0	4,361
Fuel Ethanol	--	6,540	--	1,724	47,910	-540	536	53,267	1,831	0	3,009
Renewable Fuels Except Fuel Ethanol	--	2,824	--	5,280	3,731	-4,674	-226	7,167	219	0	1,352
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	40,850	--	--	1,438	35,645	1,750	2,017	20,010
Motor Gasoline Blend Comp. (MGBC)	--	--	--	10,303	52,660	-20,707	1,582	38,033	2,641	0	28,698
Reformulated	--	--	--	268	25,665	0	-370	26,294	9	0	13,954
Conventional	--	--	--	10,035	26,995	-20,707	1,952	11,739	2,632	0	14,744
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,024,504	55,168	21,527	24,600	637	--	114,947	1,010,216	33,331
Finished Motor Gasoline	--	--	538,252	1,196	3,500	21,247	91	--	19,098	545,006	2,250
Reformulated	--	--	377,686	--	--	-28	1	--	--	377,657	17
Conventional	--	--	160,566	1,196	3,500	21,275	90	--	19,098	167,349	2,233
Finished Aviation Gasoline	--	--	311	21	180	--	50	--	--	462	243
Kerosene-Type Jet Fuel	--	--	151,435	32,075	2,679	--	846	--	9,651	175,692	10,049
Kerosene	--	--	120	55	--	--	-2	--	36	141	45
Distillate Fuel Oil	--	--	184,126	4,330	10,714	3,354	-230	--	33,328	169,425	12,605
15 ppm sulfur and under	--	--	176,154	4,232	10,714	3,354	-314	--	20,168	174,599	11,536
Greater than 15 ppm to 500 ppm sulfur	--	--	3,313	--	--	--	10	--	2,465	838	277
Greater than 500 ppm sulfur	--	--	4,659	98	--	--	74	--	10,694	-6,011	792
Residual Fuel Oil ⁶	--	--	38,305	14,812	--	--	27	--	6,134	46,956	4,505
Less than 0.31 percent sulfur	--	--	44	--	--	--	-114	--	NA	NA	20
0.31 to 1.00 percent sulfur	--	--	6,740	1,350	--	--	-388	--	NA	NA	461
Greater than 1.00 percent sulfur	--	--	31,521	13,462	--	--	529	--	NA	NA	4,018
Petrochemical Feedstocks	--	--	31	442	--	--	0	--	--	473	1
Naphtha for Petro. Feed. Use	--	--	31	410	--	--	0	--	--	441	1
Other Oils for Petro. Feed. Use	--	--	--	32	--	--	--	--	--	32	--
Special Naphthas	--	--	285	45	--	--	-13	--	--	343	16
Lubricants	--	--	6,812	529	-495	--	369	--	3,130	3,347	967
Waxes	--	--	--	373	--	--	--	--	66	307	--
Petroleum Coke	--	--	50,665	296	599	--	-4	--	43,176	8,389	1,209
Marketable	--	--	39,163	296	599	--	-4	--	43,176	-3,113	1,209
Catalyst	--	--	11,502	--	--	--	--	--	--	11,502	--
Asphalt and Road Oil	--	--	8,646	991	4,350	--	-531	--	326	14,191	1,330
Still Gas	--	--	40,879	--	--	--	--	--	--	40,879	--
Miscellaneous Products	--	--	4,637	3	--	--	34	--	3	4,603	111
Total	350,930	9,217	1,044,933	533,311	180,437	40,315	6,557	980,779	140,152	1,031,655	145,093

-- = 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 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 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, 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

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,001	--	--	1,214	108	139	47	2,415	--	0
Hydrocarbon Gas Liquids	68	0	8	45	40	--	-44	115	48	42
Natural Gas Liquids	68	0	0	45	40	--	-40	115	48	31
Ethane	0	--	--	--	--	--	--	--	--	0
Propane	10	--	38	30	11	--	-6	--	35	60
Normal Butane	14	--	-38	14	22	--	-33	55	12	-23
Isobutane	11	--	0	1	8	--	-2	31	0	-9
Natural Gasoline	33	0	--	--	--	--	-1	30	0	3
Refinery Olefins	--	--	8	0	--	--	-3	--	--	11
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	8	0	--	--	0	--	--	9
Butylene	--	--	-1	--	--	--	-3	--	--	2
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	29	--	209	267	-40	87	347	29	2
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	29	--	29	131	44	14	213	6	0
Hydrogen	--	--	--	--	--	40	--	40	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	29	--	29	131	3	14	172	6	0
Fuel Ethanol	--	20	--	17	115	20	11	155	5	0
Renewable Fuels Except Fuel Ethanol	--	9	--	13	16	-16	3	18	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	164	--	--	-21	170	13	2
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	16	136	-83	94	-36	10	0
Reformulated	--	--	--	--	57	8	52	13	0	0
Conventional	--	--	--	16	79	-91	42	-49	10	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,071	187	49	73	67	--	452	2,860
Finished Motor Gasoline	--	--	1,568	1	12	64	0	--	143	1,503
Reformulated	--	--	1,095	--	--	0	0	--	--	1,095
Conventional	--	--	473	1	12	64	0	--	143	408
Finished Aviation Gasoline	--	--	--	0	--	--	-1	--	--	1
Kerosene-Type Jet Fuel	--	--	434	100	6	--	20	--	22	498
Kerosene	--	--	1	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	603	15	21	9	35	--	138	474
15 ppm sulfur and under	--	--	582	15	21	9	33	--	75	519
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	0	--	7	3
Greater than 500 ppm sulfur	--	--	11	--	--	--	3	--	56	-48
Residual Fuel Oil ⁶	--	--	120	64	--	--	11	--	13	160
Less than 0.31 percent sulfur	--	--	--	--	--	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	19	6	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	102	57	--	--	15	--	NA	NA
Petrochemical Feedstocks	--	--	0	3	--	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	0	3	--	--	0	--	--	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	-1	--	--	2
Lubricants	--	--	27	0	--	--	6	--	12	10
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	155	0	2	--	-5	--	122	39
Marketable	--	--	119	0	2	--	-5	--	122	3
Catalyst	--	--	35	--	--	--	--	--	--	35
Asphalt and Road Oil	--	--	26	2	7	--	2	--	1	32
Still Gas	--	--	123	--	--	--	--	--	--	123
Miscellaneous Products	--	--	15	0	--	--	0	--	0	15
Total	1,069	28	3,079	1,654	464	172	157	2,877	528	2,904

-- = 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 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 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, 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-November 2017
(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	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	985	--	--	1,223	136	85	6	2,410	14	0
Hydrocarbon Gas Liquids	65	0	61	34	27	--	2	86	43	58
Natural Gas Liquids	65	0	52	34	27	--	2	86	43	49
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	11	--	38	28	10	--	1	--	31	54
Normal Butane	11	--	11	6	12	--	0	31	11	-3
Isobutane	13	--	4	0	5	--	0	28	0	-5
Natural Gasoline	31	0	--	--	--	--	0	27	0	3
Refinery Olefins	--	--	9	0	--	--	0	--	--	9
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9	0	--	--	0	--	--	9
Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	28	--	174	312	-38	10	441	19	6
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	28	--	21	155	24	1	220	6	0
Hydrogen	--	--	--	--	--	39	--	39	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	28	--	21	155	-16	1	181	6	0
Fuel Ethanol	--	20	--	5	143	-2	2	159	5	0
Renewable Fuels Except Fuel Ethanol	--	8	--	16	11	-14	-1	21	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	122	--	--	4	107	5	6
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	31	158	-62	5	114	8	0
Reformulated	--	--	--	1	77	0	-1	79	0	0
Conventional	--	--	--	30	81	-62	6	35	8	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,067	165	64	74	2	--	344	3,025
Finished Motor Gasoline	--	--	1,612	4	10	64	0	--	57	1,632
Reformulated	--	--	1,131	--	--	0	0	--	--	1,131
Conventional	--	--	481	4	10	64	0	--	57	501
Finished Aviation Gasoline	--	--	1	0	1	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	453	96	8	--	3	--	29	526
Kerosene	--	--	0	0	--	--	0	--	0	0
Distillate Fuel Oil	--	--	551	13	32	10	-1	--	100	507
15 ppm sulfur and under	--	--	527	13	32	10	-1	--	60	523
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	0	--	7	3
Greater than 500 ppm sulfur	--	--	14	0	--	--	0	--	32	-18
Residual Fuel Oil ⁶	--	--	115	44	--	--	0	--	18	141
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	20	4	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	94	40	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	20	2	-1	--	1	--	9	10
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	152	1	2	--	0	--	129	25
Marketable	--	--	117	1	2	--	0	--	129	-9
Catalyst	--	--	34	--	--	--	--	--	--	34
Asphalt and Road Oil	--	--	26	3	13	--	-2	--	1	42
Still Gas	--	--	122	--	--	--	--	--	--	122
Miscellaneous Products	--	--	14	0	--	--	0	--	0	14
Total	1,051	28	3,129	1,597	540	121	20	2,936	420	3,089

-- = 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 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 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, 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, November 2017
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,741	56,680	188,992	23,698	30,027	301,138	10,038
Alaskan	--	--	--	--	--	15,297	510
Lower 48 States	--	--	--	--	--	285,841	9,528
Imports (PAD District of Entry)	28,323	75,876	77,582	10,503	36,419	228,703	7,623
Commercial	28,323	75,876	77,582	10,503	36,419	228,703	7,623
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	3,871	-16,276	22,285	-13,110	3,230	--	--
Adjustments ¹	136	-10,181	14,629	-1,794	4,169	6,959	232
Disposition							
Stock Change ²	-724	-11,134	-5,741	1,792	1,401	-14,406	-480
Commercial	--	--	1,932	--	--	-6,733	-224
SPR	--	--	-7,673	--	--	-7,673	-256
Refinery Inputs	34,795	112,056	268,418	17,471	72,444	505,184	16,839
Exports	0	5,177	40,811	34	--	46,022	1,534
Ending Stocks							
Total	13,016	142,621	881,715	22,477	53,778	1,113,607	--
Commercial	13,016	142,621	220,437	22,477	53,778	452,329	--
Refinery	11,060	13,007	47,873	2,518	24,633	99,091	--
Tank Farms and Pipelines	1,956	129,614	172,564	19,959	24,526	348,619	--
Cushing, Oklahoma	--	55,715	--	--	--	55,715	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	4,619	4,619	--
SPR	--	--	661,278	--	--	661,278	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	59.4	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	34.4	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	252	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	28,323	75,876	77,582	10,503	36,419	228,703	7,623
PAD District of Processing	29,863	68,788	85,280	7,572	37,200	228,703	7,623

-- = 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, 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, November 2017
(Thousand Barrels)

PAD District and State	November 2017		January-November 2017	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,741	58	16,350	49
Florida	148	5	1,760	5
New York	18	1	202	1
Pennsylvania	608	20	5,888	18
Virginia	0	0	4	0
West Virginia	967	32	8,496	25
PAD District 2	56,680	1,889	572,720	1,715
Illinois	701	23	7,613	23
Indiana	146	5	1,636	5
Kansas	2,919	97	32,725	98
Kentucky	192	6	2,290	7
Michigan	444	15	4,966	15
Missouri	8	0	102	0
Nebraska	180	6	2,118	6
North Dakota	35,327	1,178	352,467	1,055
Ohio	1,722	57	17,312	52
Oklahoma	14,914	497	150,050	449
South Dakota	103	3	1,199	4
Tennessee	24	1	244	1
PAD District 3	188,992	6,300	1,942,024	5,814
Alabama	528	18	6,216	19
Arkansas	430	14	4,733	14
Louisiana	4,009	134	46,004	138
Mississippi	1,476	49	16,680	50
New Mexico	15,847	528	155,451	465
Texas	116,716	3,891	1,159,465	3,471
Federal Offshore PAD District 3	49,985	1,666	553,475	1,657
PAD District 4	23,698	790	232,370	696
Colorado	12,481	416	114,818	344
Idaho	4	0	87	0
Montana	1,642	55	18,699	56
Utah	2,769	92	30,159	90
Wyoming	6,801	227	68,607	205
PAD District 5	30,027	1,001	329,067	985
Alaska	15,297	510	164,584	493
South Alaska	489	16	4,783	14
North Slope	14,808	494	159,801	478
Arizona	2	0	13	0
California	14,232	474	158,948	476
Nevada	24	1	264	1
Federal Offshore PAD District 5	472	16	5,257	16
U.S. Total	301,138	10,038	3,092,531	9,259

– = 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, 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, November 2017
(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	11	14,138	14,149	5,872	7,121	15,035	28,028
Natural Gas Liquids	11	14,138	14,149	5,872	7,121	15,035	28,028
Ethane	-	6,000	6,000	2,086	1,810	6,158	10,054
Propane	3	4,702	4,705	2,387	2,828	4,790	10,005
Normal Butane	8	1,393	1,401	592	1,188	1,677	3,457
Isobutane	-	704	704	397	281	782	1,460
Natural Gasoline	-	1,339	1,339	410	1,014	1,628	3,052

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	46,569	6,109	5,609	958	5,150	64,395	12,986	2,047	121,605
Natural Gas Liquids	46,569	6,109	5,609	958	5,150	64,395	12,986	2,047	121,605
Ethane	19,737	3,134	2,341	383	2,041	27,636	4,396	1	48,087
Propane	14,331	1,582	1,754	218	1,653	19,538	4,342	306	38,896
Normal Butane	4,862	-2,654	597	87	504	3,396	1,690	409	10,353
Isobutane	2,806	3,535	355	78	361	7,135	771	339	10,409
Natural Gasoline	4,833	512	562	192	591	6,690	1,787	992	13,860

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	6	228	234	1,044	121	181	1,346
Natural Gas Liquids	6	228	234	1,044	121	181	1,346
Ethane	-	-	-	86	1	67	154
Propane	2	109	111	586	54	11	651
Normal Butane	4	41	45	174	22	5	201
Isobutane	-	14	14	157	5	46	208
Natural Gasoline	-	64	64	41	39	52	132

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	191	3,294	701	22	-	4,208	145	354	6,287
Natural Gas Liquids	191	3,294	701	22	-	4,208	145	354	6,287
Ethane	28	1,437	-	-	-	1,465	3	-	1,622
Propane	63	1,292	30	15	-	1,400	58	70	2,290
Normal Butane	54	411	508	4	-	977	28	231	1,482
Isobutane	24	135	56	-	-	215	11	28	476
Natural Gasoline	22	19	107	3	-	151	45	25	417

- = 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, November 2017
(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	31,955	2,840	34,795	69,688	16,162	26,206	112,056
Hydrocarbon Gas Liquids	1,862	10	1,872	2,143	107	1,602	3,852
Natural Gas Liquids	1,862	10	1,872	2,143	107	1,602	3,852
Normal Butane	1,195	10	1,205	888	52	487	1,427
Isobutane	407	-	407	862	44	476	1,382
Natural Gasoline	260	-	260	393	11	639	1,043
Other Liquids	72,965	6,212	79,177	10,392	2,348	1,782	14,522
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	9,701	786	10,487	5,821	1,500	1,816	9,137
Hydrogen	95	2	97	699	298	199	1,196
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,606	784	10,390	5,106	1,202	1,617	7,925
Fuel Ethanol	9,334	708	10,042	4,807	1,136	1,556	7,499
Renewable Diesel Fuel	272	76	348	299	66	61	426
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	16	-	-	16
Unfinished Oils (net)	2,347	-86	2,261	-199	-161	71	-289
Naphthas and Lighter	758	-36	722	162	-167	203	198
Kerosene and Light Gas Oils	-101	-	-101	-295	-30	59	-266
Heavy Gas Oils	1,329	-53	1,276	-35	36	-216	-215
Residuum	361	3	364	-31	-	25	-6
Motor Gasoline Blend.Comp. (MGBC)(net)	60,917	5,512	66,429	4,770	1,009	-105	5,674
Reformulated - RBOB	14,917	101	15,018	-1,088	983	890	785
Conventional	46,000	5,411	51,411	5,858	26	-995	4,889
CBOB	40,029	5,408	45,437	6,029	36	-967	5,098
GTAB	1,913	-	1,913	-	-	-	-
Other	4,058	3	4,061	-171	-10	-28	-209
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	106,782	9,062	115,844	82,223	18,617	29,590	130,430

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2017
(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	17,184	139,617	100,505	7,028	4,084	268,418	17,471	72,444	505,184
Hydrocarbon Gas Liquids	598	5,697	5,475	61	173	12,004	703	3,456	21,887
Natural Gas Liquids	598	5,697	5,475	61	173	12,004	703	3,456	21,887
Normal Butane	348	2,075	2,660	29	7	5,119	317	1,636	9,704
Isobutane	73	1,482	1,579	30	166	3,330	216	918	6,253
Natural Gasoline	177	2,140	1,236	2	-	3,555	170	902	5,930
Other Liquids	10,049	-39,380	-25,569	7,164	-489	-48,225	-1,026	10,402	54,850
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,051	3,450	2,306	1,149	231	9,187	1,092	6,384	36,287
Hydrogen	13	2,491	1,767	77	45	4,393	202	1,210	7,098
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	2,038	959	539	1,072	186	4,794	890	5,174	29,173
Fuel Ethanol	1,954	852	443	992	155	4,396	859	4,637	27,433
Renewable Diesel Fuel	84	107	96	80	31	398	31	532	1,735
Other Renewable Fuels	-	-	-	-	-	-	-	5	5
Other Hydrocarbons	-	-	-	-	-	-	-	-	16
Unfinished Oils (net)	-394	-1,417	9,480	-91	-127	7,451	-275	5,101	14,249
Naphthas and Lighter	199	-6,382	-1,917	-9	-19	-8,128	-67	-342	-7,617
Kerosene and Light Gas Oils	-280	-2,050	1,299	-25	-37	-1,093	-279	160	-1,579
Heavy Gas Oils	-311	6,574	8,660	-2	-71	14,850	51	5,087	21,049
Residuum	-2	441	1,438	-55	-	1,822	20	196	2,396
Motor Gasoline Blend.Comp. (MGBC)(net)	8,395	-41,413	-37,355	6,106	-593	-64,860	-1,843	-1,083	4,317
Reformulated - RBOB	6,173	-10,399	-2,674	-	-824	-7,724	-	382	8,461
Conventional	2,222	-31,014	-34,681	6,106	231	-57,136	-1,843	-1,465	-4,144
CBOB	2,279	-32,521	-34,651	6,113	120	-58,660	-1,934	229	-9,830
GTAB	-	-	-	-	-	-	-	-	1,913
Other	-57	1,507	-30	-7	111	1,524	91	-1,694	3,773
Aviation Gasoline Blend. Comp. (net)	-3	-	-	-	-	-3	-	-	-3
Total Input	27,831	105,934	80,411	14,253	3,768	232,197	17,148	86,302	581,921

- = 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).

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, November 2017
(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	553	-22	531	433	-370	-257	-194
Natural Gas Liquids	153	-22	131	-589	-579	-416	-1,584
Ethane	-	-	-	-	-	-	-
Propane	766	24	790	1,396	255	420	2,071
Normal Butane	-610	-25	-635	-1,883	-759	-756	-3,398
Isobutane	-3	-21	-24	-102	-75	-80	-257
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	400	-	400	1,022	209	159	1,390
Ethylene	16	-	16	-	-	-	-
Propylene	418	-	418	1,008	209	158	1,375
Butylene	-82	-	-82	14	-	1	15
Isobutylene	48	-	48	-	-	-	-
Finished Motor Gasoline	89,699	7,296	96,995	51,238	10,908	16,522	78,668
Reformulated	39,587	112	39,699	8,304	1,542	1,212	11,058
Reformulated Blended with Fuel Ethanol	39,587	112	39,699	8,304	1,542	1,212	11,058
Reformulated Other	-	-	-	-	-	-	-
Conventional	50,112	7,184	57,296	42,934	9,366	15,310	67,610
Conventional Blended with Fuel Ethanol	53,415	6,971	60,386	39,258	9,688	13,956	62,902
Ed55 and Lower	53,377	6,971	60,348	39,249	9,664	13,888	62,801
Greater than Ed55	38	-	38	9	24	68	101
Conventional Other	-3,303	213	-3,090	3,676	-322	1,354	4,708
Finished Aviation Gasoline	-	-	-	-	66	-	66
Kerosene-Type Jet Fuel	3,149	-	3,149	5,755	715	877	7,347
Kerosene	236	-	236	169	-	13	182
Distillate Fuel Oil	10,292	831	11,123	18,274	5,480	10,594	34,348
15 ppm sulfur and under	9,515	739	10,254	18,301	5,425	10,607	34,333
Greater than 15 ppm to 500 ppm sulfur	-262	74	-188	-60	83	138	161
Greater than 500 ppm sulfur	1,039	18	1,057	33	-28	-151	-146
Residual Fuel Oil	1,166	5	1,171	1,111	249	101	1,461
Less than 0.31 percent sulfur	77	5	82	67	-	-	67
0.31 to 1.00 percent sulfur	368	-	368	119	94	-	213
Greater than 1.00 percent sulfur	721	-	721	925	155	101	1,181
Petrochemical Feedstocks	117	-	117	915	-	-	915
Naphtha for Petro. Feed. Use	117	-	117	641	-	-	641
Other Oils for Petro. Feed. Use	-	-	-	274	-	-	274
Special Naphthas	-	25	25	37	-	16	53
Lubricants	182	194	376	-	-	296	296
Waxes	-	-7	-7	-	-	42	42
Petroleum Coke	1,162	19	1,181	3,704	916	917	5,537
Marketable	448	-	448	2,651	734	731	4,116
Catalyst	714	19	733	1,053	182	186	1,421
Asphalt and Road Oil	508	632	1,140	2,124	1,084	409	3,617
Still Gas	1,230	54	1,284	2,512	626	1,117	4,255
Miscellaneous Products	73	33	106	289	120	59	468
Total	108,367	9,060	117,427	86,561	19,794	30,706	137,061
Processing Gain(-) or Loss(+) ¹	-1,585	2	-1,583	-4,338	-1,177	-1,116	-6,631

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2017
(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	181	4,842	4,876	-17	-12	9,870	10	237	10,454
Natural Gas Liquids	-101	1,622	1,824	-64	-12	3,269	5	8	1,829
Ethane	1	193	8	-	-	202	-	-	202
Propane	280	2,556	2,274	16	48	5,174	259	1,147	9,441
Normal Butane	-272	-674	-585	-80	-60	-1,671	-257	-1,150	-7,111
Isobutane	-110	-453	127	-	-	-436	3	11	-703
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	282	3,220	3,052	47	-	6,601	5	229	8,625
Ethylene	-	8	-	-	-	8	-	-	24
Propylene	282	3,510	3,153	47	-	6,992	0	251	9,036
Butylene	-	-276	-101	-	-	-377	5	-22	-461
Isobutylene	-	-22	-	-	-	-22	-	-	26
Finished Motor Gasoline	20,247	26,517	16,782	9,253	1,875	74,674	8,607	47,040	305,984
Reformulated	7,388	6,707	-	-	-	14,095	-	32,850	97,702
Reformulated Blended with Fuel Ethanol	7,388	6,707	-	-	-	14,095	-	32,850	97,702
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	12,859	19,810	16,782	9,253	1,875	60,579	8,607	14,190	208,282
Conventional Blended with Fuel Ethanol	11,881	1,662	4,382	9,844	1,602	29,371	8,581	13,362	174,602
Ed55 and Lower	11,867	1,662	4,382	9,836	1,602	29,349	8,566	13,358	174,422
Greater than Ed55	14	-	-	8	-	22	15	4	180
Conventional Other	978	18,148	12,400	-591	273	31,208	26	828	33,680
Finished Aviation Gasoline	46	102	99	-	-	247	-	-	313
Kerosene-Type Jet Fuel	1,271	12,598	11,655	196	-	25,720	913	13,019	50,148
Kerosene	-3	-	21	22	-	40	-	16	474
Distillate Fuel Oil	4,780	46,602	35,573	2,478	1,709	91,142	6,040	18,085	160,738
15 ppm sulfur and under	4,802	44,735	28,847	2,416	1,709	82,509	6,006	17,459	150,561
Greater than 15 ppm to 500 ppm sulfur	-22	296	3,110	22	-	3,406	54	293	3,726
Greater than 500 ppm sulfur	-	1,571	3,616	40	-	5,227	-20	333	6,451
Residual Fuel Oil	290	2,059	3,514	-120	70	5,813	300	3,604	12,349
Less than 0.31 percent sulfur	164	15	797	-	-	976	155	-	1,280
0.31 to 1.00 percent sulfur	-	183	311	-120	20	394	20	556	1,551
Greater than 1.00 percent sulfur	126	1,861	2,406	-	50	4,443	125	3,048	9,518
Petrochemical Feedstocks	64	5,295	2,236	-	-	7,595	-	2	8,629
Naphtha for Petro. Feed. Use	69	3,570	1,312	-	-	4,951	-	2	5,711
Other Oils for Petro. Feed. Use	-5	1,725	924	-	-	2,644	-	-	2,918
Special Naphthas	76	961	-	248	-	1,285	-	15	1,378
Lubricants	24	1,907	1,836	926	-	4,693	-	801	6,166
Waxes	-	57	41	21	-	119	-	-	154
Petroleum Coke	413	8,519	6,095	152	31	15,210	721	4,637	27,286
Marketable	222	6,539	4,711	137	-	11,609	519	3,573	20,265
Catalyst	191	1,980	1,384	15	31	3,601	202	1,064	7,021
Asphalt and Road Oil	176	377	907	788	49	2,297	825	772	8,651
Still Gas	701	5,757	4,048	179	78	10,763	636	3,675	20,613
Miscellaneous Products	117	1,051	591	42	40	1,841	86	461	2,962
Total	28,383	116,644	88,274	14,168	3,840	251,309	18,138	92,364	616,299
Processing Gain(-) or Loss(+) ¹	-552	-10,710	-7,863	85	-72	-19,112	-990	-6,062	-34,378

- = 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, November 2017
(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	31,955	2,840	34,795	69,688	16,162	26,206	112,056
Hydrocarbon Gas Liquids	777	-	777	1,969	44	1,116	3,129
Natural Gas Liquids	777	-	777	1,969	44	1,116	3,129
Normal Butane	370	-	370	714	-	85	799
Isobutane	407	-	407	862	44	476	1,382
Natural Gasoline	-	-	-	393	-	555	948
Other Liquids	-14,629	55	-14,574	-34,049	-6,593	-11,710	-52,352
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	169	120	289	981	473	298	1,752
Hydrogen	95	2	97	699	298	199	1,196
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	74	118	192	266	175	99	540
Fuel Ethanol	74	95	169	154	156	93	403
Renewable Diesel Fuel	-	23	23	112	19	6	137
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	16	-	-	16
Unfinished Oils (net)	2,346	-86	2,260	-201	-161	71	-291
Naphthas and Lighter	758	-36	722	162	-167	203	198
Kerosene and Light Gas Oils	-101	-	-101	-295	-30	59	-266
Heavy Gas Oils	1,328	-53	1,275	-35	36	-216	-215
Residuum	361	3	364	-33	-	25	-8
Motor Gasoline Blend.Comp. (MGBC)(net)	-17,144	21	-17,123	-34,829	-6,905	-12,079	-53,813
Reformulated - RBOB	-10,763	-	-10,763	-8,364	-404	-194	-8,962
Conventional	-6,381	21	-6,360	-26,465	-6,501	-11,885	-44,851
CBOB	-5,753	18	-5,735	-26,291	-6,491	-11,857	-44,639
GTAB	-	-	-	-	-	-	-
Other	-628	3	-625	-174	-10	-28	-212
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	18,103	2,895	20,998	37,608	9,613	15,612	62,833
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	1,065	95	1,160	2,314	538	874	3,727
Operable Capacity (daily average)	1,083	98	1,182	2,607	520	886	4,013
Operable Utilization Rate (percent) ²	98.3	97.0	98.2	88.8	103.5	98.6	92.9
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	194	16	210	420	75	165	661
Catalytic Cracking	422	16	438	723	153	207	1,083
Catalytic Hydrocracking	40	-	40	189	57	69	314
Delayed and Fluid Coking	54	-	54	325	72	93	490
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.76	1.72	0.84	1.54	1.80	0.77	1.39
API Gravity, Weighted Average (degrees)	33.28	31.72	33.16	32.33	28.30	37.38	32.89
Operable Capacity (daily average)	1,083	98	1,182	2,607	520	886	4,013
Operating	1,083	98	1,182	2,585	520	886	3,991
Idle	-	-	-	22	-	-	22
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, November 2017
(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	17,184	139,617	100,505	7,028	4,084	268,418	17,471	72,444	505,184
Hydrocarbon Gas Liquids	535	4,629	5,270	32	173	10,639	592	3,413	18,550
Natural Gas Liquids	535	4,629	5,270	32	173	10,639	592	3,413	18,550
Normal Butane	299	1,622	2,455	—	7	4,383	253	1,593	7,398
Isobutane	73	1,482	1,579	30	166	3,330	212	918	6,249
Natural Gasoline	163	1,525	1,236	2	—	2,926	127	902	4,903
Other Liquids	-6,964	-51,575	-28,176	-1,678	-1,547	-89,940	-4,846	-33,636	-195,348
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	258	2,553	2,026	132	112	5,081	489	1,425	9,036
Hydrogen	13	2,491	1,767	77	45	4,393	202	1,210	7,098
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	245	62	259	55	67	688	287	215	1,922
Fuel Ethanol	203	45	163	27	54	492	268	86	1,418
Renewable Diesel Fuel	42	17	96	28	13	196	19	129	504
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	16
Unfinished Oils (net)	-394	-1,417	9,445	-91	-127	7,416	-275	5,101	14,211
Naphthas and Lighter	199	-6,382	-1,917	-9	-19	-8,128	-67	-342	-7,617
Kerosene and Light Gas Oils	-280	-2,050	1,263	-25	-37	-1,129	-279	160	-1,615
Heavy Gas Oils	-311	6,574	8,661	-2	-71	14,851	51	5,087	21,049
Residium	-2	441	1,438	-55	—	1,822	20	196	2,394
Motor Gasoline Blend.Comp. (MGBC)(net)	-6,825	-52,711	-39,647	-1,719	-1,532	-102,434	-5,060	-40,162	-218,592
Reformulated - RBOB	-485	-15,528	-2,674	—	-824	-19,511	—	-28,543	-67,779
Conventional	-6,340	-37,183	-36,973	-1,719	-708	-82,923	-5,060	-11,619	-150,813
CBOB	-6,283	-31,784	-36,089	-1,672	-819	-76,647	-5,148	-9,856	-142,025
GTAB	—	—	—	—	—	—	—	—	—
Other	-57	-5,399	-884	-47	111	-6,276	88	-1,763	-8,788
Aviation Gasoline Blend. Comp. (net)	-3	—	—	—	—	-3	—	—	-3
Total Input to Refineries	10,755	92,671	77,599	5,382	2,710	189,117	13,217	42,221	328,386
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	574	4,674	3,483	211	136	9,078	582	2,569	17,116
Operable Capacity (daily average)	731	4,967	3,699	256	124	9,777	693	2,848	18,512
Operable Utilization Rate (percent) ²	78.5	94.1	94.1	82.3	110.2	92.9	83.9	90.2	92.5
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	124	712	533	35	28	1,433	88	395	2,787
Catalytic Cracking	136	1,364	1,115	18	33	2,666	153	774	5,114
Catalytic Hydrocracking	47	579	496	16	18	1,156	19	518	2,047
Delayed and Fluid Coking	29	779	533	26	—	1,367	59	454	2,425
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.71	1.59	1.47	1.71	0.69	1.48	1.22	1.41	1.40
API Gravity, Weighted Average (degrees)	38.49	31.86	30.62	31.01	40.05	31.94	33.72	28.05	31.70
Operable Capacity (daily average)	731	4,967	3,699	256	124	9,777	693	2,848	18,512
Operating	675	4,967	3,699	256	124	9,721	622	2,848	18,363
Idle	56	—	—	—	—	56	71	—	149
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	14,433	14,433

— = 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 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, November 2017
(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	553	-22	531	433	-370	-257	-194
Natural Gas Liquids	153	-22	131	-589	-579	-416	-1,584
Ethane	-	-	-	-	-	-	-
Propane	766	24	790	1,396	255	420	2,071
Normal Butane	-610	-25	-635	-1,883	-759	-756	-3,398
Isobutane	-3	-21	-24	-102	-75	-80	-257
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	400	-	400	1,022	209	159	1,390
Ethylene	16	-	16	-	-	-	-
Propylene	418	-	418	1,008	209	158	1,375
Butylene	-82	-	-82	14	-	1	15
Isobutylene	48	-	48	-	-	-	-
Finished Motor Gasoline	738	1,181	1,919	6,810	1,950	2,596	11,356
Reformulated	738	-	738	-	-	-	-
Reformulated Blended with Fuel Ethanol	738	-	738	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,181	1,181	6,810	1,950	2,596	11,356
Conventional Blended with Fuel Ethanol	-	954	954	1,560	1,543	940	4,043
Ed55 and Lower	-	954	954	1,560	1,543	940	4,043
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	227	227	5,250	407	1,656	7,313
Finished Aviation Gasoline	-	-	-	-	66	-	66
Kerosene-Type Jet Fuel	3,155	-	3,155	5,755	715	877	7,347
Kerosene	225	-	225	169	-	13	182
Distillate Fuel Oil	10,594	778	11,372	18,088	5,434	10,540	34,062
15 ppm sulfur and under	9,667	686	10,353	18,115	5,379	10,553	34,047
Greater than 15 ppm to 500 ppm sulfur	5	74	79	-60	83	23	46
Greater than 500 ppm sulfur	922	18	940	33	-28	-36	-31
Residual Fuel Oil	1,159	5	1,164	1,111	249	101	1,461
Less than 0.31 percent sulfur	76	5	81	67	-	-	67
0.31 to 1.00 percent sulfur	367	-	367	119	94	-	213
Greater than 1.00 percent sulfur	716	-	716	925	155	101	1,181
Petrochemical Feedstocks	117	-	117	915	-	-	915
Naphtha for Petro. Feed. Use	117	-	117	641	-	-	641
Other Oils for Petro. Feed. Use	-	-	-	274	-	-	274
Special Naphthas	-	25	25	37	-	16	53
Lubricants	182	194	376	-	-	296	296
Waxes	-	-7	-7	-	-	42	42
Petroleum Coke	1,162	19	1,181	3,704	916	917	5,537
Marketable	448	-	448	2,651	734	731	4,116
Catalyst	714	19	733	1,053	182	186	1,421
Asphalt and Road Oil	507	632	1,139	2,122	1,084	409	3,615
Still Gas	1,230	54	1,284	2,512	626	1,117	4,255
Miscellaneous Products	73	33	106	289	120	59	468
Total	19,695	2,892	22,587	41,945	10,790	16,726	69,461
Processing Gain(-) or Loss(+) ¹	-1,592	3	-1,589	-4,337	-1,177	-1,114	-6,628

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, November 2017
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						Total	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					
Hydrocarbon Gas Liquids	181	4,842	4,876	-17	-12	9,870	10	237	10,454	
Natural Gas Liquids	-101	1,622	1,824	-64	-12	3,269	5	8	1,829	
Ethane	1	193	8	-	-	202	-	-	202	
Propane	280	2,556	2,274	16	48	5,174	259	1,147	9,441	
Normal Butane	-272	-674	-585	-80	-60	-1,671	-257	-1,150	-7,111	
Isobutane	-110	-453	127	-	-	-436	3	11	-703	
Natural Gasoline	-	-	-	-	-	-	-	-	-	
Refinery Olefins	282	3,220	3,052	47	-	6,601	5	229	8,625	
Ethylene	-	8	-	-	-	8	-	-	24	
Propylene	282	3,510	3,153	47	-	6,992	0	251	9,036	
Butylene	-	-276	-101	-	-	-377	5	-22	-461	
Isobutylene	-	-22	-	-	-	-22	-	-	26	
Finished Motor Gasoline	3,213	13,343	14,004	436	837	31,833	4,689	3,362	53,159	
Reformulated	-	-	-	-	-	-	-	-	605	
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	605	
Reformulated Other	-	-	-	-	-	-	-	-	-	
Conventional	3,213	13,343	14,004	436	837	31,833	4,689	2,757	51,816	
Conventional Blended with Fuel Ethanol	2,007	448	1,609	287	535	4,886	2,740	302	12,925	
Ed55 and Lower	2,002	448	1,609	287	535	4,881	2,740	302	12,920	
Greater than Ed55	5	-	-	-	-	5	-	-	5	
Conventional Other	1,206	12,895	12,395	149	302	26,947	1,949	2,455	38,891	
Finished Aviation Gasoline	46	102	99	-	-	247	-	-	313	
Kerosene-Type Jet Fuel	1,271	12,598	11,649	196	-	25,714	876	13,041	50,133	
Kerosene	-3	-	19	22	-	38	-	0	445	
Distillate Fuel Oil	4,737	46,512	35,581	2,426	1,690	90,946	6,065	17,672	160,117	
15 ppm sulfur and under	4,759	44,649	28,855	2,364	1,690	82,317	6,031	17,063	149,811	
Greater than 15 ppm to 500 ppm sulfur	-22	296	3,110	22	-	3,406	54	293	3,878	
Greater than 500 ppm sulfur	-	1,567	3,616	40	-	5,223	-20	316	6,428	
Residual Fuel Oil	290	2,059	3,472	-120	70	5,771	300	3,604	12,300	
Less than 0.31 percent sulfur	164	15	797	-	-	976	155	-	1,279	
0.31 to 1.00 percent sulfur	-	125	311	-120	20	336	20	556	1,492	
Greater than 1.00 percent sulfur	126	1,919	2,364	-	50	4,459	125	3,048	9,529	
Petrochemical Feedstocks	64	5,295	2,236	-	-	7,595	-	2	8,629	
Naphtha for Petro. Feed. Use	69	3,570	1,312	-	-	4,951	-	2	5,711	
Other Oils for Petro. Feed. Use	-5	1,725	924	-	-	2,644	-	-	2,918	
Special Naphthas	76	961	-	248	-	1,285	-	15	1,378	
Lubricants	24	1,907	1,836	926	-	4,693	-	801	6,166	
Waxes	-	57	41	21	-	119	-	-	154	
Petroleum Coke	413	8,519	6,095	152	31	15,210	721	4,637	27,286	
Marketable	222	6,539	4,711	137	-	11,609	519	3,573	20,265	
Catalyst	191	1,980	1,384	15	31	3,601	202	1,064	7,021	
Asphalt and Road Oil	176	377	914	788	49	2,304	825	772	8,655	
Still Gas	701	5,757	4,048	179	78	10,763	636	3,675	20,613	
Miscellaneous Products	117	1,051	591	42	40	1,841	86	461	2,962	
Total	11,306	103,380	85,461	5,299	2,783	208,229	14,208	48,279	362,764	
Processing Gain(-) or Loss(+) ¹	-551	-10,709	-7,862	83	-73	-19,112	-991	-6,058	-34,378	

- = 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, November 2017
(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	1,085	10	1,095	174	63	486	723
Natural Gas Liquids	1,085	10	1,095	174	63	486	723
Normal Butane	825	10	835	174	52	402	628
Isobutane	-	-	-	-	-	-	-
Natural Gasoline	260	-	260	-	11	84	95
Other Liquids	87,594	6,157	93,751	44,441	8,941	13,492	66,874
Oxygenates/Renewables	9,532	666	10,198	4,840	1,027	1,518	7,385
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,532	666	10,198	4,840	1,027	1,518	7,385
Fuel Ethanol	9,260	613	9,873	4,653	980	1,463	7,096
Renewable Diesel Fuel	272	53	325	187	47	55	289
Other Renewable Fuels	-	-	-	-	-	-	-
Unfinished Oils (net)	1	-	1	2	-	-	2
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-
Heavy Gas Oils	1	-	1	-	-	-	-
Residuum	-	-	-	2	-	-	2
Motor Gasoline Blend.Comp. (MGBC)(net)	78,061	5,491	83,552	39,599	7,914	11,974	59,487
Reformulated - RBOB	25,680	101	25,781	7,276	1,387	1,084	9,747
Conventional	52,381	5,390	57,771	32,323	6,527	10,890	49,740
CBOB	45,782	5,390	51,172	32,320	6,527	10,890	49,737
GTAB	1,913	-	1,913	-	-	-	-
Other	4,686	-	4,686	3	-	-	3
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	88,679	6,167	94,846	44,615	9,004	13,978	67,597

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	63	1,068	205	29	-	1,365	111	43	3,337
Natural Gas Liquids	63	1,068	205	29	-	1,365	111	43	3,337
Normal Butane	49	453	205	29	-	736	64	43	2,306
Isobutane	-	-	-	-	-	-	4	-	4
Natural Gasoline	14	615	-	-	-	629	43	-	1,027
Other Liquids	17,013	12,195	2,607	8,842	1,058	41,715	3,820	44,038	250,198
Oxygenates/Renewables	1,793	897	280	1,017	119	4,106	603	4,959	27,251
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	1,793	897	280	1,017	119	4,106	603	4,959	27,251
Fuel Ethanol	1,751	807	280	965	101	3,904	591	4,551	26,015
Renewable Diesel Fuel	42	90	-	52	18	202	12	403	1,231
Other Renewable Fuels	-	-	-	-	-	-	-	5	5
Unfinished Oils (net)	-	-	35	-	-	35	-	-	38
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	36	-	-	36	-	-	36
Heavy Gas Oils	-	-	-1	-	-	-1	-	-	0
Residuum	-	-	-	-	-	-	-	-	2
Motor Gasoline Blend.Comp. (MGBC)(net)	15,220	11,298	2,292	7,825	939	37,574	3,217	39,079	222,909
Reformulated - RBOB	6,658	5,129	-	-	-	11,787	-	28,925	76,240
Conventional	8,562	6,169	2,292	7,825	939	25,787	3,217	10,154	146,669
CBOB	8,562	-737	1,438	7,785	939	17,987	3,214	10,085	132,195
GTAB	-	-	-	-	-	-	-	-	1,913
Other	-	6,906	854	40	-	7,800	3	69	12,561
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	17,076	13,263	2,812	8,871	1,058	43,080	3,931	44,081	253,535

- = 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).

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, November 2017
(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	88,961	6,115	95,076	44,428	8,958	13,926	67,312
Reformulated	38,849	112	38,961	8,304	1,542	1,212	11,058
Reformulated Blended with Fuel Ethanol	38,849	112	38,961	8,304	1,542	1,212	11,058
Reformulated Other	-	-	-	-	-	-	-
Conventional	50,112	6,003	56,115	36,124	7,416	12,714	56,254
Conventional Blended with Fuel Ethanol	53,415	6,017	59,432	37,698	8,145	13,016	58,859
Ed55 and Lower	53,377	6,017	59,394	37,689	8,121	12,948	58,758
Greater than Ed55	38	-	38	9	24	68	101
Conventional Other	-3,303	-14	-3,317	-1,574	-729	-302	-2,605
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-6	-	-6	-	-	-	-
Kerosene	11	-	11	-	-	-	-
Distillate Fuel Oil	-302	53	-249	186	46	54	286
15 ppm sulfur and under	-152	53	-99	186	46	54	286
Greater than 15 ppm to 500 ppm sulfur	-267	0	-267	-	-	115	115
Greater than 500 ppm sulfur	117	-	117	-	-	-115	-115
Residual Fuel Oil	7	-	7	-	-	-	-
Less than 0.31 percent sulfur	1	-	1	-	-	-	-
0.31 to 1.00 percent sulfur	1	-	1	-	-	-	-
Greater than 1.00 percent sulfur	5	-	5	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	1	-	1	2	-	-	2
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	88,672	6,168	94,840	44,616	9,004	13,980	67,600
Processing Gain(-) or Loss(+) ¹	7	-1	6	-1	0	-2	-3

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	17,034	13,174	2,778	8,817	1,038	42,841	3,918	43,678	252,825
Reformulated	7,388	6,707	-	-	-	14,095	-	32,245	96,359
Reformulated Blended with Fuel Ethanol	7,388	6,707	-	-	-	14,095	-	32,245	96,359
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	9,646	6,467	2,778	8,817	1,038	28,746	3,918	11,433	156,466
Conventional Blended with Fuel Ethanol	9,874	1,214	2,773	9,557	1,067	24,485	5,841	13,060	161,677
Ed55 and Lower	9,865	1,214	2,773	9,549	1,067	24,468	5,826	13,056	161,502
Greater than Ed55	9	-	-	8	-	17	15	4	175
Conventional Other	-228	5,253	5	-740	-29	4,261	-1,923	-1,627	-5,211
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	0	6	-	-	6	37	-22	15
Kerosene	-	-	2	-	-	2	-	16	29
Distillate Fuel Oil	43	90	-8	52	19	196	-25	413	621
15 ppm sulfur and under	43	86	-8	52	19	192	-25	396	750
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	-152
Greater than 500 ppm sulfur	-	4	-	-	-	4	-	17	23
Residual Fuel Oil	-	0	42	-	-	42	-	-	49
Less than 0.31 percent sulfur	-	-	-	-	-	-	-	-	1
0.31 to 1.00 percent sulfur	-	58	-	-	-	58	-	-	59
Greater than 1.00 percent sulfur	-	-58	42	-	-	-16	-	-	-11
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-7	-	-	-7	-	-	-4
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	17,077	13,264	2,813	8,869	1,057	43,080	3,930	44,085	253,535
Processing Gain(-) or Loss(+) ¹	-1	-1	-1	2	1	0	1	-4	0

- = 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, November 2017
(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	10,471	589	11,060	9,023	2,229	1,755	13,007
Petroleum Products	14,209	2,079	16,288	29,533	7,345	11,922	48,800
Hydrocarbon Gas Liquids	814	64	878	3,308	571	1,571	5,450
Natural Gas Liquids	535	64	599	2,544	539	1,557	4,640
Ethane	—	—	—	—	—	—	—
Propane	117	2	119	705	46	1,033	1,784
Normal Butane	293	49	342	1,458	427	163	2,048
Isobutane	125	13	138	270	66	127	463
Natural Gasoline	—	—	—	111	—	234	345
Refinery Olefins	279	0	279	764	32	14	810
Ethylene	—	—	—	—	—	—	—
Propylene	144	0	144	678	32	12	722
Butylene	84	0	84	86	0	2	88
Isobutylene	51	0	51	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	57	101	158	92	55	26	173
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	57	101	158	47	55	26	128
Fuel Ethanol	57	96	153	35	40	23	98
Renewable Diesel Fuel	—	5	5	12	15	3	30
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	45	—	—	45
Unfinished Oils	4,322	419	4,741	8,208	720	4,565	13,493
Naphthas and Lighter	1,203	238	1,441	2,028	205	1,100	3,333
Kerosene and Light Gas Oils	602	—	602	2,405	226	672	3,303
Heavy Gas Oils	1,920	175	2,095	2,560	272	2,050	4,882
Residuum	597	6	603	1,215	17	743	1,975
Motor Gasoline Blending Components (MGBC)	5,244	235	5,479	8,370	1,938	2,581	12,889
Reformulated - RBOB	1,666	—	1,666	1,155	101	—	1,256
Conventional	3,578	235	3,813	7,215	1,837	2,581	11,633
CBOB	575	170	745	2,956	1,072	1,545	5,573
GTAB	—	—	—	—	—	—	—
Other	3,003	65	3,068	4,259	765	1,036	6,060
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	59	59	957	99	252	1,308
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	59	59	957	99	252	1,308
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	59	59	957	99	252	1,308
Finished Aviation Gasoline	—	—	—	—	60	—	60
Kerosene-Type Jet Fuel	506	—	506	1,238	277	297	1,812
Kerosene	102	2	104	54	—	18	72
Distillate Fuel Oil	2,107	211	2,318	3,583	989	1,566	6,138
15 ppm sulfur and under	1,848	90	1,938	3,387	812	1,467	5,666
Greater than 15 ppm to 500 ppm sulfur	33	101	134	—	80	56	136
Greater than 500 ppm sulfur	226	20	246	196	97	43	336
Residual Fuel Oil	410	15	425	714	208	44	966
Less than 0.31 percent sulfur	20	13	33	94	—	—	94
0.31 to 1.00 percent sulfur	59	2	61	61	58	—	119
Greater than 1.00 percent sulfur	331	—	331	559	150	44	753
Petrochemical Feedstocks	108	—	108	542	—	—	542
Naphtha for Petro. Feed. Use	108	—	108	387	—	—	387
Other Oils for Petro. Feed. Use	—	—	—	155	—	—	155
Special Naphthas	—	25	25	69	—	14	83
Lubricants	353	193	546	—	—	396	396
Waxes	—	478	478	—	—	55	55
Petroleum Coke	—	—	—	306	914	88	1,308
Marketable	—	—	—	306	914	88	1,308
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	174	262	436	2,003	1,485	444	3,932
Miscellaneous Products	12	15	27	89	29	5	123
Total Stocks, All Oils	24,680	2,668	27,348	38,556	9,574	13,677	61,807

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, November 2017
(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	1,926	26,676	17,694	1,163	414	47,873	2,518	24,633	99,091
Petroleum Products	10,087	58,379	50,272	3,761	1,353	123,852	9,916	51,644	250,500
Hydrocarbon Gas Liquids	2,406	2,238	4,325	20	96	9,085	468	1,777	17,658
Natural Gas Liquids	1,506	1,853	3,579	19	96	7,053	463	1,747	14,502
Ethane	194	—	—	—	—	194	—	—	194
Propane	513	525	239	1	5	1,283	60	110	3,356
Normal Butane	502	1,064	2,150	13	59	3,788	281	1,114	7,573
Isobutane	234	214	824	5	16	1,293	104	521	2,519
Natural Gasoline	63	50	366	—	16	495	18	2	860
Refinery Olefins	900	385	746	1	0	2,032	5	30	3,156
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	900	56	487	1	0	1,444	0	16	2,326
Butylene	0	329	259	0	0	588	5	14	779
Isobutylene	0	0	0	0	0	0	0	0	51
Oxygenates/Renewable Fuels/Other Hydrocarbons	35	77	238	86	13	449	111	239	1,130
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	35	77	238	86	13	449	111	239	1,085
Fuel Ethanol	31	53	57	27	8	176	107	30	564
Renewable Diesel Fuel	4	24	181	59	5	273	4	209	521
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	45
Unfinished Oils	3,516	20,299	15,146	860	590	40,411	3,080	18,749	80,474
Naphthas and Lighter	1,023	6,341	2,451	191	167	10,173	633	3,272	18,852
Kerosene and Light Gas Oils	1,154	3,471	2,214	203	181	7,223	714	3,629	15,471
Heavy Gas Oils	746	8,461	8,271	380	242	18,100	1,183	9,107	35,367
Residuum	593	2,026	2,210	86	—	4,915	550	2,741	10,784
Motor Gasoline Blending Components (MGBC)	2,147	12,225	12,166	327	328	27,193	2,596	15,130	63,287
Reformulated - RBOB	91	1,011	527	—	—	1,629	—	5,502	10,053
Conventional	2,056	11,214	11,639	327	328	25,564	2,596	9,628	53,234
CBOB	1,011	3,803	5,460	233	16	10,523	1,301	2,221	20,363
GTAB	—	—	—	—	—	—	—	—	—
Other	1,045	7,411	6,179	94	312	15,041	1,295	7,407	32,871
Aviation Gasoline Blending Components	6	—	7	—	—	13	—	—	13
Finished Motor Gasoline	421	1,713	2,222	60	62	4,478	739	877	7,461
Reformulated	—	—	—	—	—	—	—	17	17
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	17	17
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	421	1,713	2,222	60	62	4,478	739	860	7,444
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	48	—	48
Ed55 and Lower	—	—	—	—	—	—	48	—	48
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	421	1,713	2,222	60	62	4,478	691	860	7,396
Finished Aviation Gasoline	29	115	164	—	—	308	5	169	542
Kerosene-Type Jet Fuel	261	3,257	2,780	52	—	6,350	312	3,832	12,812
Kerosene	34	6	78	5	—	123	1	1	301
Distillate Fuel Oil	581	7,080	7,158	312	122	15,253	1,596	5,732	31,037
15 ppm sulfur and under	560	6,276	5,314	210	122	12,482	1,372	4,869	26,327
Greater than 15 ppm to 500 ppm sulfur	21	92	655	25	—	793	159	277	1,499
Greater than 500 ppm sulfur	—	712	1,189	77	—	1,978	65	586	3,211
Residual Fuel Oil	118	2,486	1,191	68	29	3,892	191	2,544	8,018
Less than 0.31 percent sulfur	8	—	119	—	—	127	19	—	273
0.31 to 1.00 percent sulfur	—	197	81	68	7	353	4	330	867
Greater than 1.00 percent sulfur	110	2,289	991	—	22	3,412	168	2,214	6,878
Petrochemical Feedstocks	121	1,743	558	3	—	2,425	—	1	3,076
Naphtha for Petro. Feed. Use	20	1,001	427	3	—	1,451	—	1	1,947
Other Oils for Petro. Feed. Use	101	742	131	—	—	974	—	—	1,129
Special Naphthas	79	703	—	111	—	893	—	16	1,017
Lubricants	48	2,290	1,991	743	—	5,072	—	707	6,721
Waxes	—	78	71	50	—	199	—	—	732
Petroleum Coke	39	3,732	1,572	—	—	5,343	51	1,209	7,911
Marketable	39	3,732	1,572	—	—	5,343	51	1,209	7,911
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	231	106	509	1,064	92	2,002	747	554	7,671
Miscellaneous Products	15	231	96	—	21	363	19	107	639
Total Stocks, All Oils	12,013	85,055	67,966	4,924	1,767	171,725	12,434	76,277	349,591

— = 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).

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, November 2017

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	1.6	-0.8	1.4	0.6	-2.3	-1.0	-0.2
Finished Motor Gasoline ¹	49.5	38.6	48.7	56.3	53.1	50.9	54.6
Finished Aviation Gasoline ²	-	-	-	-	0.4	-	0.1
Kerosene-Type Jet Fuel	9.2	-	8.5	8.2	4.4	3.3	6.5
Kerosene	0.7	-	0.6	0.2	-	0.1	0.2
Distillate Fuel Oil ³	30.8	27.4	30.6	25.6	33.2	39.8	30.0
Residual Fuel Oil	3.4	0.2	3.1	1.6	1.5	0.4	1.3
Naphtha for Petro. Feed. Use	0.3	-	0.3	0.9	-	-	0.6
Other Oils for Petro. Feed. Use	-	-	-	0.4	-	-	0.2
Special Naphthas	-	0.9	0.1	0.1	-	0.1	0.1
Lubricants	0.5	7.0	1.0	-	-	1.1	0.3
Waxes	-	-0.3	0.0	-	-	0.2	0.0
Petroleum Coke	3.4	0.7	3.2	5.3	5.6	3.5	4.9
Asphalt and Road Oil	1.5	22.9	3.1	3.0	6.7	1.5	3.2
Still Gas	3.6	2.0	3.5	3.6	3.8	4.2	3.8
Miscellaneous Products	0.2	1.2	0.3	0.4	0.7	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-4.6	0.1	-4.3	-6.2	-7.2	-4.2	-5.9

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	1.1	3.4	4.4	-0.2	-0.3	3.5	0.1	0.3	2.0
Finished Motor Gasoline ¹	55.4	43.6	43.2	29.9	53.5	43.9	51.1	50.8	47.8
Finished Aviation Gasoline ²	0.3	0.1	0.1	-	-	0.1	-	-	0.1
Kerosene-Type Jet Fuel	7.6	9.0	10.4	2.8	-	9.2	5.0	16.6	9.5
Kerosene	0.0	-	0.0	0.3	-	0.0	-	0.0	0.1
Distillate Fuel Oil ³	27.9	33.1	31.8	34.2	41.9	32.4	34.8	22.3	30.3
Residual Fuel Oil	1.7	1.5	3.1	-1.7	1.8	2.1	1.7	4.6	2.3
Naphtha for Petro. Feed. Use	0.4	2.5	1.2	-	-	1.8	-	0.0	1.1
Other Oils for Petro. Feed. Use	0.0	1.2	0.8	-	-	0.9	-	-	0.6
Special Naphthas	0.5	0.7	-	3.5	-	0.5	-	0.0	0.3
Lubricants	0.1	1.4	1.6	13.2	-	1.7	-	1.0	1.2
Waxes	-	0.0	0.0	0.3	-	0.0	-	-	0.0
Petroleum Coke	2.5	6.1	5.5	2.2	0.8	5.4	4.1	5.9	5.2
Asphalt and Road Oil	1.1	0.3	0.8	11.2	1.2	0.8	4.7	1.0	1.6
Still Gas	4.2	4.1	3.6	2.6	2.0	3.8	3.7	4.7	3.9
Miscellaneous Products	0.7	0.8	0.5	1.0	1.0	0.7	0.5	0.6	0.6
Processing Gain(-) or Loss(+) ⁴	-3.3	-7.6	-7.0	1.2	-1.8	-6.8	-5.7	-7.7	-6.5

- = 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, November 2017
(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	-	204	2,713	2,917
Connecticut	-	-	-	-
Delaware	-	204	-	204
Florida	-	-	528	528
Georgia	-	-	144	144
Maine	-	-	-	-
Maryland	-	-	-	-
Massachusetts	-	-	-	-
New Hampshire	-	-	-	-
New Jersey	-	-	1,211	1,211
New York	-	-	332	332
North Carolina	-	-	-	-
Pennsylvania	-	-	344	344
Rhode Island	-	-	-	-
South Carolina	-	-	152	152
Vermont	-	-	2	2
Virginia	-	-	-	-
West Virginia	-	-	-	-
PAD District 2	-	81	70	151
Illinois	-	-	-	-
Indiana	-	-	-	-
Michigan	-	-	70	70
Minnesota	-	81	-	81
North Dakota	-	-	-	-
Ohio	-	-	-	-
Wisconsin	-	-	-	-
PAD District 3	243	171	881	1,295
Alabama	-	-	-	-
Louisiana	-	171	146	317
Mississippi	-	-	-	-
New Mexico	-	-	-	-
Texas	243	-	735	978
PAD District 4	-	-	-	-
Idaho	-	-	-	-
Montana	-	-	-	-
PAD District 5	-	193	1,721	1,914
Alaska	-	-	-	-
California	-	-	1,688	1,688
Hawaii	-	-	-	-
Oregon	-	-	-	-
Washington	-	193	33	226
U.S. Total	243	649	5,385	6,277

- = 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, November 2017
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	29,863	68,788	85,280	7,572	37,200	228,703	7,623
Hydrocarbon Gas Liquids	1,634	2,880	115	430	1,355	6,414	214
Natural Gas Liquids	1,377	2,490	—	430	1,354	5,651	188
Ethane	—	—	—	—	—	—	—
Propane	1,264	2,016	—	424	897	4,601	153
Normal Butane	57	300	—	4	432	793	26
Isobutane	56	169	—	2	25	252	8
Natural Gasoline	—	5	—	—	—	5	0
Refinery Olefins	257	390	115	—	1	763	25
Ethylene	—	—	—	—	—	—	—
Propylene	257	345	—	—	1	603	20
Butylene	—	45	115	—	—	160	5
Isobutylene	—	—	—	—	—	—	—
Other Liquids	16,023	446	13,231	18	6,260	35,978	1,199
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	150	38	358	5	875	1,426	48
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	344	—	—	344	11
Methyl Tertiary Butyl Ether (MTBE)	—	—	120	—	—	120	4
Other Oxygenates ³	—	—	224	—	—	224	7
Renewable Fuels (including Fuel Ethanol)	150	33	—	5	875	1,063	35
Fuel Ethanol	—	—	—	—	496	496	17
Biomass-Based Diesel Fuel	150	33	—	5	34	222	7
Other Renewable Diesel Fuel	—	—	—	—	345	345	12
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	5	14	—	—	19	1
Unfinished Oils ¹	1,870	—	12,847	—	4,913	19,630	654
Naphthas and Lighter	508	—	603	—	200	1,311	44
Kerosene and Lighter Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	1,362	—	8,267	—	3,946	13,575	453
Residuum	—	—	3,977	—	767	4,744	158
Motor Gasoline Blend.Comp. (MGBC)	14,003	408	26	13	472	14,922	497
Reformulated - RBOB	5,721	—	—	—	—	5,721	191
Conventional	8,282	408	26	13	472	9,201	307
CBOB	500	54	—	—	425	979	33
GTAB	867	—	—	—	—	867	29
Other	6,915	354	26	13	47	7,355	245
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	11,285	995	4,396	111	5,597	22,384	746
Finished Motor Gasoline	268	—	—	—	44	312	10
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	268	—	—	—	44	312	10
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	268	—	—	—	44	312	10
Finished Aviation Gasoline	1	1	—	—	1	3	0
Kerosene-Type Jet Fuel	2,690	—	125	—	2,992	5,807	194
Bonded Aircraft Fuel	187	—	—	—	979	1,166	39
Other	2,503	—	125	—	2,013	4,641	155
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	4,235	162	475	85	443	5,400	180
15 ppm sulfur and under	2,810	139	—	85	443	3,477	116
Bonded	—	—	—	—	—	—	—
Other	2,810	139	—	85	443	3,477	116
Greater than 15 ppm to 500 ppm sulfur	42	—	—	—	—	42	1
Bonded	—	—	—	—	—	—	—
Other	42	—	—	—	—	42	1
Greater than 500 ppm to 2000 ppm sulfur	1,288	—	475	—	—	1,763	59
Bonded	—	—	—	—	—	—	—
Other	1,288	—	475	—	—	1,763	59
Greater than 2000 ppm	95	23	—	—	—	118	4
Bonded	—	—	—	—	—	—	—
Other	95	23	—	—	—	118	4
Residual Fuel Oil	2,917	151	1,295	—	1,914	6,277	209
Less than 0.31 percent sulfur	—	—	243	—	—	243	8
0.31 to 1.00 percent sulfur	204	81	171	—	193	649	22
Greater than 1.00 percent sulfur	2,713	70	881	—	1,721	5,385	180
Petrochemical Feedstocks	292	135	676	—	99	1,202	40
Naphtha for Petro. Feed. Use	292	51	625	—	99	1,067	36
Other Oils for Petro. Feed. Use	—	84	51	—	—	135	5
Special Naphthas	—	51	451	—	—	502	17
Lubricants	152	172	1,058	—	6	1,388	46
Waxes	94	16	60	—	40	210	7
Petroleum Coke (Marketable)	1	26	234	—	11	272	9
Asphalt and Road Oil	635	281	—	25	46	987	33
Miscellaneous Products	—	—	22	1	1	24	1
Total	58,805	73,109	103,022	8,131	50,412	293,479	9,783

— = 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-November 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	316,704	786,912	1,041,042	91,096	410,788	2,646,542	7,924
Hydrocarbon Gas Liquids	15,747	27,140	4,109	3,619	11,515	62,130	186
Natural Gas Liquids	12,163	22,498	2,733	3,619	11,514	52,527	157
Ethane	-	-	-	-	-	-	-
Propane	10,948	18,174	14	3,322	9,277	41,735	125
Normal Butane	573	2,068	-	97	2,102	4,840	14
Isobutane	642	2,209	30	200	135	3,216	10
Natural Gasoline	-	47	2,689	-	-	2,736	8
Refinery Olefins	3,584	4,642	1,376	-	1	9,603	29
Ethylene	-	-	-	-	-	-	-
Propylene	3,577	3,831	-	-	1	7,409	22
Butylene	7	811	1,376	-	-	2,194	7
Isobutylene	-	-	-	-	-	-	-
Other Liquids	207,912	3,773	164,242	407	58,577	434,911	1,302
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	5,954	518	5,375	49	7,004	18,900	57
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	-	-	3,547	-	-	3,547	11
Methyl Tertiary Butyl Ether (MTBE)	-	-	1,993	-	-	1,993	6
Other Oxygenates ³	-	-	1,554	-	-	1,554	5
Renewable Fuels (including Fuel Ethanol)	5,952	403	1,716	49	7,004	15,124	45
Fuel Ethanol	100	-	-	-	1,724	1,824	5
Biomass-Based Diesel Fuel	5,852	403	1,716	49	850	8,870	27
Other Renewable Diesel Fuel	-	-	-	-	4,430	4,430	13
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	2	115	112	-	-	229	1
Unfinished Oils ¹	21,304	-	145,228	-	41,270	207,802	622
Naphthas and Lighter	4,627	-	3,353	-	1,244	9,224	28
Kerosene and Lighter Gas Oils	-	-	1,025	-	-	1,025	3
Heavy Gas Oils	11,861	-	104,835	-	34,473	151,169	453
Residuum	4,816	-	36,015	-	5,553	46,384	139
Motor Gasoline Blend Comp. (MGBC)	180,654	3,255	13,639	358	10,303	208,209	623
Reformulated - RBOB	71,177	258	-	-	268	71,703	215
Conventional	109,477	2,997	13,639	358	10,035	136,506	409
CBOB	9,226	307	-	-	4,802	14,335	43
GTAB	29,389	-	983	-	161	30,533	91
Other	70,862	2,690	12,656	358	5,072	91,638	274
Aviation Gasoline Blend Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	106,214	8,547	54,718	1,142	55,168	225,789	676
Finished Motor Gasoline	8,341	-	1,187	-	1,196	10,724	32
Reformulated	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	8,341	-	1,187	-	1,196	10,724	32
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	8,341	-	1,187	-	1,196	10,724	32
Finished Aviation Gasoline	45	24	-	9	21	99	0
Kerosene-Type Jet Fuel	21,768	5	125	156	32,075	54,129	162
Bonded Aircraft Fuel	2,669	-	-	-	9,756	12,425	37
Other	19,099	5	125	156	22,319	41,704	125
Kerosene	1,112	-	-	-	55	1,167	3
Distillate Fuel Oil	36,747	487	3,378	523	4,330	45,465	136
15 ppm sulfur and under	25,496	413	-	523	4,232	30,664	92
Bonded	-	-	-	-	-	-	-
Other	25,496	413	-	523	4,232	30,664	92
Greater than 15 ppm to 500 ppm sulfur	428	-	-	-	-	428	1
Bonded	-	-	-	-	-	-	-
Other	428	-	-	-	-	428	1
Greater than 500 ppm to 2000 ppm sulfur	10,548	12	2,514	-	98	13,172	39
Bonded	-	-	-	-	-	-	-
Other	10,548	12	2,514	-	98	13,172	39
Greater than 2000 ppm	275	62	864	-	-	1,201	4
Bonded	-	-	-	-	-	-	-
Other	275	62	864	-	-	1,201	4
Residual Fuel Oil	25,708	848	21,412	-	14,812	62,780	188
Less than 0.31 percent sulfur	1,209	-	2,577	-	-	3,786	11
0.31 to 1.00 percent sulfur	3,656	435	1,594	-	1,350	7,035	21
Greater than 1.00 percent sulfur	20,843	413	17,241	-	13,462	51,959	156
Petrochemical Feedstocks	301	1,615	12,796	-	442	15,154	45
Naphtha for Petro. Feed. Use	301	810	9,400	-	410	10,921	33
Other Oils for Petro. Feed. Use	-	805	3,396	-	32	4,233	13
Special Naphthas	-	495	4,291	-	45	4,831	14
Lubricants	2,367	2,123	8,729	-	529	13,748	41
Waxes	836	74	358	-	373	1,641	5
Petroleum Coke (Marketable)	217	251	2,400	-	296	3,164	9
Asphalt and Road Oil	8,772	2,621	-	442	991	12,826	38
Miscellaneous Products	-	4	42	12	3	61	0
Total	646,577	826,372	1,264,111	96,264	536,048	3,369,372	10,088

- = 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, November 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	83,813	-	-	4,153	-	-	-	-	1,354	1,354
Algeria	-	-	-	3,606	-	-	-	-	-	-
Angola	2,070	-	-	-	-	-	-	-	253	253
Ecuador	5,780	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	18,322	-	-	-	-	-	-	-	-	-
Kuwait	3,499	-	-	-	-	-	-	-	-	-
Libya	2,150	-	-	-	-	-	-	-	-	-
Nigeria	13,331	-	-	-	-	-	-	-	624	624
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	23,399	-	-	-	-	-	-	-	-	-
United Arab Emirates	123	-	-	547	-	-	-	-	-	-
Venezuela	15,139	-	-	-	-	-	-	-	477	477
Non-OPEC	144,890	5,651	763	15,477	-	312	312	5,721	7,847	13,568
Argentina	-	-	-	-	-	-	-	-	80	80
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	592	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	595	-	-	-	-	-	-
Brazil	4,664	-	-	-	-	-	-	-	898	898
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	99,374	5,418	648	363	-	312	312	3,862	1,810	5,672
Chad	2,809	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	9,186	-	-	420	-	-	-	-	230	230
Congo (Brazzaville)	523	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	519	-	-	-	-	-	-
Egypt	259	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	318	-	318
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	982	-	-	-	300	283	583
Germany	-	-	-	63	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	297	-	-	-	-	516	516
Indonesia	1,317	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	298	298
Korea, South	-	56	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	222	-	222
Malaysia	-	-	-	930	-	-	-	-	17	17
Mexico	24,138	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	728	-	-	-	-	321	321
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	629	177	-	-	-	-	-	-	319	319
Oman	372	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	281	281
Russia	995	-	-	7,678	-	-	-	96	1,305	1,401
Spain	-	-	-	646	-	-	-	-	881	881
Sweden	-	-	-	10	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	495	-	-	351	-	-	-	923	-	923
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	129	0	115	1,303	-	0	0	0	608	608
Total	228,703	5,651	763	19,630	-	312	312	5,721	9,201	14,922
Persian Gulf³	45,343	-	-	547	-	-	-	-	-	-

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	120	224	496	222	345	-	3,477	42	1,763	118	5,400
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	270	-	270
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	36	123	496	-	-	-	-	-	275	-	275
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	150	-	-	2,721	42	1,061	118	3,942
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	72	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	756	-	-	-	756
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	84	101	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	7	-	7
Spain	-	-	-	-	-	-	-	-	150	-	150
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	345	-	0	0	0	0	0
Total	120	224	496	222	345	-	3,477	42	1,763	118	5,400
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	921	-	-	-	122	122
Algeria	-	-	-	7	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	914	-	-	-	122	122
Non-OPEC	-	3	-	4,886	502	243	649	5,263	6,155
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	89	89
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	50	-	-	8	8
Brazil	-	-	-	-	57	105	171	-	276
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	3	-	563	203	-	274	1,416	1,690
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	719	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	281	281
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	125	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	2,853	144	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	7	-	-	-	-	-
Mexico	-	-	-	-	-	138	-	702	840
Netherlands	-	-	-	-	-	-	-	19	19
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	8	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	611	611
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	846	846
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	611	48	0	204	1,291	1,495
Total	-	3	-	5,807	502	243	649	5,385	6,277
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, November 2017
(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	138	—	—	—	—	753	—	7,441	91,254	2,794	248	3,042
Algeria	—	—	—	—	—	—	—	3,613	3,613	—	120	120
Angola	—	—	—	—	—	—	—	253	2,323	69	8	77
Ecuador	—	—	—	—	—	—	—	—	5,780	193	—	193
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	18,322	611	—	611
Kuwait	—	—	—	—	—	—	—	—	3,499	117	—	117
Libya	—	—	—	—	—	—	—	—	2,150	72	—	72
Nigeria	138	—	—	—	—	—	—	762	14,093	444	25	470
Qatar	—	—	—	—	—	575	—	575	575	—	19	19
Saudi Arabia	—	—	—	—	—	—	—	—	23,399	780	—	780
United Arab Emirates	—	—	—	—	—	178	—	725	848	4	24	28
Venezuela	—	—	—	—	—	—	—	1,513	16,652	505	50	555
Non-OPEC	929	135	210	272	987	635	24	57,335	202,225	4,830	1,911	6,741
Argentina	—	—	—	226	—	—	—	306	306	—	10	10
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	951	951	—	32	32
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	7	—	660	660	—	22	22
Brazil	—	—	21	—	—	—	—	2,182	6,846	155	73	228
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	74	110	83	36	668	273	2	20,215	119,589	3,312	674	3,986
Chad	—	—	—	—	—	—	—	—	2,809	94	—	94
China	—	—	93	—	—	—	—	812	812	—	27	27
Colombia	—	—	—	—	—	—	—	931	10,117	306	31	337
Congo (Brazzaville)	—	—	—	—	—	—	—	—	523	17	—	17
Denmark	—	—	—	—	—	—	—	519	519	—	17	17
Egypt	—	—	—	—	—	—	—	125	384	9	4	13
Estonia	—	—	—	—	—	—	—	318	318	—	11	11
Finland	—	—	—	—	—	162	—	162	162	—	5	5
France	—	25	—	—	—	8	—	1,598	1,598	—	53	53
Germany	—	—	—	—	—	16	—	151	151	—	5	5
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	1,569	1,569	—	52	52
Indonesia	—	—	—	—	—	—	—	—	1,317	44	—	44
Italy	—	—	—	—	—	12	—	311	311	—	10	10
Korea, South	—	—	—	—	—	52	—	3,105	3,105	—	104	104
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	222	222	—	7	7
Malaysia	—	—	12	—	—	—	—	966	966	—	32	32
Mexico	245	—	—	—	—	—	—	1,085	25,223	805	36	841
Netherlands	—	—	—	—	—	—	22	1,288	1,288	—	43	43
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	504	1,133	21	17	38
Oman	—	—	—	—	—	67	—	67	439	12	2	15
Portugal	—	—	—	—	—	—	—	281	281	—	9	9
Russia	—	—	—	—	—	19	—	9,716	10,711	33	324	357
Spain	—	—	—	—	319	—	—	1,996	1,996	—	67	67
Sweden	—	—	—	1	—	4	—	15	15	—	1	1
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	846	846	—	28	28
United Kingdom	35	—	—	8	—	15	—	1,332	1,827	17	44	61
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	575	0	1	1	0	0	0	5,102	5,231	5	171	175
Total	1,067	135	210	272	987	1,388	24	64,776	293,479	7,623	2,159	9,783
Persian Gulf³	—	—	—	—	—	753	—	1,300	46,643	1,511	43	1,555

— = No Data Reported.

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."

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.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-November 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,053,981	199	-	50,355	-	56	56	-	13,637	13,637
Algeria	22,987	-	-	40,182	-	-	-	-	-	-
Angola	41,861	-	-	860	-	-	-	-	1,066	1,066
Ecuador	67,591	-	-	-	-	-	-	-	-	-
Equatorial Guinea	4,328	-	-	-	-	-	-	-	-	-
Gabon	1,581	-	-	641	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	201,034	-	-	1,123	-	-	-	-	-	-
Kuwait	50,239	-	-	-	-	-	-	-	-	-
Libya	19,111	-	-	1,682	-	-	-	-	-	-
Nigeria	103,738	-	-	1,379	-	-	-	-	6,487	6,487
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	322,769	-	-	501	-	-	-	-	-	-
United Arab Emirates	6,556	-	-	3,376	-	-	-	-	-	-
Venezuela	212,186	199	-	611	-	56	56	-	6,084	6,084
Non-OPEC	1,592,561	52,328	9,603	157,447	-	10,668	10,668	71,703	122,869	194,572
Argentina	-	-	-	106	-	-	-	-	890	890
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	648	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	628	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	43	12,321	-	837	837	856	2,388	3,244
Brazil	68,327	-	-	948	-	-	-	-	1,578	1,578
Brunei	245	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	219	-	-	-	-	-	-
Canada	1,135,357	48,037	8,227	2,726	-	4,745	4,745	38,611	21,903	60,514
Chad	8,960	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	111,518	60	-	2,019	-	-	-	-	2,698	2,698
Congo (Brazzaville)	1,474	-	-	-	-	-	-	-	-	-
Denmark	1,230	-	-	1,505	-	9	9	36	343	379
Egypt	2,879	-	-	-	-	-	-	-	259	259
Estonia	-	-	-	-	-	-	-	318	1	319
Finland	-	-	-	224	-	308	308	82	2,510	2,592
France	-	-	-	2,722	-	88	88	4,974	3,967	8,941
Germany	-	-	-	837	-	207	207	158	245	403
Guatemala	2,956	-	-	-	-	-	-	-	-	-
India	-	-	-	3,837	-	8	8	529	18,331	18,860
Indonesia	5,185	-	-	-	-	-	-	-	-	-
Italy	-	-	-	891	-	327	327	269	3,892	4,161
Korea, South	-	56	-	-	-	225	225	-	2,698	2,698
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	103	-	-	-	222	1,138	1,360
Malaysia	-	-	-	1,666	-	-	-	-	245	245
Mexico	199,295	1,171	235	109	-	116	116	-	1,503	1,503
Netherlands	-	-	-	6,491	-	567	567	3,293	7,785	11,078
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	13,529	992	-	6,899	-	236	236	1,263	2,962	4,225
Oman	3,329	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	124	-	307	307	1,142	6,893	8,035
Russia	16,307	-	-	89,579	-	179	179	464	14,166	14,630
Spain	-	-	-	4,088	-	114	114	86	11,298	11,384
Sweden	-	511	-	1,422	-	271	271	128	1,097	1,225
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	2,479	386	-	1,410	-	2	2	-	750	750
United Kingdom	6,987	233	-	1,648	-	1,539	1,539	19,241	7,249	26,490
Vietnam	453	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	855	-	-	-	-	-	-	-	-	-
Other	10,548	882	1,098	14,925	-	583	583	31	6,080	6,111
Total	2,646,542	52,527	9,603	207,802	-	10,724	10,724	71,703	136,506	208,209
Persian Gulf³	580,598	-	-	5,000	-	-	-	-	-	-

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-November 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
OPEC	-	-	-	-	-	-	323	-	420	-	743
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	323	-	-	-	323
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	420	-	420
Non-OPEC	1,993	1,554	1,824	8,870	4,430	-	30,341	428	12,752	1,201	44,722
Argentina	215	-	-	6,920	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	389	-	389
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	234	-	-	-	-	-	-	-	422	260	682
Brazil	467	1,453	1,824	-	-	-	-	-	831	-	831
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	1,745	220	-	25,547	428	9,242	337	35,554
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	502	-	-	-	502
Colombia	-	-	-	-	-	-	183	-	70	-	253
Congo (Brazzaville)	-	-	-	-	-	-	-	-	205	-	205
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	115	115
Germany	161	-	-	122	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	3,259	-	100	114	3,473
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	54	-	-	476	-	-	-	476
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	75	-	-	-	75
Mexico	-	-	-	-	-	-	-	-	100	-	100
Netherlands	850	101	-	-	-	-	-	-	44	-	44
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	643	375	1,018
Spain	-	-	-	-	-	-	-	-	162	-	162
Sweden	-	-	-	-	-	-	-	-	19	-	19
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	351	-	351
United Kingdom	66	-	-	-	-	-	-	-	4	-	4
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	29	4,210	-	299	0	170	0	469
Total	1,993	1,554	1,824	8,870	4,430	-	30,664	428	13,172	1,201	45,465
Persian Gulf ³	-	-	-	-	-	-	-	-	-	-	-

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-November 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	5,860	37	1,007	612	4,152	5,771
Algeria	—	—	—	7	—	347	—	—	347
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	10	—	—	—	174	174
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	101	—	—	—	—	—
Kuwait	—	—	—	181	—	—	—	—	—
Libya	—	—	—	—	—	85	612	—	697
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	637	37	—	—	—	—
United Arab Emirates	—	—	—	279	—	—	—	—	—
Venezuela	—	—	—	4,645	—	575	—	3,978	4,553
Non-OPEC	1,167	99	—	48,269	4,794	2,779	6,423	47,807	57,009
Argentina	—	—	—	—	—	456	261	—	717
Aruba	—	—	—	151	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	43	—	—	—	779	779
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	67	—	—	120	120
Brazil	—	—	—	13	218	105	469	54	628
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	65	—	6,653	1,664	235	1,703	9,394	11,332
Chad	—	—	—	6	—	—	—	—	—
China	168	—	—	4,609	—	—	—	—	—
Colombia	—	—	—	—	—	240	717	1,555	2,512
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	221	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	41	—	—	272	272
Germany	—	—	—	—	57	—	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	2,447	—	—	81	171	252
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	37	—	—	444	444
Korea, South	55	—	—	27,460	1,055	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	351	—	—	—	—	—
Mexico	—	—	—	—	334	640	709	17,672	19,021
Netherlands	—	34	—	—	65	—	—	1,501	1,501
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	8	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	14	—	—	—	—
Russia	—	—	—	308	—	907	482	4,581	5,970
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	274	274
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	321	5,591	5,912
United Kingdom	—	—	—	—	—	—	—	3	3
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	944	0	—	5,999	1,242	196	1,680	5,395	7,271
Total	1,167	99	—	54,129	4,831	3,786	7,035	51,959	62,780
Persian Gulf³	—	—	—	1,198	37	—	—	—	—

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-November 2017
(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	464	—	—	192	1,067	3,023	—	81,404	1,135,385	3,156	244	3,399
Algeria	326	—	—	—	—	387	—	41,249	64,236	69	124	192
Angola	—	—	—	—	—	—	—	1,926	43,787	125	6	131
Ecuador	—	—	—	—	—	—	—	184	67,775	202	1	203
Equatorial Guinea	—	—	—	—	—	—	—	—	4,328	13	—	13
Gabon	—	—	—	—	—	—	—	641	2,222	5	2	7
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,224	202,258	602	4	606
Kuwait	—	—	—	—	—	—	—	181	50,420	150	1	151
Libya	—	—	—	—	—	—	—	2,379	21,490	57	7	64
Nigeria	138	—	—	—	—	—	—	8,327	112,065	311	25	336
Qatar	—	—	—	—	—	1,965	—	1,965	1,965	—	6	6
Saudi Arabia	—	—	—	—	—	22	—	1,197	323,966	966	4	970
United Arab Emirates	—	—	—	—	—	649	—	4,304	10,860	20	13	33
Venezuela	—	—	—	192	1,067	—	—	17,827	230,013	635	53	689
Non-OPEC	10,457	4,233	1,641	2,972	11,759	10,725	61	641,426	2,233,987	4,768	1,920	6,689
Argentina	—	310	—	1,287	—	18	—	10,463	10,463	—	31	31
Aruba	—	—	—	—	—	—	—	151	151	—	0	0
Australia	—	—	—	—	—	—	—	—	648	2	—	2
Bahamas	—	—	—	—	66	—	—	1,905	1,905	—	6	6
Bahrain	—	—	—	—	—	665	—	665	665	—	2	2
Belgium	2	—	—	—	—	494	—	18,044	18,044	—	54	54
Brazil	—	—	84	145	—	23	—	8,227	76,554	205	25	229
Brunei	—	—	—	—	—	—	—	—	245	1	—	1
Cameroon	—	—	—	—	—	—	—	219	219	—	1	1
Canada	833	831	652	543	9,727	3,367	19	197,569	1,332,926	3,399	592	3,991
Chad	—	—	—	—	—	—	—	6	8,966	27	0	27
China	—	—	563	114	—	—	—	5,956	5,956	—	18	18
Colombia	1,770	—	—	202	1	—	—	9,515	121,033	334	28	362
Congo (Brazzaville)	—	—	—	—	—	—	—	205	1,679	4	1	5
Denmark	—	—	—	—	—	—	—	1,893	3,123	4	6	9
Egypt	—	—	—	—	—	—	—	480	3,359	9	1	10
Estonia	—	—	—	171	—	—	—	490	490	—	1	1
Finland	—	—	—	—	—	244	—	3,368	3,368	—	10	10
France	44	245	—	—	—	160	—	12,628	12,628	—	38	38
Germany	15	—	16	1	1	339	—	2,168	2,168	—	6	6
Guatemala	—	—	—	—	—	—	—	—	2,956	9	—	9
India	—	—	—	—	—	—	—	28,877	28,877	—	86	86
Indonesia	—	—	—	—	—	636	—	636	5,821	16	2	17
Italy	14	—	8	—	—	197	—	6,091	6,091	—	18	18
Korea, South	36	—	3	—	—	4,049	—	36,167	36,167	—	108	108
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	1,463	1,463	—	4	4
Malaysia	—	—	152	—	209	44	—	2,742	2,742	—	8	8
Mexico	3,143	—	—	—	—	—	—	25,732	225,027	597	77	674
Netherlands	151	—	1	—	—	—	42	20,982	20,982	—	63	63
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	2,663	—	—	—	—	—	15,023	28,552	41	45	85
Oman	—	—	—	—	—	132	—	132	3,461	10	0	10
Portugal	—	—	—	—	—	—	—	8,480	8,480	—	25	25
Russia	167	—	—	—	—	90	—	111,943	128,250	49	335	384
Spain	—	—	8	—	1,579	—	—	17,335	17,335	—	52	52
Sweden	—	—	—	9	—	25	—	3,756	3,756	—	11	11
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	8,811	11,290	7	26	34
United Kingdom	503	—	—	203	—	171	—	30,860	37,847	21	92	113
Vietnam	—	—	—	—	—	—	—	—	453	1	—	1
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	855	3	—	3
Other	3,779	184	154	297	176	71	0	48,444	58,992	29	148	181
Total	10,921	4,233	1,641	3,164	12,826	13,748	61	722,830	3,369,372	7,924	2,164	10,088
Persian Gulf ³	—	—	—	—	—	3,301	—	9,536	590,134	1,738	29	1,767

— = No Data Reported.

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."

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.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	21,396	-	-	417	-	-	-	-	1,354	1,354
Algeria	-	-	-	417	-	-	-	-	-	-
Angola	537	-	-	-	-	-	-	-	253	253
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	1,837	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	2,150	-	-	-	-	-	-	-	-	-
Nigeria	13,187	-	-	-	-	-	-	-	624	624
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	3,685	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	477	477
Non-OPEC	8,467	1,377	257	1,453	-	268	268	5,721	6,928	12,649
Argentina	-	-	-	-	-	-	-	-	80	80
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	872	872
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	6,063	1,200	257	63	-	268	268	3,862	934	4,796
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	1,516	-	-	-	-	-	-	-	230	230
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	259	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	318	-	318
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	382	-	-	-	300	283	583
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	516	516
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	298	298
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	222	-	222
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	321	321
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	629	177	-	-	-	-	-	-	319	319
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	281	281
Russia	-	-	-	485	-	-	-	96	1,305	1,401
Spain	-	-	-	508	-	-	-	-	881	881
Sweden	-	-	-	10	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	5	-	-	-	923	-	923
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	0	0	0	608	608
Total	29,863	1,377	257	1,870	-	268	268	5,721	8,282	14,003
Persian Gulf³	5,522	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	150	-	-	2,810	42	1,288	95	4,235
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	270	-	270
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	275	-	275
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	78	-	-	2,054	42	736	95	2,927
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	72	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	756	-	-	-	756
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	7	-	7
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	0	0
Total	-	-	-	150	-	-	2,810	42	1,288	95	4,235
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	921	-	-	-	122	122
Algeria	-	-	-	7	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	914	-	-	-	122	122
Non-OPEC	-	1	-	1,769	-	-	204	2,591	2,795
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	89	89
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	1	-	563	-	-	-	1,260	1,260
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	281	281
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	1,191	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	7	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	26	26
Netherlands	-	-	-	-	-	-	-	19	19
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	8	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	70	70
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	846	846
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	204	0	204
Total	-	1	-	2,690	-	-	204	2,713	2,917
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(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	138	—	—	—	—	—	—	2,952	24,348	713	98	812
Algeria	—	—	—	—	—	—	—	424	424	—	14	14
Angola	—	—	—	—	—	—	—	253	790	18	8	26
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	1,837	61	—	61
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	2,150	72	—	72
Nigeria	138	—	—	—	—	—	—	762	13,949	440	25	465
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	3,685	123	—	123
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	1,513	1,513	—	50	50
Non-OPEC	154	—	94	1	635	152	—	25,990	34,457	282	866	1,149
Argentina	—	—	—	—	—	—	—	80	80	—	3	3
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	359	359	—	12	12
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	4	—	4	4	—	0	0
Brazil	—	—	21	—	—	—	—	1,168	1,168	—	39	39
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	67	—	316	96	—	11,892	17,955	202	396	599
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	5	—	—	—	—	5	5	—	0	0
Colombia	—	—	—	—	—	—	—	511	2,027	51	17	68
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	259	9	—	9
Estonia	—	—	—	—	—	—	—	318	318	—	11	11
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	8	—	973	973	—	32	32
Germany	—	—	—	—	—	10	—	82	82	—	3	3
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	1,272	1,272	—	42	42
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	10	—	308	308	—	10	10
Korea, South	—	—	—	—	—	—	—	1,191	1,191	—	40	40
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	222	222	—	7	7
Malaysia	—	—	—	—	—	—	—	7	7	—	0	0
Mexico	—	—	—	—	—	—	—	26	26	—	1	1
Netherlands	—	—	—	—	—	—	—	340	340	—	11	11
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	504	1,133	21	17	38
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	281	281	—	9	9
Russia	—	—	—	—	—	19	—	1,982	1,982	—	66	66
Spain	—	—	—	—	319	—	—	1,708	1,708	—	57	57
Sweden	—	—	—	—	—	4	—	14	14	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	846	846	—	28	28
United Kingdom	3	—	—	—	—	1	—	932	932	—	31	31
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	151	—	1	1	0	0	—	965	965	-1	34	33
Total	292	—	94	1	635	152	—	28,942	58,805	995	965	1,960
Persian Gulf³	—	—	—	—	—	—	—	—	5,522	184	—	184

— = No Data Reported.

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."

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.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	68,788	2,490	390	-	-	-	-	-	408	408
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	68,788	2,490	390	-	-	-	-	-	408	408
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	-	0	0
Total	68,788	2,490	390	-	-	-	-	-	408	408
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	33	-	-	139	-	-	23	162
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	33	-	-	139	-	-	23	162
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	0	0
Total	-	-	-	33	-	-	139	-	-	23	162
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	-	51	-	81	70	151
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	1	-	-	51	-	81	70	151
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	0	0	0
Total	-	1	-	-	51	-	81	70	151
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(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	-	-	-	-	-	1	-	1	1	-	0	0
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	1	-	1	1	-	0	0
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	51	84	16	26	281	171	-	4,320	73,108	2,293	144	2,437
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	51	84	16	25	281	171	-	4,319	73,107	2,293	144	2,437
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	1	-	-	-	1	1	-	0	0
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	51	84	16	26	281	172	-	4,321	73,109	2,293	144	2,437
Persian Gulf³	-	-	-	-	-	1	-	1	1	-	0	0

- = No Data Reported.

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."

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.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	45,149	-	-	3,189	-	-	-	-	-	-
Algeria	-	-	-	3,189	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	999	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	14,208	-	-	-	-	-	-	-	-	-
Kuwait	1,434	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	144	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	13,622	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	14,742	-	-	-	-	-	-	-	-	-
Non-OPEC	40,131	-	115	9,658	-	-	-	-	26	26
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	239	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	595	-	-	-	-	-	-
Brazil	2,125	-	-	-	-	-	-	-	26	26
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	10,436	-	-	300	-	-	-	-	-	-
Chad	2,809	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	2,587	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	523	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	519	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	600	-	-	-	-	-	-
Germany	-	-	-	63	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	21,156	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	728	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	5,527	-	-	-	-	-	-
Spain	-	-	-	138	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	495	-	-	346	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	-	115	603	-	-	-	-	0	0
Total	85,280	-	115	12,847	-	-	-	-	26	26
Persian Gulf³	29,264	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	120	224	-	-	-	-	-	-	475	-	475
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	36	123	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	325	-	325
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	84	101	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	150	-	150
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	-	0
Total	120	224	-	-	-	-	-	-	475	-	475
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	125	451	243	171	881	1,295
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	50	-	-	8	8
Brazil	-	-	-	-	57	105	171	-	276
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	152	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	125	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	144	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	138	-	676	814
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	197	197
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	48	0	0	0	0
Total	-	-	-	125	451	243	171	881	1,295
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(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	-	-	-	-	-	752	-	3,941	49,090	1,505	131	1,636
Algeria	-	-	-	-	-	-	-	3,189	3,189	-	106	106
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	999	33	-	33
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	14,208	474	-	474
Kuwait	-	-	-	-	-	-	-	-	1,434	48	-	48
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	144	5	-	5
Qatar	-	-	-	-	-	574	-	574	574	-	19	19
Saudi Arabia	-	-	-	-	-	-	-	-	13,622	454	-	454
United Arab Emirates	-	-	-	-	-	178	-	178	178	-	6	6
Venezuela	-	-	-	-	-	-	-	-	14,742	491	-	491
Non-OPEC	625	51	60	234	-	306	22	13,801	53,932	1,338	460	1,798
Argentina	-	-	-	226	-	-	-	226	226	-	8	8
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	239	239	-	8	8
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	3	-	656	656	-	22	22
Brazil	-	-	-	-	-	-	-	518	2,643	71	17	88
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	26	-	-	-	-	-	803	11,239	348	27	375
Chad	-	-	-	-	-	-	-	-	2,809	94	-	94
China	-	-	48	-	-	-	-	48	48	-	2	2
Colombia	-	-	-	-	-	-	-	-	2,587	86	-	86
Congo (Brazzaville)	-	-	-	-	-	-	-	-	523	17	-	17
Denmark	-	-	-	-	-	-	-	519	519	-	17	17
Egypt	-	-	-	-	-	-	-	125	125	-	4	4
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	162	-	162	162	-	5	5
France	-	25	-	-	-	-	-	625	625	-	21	21
Germany	-	-	-	-	-	6	-	69	69	-	2	2
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	2	-	3	3	-	0	0
Korea, South	-	-	-	-	-	52	-	196	196	-	7	7
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	12	-	-	-	-	12	12	-	0	0
Mexico	245	-	-	-	-	-	-	1,059	22,215	705	35	741
Netherlands	-	-	-	-	-	-	22	948	948	-	32	32
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	67	-	67	67	-	2	2
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	5,724	5,724	-	191	191
Spain	-	-	-	-	-	-	-	288	288	-	10	10
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	32	-	-	8	-	14	-	400	895	17	13	30
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	348	0	0	0	-	0	0	1,114	1,114	0	37	36
Total	625	51	60	234	-	1,058	22	17,742	103,022	2,843	591	3,434
Persian Gulf³	-	-	-	-	-	752	-	752	30,016	975	25	1,001

- = No Data Reported.

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."

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.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	7,572	430	-	-	-	-	-	-	13	13
Canada	7,572	430	-	-	-	-	-	-	13	13
Other	0	0	-	-	-	-	-	-	0	0
Total	7,572	430	-	-	-	-	-	-	13	13
PAD District 5										
OPEC	17,268	-	-	547	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	1,533	-	-	-	-	-	-	-	-	-
Ecuador	4,781	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	2,277	-	-	-	-	-	-	-	-	-
Kuwait	2,065	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	6,092	-	-	-	-	-	-	-	-	-
United Arab Emirates	123	-	-	547	-	-	-	-	-	-
Venezuela	397	-	-	-	-	-	-	-	-	-
Non-OPEC	19,932	1,354	1	4,366	-	44	44	-	472	472
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	2,539	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	6,515	1,298	1	-	-	44	44	-	455	455
China	-	-	-	-	-	-	-	-	-	-
Colombia	5,083	-	-	420	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	1,317	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Korea, South	-	56	-	-	-	-	-	-	-	-
Malaysia	-	-	-	930	-	-	-	-	17	17
Mexico	2,982	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	372	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	302	-	-	-	-	-	-
Singapore	-	-	-	46	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	1,124	0	0	2,668	-	0	0	-	0	0
Total	37,200	1,354	1	4,913	-	44	44	-	472	472
Persian Gulf ³	10,557	-	-	547	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, November 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	5	-	-	85	-	-	-	85
Canada	-	-	-	5	-	-	85	-	-	-	85
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	5	-	-	85	-	-	-	85
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	496	34	345	-	443	-	-	-	443
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	496	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	34	-	-	443	-	-	-	443
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	345	-	0	-	-	-	0
Total	-	-	496	34	345	-	443	-	-	-	443
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, November 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	2,992	-	-	193	1,721	1,914
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	1	-	-	-	-	193	86	279
China	-	-	-	719	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	611	-	-	-	-	-
Korea, South	-	-	-	1,662	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	1,291	1,291
Singapore	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	0	344	344
Total	-	1	-	2,992	-	-	193	1,721	1,914
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, November 2017
(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	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	25	-	1	559	8,131	252	19	271
Canada	-	-	-	-	25	-	1	559	8,131	252	19	271
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	25	-	1	559	8,131	252	19	271
PAD District 5												
OPEC	-	-	-	-	-	-	-	547	17,815	576	18	594
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	1,533	51	-	51
Ecuador	-	-	-	-	-	-	-	-	4,781	159	-	159
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	2,277	76	-	76
Kuwait	-	-	-	-	-	-	-	-	2,065	69	-	69
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	6,092	203	-	203
United Arab Emirates	-	-	-	-	-	-	-	547	670	4	18	23
Venezuela	-	-	-	-	-	-	-	-	397	13	-	13
Non-OPEC	99	-	40	11	46	6	1	12,665	32,597	664	422	1,087
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	496	3,035	85	17	101
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Canada	23	-	-	11	46	6	1	2,642	9,157	217	88	305
China	-	-	40	-	-	-	-	759	759	-	25	25
Colombia	-	-	-	-	-	-	-	420	5,503	169	14	183
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	1,317	44	-	44
Japan	-	-	-	-	-	-	-	611	611	-	20	20
Korea, South	-	-	-	-	-	-	-	1,718	1,718	-	57	57
Malaysia	-	-	-	-	-	-	-	947	947	-	32	32
Mexico	-	-	-	-	-	-	-	-	2,982	99	-	99
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	372	12	-	12
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	1,593	1,593	-	53	53
Singapore	-	-	-	-	-	-	-	391	391	-	13	13
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	76	-	-	-	-	-	-	76	76	-	3	3
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	0	0	3,012	4,136	38	100	140
Total	99	-	40	11	46	6	1	13,212	50,412	1,240	440	1,680
Persian Gulf ³	-	-	-	-	-	-	-	547	11,104	352	18	370

- = No Data Reported.

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."

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.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	203,479	—	—	6,057	—	56	56	—	13,348	13,348
Algeria	15,854	—	—	5,288	—	—	—	—	—	—
Angola	26,071	—	—	120	—	—	—	—	1,066	1,066
Ecuador	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	22,272	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	13,702	—	—	—	—	—	—	—	—	—
Nigeria	93,720	—	—	649	—	—	—	—	6,487	6,487
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	26,494	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	5,366	—	—	—	—	56	56	—	5,795	5,795
Non-OPEC	113,225	12,163	3,584	15,247	—	8,285	8,285	71,177	96,129	167,306
Argentina	—	—	—	—	—	—	—	—	80	80
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	1,316	—	837	837	856	1,484	2,340
Brazil	10,156	—	—	—	—	—	—	—	1,184	1,184
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	65,726	11,056	3,584	443	—	4,051	4,051	38,353	13,266	51,619
Chad	1,903	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	12,883	—	—	104	—	—	—	—	2,252	2,252
Congo (Brazzaville)	951	—	—	—	—	—	—	—	—	—
Denmark	1,230	—	—	4	—	9	9	36	302	338
Egypt	1,746	—	—	—	—	—	—	—	259	259
Estonia	—	—	—	—	—	—	—	318	1	319
Finland	—	—	—	—	—	—	—	82	2,510	2,592
France	—	—	—	482	—	—	—	4,974	3,530	8,504
Germany	—	—	—	75	—	116	116	158	221	379
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	8	8	529	16,205	16,734
Indonesia	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	327	327	269	3,266	3,535
Korea, South	—	—	—	—	—	—	—	—	1,461	1,461
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	222	495	717
Malaysia	—	—	—	—	—	—	—	—	175	175
Mexico	1,839	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	744	—	477	477	3,293	5,481	8,774
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	12,033	596	—	153	—	236	236	1,263	2,910	4,173
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	124	—	307	307	1,142	6,614	7,756
Russia	2,110	—	—	5,917	—	36	36	464	13,756	14,220
Spain	—	—	—	2,565	—	114	114	86	9,959	10,045
Sweden	—	511	—	709	—	271	271	128	1,097	1,225
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	2	2	—	480	480
United Kingdom	645	—	—	366	—	1,494	1,494	18,973	5,612	24,585
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	2,003	0	0	2,245	—	0	0	31	3,529	3,560
Total	316,704	12,163	3,584	21,304	—	8,341	8,341	71,177	109,477	180,654
Persian Gulf³	48,766	—	—	—	—	—	—	—	—	—

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-November 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
OPEC	-	-	-	-	-	-	323	-	319	-	642
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	323	-	-	-	323
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	319	-	319
Non-OPEC	-	-	100	5,852	-	-	25,173	428	10,229	275	36,105
Argentina	-	-	-	5,204	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	389	-	389
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	100	-	-	-	-	-	276	-	276
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	526	-	-	21,652	428	8,807	275	31,162
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	4	-	-	-	4
Colombia	-	-	-	-	-	-	183	-	70	-	253
Congo (Brazzaville)	-	-	-	-	-	-	-	-	205	-	205
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	122	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	3,259	-	-	-	3,259
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	75	-	-	-	75
Mexico	-	-	-	-	-	-	-	-	100	-	100
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	31	-	31
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	351	-	351
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	-	-	0	0	0	0	0
Total	-	-	100	5,852	-	-	25,496	428	10,548	275	36,747
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

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-November 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	5,705	—	432	612	2,662	3,706
Algeria	—	—	—	7	—	347	—	—	347
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	10	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	3	—	—	—	—	—
Kuwait	—	—	—	181	—	—	—	—	—
Libya	—	—	—	—	—	85	612	—	697
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	586	—	—	—	—	—
United Arab Emirates	—	—	—	279	—	—	—	—	—
Venezuela	—	—	—	4,639	—	—	—	2,662	2,662
Non-OPEC	1,112	45	—	16,063	—	777	3,044	18,181	22,002
Argentina	—	—	—	—	—	—	261	—	261
Aruba	—	—	—	151	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	43	—	—	—	89	89
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	13	—	—	—	54	54
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	11	—	6,644	—	85	408	7,918	8,411
Chad	—	—	—	6	—	—	—	—	—
China	168	—	—	262	—	—	—	—	—
Colombia	—	—	—	—	—	240	406	1,555	2,201
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	46	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	2,447	—	—	—	1	1
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	5,303	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	351	—	—	—	—	—
Mexico	—	—	—	—	—	—	137	1,260	1,397
Netherlands	—	34	—	—	—	—	—	137	137
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	8	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	276	—	256	460	1,934	2,650
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	270	270
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	321	4,584	4,905
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	944	0	—	513	—	196	1,051	379	1,626
Total	1,112	45	—	21,768	—	1,209	3,656	20,843	25,708
Persian Gulf³	—	—	—	1,049	—	—	—	—	—

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-November 2017
(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	138	—	—	192	1,067	498	—	31,409	234,888	609	94	703
Algeria	—	—	—	—	—	387	—	6,029	21,883	47	18	66
Angola	—	—	—	—	—	—	—	1,186	27,257	78	4	82
Ecuador	—	—	—	—	—	—	—	10	10	—	0	0
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	3	22,275	67	0	67
Kuwait	—	—	—	—	—	—	—	181	181	—	1	1
Libya	—	—	—	—	—	—	—	697	14,399	41	2	43
Nigeria	138	—	—	—	—	—	—	7,597	101,317	281	23	303
Qatar	—	—	—	—	—	15	—	15	15	—	0	0
Saudi Arabia	—	—	—	—	—	—	—	586	27,080	79	2	81
United Arab Emirates	—	—	—	—	—	96	—	375	375	—	1	1
Venezuela	—	—	—	192	1,067	—	—	14,730	20,096	16	44	60
Non-OPEC	163	—	836	25	7,705	1,869	—	298,464	411,689	339	894	1,233
Argentina	—	—	—	—	—	8	—	5,553	5,553	—	17	17
Aruba	—	—	—	—	—	—	—	151	151	—	0	0
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	66	—	—	587	587	—	2	2
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	78	—	4,571	4,571	—	14	14
Brazil	—	—	84	—	—	—	—	1,711	11,867	30	5	36
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	577	6	5,954	1,188	—	125,232	190,958	197	375	572
Chad	—	—	—	—	—	—	—	6	1,909	6	0	6
China	—	—	130	—	—	—	—	564	564	—	2	2
Colombia	—	—	—	—	—	—	—	4,810	17,693	39	14	53
Congo (Brazzaville)	—	—	—	—	—	—	—	205	1,156	3	1	3
Denmark	—	—	—	—	—	—	—	351	1,581	4	1	5
Egypt	—	—	—	—	—	—	—	305	2,051	5	1	6
Estonia	—	—	—	—	—	—	—	319	319	—	1	1
Finland	—	—	—	—	—	—	—	2,592	2,592	—	8	8
France	—	—	—	—	—	65	—	9,051	9,051	—	27	27
Germany	—	—	16	—	1	108	—	817	817	—	2	2
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	22,449	22,449	—	67	67
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	26	—	3,888	3,888	—	12	12
Korea, South	—	—	3	—	—	316	—	7,083	7,083	—	21	21
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	717	717	—	2	2
Malaysia	—	—	6	—	—	—	—	607	607	—	2	2
Mexico	—	—	—	—	—	—	—	1,497	3,336	6	4	10
Netherlands	—	—	1	—	—	—	—	10,167	10,167	—	30	30
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	5,166	17,199	36	15	51
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	8,187	8,187	—	25	25
Russia	—	—	—	—	—	53	—	23,185	25,295	6	69	76
Spain	—	—	8	—	1,532	—	—	14,264	14,264	—	43	43
Sweden	—	—	—	—	—	19	—	3,005	3,005	—	9	9
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	5,738	5,738	—	17	17
United Kingdom	12	—	—	—	—	5	—	26,462	27,107	2	79	81
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	151	—	11	19	152	3	—	9,224	11,227	5	29	33
Total	301	—	836	217	8,772	2,367	—	329,873	646,577	948	988	1,936
Persian Gulf³	—	—	—	—	—	111	—	1,160	49,926	146	3	149

— = No Data Reported.

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."

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.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	9,403	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	9,352	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	51	-	-	-	-	-	-	-	-	-
Non-OPEC	777,509	22,498	4,642	-	-	-	-	258	2,997	3,255
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	776,511	22,498	4,642	-	-	-	-	258	2,997	3,255
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	998	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	0	0	0
Total	786,912	22,498	4,642	-	-	-	-	258	2,997	3,255
Persian Gulf³	9,352	-	-	-	-	-	-	-	-	-

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-November 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	403	-	-	413	-	12	62	487
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	403	-	-	413	-	12	62	487
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	403	-	-	413	-	12	62	487
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

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-November 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	5	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	5	-	-	-	-	-
Non-OPEC	-	24	-	-	495	-	435	413	848
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	24	-	-	495	-	435	413	848
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	0	-	0	0	0
Total	-	24	-	5	495	-	435	413	848
Persian Gulf³	-	-	-	-	-	-	-	-	-

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-November 2017
(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	-	-	-	-	-	4	-	9	9,412	28	0	28
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	4	-	4	4	-	0	0
Saudi Arabia	-	-	-	-	-	-	-	-	9,352	28	-	28
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	5	56	0	0	0
Non-OPEC	810	805	74	251	2,621	2,119	4	39,451	816,960	2,328	118	2,446
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	810	805	74	241	2,621	2,116	4	39,438	815,949	2,325	118	2,443
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	1	-	1	-	2	2	-	0	0
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	1	-	1	1	-	0	0
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	998	3	-	3
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	9	-	1	-	10	10	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	0	0	0	0	0	0
Total	810	805	74	251	2,621	2,123	4	39,460	826,372	2,356	118	2,474
Persian Gulf ³	-	-	-	-	-	4	-	4	9,356	28	0	28

- = No Data Reported.

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."

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.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	612,632	199	-	34,757	-	-	-	-	289	289
Algeria	7,133	-	-	28,823	-	-	-	-	-	-
Angola	5,483	-	-	740	-	-	-	-	-	-
Ecuador	4,808	-	-	-	-	-	-	-	-	-
Equatorial Guinea	2,281	-	-	-	-	-	-	-	-	-
Gabon	1,581	-	-	641	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	154,390	-	-	1,123	-	-	-	-	-	-
Kuwait	27,710	-	-	-	-	-	-	-	-	-
Libya	1,239	-	-	997	-	-	-	-	-	-
Nigeria	7,881	-	-	730	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	193,214	-	-	501	-	-	-	-	-	-
United Arab Emirates	540	-	-	591	-	-	-	-	-	-
Venezuela	206,372	199	-	611	-	-	-	-	289	289
Non-OPEC	428,410	2,534	1,376	110,471	-	1,187	1,187	-	13,350	13,350
Argentina	-	-	-	106	-	-	-	-	810	810
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	275	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	43	10,411	-	-	-	-	904	904
Brazil	38,261	-	-	897	-	-	-	-	394	394
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	219	-	-	-	-	-	-
Canada	127,272	14	-	520	-	-	-	-	71	71
Chad	7,057	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	54,616	-	-	415	-	-	-	-	228	228
Congo (Brazzaville)	523	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	1,501	-	-	-	-	-	-
Egypt	447	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	126	-	308	308	-	-	-
France	-	-	-	2,240	-	-	-	-	437	437
Germany	-	-	-	547	-	91	91	-	-	-
Guatemala	2,956	-	-	-	-	-	-	-	-	-
India	-	-	-	2,958	-	-	-	-	2,126	2,126
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	891	-	-	-	-	626	626
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	103	-	-	-	-	643	643
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	184,233	1,171	235	109	-	116	116	-	1,503	1,503
Netherlands	-	-	-	5,688	-	47	47	-	1,661	1,661
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	1,496	396	-	6,746	-	-	-	-	22	22
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	279	279
Russia	-	-	-	65,512	-	22	22	-	306	306
Spain	-	-	-	1,523	-	-	-	-	1,339	1,339
Sweden	-	-	-	601	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,112	-	-	711	-	-	-	-	270	270
United Kingdom	6,342	233	-	1,282	-	20	20	-	680	680
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2,514	720	1,098	6,449	-	583	583	-	1,051	1,051
Total	1,041,042	2,733	1,376	145,228	-	1,187	1,187	-	13,639	13,639
Persian Gulf³	375,854	-	-	2,215	-	-	-	-	-	-

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-November 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
OPEC	-	-	-	-	-	-	-	-	101	-	101
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	101	-	101
Non-OPEC	1,993	1,554	-	1,716	-	-	-	-	2,413	864	3,277
Argentina	215	-	-	1,716	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	234	-	-	-	-	-	-	-	422	260	682
Brazil	467	1,453	-	-	-	-	-	-	555	-	555
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	325	-	325
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	115	115
Germany	161	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	100	114	214
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	850	101	-	-	-	-	-	-	44	-	44
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	612	375	987
Spain	-	-	-	-	-	-	-	-	162	-	162
Sweden	-	-	-	-	-	-	-	-	19	-	19
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	66	-	-	-	-	-	-	-	4	-	4
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	-	-	170	0	170
Total	1,993	1,554	-	1,716	-	-	-	-	2,514	864	3,378
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

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-November 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	37	575	-	1,316	1,891
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	37	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	575	-	1,316	1,891
Non-OPEC	-	-	-	125	4,254	2,002	1,594	15,925	19,521
Argentina	-	-	-	-	-	456	-	-	456
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	67	-	-	120	120
Brazil	-	-	-	-	218	105	469	-	574
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	1,169	150	-	-	150
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	311	-	311
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	125	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	41	-	-	272	272
Germany	-	-	-	-	57	-	-	1	1
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	81	170	251
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	37	-	-	-	-
Korea, South	-	-	-	-	1,010	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	334	640	302	12,650	13,592
Netherlands	-	-	-	-	65	-	-	402	402
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	14	-	-	-	-
Russia	-	-	-	-	-	651	22	2,303	2,976
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	4	4
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	3	3
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	1,242	0	409	0	409
Total	-	-	-	125	4,291	2,577	1,594	17,241	21,412
Persian Gulf³	-	-	-	-	37	-	-	-	-

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-November 2017
(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	326	—	—	—	—	2,521	—	40,121	652,753	1,834	120	1,954
Algeria	326	—	—	—	—	—	—	29,149	36,282	21	87	109
Angola	—	—	—	—	—	—	—	740	6,223	16	2	19
Ecuador	—	—	—	—	—	—	—	—	4,808	14	—	14
Equatorial Guinea	—	—	—	—	—	—	—	—	2,281	7	—	7
Gabon	—	—	—	—	—	—	—	641	2,222	5	2	7
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,123	155,513	462	3	466
Kuwait	—	—	—	—	—	—	—	—	27,710	83	—	83
Libya	—	—	—	—	—	—	—	997	2,236	4	3	7
Nigeria	—	—	—	—	—	—	—	730	8,611	24	2	26
Qatar	—	—	—	—	—	1,946	—	1,946	1,946	—	6	6
Saudi Arabia	—	—	—	—	—	22	—	560	193,774	578	2	580
United Arab Emirates	—	—	—	—	—	553	—	1,144	1,684	2	3	5
Venezuela	—	—	—	—	—	—	—	3,091	209,463	618	9	627
Non-OPEC	9,074	3,396	358	2,400	—	6,208	42	182,948	611,358	1,283	548	1,830
Argentina	—	310	—	1,287	—	10	—	4,910	4,910	—	15	15
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	275	275	—	1	1
Bahrain	—	—	—	—	—	665	—	665	665	—	2	2
Belgium	2	—	—	—	—	48	—	12,511	12,511	—	37	37
Brazil	—	—	—	145	—	23	—	4,741	43,002	115	14	129
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	219	219	—	1	1
Canada	—	26	—	—	—	—	—	2,275	129,547	381	7	388
Chad	—	—	—	—	—	—	—	—	7,057	21	—	21
China	—	—	148	114	—	—	—	262	262	—	1	1
Colombia	1,770	—	—	202	—	—	—	2,986	57,602	164	9	172
Congo (Brazzaville)	—	—	—	—	—	—	—	—	523	2	—	2
Denmark	—	—	—	—	—	—	—	1,501	1,501	—	4	4
Egypt	—	—	—	—	—	—	—	125	572	1	0	2
Estonia	—	—	—	171	—	—	—	171	171	—	1	1
Finland	—	—	—	—	—	244	—	678	678	—	2	2
France	44	213	—	—	—	95	—	3,457	3,457	—	10	10
Germany	15	—	—	—	—	230	—	1,110	1,110	—	3	3
Guatemala	—	—	—	—	—	—	—	—	2,956	9	—	9
India	—	—	—	—	—	—	—	5,549	5,549	—	17	17
Indonesia	—	—	—	—	—	636	—	636	636	—	2	2
Italy	14	—	8	—	—	171	—	1,759	1,759	—	5	5
Korea, South	—	—	—	—	—	3,636	—	4,646	4,646	—	14	14
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	746	746	—	2	2
Malaysia	—	—	143	—	—	44	—	187	187	—	1	1
Mexico	3,143	—	—	—	—	—	—	20,203	204,436	552	60	612
Netherlands	151	—	—	—	—	—	42	9,108	9,108	—	27	27
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	2,663	—	—	—	—	—	9,827	11,323	4	29	34
Oman	—	—	—	—	—	132	—	132	132	—	0	0
Portugal	—	—	—	—	—	—	—	293	293	—	1	1
Russia	167	—	—	—	—	37	—	70,007	70,007	—	210	210
Spain	—	—	—	—	—	—	—	3,024	3,024	—	9	9
Sweden	—	—	—	—	—	5	—	629	629	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	981	2,093	3	3	6
United Kingdom	491	—	—	203	—	166	—	3,148	9,490	19	9	28
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	3,277	184	59	278	—	66	0	15,546	18,060	7	48	53
Total	9,400	3,396	358	2,400	—	8,729	42	223,069	1,264,111	3,117	668	3,785
Persian Gulf³	—	—	—	—	—	3,186	—	5,438	381,292	1,125	16	1,142

— = No Data Reported.

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."

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.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-November 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	91,096	3,619	-	-	-	-	-	-	358	358
Canada	91,096	3,619	-	-	-	-	-	-	358	358
Other	0	0	-	-	-	-	-	-	0	0
Total	91,096	3,619	-	-	-	-	-	-	358	358
PAD District 5										
OPEC	228,467	-	-	9,541	-	-	-	-	-	-
Algeria	-	-	-	6,071	-	-	-	-	-	-
Angola	10,307	-	-	-	-	-	-	-	-	-
Ecuador	62,783	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	24,372	-	-	-	-	-	-	-	-	-
Kuwait	22,529	-	-	-	-	-	-	-	-	-
Libya	4,170	-	-	685	-	-	-	-	-	-
Nigeria	2,137	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	93,709	-	-	-	-	-	-	-	-	-
United Arab Emirates	6,016	-	-	2,785	-	-	-	-	-	-
Venezuela	397	-	-	-	-	-	-	-	-	-
Non-OPEC	182,321	11,514	1	31,729	-	1,196	1,196	268	10,035	10,303
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	648	-	-	-	-	-	-	-	-	-
Brazil	19,910	-	-	51	-	-	-	-	-	-
Brunei	245	-	-	-	-	-	-	-	-	-
Canada	74,752	10,850	1	1,763	-	694	694	-	5,211	5,211
China	-	-	-	-	-	-	-	-	-	-
Colombia	44,019	-	-	1,500	-	-	-	-	218	218
Finland	-	-	-	98	-	-	-	-	-	-
Germany	-	-	-	215	-	-	-	-	24	24
Indonesia	5,185	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	608	608
Korea, South	-	56	-	-	-	225	225	-	1,237	1,237
Malaysia	-	-	-	1,666	-	-	-	-	70	70
Mexico	12,225	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	59	-	43	43	-	643	643
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	3,329	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	635	-	-	1,911	-	-	-	-	-	-
Singapore	-	-	-	874	-	-	-	-	173	173
Sweden	-	-	-	112	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	719	719
United Kingdom	-	-	-	-	-	25	25	268	957	1,225
Vietnam	453	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	20,920	608	0	23,480	-	209	209	0	175	175
Total	410,788	11,514	1	41,270	-	1,196	1,196	268	10,035	10,303
Persian Gulf³	146,626	-	-	2,785	-	-	-	-	-	-

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-November 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	49	-	-	523	-	-	-	523
Canada	-	-	-	49	-	-	523	-	-	-	523
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	49	-	-	523	-	-	-	523
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	1,724	850	4,430	-	4,232	-	98	-	4,330
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	1,724	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	767	220	-	2,959	-	98	-	3,057
China	-	-	-	-	-	-	498	-	-	-	498
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	299	-	-	-	299
Korea, South	-	-	-	54	-	-	476	-	-	-	476
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	29	4,210	-	0	-	0	-	0
Total	-	-	1,724	850	4,430	-	4,232	-	98	-	4,330
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-November 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	106	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	98	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	9	-	50	-	-	-	-	-
Canada	-	9	-	-	-	-	-	-	-
Other	-	0	-	50	-	-	-	-	-
Total	-	9	-	156	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	44	-	-	-	174	174
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	174	174
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	43	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	1	-	-	-	-	-
Non-OPEC	55	21	-	32,031	45	-	1,350	13,288	14,638
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	21	-	9	-	-	860	1,063	1,923
China	-	-	-	4,347	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	5,486	-	-	-	-	-
Korea, South	55	-	-	22,157	45	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	270	3,762	4,032
Netherlands	-	-	-	-	-	-	-	962	962
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	220	3,786	4,006
Singapore	-	-	-	-	-	-	-	947	947
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	0	0	-	32	0	-	0	2,768	2,768
Total	55	21	-	32,075	45	-	1,350	13,462	14,812
Persian Gulf ³	-	-	-	43	-	-	-	-	-

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-November 2017
(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	-	-	-	-	-	-	-	106	106	-	0	0
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	98	98	-	0	0
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	442	-	12	5,062	96,158	273	15	288
Canada	-	-	-	-	442	-	12	5,012	96,108	273	15	288
Other	-	-	-	-	0	-	0	50	50	0	0	0
Total	-	-	-	-	442	-	12	5,168	96,264	273	15	288
PAD District 5												
OPEC	-	-	-	-	-	-	-	9,759	238,226	684	29	713
Algeria	-	-	-	-	-	-	-	6,071	6,071	-	18	18
Angola	-	-	-	-	-	-	-	-	10,307	31	-	31
Ecuador	-	-	-	-	-	-	-	174	62,957	188	1	188
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	24,372	73	-	73
Kuwait	-	-	-	-	-	-	-	-	22,529	67	-	67
Libya	-	-	-	-	-	-	-	685	4,855	12	2	15
Nigeria	-	-	-	-	-	-	-	-	2,137	6	-	6
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	43	93,752	281	0	281
United Arab Emirates	-	-	-	-	-	-	-	2,785	8,801	18	8	26
Venezuela	-	-	-	-	-	-	-	1	398	1	0	1
Non-OPEC	410	32	373	296	991	529	3	115,501	297,822	546	346	892
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	648	2	-	2
Brazil	-	-	-	-	-	-	-	1,775	21,685	60	5	65
Brunei	-	-	-	-	-	-	-	-	245	1	-	1
Canada	23	-	1	296	710	63	3	25,612	100,364	224	77	300
China	-	-	285	-	-	-	-	5,130	5,130	-	15	15
Colombia	-	-	-	-	1	-	-	1,719	45,738	132	5	137
Finland	-	-	-	-	-	-	-	98	98	-	0	0
Germany	-	-	-	-	-	-	-	239	239	-	1	1
Indonesia	-	-	-	-	-	-	-	-	5,185	16	-	16
Japan	-	-	84	-	-	2	-	6,479	6,479	-	19	19
Korea, South	36	-	-	-	-	96	-	24,437	24,437	-	73	73
Malaysia	-	-	3	-	209	-	-	1,948	1,948	-	6	6
Mexico	-	-	-	-	-	-	-	4,032	16,257	37	12	49
Netherlands	-	-	-	-	-	-	-	1,707	1,707	-	5	5
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	3,329	10	-	10
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	5,917	6,552	2	18	20
Singapore	-	-	-	-	-	-	-	6,204	6,204	-	19	19
Sweden	-	-	-	-	-	-	-	112	112	-	0	0
Taiwan	306	-	-	-	-	-	-	1,025	1,025	-	3	3
United Kingdom	-	-	-	-	-	-	-	1,250	1,250	-	4	4
Vietnam	-	-	-	-	-	-	-	-	453	1	-	1
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	45	32	0	0	71	368	0	27,817	48,737	61	84	146
Total	410	32	373	296	991	529	3	125,260	536,048	1,230	375	1,605
Persian Gulf³	-	-	-	-	-	-	-	2,828	149,454	439	8	447

- = No Data Reported.

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."

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.

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, November 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	0	5,177	40,811	34	-	46,022	1,534
Hydrocarbon Gas Liquids	2,545	6,186	35,048	72	1,432	45,283	1,509
Natural Gas Liquids	2,545	6,186	35,048	72	1,432	45,283	1,509
Ethane	1,129	1,473	4,836	-	-	7,438	248
Propane	1,258	154	25,576	0	1,060	28,047	935
Normal Butane	67	290	4,563	-	369	5,290	176
Isobutane	0	0	56	-	0	57	2
Natural Gasoline	90	4,269	17	72	2	4,450	148
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	42	2,644	13,693	1	859	17,238	575
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	17	580	4,189	1	174	4,961	165
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	2	0	2,270	0	2	2,274	76
Methyl Tertiary Butyl Ether (MTBE)	0	-	1,284	-	0	1,284	43
Other Oxygenates	2	0	986	0	2	990	33
Renewable Fuels (including Fuel Ethanol) ...	15	580	1,919	0	172	2,686	90
Fuel Ethanol	8	571	1,908	-	161	2,648	88
Biomass-Based Diesel	7	9	11	0	11	38	1
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	22	1,725	6,517	-	375	8,639	288
Naphthas and Lighter	5	1,721	6,396	-	370	8,492	283
Kerosene and Light Gas Oils	17	4	121	-	6	147	5
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	3	339	2,987	-	310	3,638	121
Reformulated	0	0	7	-	1	8	0
Conventional	3	339	2,980	-	309	3,631	121
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	2,643	1,891	88,081	32	13,557	106,204	3,540
Finished Motor Gasoline	20	271	28,543	-	4,297	33,131	1,104
Reformulated	-	-	-	-	-	-	-
Conventional	20	271	28,543	-	4,297	33,131	1,104
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	12	477	4,466	-	663	5,618	187
Kerosene	7	99	508	-	5	619	21
Distillate Fuel Oil	196	281	36,205	-	4,146	40,829	1,361
15 ppm sulfur and under	10	1	31,543	-	2,249	33,803	1,127
Greater than 15 ppm to 500 ppm sulfur	186	64	3,500	-	206	3,957	132
Greater than 500 ppm sulfur	0	216	1,162	-	1,690	3,069	102
Residual Fuel Oil	1,170	314	4,474	17	390	6,366	212
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	188	242	2,163	12	347	2,953	98
Waxes	67	32	31	0	6	136	5
Petroleum Coke	902	77	10,922	-	3,672	15,573	519
Asphalt and Road Oil	68	97	760	3	30	958	32
Miscellaneous Products	12	1	8	0	0	22	1
Total	5,231	15,898	177,633	138	15,847	214,747	7,158

- = 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-November 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	4,004	63,049	288,617	830	4,533	361,034	1,081
Hydrocarbon Gas Liquids	39,432	71,220	334,012	2,601	14,212	461,477	1,382
Natural Gas Liquids	39,432	71,220	334,012	2,601	14,212	461,477	1,382
Ethane	12,576	18,495	27,569	-	1	58,640	176
Propane	16,551	2,448	270,629	2	10,361	299,144	896
Normal Butane	1,599	3,613	35,061	204	3,785	44,128	132
Isobutane	9	3	1,350	-	0	1,358	4
Natural Gasoline	8,702	46,679	321	2,396	108	58,207	174
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	12,259	21,626	121,707	99	6,461	162,152	485
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	864	7,914	42,774	24	2,070	53,646	161
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	14	7	22,721	0	20	22,762	68
Methyl Tertiary Butyl Ether (MTBE)	1	0	12,511	-	0	12,512	37
Other Oxygenates	13	7	10,210	0	20	10,249	31
Renewable Fuels (including Fuel Ethanol) ...	851	7,907	20,053	24	2,050	30,884	92
Fuel Ethanol	765	6,720	19,385	0	1,831	28,701	86
Biomass-Based Diesel	85	1,187	668	23	219	2,183	7
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	10,976	12,615	58,011	74	1,750	83,425	250
Naphthas and Lighter	10,466	12,548	51,748	73	1,692	76,527	229
Kerosene and Light Gas Oils	511	66	6,263	1	58	6,898	21
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	419	1,097	20,922	1	2,641	25,081	75
Reformulated	5	0	74	-	9	88	0
Conventional	414	1,097	20,849	1	2,632	24,992	75
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	55,884	16,666	916,488	410	114,947	1,104,394	3,307
Finished Motor Gasoline	2,966	1,890	215,769	8	19,098	239,731	718
Reformulated	-	-	-	-	-	-	-
Conventional	2,966	1,890	215,769	8	19,098	239,731	718
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	1,161	2,371	49,284	-	9,651	62,467	187
Kerosene	651	317	1,115	-	36	2,119	6
Distillate Fuel Oil	24,482	2,755	398,108	-	33,328	458,673	1,373
15 ppm sulfur and under	21,022	12	346,321	-	20,168	387,523	1,160
Greater than 15 ppm to 500 ppm sulfur	3,357	1,140	32,261	-	2,465	39,223	117
Greater than 500 ppm sulfur	103	1,603	19,526	-	10,694	31,926	96
Residual Fuel Oil	14,949	3,131	74,480	207	6,134	98,901	296
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	2,253	2,109	29,831	127	3,130	37,449	112
Waxes	758	293	262	1	66	1,380	4
Petroleum Coke	7,687	2,418	143,782	1	43,176	197,063	590
Asphalt and Road Oil	847	1,374	3,631	65	326	6,244	19
Miscellaneous Products	130	8	226	0	3	368	1
Total	111,579	172,562	1,660,824	3,940	140,152	2,089,057	6,255

- = 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, November 2017
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	579	—	—	0	—	31	31	—	0	0
Australia	—	0	—	0	—	—	—	0	0	1
Bahamas	—	33	—	—	—	130	130	—	—	—
Bahrain	—	—	—	—	—	1	1	—	—	—
Belgium	—	—	—	4	—	—	—	—	—	—
Belize	—	—	—	—	—	43	43	—	—	—
Brazil	760	2,560	—	859	—	1,489	1,489	—	0	0
Canada	12,036	6,504	—	1,929	—	2,087	2,087	—	1,496	1,496
Cayman Islands	—	26	—	—	—	20	20	0	—	0
Chile	—	811	—	159	—	723	723	—	0	0
China	10,004	3,940	—	958	—	7	7	—	230	230
Colombia	—	28	—	1,130	—	0	0	—	0	0
Costa Rica	—	—	—	—	—	638	638	—	318	318
Denmark	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	1,310	—	16	—	372	372	—	271	271
Ecuador	—	525	—	0	—	1,047	1,047	—	—	—
Egypt	—	—	—	—	—	0	0	—	—	—
El Salvador	—	205	—	0	—	533	533	—	0	0
Finland	—	—	—	—	—	—	—	—	—	—
France	1,705	557	—	34	—	—	—	—	—	—
Germany	—	—	—	4	—	—	—	0	—	0
Ghana	—	—	—	0	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	—	—	—	—	—
Guatemala	—	418	—	0	—	1,756	1,756	—	0	0
Honduras	—	386	—	—	—	381	381	—	0	0
Hong Kong	476	275	—	0	—	—	—	—	—	—
India	—	3,296	—	0	—	—	—	—	—	—
Indonesia	—	1,889	—	0	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—
Israel	—	—	—	3	—	—	—	—	0	0
Italy	1,923	—	—	9	—	—	—	—	—	—
Jamaica	—	53	—	0	—	200	200	—	0	0
Japan	1,131	6,931	—	596	—	0	0	0	3	3
Korea, South	4,245	2,803	—	958	—	150	150	—	0	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	5,050	—	93	—	19,663	19,663	7	1,309	1,315
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,157	—	9	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	2,918	587	—	13	—	474	474	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	0	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	578	578	—	—	—
Nigeria	—	—	—	0	—	—	—	—	—	—
Norway	—	786	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	—	41	—	0	—	893	893	—	0	0
Peru	—	0	—	5	—	796	796	—	—	—
Philippines	—	—	—	1	—	—	—	—	—	—
Portugal	—	682	—	—	—	—	—	—	—	—
Puerto Rico	—	39	—	—	—	4	4	0	1	1
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	6	—	1	1	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	350	1,678	—	619	—	0	0	0	0	0
South Africa	—	—	—	0	—	0	0	—	—	—
Spain	698	—	—	—	—	—	—	—	0	0
Switzerland	—	577	—	—	—	—	—	—	—	—
Taiwan	2,085	—	—	297	—	1	1	—	0	0
Thailand	647	0	—	0	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	—	—	—	—	—	0	0
Turkey	—	150	—	0	—	—	—	—	—	—
United Arab Emirates	—	—	—	0	—	—	—	—	—	—
United Kingdom	6,465	1,206	—	0	—	0	0	—	0	0
Venezuela	—	0	—	936	—	565	565	—	—	—
Other	—	780	—	1	—	548	548	1	3	3
Total	46,022	45,283	—	8,639	—	33,131	33,131	8	3,631	3,638

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2017
(Thousand Barrels) – Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
Argentina	–	–	–	–	–	–	681	–	–	–	681
Australia	0	0	–	–	–	–	0	–	–	–	0
Bahamas	–	1	0	–	–	–	21	–	194	–	215
Bahrain	–	–	–	–	–	–	–	–	–	–	–
Belgium	8	0	26	–	–	–	469	–	–	–	469
Belize	–	–	–	–	–	–	25	–	–	–	25
Brazil	–	–	670	–	–	–	5,303	1,060	9	–	6,372
Canada	–	0	577	20	–	–	1	357	268	–	626
Cayman Islands	–	–	–	–	–	–	38	–	–	–	38
Chile	212	–	0	–	–	–	3,874	287	–	–	4,161
China	–	0	58	–	–	–	2	–	–	–	2
Colombia	–	–	86	–	–	–	465	1	–	–	465
Costa Rica	–	0	0	–	–	–	994	–	–	–	994
Denmark	–	–	–	–	–	–	–	–	–	–	–
Dominican Republic	–	–	1	–	–	–	224	400	101	–	725
Ecuador	–	–	0	–	–	–	1,154	–	–	–	1,154
Egypt	–	–	–	–	–	–	–	–	–	–	–
El Salvador	–	–	–	–	–	–	77	30	–	–	107
Finland	–	–	–	–	–	–	–	–	–	–	–
France	–	0	0	–	–	–	479	–	–	–	479
Germany	–	0	–	2	–	–	320	–	–	–	320
Ghana	–	–	–	–	–	–	–	–	–	–	–
Gibraltar	–	–	–	–	–	–	245	30	–	–	275
Greece	–	–	–	–	–	–	–	–	–	–	–
Guatemala	–	–	–	–	–	–	1,409	414	–	–	1,824
Honduras	–	–	–	–	–	–	446	55	–	–	501
Hong Kong	–	0	0	–	–	–	–	–	–	–	–
India	–	0	368	–	–	–	–	–	–	–	–
Indonesia	–	0	–	–	–	–	–	–	–	–	–
Ireland	–	–	0	–	–	–	–	–	–	–	–
Israel	–	0	1	–	–	–	–	–	–	–	–
Italy	–	–	–	–	–	–	–	–	–	–	–
Jamaica	–	–	66	–	–	–	89	–	243	–	332
Japan	–	987	0	–	–	–	0	–	–	–	0
Korea, South	–	0	84	–	–	–	1	–	35	–	36
Lebanon	–	0	–	–	–	–	0	–	–	–	0
Mexico	491	0	85	1	–	–	9,342	703	38	–	10,084
Montenegro	–	–	–	–	–	–	–	–	–	–	–
Morocco	–	–	–	–	–	–	–	–	–	–	–
Mozambique	–	–	–	–	–	–	–	–	–	–	–
Netherlands	56	0	0	2	–	–	1,305	210	–	–	1,515
Netherlands Antilles	–	–	–	–	–	–	–	–	–	–	–
New Zealand	–	–	–	–	–	–	–	–	–	–	–
Nicaragua	–	–	–	0	–	–	–	30	135	–	165
Nigeria	–	–	98	–	–	–	–	–	–	–	–
Norway	–	0	–	–	–	–	0	–	–	–	0
Pakistan	–	–	–	–	–	–	–	–	–	–	–
Panama	–	–	0	–	–	–	1,340	170	241	–	1,752
Peru	–	0	50	10	–	–	1,548	209	11	–	1,768
Philippines	–	0	235	–	–	–	–	–	–	–	–
Portugal	–	–	–	–	–	–	–	–	–	–	–
Puerto Rico	–	0	95	–	–	–	0	–	–	–	0
Romania	–	–	–	–	–	–	–	–	–	–	–
Saudi Arabia	–	0	64	–	–	–	–	–	–	–	–
Serbia	–	–	–	–	–	–	–	–	–	–	–
Singapore	–	0	7	–	–	–	0	–	953	–	953
South Africa	–	–	–	–	–	–	–	–	–	–	–
Spain	–	–	0	–	–	–	90	–	–	–	90
Switzerland	–	–	75	2	–	–	271	–	–	–	271
Taiwan	0	0	–	–	–	–	–	–	–	–	–
Thailand	–	0	0	–	–	–	–	–	–	–	–
Trinidad and Tobago	–	–	–	–	–	–	–	–	–	–	–
Turkey	–	–	–	–	–	–	0	–	–	–	0
United Arab Emirates	–	–	–	–	–	–	2	–	–	–	2
United Kingdom	–	–	0	–	–	–	1,449	–	0	–	1,449
Venezuela	516	–	–	1	–	–	609	–	–	–	609
Other	1	2	2	–	–	–	1,530	1	841	–	2,370
Total	1,284	990	2,648	38	–	–	33,803	3,957	3,069	–	40,829

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2017
(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	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	19	—	1,069	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	15	—	—	—	—
Brazil	—	—	—	14	—	—	—	—
Canada	404	—	—	1,116	—	1,274	—	—
Cayman Islands	—	—	—	8	—	—	—	—
Chile	—	—	—	790	—	0	—	—
China	0	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—
Costa Rica	—	—	—	185	—	—	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	—	—	293	—	0	—	—
Ecuador	—	—	—	—	—	5	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	—	—	—	81	—	—	—	—
Finland	46	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	531	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	0	—	—	16	—	27	—	—
Honduras	0	—	—	32	—	425	—	—
Hong Kong	—	—	—	0	—	0	—	—
India	—	—	—	—	—	—	—	—
Indonesia	—	—	—	0	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	0	—	—	102	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	52	—	403	—	—
Japan	0	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	0	—	—
Lebanon	—	—	—	—	—	514	—	—
Mexico	1	—	—	1,730	—	307	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	0	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	35	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	—	—	—	523	—	500	—	—
Peru	100	—	—	283	—	—	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	6	—	—	175	—	—	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	559	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	0	—	—
Thailand	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	1	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	350	—	—
Venezuela	—	—	—	22	—	—	—	—
Other	62	—	—	126	—	402	—	—
Total	619	—	—	5,618	—	6,366	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, November 2017
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	—	0	0	120	—	833	1,412	19	28	47
Australia	0	203	84	6	0	294	294	—	10	10
Bahamas	—	—	5	5	—	1,479	1,479	—	49	49
Bahrain	—	—	—	0	—	1	1	—	0	0
Belgium	0	95	0	192	1	797	797	—	27	27
Belize	—	—	—	1	—	84	84	—	3	3
Brazil	1	587	—	129	1	12,682	13,442	25	423	448
Canada	91	929	163	350	6	17,573	29,609	401	586	987
Cayman Islands	—	—	2	1	—	95	95	—	3	3
Chile	1	0	128	96	—	7,081	7,081	—	236	236
China	12	802	2	33	1	6,045	16,049	333	202	535
Colombia	0	0	0	139	0	1,849	1,849	—	62	62
Costa Rica	0	—	83	15	—	2,233	2,233	—	74	74
Denmark	—	—	—	0	—	0	0	—	0	0
Dominican Republic	0	176	66	13	0	3,242	3,242	—	108	108
Ecuador	—	0	0	48	—	2,780	2,780	—	93	93
Egypt	—	301	69	0	—	371	371	—	12	12
El Salvador	—	—	—	7	—	933	933	—	31	31
Finland	—	—	—	1	—	47	47	—	2	2
France	0	160	—	96	—	1,326	3,031	57	44	101
Germany	2	0	0	90	0	418	418	—	14	14
Ghana	—	—	—	0	—	0	0	—	0	0
Gibraltar	—	—	152	—	—	958	958	—	32	32
Greece	—	410	—	1	—	411	411	—	14	14
Guatemala	—	156	—	50	—	4,247	4,247	—	142	142
Honduras	—	—	—	12	—	1,738	1,738	—	58	58
Hong Kong	0	—	0	3	0	278	755	16	9	25
India	1	3,021	1	26	0	6,714	6,714	—	224	224
Indonesia	0	—	1	2	0	1,892	1,892	—	63	63
Ireland	—	165	—	—	—	165	165	—	6	6
Israel	0	—	—	253	—	359	359	—	12	12
Italy	0	464	—	9	—	483	2,406	64	16	80
Jamaica	—	—	—	17	0	1,124	1,124	—	37	37
Japan	1	1,931	0	10	2	10,463	11,594	38	349	386
Korea, South	0	0	2	2	1	4,036	8,280	141	135	276
Lebanon	—	121	—	1	—	636	636	—	21	21
Mexico	23	2,202	137	819	8	42,008	42,008	—	1,400	1,400
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	252	—	—	—	1,418	1,418	—	47	47
Mozambique	—	104	—	—	—	104	104	—	3	3
Netherlands	2	114	1	78	0	2,843	5,761	97	95	192
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	0	—	1	—	2	2	—	0	0
Nicaragua	—	—	—	5	—	784	784	—	26	26
Nigeria	—	—	—	77	—	176	176	—	6	6
Norway	0	56	—	0	—	843	843	—	28	28
Pakistan	—	—	0	0	—	0	0	—	0	0
Panama	—	—	27	25	—	3,761	3,761	—	125	125
Peru	0	—	0	57	0	3,070	3,070	—	102	102
Philippines	0	0	—	1	0	237	237	—	8	8
Portugal	—	—	—	0	—	682	682	—	23	23
Puerto Rico	0	—	0	28	—	349	349	—	12	12
Romania	—	—	—	0	—	0	0	—	0	0
Saudi Arabia	0	1	0	2	—	75	75	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	0	—	25	0	3,842	4,192	12	128	140
South Africa	—	57	0	1	—	59	59	—	2	2
Spain	0	330	—	1	0	421	1,119	23	14	37
Switzerland	—	—	—	0	—	926	926	—	31	31
Taiwan	0	—	1	4	0	302	2,387	69	10	80
Thailand	0	—	0	9	0	10	657	22	0	22
Trinidad and Tobago	—	0	—	4	—	6	6	—	0	0
Turkey	0	2,558	0	30	—	2,738	2,738	—	91	91
United Arab Emirates	—	0	0	5	—	7	7	—	0	0
United Kingdom	0	—	0	1	0	3,007	9,472	216	100	316
Venezuela	—	—	—	2	—	2,652	2,652	—	88	88
Other	2	378	34	50	2	4,735	4,736	1	158	159
Total	136	15,573	958	2,953	22	168,724	214,747	1,534	5,624	7,158

— = 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-November 2017
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	1,955	1	—	630	—	2,155	2,155	—	1	1
Australia	223	5,867	—	3	—	3	3	2	1	3
Bahamas	6,271	254	—	314	—	1,544	1,544	0	2	2
Bahrain	—	—	—	—	—	6	6	1	—	1
Belgium	—	544	—	722	—	422	422	—	1	1
Belize	—	0	—	0	—	713	713	—	0	0
Brazil	4,167	18,922	—	4,974	—	10,876	10,876	—	163	163
Canada	105,549	83,164	—	22,208	—	6,146	6,146	—	5,128	5,128
Cayman Islands	—	43	—	0	—	202	202	0	0	0
Chile	—	8,414	—	1,394	—	3,223	3,223	—	2	2
China	73,446	48,353	—	4,048	—	504	504	0	235	235
Colombia	7,435	216	—	13,505	—	8,286	8,286	—	248	248
Costa Rica	—	1,023	—	38	—	6,480	6,480	—	1,023	1,023
Denmark	683	—	—	0	—	193	193	—	0	0
Dominican Republic	1,285	11,122	—	66	—	3,922	3,922	0	602	602
Ecuador	—	5,092	—	314	—	7,904	7,904	0	507	507
Egypt	—	2,182	—	2	—	0	0	—	—	—
El Salvador	—	2,211	—	5	—	3,900	3,900	—	2	2
Finland	—	—	—	0	—	0	0	0	—	0
France	10,286	3,924	—	858	—	1	1	9	0	10
Germany	545	0	—	46	—	3	3	0	1	1
Ghana	—	1,480	—	0	—	966	966	—	0	0
Gibraltar	295	—	—	—	—	—	—	—	—	—
Greece	—	0	—	—	—	1	1	—	—	—
Guatemala	—	3,971	—	56	—	13,260	13,260	—	201	201
Honduras	—	3,842	—	10	—	3,665	3,665	—	569	569
Hong Kong	3,198	1,426	—	2	—	1	1	—	0	0
India	7,040	19,718	—	25	—	1	1	0	0	1
Indonesia	—	6,742	—	19	—	—	—	0	—	0
Ireland	—	—	—	0	—	1	1	—	—	—
Israel	—	4	—	22	—	8	8	—	0	0
Italy	13,557	235	—	709	—	—	—	—	—	—
Jamaica	—	499	—	0	—	917	917	—	1	1
Japan	9,752	70,471	—	2,923	—	155	155	5	7	12
Korea, South	18,529	31,133	—	2,121	—	611	611	0	1	1
Lebanon	—	—	—	0	—	0	0	—	—	—
Mexico	—	43,863	—	4,674	—	134,219	134,219	66	14,457	14,523
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	3,106	—	64	—	—	—	—	—	—
Mozambique	—	551	—	—	—	—	—	—	—	—
Netherlands	26,421	12,302	—	8,518	—	1,832	1,832	—	34	34
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	5	—	0	—	1	1	0	0	0
Nicaragua	801	0	—	0	—	1,718	1,718	—	0	0
Nigeria	—	—	—	1	—	959	959	—	—	—
Norway	1,350	9,314	—	—	—	1	1	0	—	0
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	1,125	3,124	—	50	—	7,916	7,916	—	198	198
Peru	1,719	513	—	247	—	5,812	5,812	—	246	246
Philippines	—	—	—	2	—	—	—	—	0	0
Portugal	—	2,088	—	—	—	1	1	—	—	—
Puerto Rico	—	89	—	3	—	323	323	1	11	12
Romania	—	—	—	—	—	0	0	—	—	—
Saudi Arabia	—	0	—	36	—	4	4	1	—	1
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	9,668	19,295	—	1,363	—	139	139	0	0	0
South Africa	500	179	—	1	—	299	299	—	0	0
Spain	5,851	3,394	—	0	—	0	0	—	238	238
Switzerland	620	577	—	0	—	458	458	—	0	0
Taiwan	3,133	275	—	1,729	—	4	4	—	234	234
Thailand	3,196	1	—	16	—	—	—	—	0	0
Trinidad and Tobago	568	4	—	43	—	1	1	1	0	1
Turkey	508	3,868	—	0	—	—	—	1	0	1
United Arab Emirates	—	255	—	42	—	2	2	0	0	0
United Kingdom	30,893	12,910	—	157	—	8	8	0	1	1
Venezuela	—	253	—	10,157	—	4,935	4,935	—	577	577
Other	10,465	14,658	—	1,308	—	5,030	5,030	1	301	301
Total	361,034	461,477	—	83,425	—	239,731	239,731	88	24,992	25,081

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2017
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
Argentina	—	0	2	—	—	—	10,969	740	1,301	—	13,011
Australia	0	0	1	—	—	—	319	—	1	—	320
Bahamas	—	3	2	—	—	—	1,321	75	3,391	—	4,787
Bahrain	—	—	0	—	—	—	0	—	—	—	0
Belgium	76	0	74	0	—	—	2,490	278	1,046	—	3,813
Belize	—	—	0	—	—	—	25	148	—	—	173
Brazil	0	0	9,457	2	—	—	64,012	4,876	572	—	69,459
Canada	—	5	7,265	1,901	—	—	10	4,283	2,621	—	6,914
Cayman Islands	—	—	0	—	—	—	1,372	0	0	—	1,372
Chile	2,396	0	2	—	—	—	32,397	287	260	—	32,944
China	0	1	59	0	—	—	283	—	0	—	283
Colombia	—	0	421	—	—	—	6,475	1	—	—	6,476
Costa Rica	—	0	2	—	—	—	8,714	—	0	—	8,714
Denmark	—	—	—	—	—	—	48	125	—	—	173
Dominican Republic	—	—	9	—	—	—	2,618	1,109	628	—	4,354
Ecuador	—	0	0	—	—	—	9,216	2,386	264	—	11,865
Egypt	—	0	1	—	—	—	0	—	—	—	0
El Salvador	—	—	—	—	—	—	760	2,660	0	—	3,420
Finland	—	—	—	—	—	—	300	—	—	—	300
France	—	2	4	—	—	—	18,508	329	363	—	19,199
Germany	0	0	1	11	—	—	1,558	—	—	—	1,558
Ghana	—	—	0	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	5,859	1,856	807	—	8,522
Greece	—	—	1	—	—	—	—	—	—	—	—
Guatemala	—	0	0	—	—	—	13,638	4,451	694	—	18,783
Honduras	—	—	0	—	—	—	2,982	1,603	113	—	4,698
Hong Kong	—	0	1	—	—	—	1	—	—	—	1
India	0	0	3,634	—	—	—	3	—	—	—	3
Indonesia	—	0	0	—	—	—	—	—	—	—	—
Ireland	0	0	1	—	—	—	—	—	—	—	—
Israel	—	0	2	0	—	—	1	—	—	—	1
Italy	—	0	0	4	—	—	1,013	20	—	—	1,033
Jamaica	—	—	479	—	—	—	2,257	75	956	—	3,288
Japan	—	10,209	10	—	—	—	1	—	—	—	1
Korea, South	0	1	811	2	—	—	8	—	851	—	859
Lebanon	—	0	—	—	—	—	0	409	281	—	690
Mexico	8,044	10	653	86	—	—	79,716	1,873	363	—	81,952
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	5,652	—	—	—	5,652
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	56	3	436	12	—	—	25,493	2,240	797	—	28,529
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	0	1	—	—	—	—	—	—	—	—
Nicaragua	—	—	0	4	—	—	268	1,183	566	—	2,017
Nigeria	—	—	492	—	—	—	—	—	—	—	—
Norway	—	0	0	4	—	—	11	—	—	—	11
Pakistan	—	0	0	—	—	—	—	—	—	—	—
Panama	—	0	0	0	—	—	12,478	2,121	886	—	15,485
Peru	—	0	799	134	—	—	22,972	567	415	—	23,954
Philippines	—	0	1,563	—	—	—	0	0	—	—	0
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	2	269	0	—	—	1,568	294	1	—	1,862
Romania	—	—	—	—	—	—	311	—	—	—	311
Saudi Arabia	1	0	105	—	—	—	1	—	—	—	1
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	7	365	3	—	—	6,051	—	5,697	—	11,748
South Africa	—	0	—	0	—	—	1,013	—	—	—	1,013
Spain	—	—	320	1	—	—	3,815	260	555	—	4,630
Switzerland	—	—	174	18	—	—	332	149	—	—	481
Taiwan	0	0	2	—	—	—	1	—	0	—	1
Thailand	—	0	0	—	—	—	2	—	0	—	2
Trinidad and Tobago	—	0	0	0	—	—	1	—	0	—	1
Turkey	—	0	—	—	—	—	376	—	—	—	376
United Arab Emirates	—	0	865	—	—	—	4	—	—	—	4
United Kingdom	—	1	102	—	—	—	12,263	0	423	—	12,686
Venezuela	1,940	0	0	1	—	—	3,712	285	1,064	—	5,061
Other	0	5	316	—	—	—	24,325	4,540	7,010	—	35,882
Total	12,512	10,249	28,701	2,183	—	—	387,523	39,223	31,926	—	458,673

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2017
(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	0	—	—	475	—	37	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	423	—	5,171	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	84	—	—
Belize	0	—	—	25	—	—	—	—
Brazil	0	—	—	1,716	—	445	—	—
Canada	1,209	—	—	12,364	—	12,354	—	—
Cayman Islands	57	—	—	1,534	—	1	—	—
Chile	7	—	—	2,615	—	0	—	—
China	6	—	—	4	—	1,689	—	—
Colombia	4	—	—	847	—	301	—	—
Costa Rica	0	—	—	1,387	—	401	—	—
Denmark	—	—	—	662	—	—	—	—
Dominican Republic	0	—	—	1,979	—	271	—	—
Ecuador	—	—	—	98	—	3,731	—	—
Egypt	—	—	—	—	—	887	—	—
El Salvador	0	—	—	361	—	—	—	—
Finland	189	—	—	307	—	—	—	—
France	48	—	—	942	—	—	—	—
Germany	0	—	—	—	—	2	—	—
Ghana	—	—	—	1	—	—	—	—
Gibraltar	—	—	—	—	—	1,650	—	—
Greece	—	—	—	—	—	0	—	—
Guatemala	97	—	—	1,002	—	1,146	—	—
Honduras	50	—	—	635	—	3,048	—	—
Hong Kong	1	—	—	0	—	0	—	—
India	0	—	—	1	—	0	—	—
Indonesia	—	—	—	0	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	1,427	—	—	—	—
Italy	—	—	—	0	—	—	—	—
Jamaica	0	—	—	1,023	—	3,655	—	—
Japan	1	—	—	1	—	1	—	—
Korea, South	0	—	—	0	—	0	—	—
Lebanon	—	—	—	—	—	5,767	—	—
Mexico	31	—	—	13,599	—	12,420	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	1,165	—	578	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	3	—	—	2,569	—	3,511	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	35	—	0	—	—
Nigeria	—	—	—	0	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	0	—	—
Panama	0	—	—	6,048	—	5,276	—	—
Peru	100	—	—	2,502	—	192	—	—
Philippines	—	—	—	0	—	0	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	7	—	—	176	—	4	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	1	—	—	—	—	0	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	1	—	—	1	—	27,295	—	—
South Africa	—	—	—	304	—	380	—	—
Spain	—	—	—	0	—	0	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	1	—	5	—	—
Thailand	0	—	—	—	—	405	—	—
Trinidad and Tobago	0	—	—	5	—	0	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	3	—	—	1	—	301	—	—
United Kingdom	—	—	—	1,050	—	904	—	—
Venezuela	—	—	—	22	—	648	—	—
Other	303	—	—	5,160	—	6,341	—	—
Total	2,119	—	—	62,467	—	98,901	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-November 2017
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	4	533	259	2,801	0	19,909	21,864	6	60	65
Australia	6	2,164	85	147	1	8,600	8,823	1	26	26
Bahamas	0	—	35	418	0	12,955	19,227	19	39	58
Bahrain	0	—	—	5	—	12	12	—	0	0
Belgium	4	1,852	2	3,471	3	11,069	11,069	—	33	33
Belize	—	—	0	13	—	925	925	—	3	3
Brazil	6	11,575	1	2,647	5	130,249	134,416	12	390	402
Canada	898	6,767	2,166	3,116	43	171,647	277,195	316	514	830
Cayman Islands	—	—	11	16	—	3,235	3,235	—	10	10
Chile	4	0	533	931	1	52,467	52,467	—	157	157
China	103	18,165	37	764	7	74,258	147,705	220	222	442
Colombia	3	2	114	1,051	3	31,475	38,911	22	94	116
Costa Rica	1	659	256	191	0	20,176	20,176	—	60	60
Denmark	0	688	2	204	—	1,922	2,605	2	6	8
Dominican Republic	2	1,025	407	239	1	24,000	25,285	4	72	76
Ecuador	1	1,332	1	503	0	31,348	31,348	—	94	94
Egypt	0	4,273	69	28	0	7,443	7,443	—	22	22
El Salvador	1	427	0	228	—	10,554	10,554	—	32	32
Finland	0	275	0	7	0	1,079	1,079	—	3	3
France	3	1,903	0	842	0	27,735	38,021	31	83	114
Germany	19	311	8	1,065	1	3,025	3,570	2	9	11
Ghana	0	—	—	2	—	2,450	2,450	—	7	7
Gibraltar	—	—	188	1,624	—	11,984	12,279	1	36	37
Greece	0	4,588	1	5	—	4,595	4,595	—	14	14
Guatemala	1	1,932	0	247	—	40,696	40,696	—	122	122
Honduras	0	1,609	136	130	—	18,393	18,393	—	55	55
Hong Kong	5	0	0	28	2	1,467	4,664	10	4	14
India	19	34,241	11	759	2	58,414	65,453	21	175	196
Indonesia	1	0	16	33	1	6,812	6,812	—	20	20
Ireland	0	714	—	1	0	717	717	—	2	2
Israel	1	1,737	—	974	0	4,176	4,176	—	13	13
Italy	2	5,315	1	116	2	7,419	20,976	41	22	63
Jamaica	0	0	1	133	2	9,998	9,998	—	30	30
Japan	12	19,253	5	194	29	103,276	113,028	29	309	338
Korea, South	2	6,039	59	249	6	41,894	60,422	55	125	181
Lebanon	0	1,252	—	13	—	7,721	7,721	—	23	23
Mexico	183	22,364	1,183	7,197	108	345,105	345,105	—	1,033	1,033
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	4,671	—	1	—	15,236	15,236	—	46	46
Mozambique	—	711	—	0	—	1,263	1,263	—	4	4
Netherlands	39	1,817	10	658	11	60,338	86,759	79	181	260
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	557	34	10	0	609	609	—	2	2
Nicaragua	0	—	0	62	—	3,837	4,638	2	11	14
Nigeria	—	—	—	875	—	2,328	2,328	—	7	7
Norway	0	989	1	4	0	10,324	11,675	4	31	35
Pakistan	0	0	1	5	0	7	7	—	0	0
Panama	0	—	213	432	114	38,857	39,982	3	116	120
Peru	1	360	2	719	1	35,582	37,301	5	107	112
Philippines	1	1,126	—	12	2	2,706	2,706	—	8	8
Portugal	0	1,242	—	1	—	3,331	3,331	—	10	10
Puerto Rico	1	0	2	164	0	2,915	2,915	—	9	9
Romania	0	191	—	1	—	503	503	—	2	2
Saudi Arabia	1	547	2	82	0	782	782	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	2	397	0	781	0	61,398	71,066	29	184	213
South Africa	1	368	1	663	—	3,209	3,709	1	10	11
Spain	4	6,322	30	10	0	14,950	20,800	18	45	62
Switzerland	0	—	—	0	0	1,708	2,328	2	5	7
Taiwan	29	233	6	72	1	2,594	5,726	9	8	17
Thailand	1	0	12	49	2	489	3,686	10	1	11
Trinidad and Tobago	0	1	0	81	0	138	706	2	0	2
Turkey	0	18,141	1	211	0	22,599	23,107	2	68	69
United Arab Emirates	0	307	3	422	0	2,206	2,206	—	7	7
United Kingdom	2	885	3	93	0	28,801	59,694	92	86	179
Venezuela	0	259	2	921	0	24,777	24,777	—	74	74
Other	17	6,944	334	728	20	77,337	87,802	31	231	262
Total	1,380	197,063	6,244	37,449	368	1,728,024	2,089,057	1,081	5,174	6,255

— = 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, November 2017
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	2,794	-18	-	107	-	-54	-54	-	45	45
Algeria	-	-	-	120	-	-	-	-	-	-
Angola	69	-	-	-	-	-	-	-	8	8
Ecuador	193	-18	-	0	-	-35	-35	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	611	-	-	-	-	-	-	-	-	-
Kuwait	117	0	-	0	-	-	-	-	-	-
Libya	72	-	-	-	-	-	-	-	-	-
Nigeria	444	-	-	0	-	-	-	-	21	21
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	780	-	-	0	-	0	0	-	-	-
United Arab Emirates	4	-	-	18	-	-	-	-	-	-
Venezuela	505	0	-	-31	-	-19	-19	-	16	16
Non-OPEC	3,296	-1,304	25	259	-	-1,040	-1,040	190	141	331
Argentina	-19	-	-	0	-	-1	-1	-	3	3
Aruba	-	0	-	0	-	-	-	-	-	-
Australia	-	0	-	0	-	-	-	0	0	0
Bahamas	-	-1	-	20	-	-4	-4	-	-	-
Bahrain	-	-	-	-	-	0	0	-	-	-
Belgium	-	-	-	20	-	-	-	-	-	-
Brazil	130	-85	-	-29	-	-50	-50	-	30	30
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	2,911	-36	22	-52	-	-59	-59	129	10	139
Chad	94	-	-	-	-	-	-	-	-	-
China	-333	-131	-	-32	-	0	0	-	-8	-8
Colombia	306	-1	-	-24	-	0	0	-	8	8
Denmark	-	-	-	17	-	-	-	-	-	-
Dominican Republic	-	-44	-	-1	-	-12	-12	-	-9	-9
Estonia	-	-	-	-	-	-	-	11	-	11
Finland	-	-	-	-	-	-	-	-	-	-
France	-57	-19	-	32	-	-	-	10	9	19
Germany	-	-	-	2	-	-	-	0	-	0
Guatemala	-	-14	-	0	-	-59	-59	-	0	0
Honduras	-	-13	-	-	-	-13	-13	-	0	0
India	-	-110	-	10	-	-	-	-	17	17
Indonesia	44	-63	-	0	-	-	-	-	-	-
Italy	-64	-	-	0	-	-	-	-	10	10
Japan	-38	-231	-	-20	-	0	0	0	0	0
Korea, South	-141	-92	-	-32	-	-5	-5	-	0	0
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	7	-	7
Malaysia	-	-	-	31	-	-	-	-	1	1
Mexico	805	-168	-	-3	-	-655	-655	0	-44	-44
Netherlands	-97	-20	-	24	-	-16	-16	-	11	11
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	21	-20	-	-	-	-	-	-	11	11
Oman	12	-	-	0	-	-	-	-	-	-
Panama	-	-1	-	0	-	-30	-30	-	0	0
Portugal	-	-23	-	-	-	-	-	-	9	9
Puerto Rico	-	-1	-	-	-	0	0	0	0	0
Russia	33	-	-	256	-	-	-	3	44	47
Spain	-23	-	-	22	-	-	-	-	29	29
Sweden	-	-11	-	0	-	-	-	-	-	-
Trinidad and Tobago	-	0	-	-	-	-	-	-	0	0
United Kingdom	-199	-40	-	12	-	0	0	31	0	31
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	0	-	-	-	-8	-8	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-89	-180	3	6	-	-128	-128	-1	10	9
Total	6,089	-1,321	25	366	-	-1,094	-1,094	190	186	376
Persian Gulf²	1,511	0	-	18	-	0	0	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, November 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
OPEC	-17	0	-5	0	-	-	-59	-	-	-	-59
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	0	-	-	-	-	-	-	-	-	-
Ecuador	-	-	0	-	-	-	-38	-	-	-	-38
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	0	-	-	-	0
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-3	-	-	-	-	-	-	-	-
Qatar	-	-	0	-	-	-	-	-	-	-	-
Saudi Arabia	-	0	-2	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	0	-	-	-	0
Venezuela	-17	-	-	0	-	-	-20	-	-	-	-20
Non-OPEC	-22	-26	-66	6	12	-	-952	-130	-44	4	-1,122
Argentina	-	-	-	-	-	-	-23	-	-	-	-23
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	0	0	-	-	-	-	0	-	-	-	0
Bahamas	-	0	0	-	-	-	-1	-	3	-	2
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	0	0	-1	-	-	-	-16	-	-	-	-16
Brazil	1	4	-6	-	-	-	-177	-35	9	-	-203
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-19	4	-	-	91	-11	26	4	111
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	0	-2	-	-	-	0	-	-	-	0
Colombia	-	-	-3	-	-	-	-15	0	-	-	-16
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-7	-13	-3	-	-24
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	0	-	-	-	-16	-	-	-	-16
Germany	-	0	-	2	-	-	-11	-	-	-	-11
Guatemala	-	-	-	-	-	-	-47	-14	-	-	-61
Honduras	-	-	-	-	-	-	-15	-2	-	-	-17
India	-	0	-12	-	-	-	25	-	-	-	25
Indonesia	-	0	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-33	0	-	-	-	0	-	-	-	0
Korea, South	-	0	-3	-	-	-	0	-	-1	-	-1
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-	-	-	-	-	-	-14	-	-14
Mexico	-16	0	-3	0	-	-	-311	-23	-1	-	-336
Netherlands	1	3	0	0	-	-	-44	-7	-	-	-51
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	0	-	-	-	-	0	-	-	-	0
Oman	-	-	-	-	-	-	0	-	-	-	0
Panama	-	-	0	-	-	-	-45	-6	-8	-	-58
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-3	-	-	-	0	-	-	-	0
Russia	-	0	-	-	-	-	-	-	0	-	0
Spain	-	-	0	-	-	-	-3	-	5	-	2
Sweden	-	-	-	-	-	-	0	-	-	-	0
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	0	-	-	-	-48	-	0	-	-48
Vietnam	-	-	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-3	-	-10	-	-13
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-8	0	-14	0	12	-	-286	-19	-50	0	-354
Total	-39	-26	-72	6	12	-	-1,011	-130	-44	4	-1,181
Persian Gulf²	-	0	-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, November 2017
(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	-	-	30	-	4	5	-
Algeria	-	-	-	0	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	0	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	5	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-
United Arab Emirates	0	-	-	-	-	-	-	-
Venezuela	-	-	-	30	-	4	-	-
Non-OPEC	-21	0	-	-24	17	-7	31	5
Argentina	-	-	-	-	-	-	-	-
Aruba	0	-	-	-	-	-13	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-1	-	-33	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	2	0	-	-
Brazil	-	-	-	0	2	9	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-13	0	-	-18	7	14	2	4
Chad	-	-	-	-	-	-	-	-
China	0	-	-	24	-	-	-	-
Colombia	-	-	-	-	-	9	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	-	-	-	-10	-	0	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-2	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	1
Germany	-	-	-	-	-	-	-	-
Guatemala	0	-	-	-1	-	-1	-	-
Honduras	0	-	-	-1	-	-14	-	-
India	-	-	-	-	-	-	-	-
Indonesia	-	-	-	0	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	0	-	-	20	2	-	1	-
Korea, South	-	-	-	95	5	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	0	-	0	-	-
Mexico	0	-	-	-58	-	18	8	-
Netherlands	0	-	-	-	-	1	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	0	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	-	-	-	-17	-	-17	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	-6	-	-	-	-
Russia	-	-	-	-	-	20	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-2	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	0	-	28	-	-
United Kingdom	-	-	-	-	-	-12	1	-
Vietnam	-	-	-	-	-	0	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-4	0	-	-51	-1	-16	19	0
Total	-21	0	-	6	17	-3	36	5
Persian Gulf²	0	-	-	-	-	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, November 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	0	0	21	-	58	2,852
Algeria	-	-	-	0	-	120	120
Angola	-	-	-	-	-	8	77
Ecuador	-	0	0	-2	-	-93	100
Equatorial Guinea	-	-	-	0	-	0	0
Gabon	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	0	611
Kuwait	0	0	0	0	-	0	117
Libya	-	-	-	-	-	-	72
Nigeria	-	-	-	-3	-	20	464
Qatar	-	-	-	19	-	19	19
Saudi Arabia	0	0	0	0	-	-2	777
United Arab Emirates	-	0	0	6	-	24	28
Venezuela	-	-	-	0	-	-38	467
Non-OPEC	2	-510	1	-73	0	-3,523	-228
Argentina	-	8	0	-4	-	-18	-37
Aruba	-	-	-	0	-	-14	-14
Australia	0	-7	-3	0	0	-10	-10
Bahamas	-	-	0	0	-	-18	-18
Bahrain	-	-	-	0	-	0	0
Belgium	0	-3	0	-6	0	-5	-5
Brazil	1	-20	-	-4	0	-350	-220
Brunei	-	-	-	-	-	-	-
Cameroon	-	-	-	0	-	0	0
Canada	0	-30	17	-3	0	88	2,999
Chad	-	-	-	-	-	-	94
China	3	-27	0	-1	0	-174	-508
Colombia	0	0	0	-5	0	-31	276
Denmark	-	-	-	0	-	17	17
Dominican Republic	0	-6	-2	0	0	-108	-108
Estonia	-	-	-	-	-	11	11
Finland	-	-	-	5	-	4	4
France	0	-5	-	-3	-	9	-48
Germany	0	0	0	-2	0	-9	-9
Guatemala	-	-5	-	-2	-	-142	-142
Honduras	-	-	-	0	-	-58	-58
India	0	-101	0	-1	0	-171	-171
Indonesia	0	0	0	0	0	-63	-19
Italy	0	-15	-	0	-	-6	-70
Japan	0	-64	0	0	0	-326	-364
Korea, South	0	0	0	2	0	-31	-173
Latvia	-	-	-	0	-	0	0
Lithuania	-	-	-	0	-	7	7
Malaysia	0	0	0	0	-	18	18
Mexico	-1	-73	-5	-27	0	-1,364	-560
Netherlands	0	-4	0	-3	1	-52	-149
Netherlands Antilles	-	-	-	-	-	-	-
Norway	0	-2	-	0	-	-11	10
Oman	-	0	0	2	-	2	14
Panama	-	-	-1	-1	-	-125	-125
Portugal	-	-	-	0	-	-13	-13
Puerto Rico	0	-	0	-1	-	-12	-12
Russia	0	-	-	0	-	324	357
Spain	0	-11	11	0	0	53	29
Sweden	0	0	-	0	-	-13	-13
Trinidad and Tobago	-	0	-	0	-	28	28
United Kingdom	0	0	0	0	0	-56	-255
Vietnam	0	0	0	0	-	0	0
Virgin Islands, U.S.	-	-	-	0	-	-21	-21
Yemen	-	-	-	0	-	0	0
Other	-1	-145	-16	-19	-1	-883	-970
Total	2	-510	1	-52	0	-3,465	2,624
Persian Gulf²	0	0	0	25	-	40	1,552

- = 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-November 2017
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	3,156	-16	-	119	-	-41	-41	0	38	38
Algeria	69	-	-	120	-	-	-	-	0	0
Angola	125	-	-	3	-	-	-	-	3	3
Ecuador	202	-15	-	-1	-	-24	-24	0	-2	-2
Equatorial Guinea	13	0	-	-	-	-	-	-	-	-
Gabon	5	-	-	2	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	602	-	-	3	-	-	-	-	-	-
Kuwait	150	0	-	0	-	0	0	-	0	0
Libya	57	0	-	5	-	-	-	-	-	-
Nigeria	311	-	-	4	-	-3	-3	-	19	19
Qatar	-	-	-	0	-	0	0	-	-	-
Saudi Arabia	966	0	-	1	-	0	0	0	0	0
United Arab Emirates	20	-1	-	10	-	0	0	0	0	0
Venezuela	635	0	-	-29	-	-15	-15	-	16	16
Non-OPEC	3,687	-1,208	29	253	-	-644	-644	214	296	511
Argentina	-6	0	-	-2	-	-6	-6	-	3	3
Aruba	-	-22	-	0	-	-1	-1	-	0	0
Australia	1	-18	-	0	-	0	0	0	0	0
Bahamas	-19	-1	-	1	-	-5	-5	0	0	0
Bahrain	-	-	-	-	-	0	0	0	-	0
Belgium	-	-2	0	35	-	1	1	3	7	10
Brazil	192	-57	-	-12	-	-33	-33	-	4	4
Brunei	1	-	-	-	-	-	-	-	-	-
Cameroon	-	0	-	1	-	0	0	-	0	0
Canada	3,083	-105	25	-58	-	-4	-4	116	50	166
Chad	27	-	-	-	-	-	-	-	-	-
China	-220	-145	-	-12	-	-2	-2	0	-1	-1
Colombia	312	0	-	-34	-	-25	-25	-	7	7
Denmark	2	-	-	5	-	-1	-1	0	1	1
Dominican Republic	-4	-33	-	0	-	-12	-12	0	-2	-2
Estonia	-	-	-	0	-	-	-	1	0	1
Finland	-	-	-	1	-	1	1	0	8	8
France	-31	-12	-	6	-	0	0	15	12	27
Germany	-2	0	-	2	-	1	1	0	1	1
Guatemala	9	-12	-	0	-	-40	-40	-	-1	-1
Honduras	-	-12	-	0	-	-11	-11	-	-2	-2
India	-21	-59	-	11	-	0	0	2	55	56
Indonesia	16	-20	-	0	-	-	-	0	-	0
Italy	-41	-1	-	1	-	1	1	1	12	12
Japan	-29	-211	-	-9	-	0	0	0	2	2
Korea, South	-55	-93	-	-6	-	-1	-1	0	8	8
Latvia	-	-	-	-	-	-	-	-	0	0
Lithuania	-	-	-	0	-	-	-	1	3	4
Malaysia	-17	-	-	5	-	-2	-2	-	1	1
Mexico	597	-128	1	-14	-	-402	-402	0	-39	-39
Netherlands	-79	-37	-	-6	-	-4	-4	10	23	33
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	36	-25	-	21	-	1	1	4	9	13
Oman	10	-	-	-3	-	-	-	-	-	-
Panama	-3	-9	-	1	-	-24	-24	-	-1	-1
Portugal	-	-6	-	0	-	1	1	3	21	24
Puerto Rico	-	0	-	0	-	-1	-1	0	0	0
Russia	49	0	-	268	-	1	1	1	42	44
Spain	-18	-10	-	12	-	0	0	0	33	33
Sweden	-	-1	-	4	-	1	1	0	3	4
Trinidad and Tobago	6	1	-	4	-	0	0	0	2	2
United Kingdom	-72	-38	-	4	-	5	5	58	22	79
Vietnam	1	-	-	0	-	-	-	0	0	0
Virgin Islands, U.S.	-	-3	-	-	-	-3	-3	-	-1	-1
Yemen	3	-	-	-	-	0	0	-	-	-
Other	-41	-149	3	27	-	-80	-80	-1	14	15
Total	6,843	-1,224	29	372	-	-686	-686	214	334	548
Persian Gulf²	1,738	-1	-	15	-	0	0	0	0	0

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-November 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	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	
OPEC	-6	0	-4	0	-	-	-38	-9	-3	-	-51
Algeria	-	-	-	-	-	-	-1	-1	-1	-	-2
Angola	-	0	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-28	-7	-1	-	-36
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	0	-	-	-	0
Kuwait	-	0	0	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-1	-	-	-	1	-	-	-	1
Qatar	-	-	0	0	-	-	0	-	-	-	0
Saudi Arabia	0	0	0	-	-	-	0	-	-	-	0
United Arab Emirates	-	0	-3	-	-	-	0	-	-	-	0
Venezuela	-6	0	0	0	-	-	-11	-1	-2	-	-14
Non-OPEC	-26	-26	-76	20	13	-	-1,030	-107	-53	4	-1,187
Argentina	1	0	0	21	-	-	-33	-2	-4	-	-39
Aruba	-	-	-	-	-	-	-6	-	0	-	-6
Australia	0	0	0	-	-	-	-1	-	0	-	-1
Bahamas	-	0	0	-	-	-	-4	0	-9	-	-13
Bahrain	-	-	0	-	-	-	0	-	-	-	0
Belgium	0	0	0	0	-	-	-7	-1	-2	1	-9
Brazil	1	4	-23	0	-	-	-192	-15	1	-	-205
Brunei	-	-	-	-	-	-	0	-	-	-	0
Cameroon	-	-	-	0	-	-	-	-	-	-	-
Canada	-	0	-22	0	1	-	76	-12	20	1	86
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	0	-	-	1	-	0	-	1
Colombia	-	0	-1	-	-	-	-19	0	0	-	-19
Denmark	-	-	-	-	-	-	0	0	-	-	-1
Dominican Republic	-	-	0	-	-	-	-8	-3	-2	-	-13
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-1	-	-	-	-1
France	-	0	0	-	-	-	-55	-1	-1	0	-57
Germany	0	0	0	0	-	-	-5	-	-	-	-5
Guatemala	-	0	0	-	-	-	-41	-13	-2	-	-56
Honduras	-	-	0	-	-	-	-9	-5	0	-	-14
India	0	0	-11	-	-	-	10	-	0	0	10
Indonesia	-	0	0	-	-	-	-	-	-	-	-
Italy	-	0	0	0	-	-	-3	0	-	-	-3
Japan	-	-31	0	-	-	-	1	-	-	-	1
Korea, South	0	0	-2	0	-	-	1	-	-3	-	-1
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	-9	-	-9
Mexico	-24	0	-2	0	-	-	-239	-6	-1	-	-245
Netherlands	2	0	-1	0	-	-	-76	-7	-2	-	-85
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	0	0	0	-	-	0	-	-	-	0
Oman	-	-	-1	-	-	-	0	-	-	-	0
Panama	-	0	0	0	-	-	-37	-6	-3	-	-46
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-1	0	-	-	-5	-1	0	-	-6
Russia	-	0	-	-	-	-	0	0	2	1	3
Spain	-	-	-1	0	-	-	-11	-1	-1	-	-13
Sweden	-	-	0	-	-	-	0	-	0	-	0
Trinidad and Tobago	-	0	0	0	-	-	0	-	1	-	1
United Kingdom	0	0	0	-	-	-	-37	0	-1	-	-38
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	0	-	-	-	-10	-1	-7	-	-18
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-6	1	-11	-1	12	-	-320	-33	-30	1	-386
Total	-31	-26	-80	20	13	-	-1,068	-116	-56	4	-1,237
Persian Gulf²	0	0	-3	0	-	-	0	-	-	-	0

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-November 2017
(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	-	-	17	0	3	1	-
Algeria	-	-	-	0	-	1	1	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-11	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	-	-	-
Kuwait	-	-	-	1	-	0	-	-
Libya	0	-	-	-	-	2	-	-
Nigeria	-	-	-	0	-	-	0	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	0	-	-	2	0	0	-	-
United Arab Emirates	0	-	-	1	-	-1	-	-
Venezuela	-	-	-	14	-	12	-	-
Non-OPEC	-3	0	-	-42	14	-111	31	13
Argentina	0	-	-	-1	-	2	-	1
Aruba	0	-	-	-1	-	-4	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-1	-	-13	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	0	0	0	-
Brazil	0	-	-	-5	1	1	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-4	0	-	-17	5	-3	2	2
Chad	-	-	-	0	-	-	-	-
China	0	-	-	14	-	-5	-	-
Colombia	0	-	-	-3	-	7	5	-
Denmark	-	-	-	-2	-	-	-	-
Dominican Republic	0	-	-	-6	-	-1	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-1	-	-	-1	-	-	-	-
France	0	-	-	-3	0	1	0	1
Germany	0	-	-	-	0	0	0	-
Guatemala	0	-	-	-3	-	-3	-	-
Honduras	0	-	-	-2	-	-9	-	-
India	0	-	-	7	-	1	-	-
Indonesia	-	-	-	0	-	-	-	-
Italy	-	-	-	0	0	1	0	-
Japan	3	-	-	16	3	0	1	-
Korea, South	0	-	-	82	3	0	0	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	0	-	-	1	-	0	-	-
Mexico	0	-	-	-41	1	20	9	-
Netherlands	0	0	-	-8	0	-6	0	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	0	-	-	-	8
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-18	-	-16	-	-
Portugal	-	-	-	-	0	-	-	-
Puerto Rico	0	-	-	-1	-	0	-	-
Russia	0	-	-	1	-	18	1	-
Spain	-	-	-	0	-	0	-	-
Sweden	-1	-	-	0	-	1	-	-
Trinidad and Tobago	0	-	-	0	-	18	-	-
United Kingdom	-	-	-	-3	-	-3	2	-
Vietnam	0	-	-	0	-	0	-	-
Virgin Islands, U.S.	0	-	-	-2	-	-9	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-45	1	-109	11	1
Total	-3	0	-	-25	14	-108	33	13
Persian Gulf²	0	-	-	4	0	-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-November 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-7	3	1	0	57	3,212
Algeria	-	-	0	1	-	121	190
Angola	-	-	0	0	-	6	131
Ecuador	0	-4	0	-2	0	-93	109
Equatorial Guinea	-	-	-	0	-	0	13
Gabon	-	-	0	0	-	2	7
Iran	-	-	-	0	-	0	0
Iraq	-	-	0	0	-	4	605
Kuwait	0	0	0	0	0	0	151
Libya	-	-	-	0	-	7	64
Nigeria	-	-	-	-3	-	18	329
Qatar	0	-1	-	6	-	5	5
Saudi Arabia	0	-2	0	0	0	1	968
United Arab Emirates	0	-1	0	1	0	6	26
Venezuela	0	0	3	-3	0	-21	614
Non-OPEC	1	-573	17	-71	-1	-3,066	621
Argentina	0	2	-1	-8	0	-28	-34
Aruba	-	-	0	0	-	-35	-35
Australia	0	-6	0	0	0	-26	-24
Bahamas	0	-	0	-1	0	-33	-52
Bahrain	0	-	-	2	-	2	2
Belgium	0	-6	0	-9	0	21	21
Brazil	0	-34	0	-8	0	-365	-173
Brunei	-	0	-	0	-	0	1
Cameroon	0	-	0	0	-	1	1
Canada	-1	-19	23	1	0	78	3,161
Chad	-	-	-	0	-	0	27
China	1	-54	0	-2	0	-204	-424
Colombia	0	1	0	-3	0	-66	246
Denmark	0	-2	0	-1	-	0	2
Dominican Republic	0	-3	-1	-1	0	-71	-75
Estonia	0	1	-	0	-	1	1
Finland	0	-1	0	1	0	7	7
France	0	-6	0	-2	0	-45	-76
Germany	0	-1	0	-2	0	-3	-4
Guatemala	0	-6	0	-1	-	-122	-113
Honduras	0	-5	0	0	-	-55	-55
India	0	-103	0	-2	0	-88	-110
Indonesia	0	0	0	2	0	-18	-3
Italy	0	-16	0	0	0	-4	-45
Japan	0	-58	0	-1	0	-283	-312
Korea, South	0	-18	0	11	0	-17	-73
Latvia	0	-	-	0	0	0	0
Lithuania	0	-	-	0	-	4	4
Malaysia	0	-2	1	0	0	-5	-21
Mexico	-1	-67	-4	-22	0	-956	-360
Netherlands	0	-5	0	-2	0	-118	-197
Netherlands Antilles	-	-	-	-	-	-	-
Norway	0	-3	0	0	0	14	51
Oman	0	-1	0	0	-	-4	6
Panama	0	-	-1	-1	0	-116	-119
Portugal	0	-4	-	0	-	15	15
Puerto Rico	0	0	0	0	0	-9	-9
Russia	0	0	0	0	-	335	384
Spain	0	-19	5	0	0	7	-10
Sweden	0	0	-	0	0	8	8
Trinidad and Tobago	0	0	0	0	0	26	32
United Kingdom	0	-2	0	0	0	6	-65
Vietnam	0	-2	0	0	0	-3	-1
Virgin Islands, U.S.	-	-	0	0	0	-36	-36
Yemen	-	-	-	0	-	0	3
Other	2	-134	-5	-22	-1	-881	-925
Total	1	-581	20	-71	-1	-3,010	3,833
Persian Gulf²	0	-3	0	8	0	19	1,757

- = 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.

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, November 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	13,016	142,621	881,715	22,477	53,778	1,113,607
Refinery	11,060	13,007	47,873	2,518	24,633	99,091
Tank Farms and Pipelines (Includes Cushing, OK)	1,956	129,614	172,564	19,959	24,526	348,619
Cushing, Oklahoma	-	55,715	-	-	-	55,715
Leases	-	-	-	-	-	-
Strategic Petroleum Reserve ¹	-	-	661,278	-	-	661,278
Alaskan In Transit	-	-	-	-	4,619	4,619
Total Stocks, All Oils (excluding Crude Oil)²	157,116	174,490	365,563	20,413	91,315	808,896
Refinery	16,288	48,800	123,852	9,916	51,644	250,500
Bulk Terminal	112,980	90,071	186,188	6,351	34,343	429,932
Pipeline	27,614	34,273	51,315	4,001	4,974	122,177
Natural Gas Processing Plant	234	1,346	4,208	145	354	6,287
Natural Gas Liquids	9,625	57,818	135,075	4,151	4,885	211,554
Refinery	599	4,640	7,053	463	1,747	14,502
Bulk Terminal	8,055	36,527	108,405	1,487	2,773	157,247
Pipeline	737	15,305	15,409	2,056	11	33,518
Natural Gas Processing Plant	234	1,346	4,208	145	354	6,287
Ethane	408	6,029	52,047	485	-	58,969
Refinery	-	-	194	-	-	194
Bulk Terminal	178	3,173	44,643	-	-	47,994
Pipeline	230	2,702	5,745	482	-	9,159
Natural Gas Processing Plant	-	154	1,465	3	-	1,622
Propane	6,849	24,092	34,728	1,581	1,986	69,236
Refinery	119	1,784	1,283	60	110	3,356
Bulk Terminal	6,140	17,949	26,797	648	1,795	53,329
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	111	651	1,400	58	70	2,290
Normal Butane	1,835	15,630	31,418	1,451	2,318	52,652
Refinery	342	2,048	3,788	281	1,114	7,573
Bulk Terminal	1,442	12,056	24,944	831	973	40,246
Pipeline	6	1,325	1,709	311	-	3,351
Natural Gas Processing Plant	45	201	977	28	231	1,482
Isobutane	163	2,347	6,027	276	549	9,362
Refinery	138	463	1,293	104	521	2,519
Bulk Terminal	-	1,161	3,633	-	-	4,794
Pipeline	11	515	886	161	-	1,573
Natural Gas Processing Plant	14	208	215	11	28	476
Natural Gasoline	370	9,720	10,855	358	32	21,335
Refinery	-	345	495	18	2	860
Bulk Terminal	295	2,188	8,388	8	5	10,884
Pipeline	11	7,055	1,821	287	-	9,174
Natural Gas Processing Plant	64	132	151	45	25	417
Refinery Olefins	279	820	4,722	5	30	5,856
Refinery	279	810	2,032	5	30	3,156
Bulk Terminal	-	10	2,690	-	-	2,700
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Ethylene	-	-	0	-	-	0
Refinery	-	-	0	-	-	0
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Propylene	144	732	4,134	0	16	5,026
Refinery	144	722	1,444	0	16	2,326
Bulk Terminal	-	10	2,690	-	-	2,700
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Butylene	84	88	588	5	14	779
Refinery	84	88	588	5	14	779
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Isobutylene	51	0	0	0	0	51
Refinery	51	0	0	0	0	51
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Other Hydrocarbons	-	45	-	-	-	45
Refinery	-	45	-	-	-	45
Oxygenates (excluding Fuel Ethanol)	-	7	1,641	-	-	1,648
Refinery	-	-	-	-	-	-
Bulk Terminal	-	7	1,641	-	-	1,648
Pipeline	-	-	-	-	-	-

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, November 2017
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	-	-	1,201	-	-	1,201
Refinery	-	-	-	-	-	-
Bulk Terminal ³	-	-	1,201	-	-	1,201
Pipeline	-	-	-	-	-	-
Other Oxygenates⁴	-	7	440	-	-	447
Refinery	-	-	-	-	-	-
Bulk Terminal	-	7	440	-	-	447
Pipeline	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	8,868	9,134	5,293	371	4,361	28,026
Refinery	158	128	449	111	239	1,085
Bulk Terminal	8,710	9,006	4,844	256	4,122	26,937
Pipeline	-	-	-	4	-	4
Fuel Ethanol²	7,345	8,272	3,873	364	3,009	22,863
Refinery	153	98	176	107	30	564
Bulk Terminal	7,192	8,174	3,697	253	2,979	22,295
Pipeline	-	-	-	4	-	4
Renewable Diesel Fuel	1,523	862	1,419	7	1,328	5,138
Refinery	5	30	273	4	209	521
Bulk Terminal	1,518	832	1,146	3	1,119	4,617
Pipeline	-	-	-	-	-	-
Other Renewable Fuels	-	-	1	-	24	25
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	1	-	24	25
Pipeline	-	-	-	-	-	-
Unfinished Oils	5,235	13,720	44,057	3,080	20,010	86,102
Naphthas and Lighter	1,544	3,380	11,098	633	3,501	20,156
Refinery	1,441	3,333	10,173	633	3,272	18,852
Bulk Terminal	103	47	925	-	229	1,304
Kerosene and Light Gas Oils	818	3,303	7,375	714	3,902	16,112
Refinery	602	3,303	7,223	714	3,629	15,471
Bulk Terminal	216	-	152	-	273	641
Heavy Gas Oils	2,270	4,892	20,669	1,183	9,840	38,854
Refinery	2,095	4,882	18,100	1,183	9,107	35,367
Bulk Terminal	175	10	2,569	-	733	3,487
Residuum	603	2,145	4,915	550	2,767	10,980
Refinery	603	1,975	4,915	550	2,741	10,784
Bulk Terminal	-	170	-	-	26	196
Motor Gasoline Blending Components²	54,299	41,395	71,395	5,214	28,698	201,001
Refinery	5,479	12,889	27,193	2,596	15,130	63,287
Bulk Terminal	37,945	20,339	26,199	1,719	10,765	96,967
Pipeline	10,875	8,167	18,003	899	2,803	40,747
Reformulated - RBOB	19,100	5,419	10,308	-	13,954	48,781
Refinery	1,666	1,256	1,629	-	5,502	10,053
Bulk Terminal	13,134	3,260	5,034	-	6,742	28,170
Pipeline	4,300	903	3,645	-	1,710	10,558
Conventional	35,199	35,976	61,087	5,214	14,744	152,220
Refinery	3,813	11,633	25,564	2,596	9,628	53,234
Bulk Terminal	24,811	17,079	21,165	1,719	4,023	68,797
Pipeline	6,575	7,264	14,358	899	1,093	30,189
CBOB	24,278	29,038	34,378	3,917	6,766	98,377
Refinery	745	5,573	10,523	1,301	2,221	20,363
Bulk Terminal	16,983	16,634	9,531	1,717	3,457	48,322
Pipeline	6,550	6,831	14,324	899	1,088	29,692
GTAB	489	-	-	-	-	489
Refinery	-	-	-	-	-	-
Bulk Terminal	489	-	-	-	-	489
Pipeline	-	-	-	-	-	-
Other	10,432	6,938	26,709	1,297	7,978	53,354
Refinery	3,068	6,060	15,041	1,295	7,407	32,871
Bulk Terminal	7,339	445	11,634	2	566	19,986
Pipeline	25	433	34	-	5	497
Aviation Gasoline Blending Components	-	-	13	-	-	13
Refinery	-	-	13	-	-	13
Bulk Terminal	-	-	-	-	-	-
Finished Motor Gasoline	4,408	6,498	8,539	1,900	2,250	23,595
Refinery	59	1,308	4,478	739	877	7,461
Bulk Terminal	1,633	2,979	2,802	837	1,207	9,458
Pipeline	2,716	2,211	1,259	324	166	6,676
Reformulated	30	-	-	-	17	47
Refinery	-	-	-	-	17	17
Bulk Terminal	30	-	-	-	-	30
Pipeline	-	-	-	-	-	-
Reformulated (Blended with Fuel Ethanol)	30	-	-	-	17	47
Refinery	-	-	-	-	17	17
Bulk Terminal	30	-	-	-	-	30
Pipeline	-	-	-	-	-	-

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, November 2017
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional	4,378	6,498	8,539	1,900	2,233	23,548
Refinery	59	1,308	4,478	739	860	7,444
Bulk Terminal	1,603	2,979	2,802	837	1,207	9,428
Pipeline	2,716	2,211	1,259	324	166	6,676
Conventional (Blended with Fuel Ethanol)	52	188	—	54	—	294
Refinery	—	—	—	48	—	48
Bulk Terminal	52	188	—	6	—	246
Pipeline	—	—	—	—	—	—
Ed55 and Lower	52	188	—	54	—	294
Refinery	—	—	—	48	—	48
Bulk Terminal	52	188	—	6	—	246
Pipeline	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional (Other)	4,326	6,310	8,539	1,846	2,233	23,254
Refinery	59	1,308	4,478	691	860	7,396
Bulk Terminal	1,551	2,791	2,802	831	1,207	9,182
Pipeline	2,716	2,211	1,259	324	166	6,676
Finished Aviation Gasoline	144	140	387	5	243	919
Refinery	—	60	308	5	169	542
Bulk Terminal	144	80	79	—	74	377
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	8,281	6,896	15,144	707	10,049	41,077
Refinery	506	1,812	6,350	312	3,832	12,812
Bulk Terminal	4,208	3,606	3,126	298	5,276	16,514
Pipeline	3,567	1,478	5,668	97	941	11,751
Kerosene	1,445	97	125	1	45	1,713
Refinery	104	72	123	1	1	301
Bulk Terminal	1,339	25	2	—	44	1,410
Pipeline	2	—	—	—	—	2
Distillate Fuel Oil²	51,729	25,369	39,463	3,534	12,605	132,700
Refinery	2,318	6,138	15,253	1,596	5,732	31,037
Bulk Terminal	39,694	12,119	13,244	1,317	5,830	72,204
Pipeline	9,717	7,112	10,966	621	1,043	29,459
15 ppm sulfur and Under	43,130	24,557	33,531	3,289	11,536	116,043
Refinery	1,938	5,666	12,482	1,372	4,869	26,327
Bulk Terminal	32,581	12,062	11,051	1,298	5,701	62,693
Pipeline	8,611	6,829	9,998	619	966	27,023
Greater than 15 ppm to 500 ppm sulfur	4,465	466	1,469	180	277	6,857
Refinery	134	136	793	159	277	1,499
Bulk Terminal	4,241	47	500	19	—	4,807
Pipeline	90	283	176	2	—	551
Greater than 500 ppm sulfur	4,134	346	4,463	65	792	9,800
Refinery	246	336	1,978	65	586	3,211
Bulk Terminal	2,872	10	1,693	—	129	4,704
Pipeline	1,016	—	792	—	77	1,885
Residual Fuel Oil⁵	7,292	1,078	18,686	191	4,505	31,752
Refinery	425	966	3,892	191	2,544	8,018
Bulk Terminal	6,867	112	14,794	—	1,955	23,728
Pipeline	—	—	—	—	6	6
Less than 0.31% Sulfur	1,287	95	1,164	19	20	2,585
Refinery	33	94	127	19	—	273
Bulk Terminal	1,254	1	1,037	—	20	2,312
0.31% to 1.00% Sulfur	1,481	127	4,510	4	461	6,583
Refinery	61	119	353	4	330	867
Bulk Terminal	1,420	8	4,157	—	131	5,716
Greater than 1.00% Percent Sulfur	4,524	856	13,012	168	4,018	22,578
Refinery	331	753	3,412	168	2,214	6,878
Bulk Terminal	4,193	103	9,600	—	1,804	15,700
Petrochemical Feedstocks	108	542	2,425	—	1	3,076
Refinery	108	542	2,425	—	1	3,076
Naphtha for Petrochemical Feedstock Use	108	387	1,451	—	1	1,947
Other Oils for Petrochemical Feedstock Use	—	155	974	—	—	1,129
Special Naphthas	48	143	899	—	16	1,106
Refinery	25	83	893	—	16	1,017
Bulk Terminal	23	60	6	—	—	89
Lubricants	1,048	813	7,861	—	967	10,689
Refinery	546	396	5,072	—	707	6,721
Bulk Terminal	502	417	2,789	—	260	3,968
Waxes	478	55	199	—	—	732
Refinery	478	55	199	—	—	732
Petroleum Coke	—	1,308	5,343	51	1,209	7,911
Refinery	—	1,308	5,343	51	1,209	7,911
Asphalt and Road Oil	3,802	8,489	3,923	1,184	1,330	18,728
Refinery	436	3,932	2,002	747	554	7,671
Bulk Terminal	3,366	4,557	1,921	437	776	11,057

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, November 2017
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	30	1,662	1,692	14,800	28,624	43,424	1,443
Connecticut	—	—	—	1,382	54	1,436	152
Delaware	—	—	—	653	522	1,175	93
District of Columbia	—	—	—	—	—	—	—
Florida	—	518	518	—	5,459	5,459	—
Georgia	—	264	264	—	2,673	2,673	—
Maine	—	—	—	384	253	637	209
Maryland	—	—	—	1,040	97	1,137	61
Massachusetts	7	—	7	1,495	51	1,546	25
New Hampshire	—	—	—	—	—	—	7
New Jersey	—	233	233	5,294	8,677	13,971	19
New York	23	—	23	876	1,447	2,323	393
North Carolina	—	175	175	—	2,316	2,316	339
Pennsylvania	—	20	20	1,158	4,157	5,315	71
Rhode Island	—	—	—	979	—	979	—
South Carolina	—	181	181	—	1,417	1,417	32
Vermont	—	52	52	—	—	—	4
Virginia	—	166	166	1,539	1,314	2,853	38
West Virginia	—	53	53	—	187	187	—
PAD District 2	—	4,287	4,287	4,516	28,712	33,228	97
Illinois	—	445	445	2,098	4,316	6,414	69
Indiana	—	312	312	980	3,284	4,264	—
Iowa	—	180	180	—	1,301	1,301	—
Kansas	—	367	367	—	2,848	2,848	18
Kentucky	—	361	361	434	1,254	1,688	9
Michigan	—	211	211	63	2,624	2,687	1
Minnesota	—	403	403	101	2,211	2,312	—
Missouri	—	219	219	260	571	831	—
Nebraska	—	109	109	—	423	423	—
North Dakota	—	68	68	—	722	722	—
Ohio	—	848	848	67	3,564	3,631	—
Oklahoma	—	409	409	—	2,647	2,647	—
South Dakota	—	52	52	—	266	266	—
Tennessee	—	163	163	—	1,839	1,839	—
Wisconsin	—	140	140	513	842	1,355	—
PAD District 3	—	7,280	7,280	6,663	46,729	53,392	125
Alabama	—	219	219	—	1,110	1,110	5
Arkansas	—	227	227	—	811	811	—
Louisiana	—	2,147	2,147	527	11,764	12,291	78
Mississippi	—	782	782	7	2,062	2,069	—
New Mexico	—	81	81	—	582	582	—
Texas	—	3,824	3,824	6,129	30,400	36,529	42
PAD District 4	—	1,576	1,576	—	4,315	4,315	1
Colorado	—	303	303	—	1,322	1,322	—
Idaho	—	358	358	—	143	143	—
Montana	—	342	342	—	895	895	—
Utah	—	106	106	—	1,357	1,357	1
Wyoming	—	467	467	—	598	598	—
PAD District 5	17	2,067	2,084	12,244	13,651	25,895	45
Alaska	—	755	755	—	—	—	44
Arizona	—	48	48	795	398	1,193	—
California	17	611	628	11,313	7,791	19,104	1
Hawaii	—	1	1	—	938	938	—
Nevada	—	153	153	20	403	423	—
Oregon	—	54	54	—	910	910	—
Washington	—	445	445	116	3,211	3,327	—
U.S. Total	47	16,872	16,919	38,223	122,031	160,254	1,711

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, November 2017
(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	34,519	4,375	3,118	42,012	7,292	6,370
Connecticut	1,285	1,915	78	3,278	20	—
Delaware	507	27	76	610	450	12
District of Columbia	—	—	—	—	—	—
Florida	1,934	89	—	2,023	1,311	244
Georgia	1,395	—	—	1,395	325	13
Maine	1,015	3	697	1,715	84	—
Maryland	3,441	227	—	3,668	379	3
Massachusetts	770	699	138	1,607	224	—
New Hampshire	410	—	233	643	14	370
New Jersey	11,080	235	533	11,848	3,082	90
New York	5,557	230	419	6,206	650	1,878
North Carolina	988	—	13	1,001	—	431
Pennsylvania	3,450	178	528	4,156	408	2,302
Rhode Island	414	542	—	956	—	—
South Carolina	758	—	—	758	210	765
Vermont	28	—	9	37	—	—
Virginia	1,311	212	394	1,917	135	188
West Virginia	176	18	—	194	—	74
PAD District 2	17,728	183	346	18,257	1,078	20,384
Illinois	2,814	—	—	2,814	232	995
Indiana	1,914	—	94	2,008	104	248
Iowa	1,085	1	—	1,086	2	582
Kansas	2,017	—	—	2,017	21	11,445
Kentucky	764	—	2	766	225	273
Michigan	1,240	33	—	1,273	103	5,213
Minnesota	1,356	—	10	1,366	116	308
Missouri	536	13	5	554	—	240
Nebraska	640	—	—	640	—	369
North Dakota	654	1	—	655	39	71
Ohio	1,856	—	100	1,956	116	540
Oklahoma	1,162	56	48	1,266	24	38
South Dakota	254	—	—	254	—	28
Tennessee	768	—	—	768	43	4
Wisconsin	668	79	87	834	53	30
PAD District 3	23,533	1,293	3,671	28,497	18,686	29,480
Alabama	943	8	43	994	468	28
Arkansas	814	—	35	849	—	31
Louisiana	5,291	946	1,379	7,616	7,047	1,742
Mississippi	834	190	195	1,219	32	3,545
New Mexico	285	—	—	285	29	5
Texas	15,366	149	2,019	17,534	11,110	24,129
PAD District 4	2,670	178	65	2,913	191	766
Colorado	579	—	—	579	4	18
Idaho	306	—	—	306	—	—
Montana	722	74	—	796	68	28
Utah	517	60	65	642	35	668
Wyoming	546	44	—	590	84	52
PAD District 5	10,570	277	715	11,562	4,499	1,975
Alaska	1,095	—	78	1,173	99	5
Arizona	436	—	—	436	—	1,261
California	5,525	277	357	6,159	2,761	545
Hawaii	211	—	276	487	821	50
Nevada	299	—	4	303	—	—
Oregon	732	—	—	732	7	—
Washington	2,272	—	—	2,272	811	114
U.S. Total	89,020	6,306	7,915	103,241	31,746	58,975

— = 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, November 2017
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	169	73	0	2,353	52,839	6,228	3,035	1,760	29,327
Petroleum Products	14,776	405	0	17,420	32,288	6,704	4,192	106,889	19,571
Natural Gas Liquids	5,259	299	0	3,691	21,836	3,773	718	1,949	7,864
Ethane	4,916	0	-	45	11,951	500	-	0	496
Propane	77	278	0	2,710	6,569	1,838	204	1,743	1,014
Normal Butane	136	16	0	749	1,626	765	371	188	392
Isobutane	119	5	0	187	599	276	143	18	620
Natural Gasoline	11	0	-	0	1,091	394	-	0	5,342
Refinery Olefins	0	0	-	205	336	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	205	336	-	-	0	0
Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	17	0	-	0	170	-	-	0	212
Motor Gasoline Blending Components	6,385	0	0	1,267	1,684	571	0	54,872	5,112
Reformulated - RBOB	0	0	0	0	0	-	0	8,328	1,993
Conventional	6,385	0	0	1,267	1,684	571	0	46,544	3,119
CBOB	6,385	0	0	1,267	1,304	571	0	46,302	2,502
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	380	-	-	242	617
Renewable Fuels	0	0	0	9,778	5,540	316	3,325	337	0
Fuel Ethanol	0	0	0	9,409	5,226	282	3,098	337	0
Renewable Diesel Fuel	0	0	0	370	314	35	227	0	0
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	60	0	0	295	354	768	0	6,627	780
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	60	0	0	295	354	768	0	6,627	780
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	60	0	0	295	354	768	0	6,627	780
Finished Aviation Gasoline	0	0	-	0	0	-	-	447	139
Kerosene-Type Jet Fuel	297	0	0	131	88	699	0	13,581	1,281
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,708	0	0	685	872	577	0	27,955	3,636
15 ppm sulfur and under	2,708	0	0	685	872	577	0	26,023	3,532
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-	-	26	104
Greater than 500 ppm sulfur	-	0	-	0	0	-	-	1,906	-
Residual Fuel Oil	0	80	-	0	939	-	-	100	0
Petrochemical Feedstocks	19	0	-	0	103	-	-	0	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	82	-	-	-	0
Other Oils for Petrochemical Feedstock Use	19	0	-	0	21	-	-	0	0
Special Naphthas	0	0	-	-	0	-	-	-	47
Lubricants	0	0	-	0	0	-	-	501	228
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	26	0	998	141	0	0	129	0
Asphalt and Road Oil	31	0	0	369	225	0	150	391	233
Miscellaneous Products	0	0	-	-	0	-	-	-	39
Total	14,945	478	0	19,772	85,127	12,932	7,227	108,649	48,898

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, November 2017
(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	51	0	18,683	511	143	0	0	0
Petroleum Products	0	4,210	0	8,532	7,908	2,342	0	0	41
Natural Gas Liquids	0	185	0	7,584	7,579	311	0	0	0
Ethane	0	—	0	1,680	2,895	—	0	0	0
Propane	0	0	0	3,131	2,412	125	0	0	0
Normal Butane	0	143	0	1,294	838	146	0	0	0
Isobutane	0	42	0	560	508	40	0	0	0
Natural Gasoline	0	—	0	919	926	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components	0	2,940	0	196	0	1,145	0	0	0
Reformulated - RBOB	—	1,714	0	0	0	0	0	0	—
Conventional	0	1,226	0	196	0	1,145	0	0	0
CBOB	0	1,226	0	196	0	1,145	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	0	502	0	0	0	110	0	0	0
Fuel Ethanol	0	241	0	0	0	110	0	0	0
Renewable Diesel Fuel	0	260	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	395	0	371	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	395	0	371	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	395	0	371	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	170	0	18	0	20	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	393	0	301	0	240	0	0	0
15 ppm sulfur and under	0	393	0	301	0	240	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	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	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	0	0	0	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	0	233	50	0	0	0
Asphalt and Road Oil	0	20	0	38	96	94	0	0	41
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	4,261	0	27,215	8,420	2,485	0	0	41

— = No Data Reported.

¹ Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

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, November 2017
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil¹	72	73	162	51,122	6,228	147	29,327	0	-
Petroleum Products²	14,390	0	3,087	23,097	6,388	85,561	17,393	0	3,503
Natural Gas Liquids	4,990	0	1,578	20,726	3,773	1,533	7,511	0	-
Ethane	4,916	0	45	11,951	500	0	496	0	-
Propane	45	0	1,533	5,528	1,838	1,533	867	0	-
Normal Butane	5	0	0	1,589	765	0	233	0	-
Isobutane	13	0	0	567	276	0	573	0	-
Natural Gasoline	11	0	0	1,091	394	0	5,342	0	-
Motor Gasoline Blending Components	6,385	0	769	1,304	571	44,363	4,862	0	2,940
Reformulated - RBOB	0	0	0	0	-	8,328	1,993	-	1,714
Conventional	6,385	0	769	1,304	571	36,035	2,869	0	1,226
CBOB	6,385	0	769	1,304	571	36,035	2,502	0	1,226
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	367	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	60	0	265	107	768	3,024	468	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	60	0	265	107	768	3,024	468	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	60	0	265	107	768	3,024	468	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	247	0	131	88	699	12,123	1,281	0	170
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,708	0	344	872	577	24,518	3,271	0	393
15 ppm sulfur and under	2,708	0	344	872	577	22,586	3,167	0	393
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	26	104	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,906	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	14,462	73	3,249	74,219	12,616	85,708	46,720	0	3,503

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, November 2017
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil¹	0	18,683	368	-	0	0
Petroleum Products²	0	8,494	7,579	1,776	0	0
Natural Gas Liquids	0	7,584	7,579	-	0	0
Ethane	0	1,680	2,895	-	0	0
Propane	0	3,131	2,412	-	0	0
Normal Butane	0	1,294	838	-	0	0
Isobutane	0	560	508	-	0	0
Natural Gasoline	0	919	926	-	0	0
Motor Gasoline Blending Components	0	196	0	1,145	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	196	0	1,145	0	0
CBOB	0	196	0	1,145	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	395	0	371	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	395	0	371	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	395	0	371	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	18	0	20	0	0
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	301	0	240	0	0
15 ppm sulfur and under	0	301	0	240	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	-	0	-
Greater than 500 ppm sulfur	0	-	0	-	0	-
Residual Fuel Oil	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-
Total	0	27,177	7,947	1,776	0	0

- = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

¹ Movements of crude oil, fuel ethanol and biodiesel 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.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, November 2017
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil ¹	97	0	—	353	1,572	—
Petroleum Products²	86	80	0	958	2,760	0
Natural Gas Liquids	—	0	—	0	0	—
Ethane	—	—	—	—	—	—
Propane	—	0	—	0	0	—
Normal Butane	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—
Unfinished Oils	17	0	—	0	170	—
Motor Gasoline Blending Components	0	0	—	498	380	—
Reformulated - RBOB	—	—	—	—	—	—
Conventional	0	0	—	498	380	—
CBOB	0	0	—	498	0	—
GTAB	—	—	—	—	—	—
Other	0	0	—	0	380	—
Renewable Fuels	0	0	0	0	852	0
Fuel Ethanol	0	0	—	0	852	—
Renewable Diesel Fuel	—	0	0	—	0	0
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	0	—	30	247	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	0	—	30	247	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	0	—	30	247	—
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	50	0	—	0	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	0	—	341	0	—
15 ppm sulfur and under	0	0	—	341	0	—
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—
Residual Fuel Oil	0	80	—	0	939	—
Less than 0.31 percent sulfur	—	80	—	0	0	—
0.31 to 1.00 percent sulfur	0	0	—	—	62	—
Greater than 1.00 percent sulfur	0	0	—	0	877	—
Petrochemical Feedstocks	19	0	—	0	103	—
Naphtha for Petrochemical Feedstock Use	0	0	—	—	82	—
Other Oils for Petrochemical Feedstock Use	19	0	—	0	21	—
Special Naphthas	0	0	—	—	0	—
Lubricants	0	0	—	0	0	—
Waxes	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	89	69	—
Miscellaneous Products	0	0	—	—	0	—
Total	183	80	0	1,311	4,332	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, November 2017
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil ¹	1,613	—	1,613	—	0	—	0	0	0
Petroleum Products²	20,677	—	980	19,697	1,805	189	0	0	0
Natural Gas Liquids	55	—	—	55	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	55	—	—	55	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	—	—	212	—	0	0	0
Motor Gasoline Blending Components	10,509	—	373	10,136	250	—	0	0	0
Reformulated - RBOB	—	—	—	—	—	—	—	—	—
Conventional	10,509	—	373	10,136	250	—	0	0	0
CBOB	10,267	—	131	10,136	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	242	—	242	—	250	—	0	0	0
Renewable Fuels	337	—	—	337	0	189	0	0	0
Fuel Ethanol	337	—	—	337	0	—	0	0	0
Renewable Diesel Fuel	—	—	—	—	—	189	—	—	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	3,603	—	—	3,603	312	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	3,603	—	—	3,603	312	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	3,603	—	—	3,603	312	—	0	0	0
Finished Aviation Gasoline	447	—	—	447	139	—	0	0	0
Kerosene-Type Jet Fuel	1,458	—	—	1,458	0	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,437	—	303	3,134	365	—	0	0	0
15 ppm sulfur and under	3,437	—	303	3,134	365	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Residual Fuel Oil	100	—	—	100	0	—	0	0	0
Less than 0.31 percent sulfur	0	—	—	—	—	—	0	—	0
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	100	—	—	100	0	—	0	0	0
Petrochemical Feedstocks	0	—	—	—	0	—	0	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	0	—	—	—	0	—	0	0	0
Special Naphthas	—	—	—	—	47	—	—	0	0
Lubricants	501	—	304	197	228	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	230	—	—	230	213	—	0	0	0
Miscellaneous Products	—	—	—	—	39	—	—	0	0
Total	22,290	—	2,593	19,697	1,805	189	0	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

¹ Movements of crude oil, fuel ethanol and biodiesel 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.

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, November 2017
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	1,838	145	0	3,035
Propane	32	278	0	0	1,177	1,041	0	204
Propylene	0	0	-	-	205	336	-	-
Normal Butane	131	16	0	0	749	37	0	371
Isobutane	106	5	0	0	187	32	0	143
Fuel Ethanol	0	0	0	0	9,409	4,374	282	3,098
Biodiesel	0	0	0	0	370	314	35	227
Marketable Petroleum Coke	0	26	0	0	998	141	0	0
Asphalt and Road Oil	31	0	0	0	280	156	0	150

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	51	0	0	143	143
Propane	155	147	0	0	0	0	0	125
Propylene	0	0	-	-	0	0	0	-
Normal Butane	188	159	0	143	0	0	0	146
Isobutane	18	47	0	42	0	0	0	40
Fuel Ethanol	0	0	0	241	0	0	0	110
Biodiesel	0	0	0	71	0	0	0	0
Marketable Petroleum Coke	129	0	0	0	0	0	233	50
Asphalt and Road Oil	161	20	0	20	0	38	96	94

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	0	0	0	0
Asphalt and Road Oil	0	0	0	41

- = 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, November 2017
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	72	97	0	169
3	73	0	0	73
4	0	-	0	0
5	-	-	0	0
From 2 to				
1	162	353	1,838	2,353
3	51,122	1,572	145	52,839
4	6,228	-	0	6,228
5	-	-	3,035	3,035
From 3 to				
1	147	1,613	0	1,760
2	29,327	0	0	29,327
4	0	-	0	0
5	-	-	51	51
From 4 to				
1	0	0	0	0
2	18,683	0	0	18,683
3	368	0	143	511
5	-	-	143	143
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 Between PAD Districts, November 2017
(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	4,113	242	3,871	48,179	64,455	-16,276	53,423	31,138	22,285
Petroleum Products	124,308	15,181	109,128	42,879	60,604	-17,725	40,602	130,670	-90,069
Natural Gas Liquids	5,640	5,558	82	20,707	30,018	-9,311	29,714	9,998	19,716
Ethane	45	4,916	-4,871	7,092	12,496	-5,404	14,846	496	14,350
Propane	4,453	355	4,098	4,222	11,321	-7,099	9,259	2,757	6,502
Normal Butane	937	152	785	1,822	3,511	-1,689	2,480	723	1,757
Isobutane	205	124	81	1,299	1,205	94	1,112	680	432
Natural Gasoline	0	11	-11	6,272	1,485	4,787	2,017	5,342	-3,325
Refinery Olefins	205	0	205	0	541	-541	336	0	336
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	205	0	205	0	541	-541	336	0	336
Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	17	-17	229	170	59	170	212	-42
Motor Gasoline Blending Components	56,139	6,385	49,754	11,693	3,522	8,171	1,684	62,924	-61,240
Reformulated - RBOB	8,328	0	8,328	1,993	0	1,993	0	12,035	-12,035
Conventional	47,811	6,385	41,426	9,700	3,522	6,178	1,684	50,889	-49,205
CBOB	47,569	6,385	41,184	9,083	3,142	5,941	1,304	50,030	-48,726
GTAB	0	0	-	-	-	-	-	-	-
Other	242	0	242	617	380	237	380	859	-479
Renewable Fuels	10,115	0	10,115	0	18,960	-18,960	5,540	839	4,701
Fuel Ethanol	9,746	0	9,746	0	18,014	-18,014	5,226	578	4,647
Renewable Diesel Fuel	370	0	370	0	945	-945	314	260	54
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	6,922	60	6,862	1,235	1,417	-182	354	7,407	-7,053
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	6,922	60	6,862	1,235	1,417	-182	354	7,407	-7,053
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	6,922	60	6,862	1,235	1,417	-182	354	7,407	-7,053
Finished Aviation Gasoline	447	0	447	139	0	139	0	586	-586
Kerosene-Type Jet Fuel	13,712	297	13,415	1,596	918	678	88	15,032	-14,944
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	28,640	2,708	25,932	6,645	2,134	4,511	872	31,984	-31,112
15 ppm sulfur and under	26,708	2,708	24,000	6,541	2,134	4,407	872	29,948	-29,076
Greater than 15 ppm to 500 ppm sulfur	26	0	26	104	0	104	0	130	-130
Greater than 500 ppm sulfur	1,906	0	1,906	0	0	-	0	1,906	-1,906
Residual Fuel Oil	100	80	20	0	939	-939	1,019	100	919
Petrochemical Feedstocks	0	19	-19	19	103	-84	103	0	103
Naphtha for Petrochemical Feedstock Use	0	0	-	0	82	-82	82	0	82
Other Oils for Petrochemical Feedstock Use	0	19	-19	19	21	-2	21	0	21
Special Naphthas	0	0	-	47	0	47	0	47	-47
Lubricants	501	0	501	228	0	228	0	729	-729
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	1,127	26	1,101	0	1,140	-1,140	401	129	272
Asphalt and Road Oil	760	31	729	302	743	-441	321	645	-324
Miscellaneous Products	0	0	-	39	0	39	0	39	-39
Total	128,421	15,423	112,998	91,058	125,059	-34,001	94,025	161,809	-67,784

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail Between PAD Districts, November 2017
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,228	19,338	-13,110	3,230	0	3,230
Petroleum Products	6,746	18,783	-12,037	10,745	41	10,703
Natural Gas Liquids	3,773	15,474	-11,701	1,214	0	1,214
Ethane	500	4,575	-4,075	0	0	-
Propane	1,838	5,668	-3,830	329	0	329
Normal Butane	765	2,278	-1,513	660	0	660
Isobutane	276	1,108	-832	225	0	225
Natural Gasoline	394	1,845	-1,451	0	0	-
Refinery Olefins	0	0	-	0	0	-
Ethylene	-	-	-	-	-	-
Propylene	0	0	-	0	0	-
Butylene	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-
Unfinished Oils	0	0	-	0	0	-
Motor Gasoline Blending Components	571	1,341	-770	4,085	0	4,085
Reformulated - RBOB	-	-	-	1,714	0	1,714
Conventional	571	1,341	-770	2,371	0	2,371
CBOB	571	1,341	-770	2,371	0	2,371
GTAB	-	-	-	-	-	-
Other	0	0	-	0	0	-
Renewable Fuels	316	110	206	3,937	0	3,937
Fuel Ethanol	282	110	171	3,450	0	3,450
Renewable Diesel Fuel	35	0	35	487	0	487
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	768	766	2	371	0	371
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	768	766	2	371	0	371
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	768	766	2	371	0	371
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	699	38	661	190	0	190
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	577	541	36	633	0	633
15 ppm sulfur and under	577	541	36	633	0	633
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	0	-
Waxes	0	0	-	0	0	-
Marketable Petroleum Coke	0	284	-284	50	0	50
Asphalt and Road Oil	41	228	-187	264	41	223
Miscellaneous Products	0	0	-	0	0	-
Total	12,974	38,120	-25,147	13,974	41	13,933

- = No Data Reported.

Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

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, New Hampshire, 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.

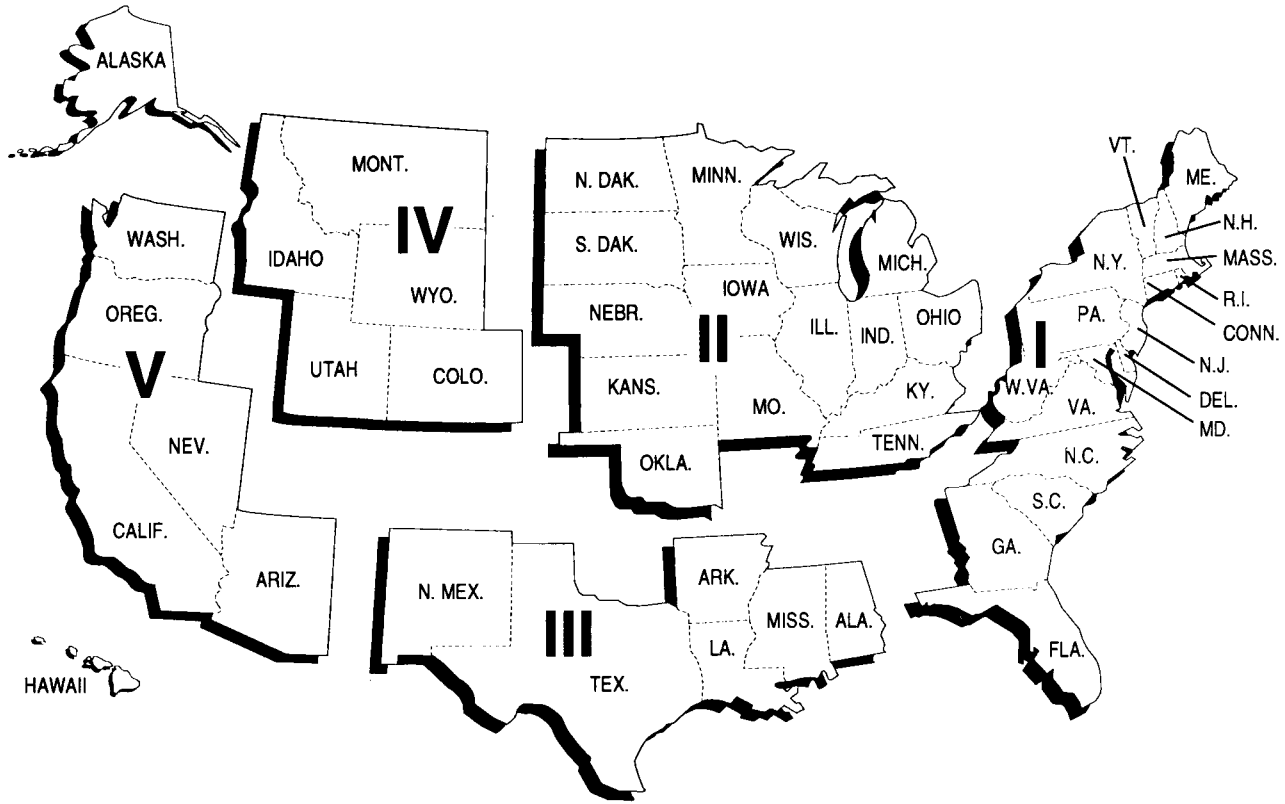
PAD District IV

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

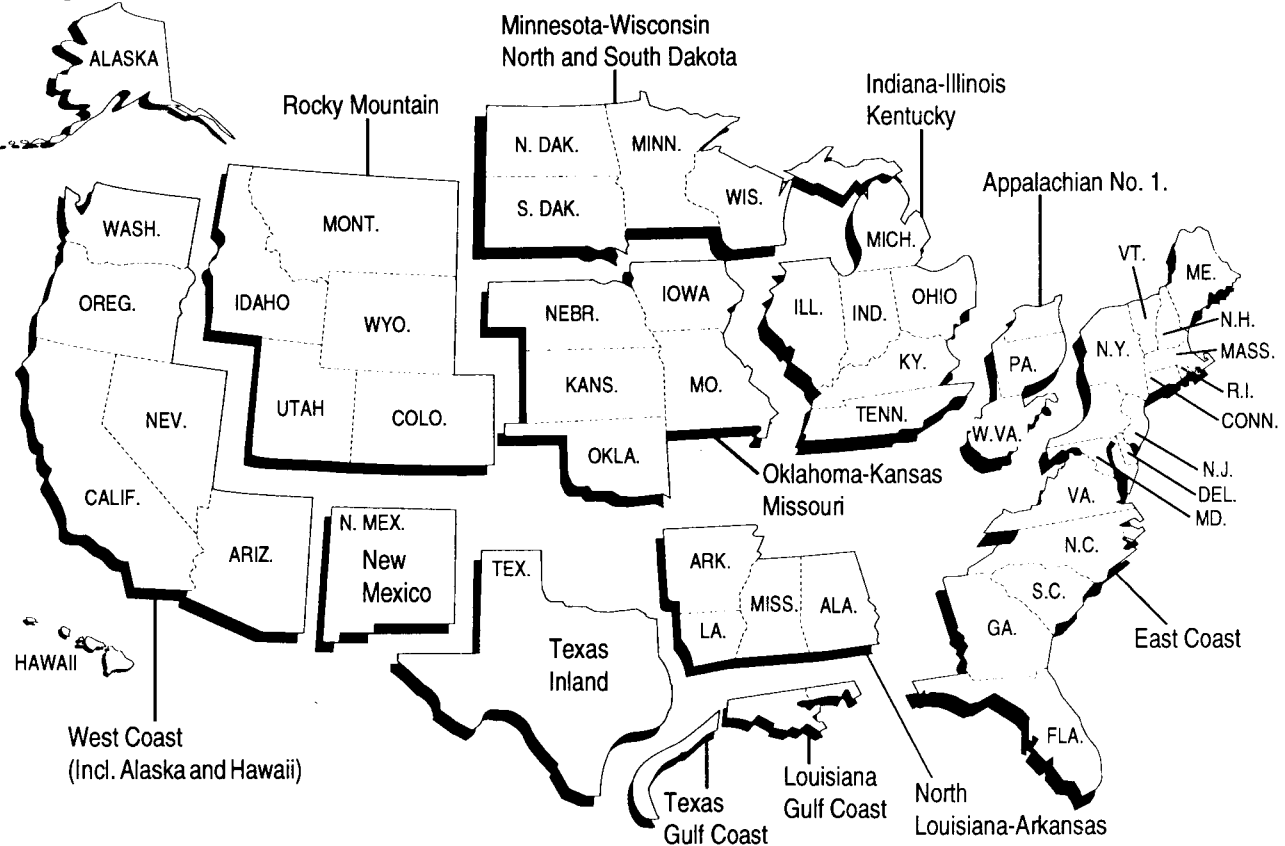
PAD District V

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

Petroleum Administration for Defense (PAD) Districts



Refining Districts



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_mdbl_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_mdbl_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

The 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

There 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.

The 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
BP Products North America	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	58
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; $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$ (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:

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

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 (C₄H₁₀). 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 (C₄H₁₀). 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 (C₄H₁₀). 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 (C₄H₈). 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 Outer 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) (CH₃)₃COC₂H₅. An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

Ethane (C₂H₆). 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 (C₂H₄). 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 (C₂H₅OH). 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 (C₄H₁₀). 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 (C₄H₈). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C₆H₁₄). 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 (C₄), an alkylation process feedstock, and normal pentane and hexane into isopentane (C₅) and isohexane (C₆), 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 (CH₃OH). 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 when reported 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 members (with years of membership) include Algeria (1969-present), Angola (2007-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-present), 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).

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 (C₃H₈). 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 (C₃H₆). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Propylene (C₃H₆) (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.