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Administration

Petroleum Supply Monthly

with data for August 2017

October 2017



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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
- Net imports
- 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, August 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	285,278	--	--	244,595	-2,723	-23,136	526,356	23,930	0	1,138,141
Hydrocarbon Gas Liquids	114,827	-689	25,854	4,540	--	23,750	14,877	39,414	66,491	230,697
Natural Gas Liquids	114,827	-689	17,084	3,807	--	24,163	14,877	39,414	66,491	224,201
Ethane	41,646	--	257	--	--	1,712	--	6,515	33,676	51,807
Propane	37,904	--	9,578	2,824	--	9,937	--	22,310	18,059	74,074
Normal Butane	9,537	--	7,402	334	--	11,028	2,064	5,302	-1,121	65,619
Isobutane	11,049	--	-153	343	--	471	6,889	216	3,663	9,060
Natural Gasoline	14,691	-689	--	306	--	1,015	5,924	5,070	2,299	23,641
Refinery Olefins	--	--	8,770	733	--	-413	--	--	9,916	6,496
Ethylene	--	--	20	--	--	0	--	--	20	0
Propylene	--	--	8,670	539	--	872	--	--	8,337	5,663
Butylene	--	--	71	194	--	-1,244	--	--	1,509	804
Isobutylene	--	--	9	--	--	-41	--	--	50	29
Other Liquids	--	38,209	--	43,425	-2,400	-7,033	72,786	13,773	-293	319,922
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	38,213	--	2,371	3,388	323	38,551	5,098	0	29,433
Hydrogen	--	--	--	--	6,866	--	6,866	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,215	--	155	70	184	--	2,256	0	2,339
Renewable Fuels (including Fuel Ethanol) ...	--	35,998	--	2,209	-3,596	134	31,635	2,842	0	27,071
Fuel Ethanol ⁵	--	32,447	--	256	-602	50	29,596	2,455	0	21,197
Renewable Fuels Except Fuel Ethanol	--	3,551	--	1,953	-2,994	84	2,039	387	0	5,874
Other Hydrocarbons	--	--	--	7	48	5	50	--	0	23
Unfinished Oils	--	--	--	19,708	--	926	11,726	7,342	-286	88,864
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	21,346	-5,788	-8,292	22,512	1,334	0	201,608
Reformulated	--	--	--	6,913	449	-2,842	10,192	12	0	47,075
Conventional	--	-4	--	14,433	-6,237	-5,450	12,320	1,322	0	154,533
Aviation Gasoline Blend. Comp.	--	--	--	--	--	10	-3	--	-7	17
Finished Petroleum Products	--	124	622,651	19,143	9,548	-5,273	--	97,954	558,785	297,422
Finished Motor Gasoline	--	124	315,438	730	6,390	1,427	--	18,390	302,865	24,584
Reformulated	--	--	102,883	--	-83	-6	--	--	102,806	47
Conventional	--	124	212,555	730	6,473	1,433	--	18,390	200,059	24,537
Finished Aviation Gasoline	--	--	495	23	--	95	--	--	423	851
Kerosene-Type Jet Fuel	--	--	54,686	5,397	--	-908	--	6,162	54,829	40,101
Kerosene	--	--	92	315	--	48	--	335	24	1,752
Distillate Fuel Oil ⁵	--	--	156,977	3,482	3,158	-3,248	--	43,116	123,749	147,820
15 ppm sulfur and under	--	--	146,678	1,879	3,158	-5,524	--	37,323	119,915	129,001
Greater than 15 ppm to 500 ppm sulfur	--	--	3,789	36	--	553	--	3,219	53	7,674
Greater than 500 ppm sulfur	--	--	6,510	1,567	--	1,723	--	2,573	3,781	11,145
Residual Fuel Oil ⁶	--	--	13,477	4,665	--	902	--	6,860	10,380	34,509
Less than 0.31 percent sulfur	--	--	1,560	763	--	-404	--	NA	NA	3,313
0.31 to 1.00 percent sulfur	--	--	1,723	276	--	135	--	NA	NA	6,204
Greater than 1.00 percent sulfur	--	--	10,194	3,626	--	1,171	--	NA	NA	24,986
Petrochemical Feedstocks	--	--	9,496	772	--	-65	--	--	10,333	3,085
Naphtha for Petro. Feed. Use	--	--	6,168	635	--	68	--	--	6,735	2,128
Other Oils for Petro. Feed. Use	--	--	3,328	137	--	-133	--	--	3,598	957
Special Naphthas	--	--	989	667	--	-54	--	--	1,710	1,007
Lubricants	--	--	6,039	1,113	--	705	--	3,622	2,825	10,164
Waxes	--	--	163	178	--	28	--	133	180	805
Petroleum Coke	--	--	28,358	384	--	506	--	18,721	9,515	8,323
Marketable	--	--	21,070	384	--	506	--	18,721	2,227	8,323
Catalyst	--	--	7,288	--	--	--	--	--	7,288	--
Asphalt and Road Oil	--	--	11,313	1,395	--	-4,697	--	591	16,814	23,740
Still Gas	--	--	22,257	--	--	--	--	--	22,257	--
Miscellaneous Products	--	--	2,871	22	--	-12	--	24	2,881	681
Total	400,105	37,644	648,505	311,703	4,424	-11,692	614,019	175,071	624,983	1,986,182

-- = 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-August 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	2,213,394	--	--	1,963,631	53,094	-41,273	4,054,220	217,172	0	1,138,141
Hydrocarbon Gas Liquids	886,330	-5,233	177,878	45,290	--	30,549	124,835	329,908	618,973	230,697
Natural Gas Liquids	886,330	-5,233	109,309	38,043	--	33,398	124,835	329,908	540,308	224,201
Ethane	330,743	--	1,291	--	--	1,120	--	40,559	290,355	51,807
Propane	290,613	--	74,224	30,188	--	-3,046	--	211,429	186,642	74,074
Normal Butane	72,173	--	34,486	2,747	--	35,780	32,311	31,732	9,583	65,619
Isobutane	85,059	--	-692	2,444	--	935	51,418	1,189	33,269	9,060
Natural Gasoline	107,742	-5,233	--	2,664	--	-1,391	41,106	45,000	20,458	23,641
Refinery Olefins	--	--	68,569	7,247	--	-2,849	--	--	78,665	6,496
Ethylene	--	--	169	--	--	0	--	--	169	0
Propylene	--	--	69,475	5,788	--	-1,313	--	--	76,576	5,663
Butylene	--	--	-1,268	1,459	--	-1,565	--	--	1,756	804
Isobutylene	--	--	193	--	--	29	--	--	164	29
Other Liquids	--	290,444	--	317,430	19,562	1,816	507,344	116,183	2,093	319,922
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	290,477	--	14,933	28,690	1,031	293,354	39,715	0	29,433
Hydrogen	--	--	--	--	53,583	--	53,583	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	17,268	--	2,684	-2,644	862	318	16,128	0	2,339
Renewable Fuels (including Fuel Ethanol)	--	273,209	--	12,126	-22,421	163	239,164	23,587	0	27,071
Fuel Ethanol ⁵	--	249,325	--	1,005	-3,568	1,666	223,337	21,759	0	21,197
Renewable Fuels Except Fuel Ethanol	--	23,884	--	11,121	-18,853	-1,503	15,827	1,827	0	5,874
Other Hydrocarbons	--	--	--	123	172	6	289	--	0	23
Unfinished Oils	--	--	--	146,382	--	8,282	76,408	59,525	2,167	88,864
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-33	--	156,115	-9,128	-7,505	137,516	16,943	0	201,608
Reformulated	--	-1	--	55,642	33,621	-5,074	94,271	65	0	47,075
Conventional	--	-32	--	100,473	-42,749	-2,431	43,245	16,878	0	154,533
Aviation Gasoline Blend. Comp.	--	--	--	--	--	8	66	--	-74	17
Finished Petroleum Products	--	778	4,778,551	158,834	32,421	-32,249	--	801,082	4,201,751	297,422
Finished Motor Gasoline	--	778	2,410,344	8,150	12,696	-4,026	--	163,598	2,272,396	24,584
Reformulated	--	--	789,174	--	-29,271	0	--	--	759,903	47
Conventional	--	778	1,621,170	8,150	41,967	-4,026	--	163,598	1,512,493	24,537
Finished Aviation Gasoline	--	--	2,606	80	--	-143	--	--	2,829	851
Kerosene-Type Jet Fuel	--	--	416,004	34,988	--	-2,675	--	48,263	405,404	40,101
Kerosene	--	--	1,188	538	--	-509	--	1,188	1,047	1,752
Distillate Fuel Oil ⁵	--	--	1,216,432	32,561	19,725	-17,636	--	336,529	949,825	147,820
15 ppm sulfur and under	--	--	1,134,776	21,480	19,725	-14,019	--	284,332	905,669	129,001
Greater than 15 ppm to 500 ppm sulfur	--	--	28,546	314	--	-1,148	--	28,648	1,360	7,674
Greater than 500 ppm sulfur	--	--	53,110	10,767	--	-2,469	--	23,549	42,797	11,145
Residual Fuel Oil ⁶	--	--	104,919	45,700	--	-7,034	--	72,281	85,372	34,509
Less than 0.31 percent sulfur	--	--	13,751	2,909	--	-158	--	NA	NA	3,313
0.31 to 1.00 percent sulfur	--	--	12,801	4,772	--	-2,868	--	NA	NA	6,204
Greater than 1.00 percent sulfur	--	--	78,367	38,019	--	-4,008	--	NA	NA	24,986
Petrochemical Feedstocks	--	--	78,195	10,327	--	-155	--	--	88,677	3,085
Naphtha for Petro. Feed. Use	--	--	50,194	7,115	--	117	--	--	57,192	2,128
Other Oils for Petro. Feed. Use	--	--	28,001	3,212	--	-272	--	--	31,485	957
Special Naphthas	--	--	8,960	3,347	--	-211	--	--	12,518	1,007
Lubricants	--	--	42,808	10,129	--	-2,211	--	28,711	26,437	10,164
Waxes	--	--	1,253	1,122	--	134	--	987	1,254	805
Petroleum Coke	--	--	222,271	2,118	--	1,340	--	145,417	77,632	8,323
Marketable	--	--	166,486	2,118	--	1,340	--	145,417	21,847	8,323
Catalyst	--	--	55,785	--	--	--	--	--	55,785	--
Asphalt and Road Oil	--	--	81,515	9,743	--	874	--	3,820	86,564	23,740
Still Gas	--	--	168,845	--	--	--	--	--	168,845	--
Miscellaneous Products	--	--	23,211	31	--	3	--	288	22,951	681
Total	3,099,724	285,989	4,956,429	2,485,185	105,077	-41,157	4,686,399	1,464,345	4,822,816	1,986,182

-- = 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.

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 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 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	9,203	--	--	7,890	-88	-746	16,979	772	0
Hydrocarbon Gas Liquids	3,704	-22	834	146	--	766	480	1,271	2,145
Natural Gas Liquids	3,704	-22	551	123	--	779	480	1,271	1,825
Ethane	1,343	--	8	--	--	55	--	210	1,086
Propane	1,223	--	309	91	--	321	--	720	583
Normal Butane	308	--	239	11	--	356	67	171	-36
Isobutane	356	--	-5	11	--	15	222	7	118
Natural Gasoline	474	-22	--	10	--	33	191	164	74
Refinery Olefins	--	--	283	24	--	-13	--	--	320
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	280	17	--	28	--	--	269
Butylene	--	--	2	6	--	-40	--	--	49
Isobutylene	--	--	0	--	--	-1	--	--	2
Other Liquids	--	1,233	--	1,401	-77	-227	2,348	444	-9
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,233	--	76	109	10	1,244	164	0
Hydrogen	--	--	--	--	221	--	221	--	0
Oxygenates (excluding Fuel Ethanol)	--	71	--	5	2	6	--	73	0
Renewable Fuels (including Fuel Ethanol)	--	1,161	--	71	-116	4	1,020	92	0
Fuel Ethanol ⁵	--	1,047	--	8	-19	2	955	79	0
Renewable Fuels Except Fuel Ethanol	--	115	--	63	-97	3	66	12	0
Other Hydrocarbons	--	--	--	0	2	0	2	--	0
Unfinished Oils	--	--	--	636	--	30	378	237	-9
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	689	-187	-267	726	43	0
Reformulated	--	--	--	223	14	-92	329	0	0
Conventional	--	0	--	466	-201	-176	397	43	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	4	20,086	618	308	-170	--	3,160	18,025
Finished Motor Gasoline	--	4	10,175	24	206	46	--	593	9,770
Reformulated	--	--	3,319	--	-3	0	--	--	3,316
Conventional	--	4	6,857	24	209	46	--	593	6,454
Finished Aviation Gasoline	--	--	16	1	--	3	--	--	14
Kerosene-Type Jet Fuel	--	--	1,764	174	--	-29	--	199	1,769
Kerosene	--	--	3	10	--	2	--	11	1
Distillate Fuel Oil ⁵	--	--	5,064	112	102	-105	--	1,391	3,992
15 ppm sulfur and under	--	--	4,732	61	102	-178	--	1,204	3,868
Greater than 15 ppm to 500 ppm sulfur	--	--	122	1	--	18	--	104	2
Greater than 500 ppm sulfur	--	--	210	51	--	56	--	83	122
Residual Fuel Oil ⁶	--	--	435	150	--	29	--	221	335
Less than 0.31 percent sulfur	--	--	50	25	--	-13	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	56	9	--	4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	329	117	--	38	--	NA	NA
Petrochemical Feedstocks	--	--	306	25	--	-2	--	--	333
Naphtha for Petro. Feed. Use	--	--	199	20	--	2	--	--	217
Other Oils for Petro. Feed. Use	--	--	107	4	--	-4	--	--	116
Special Naphthas	--	--	32	22	--	-2	--	--	55
Lubricants	--	--	195	36	--	23	--	117	91
Waxes	--	--	5	6	--	1	--	4	6
Petroleum Coke	--	--	915	12	--	16	--	604	307
Marketable	--	--	680	12	--	16	--	604	72
Catalyst	--	--	235	--	--	--	--	--	235
Asphalt and Road Oil	--	--	365	45	--	-152	--	19	542
Still Gas	--	--	718	--	--	--	--	--	718
Miscellaneous Products	--	--	93	1	--	0	--	1	93
Total	12,907	1,214	20,920	10,055	143	-377	19,807	5,647	20,161

-- = 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-August 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	9,109	--	--	8,081	218	-170	16,684	894	0
Hydrocarbon Gas Liquids	3,647	-22	732	186	--	126	514	1,358	2,547
Natural Gas Liquids	3,647	-22	450	157	--	137	514	1,358	2,223
Ethane	1,361	--	--	--	--	5	--	167	1,195
Propane	1,196	--	305	124	--	-13	--	870	768
Normal Butane	297	--	142	11	--	147	133	131	39
Isobutane	350	--	-258	10	--	4	212	5	137
Natural Gasoline	443	-22	--	11	--	-6	169	185	84
Refinery Olefins	--	--	282	30	--	-12	--	--	324
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	286	24	--	-5	--	--	315
Butylene	--	--	-5	6	--	-6	--	--	7
Isobutylene	--	--	404	--	--	0	--	--	1
Other Liquids	--	1,195	--	1,306	81	7	2,088	478	9
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,195	--	61	118	4	1,207	163	0
Hydrogen	--	--	--	--	221	--	221	--	0
Oxygenates (excluding Fuel Ethanol)	--	71	--	11	-11	4	1	66	0
Renewable Fuels (including Fuel Ethanol)	--	1,124	--	50	-92	1	984	97	0
Fuel Ethanol ⁵	--	1,026	--	4	-15	7	919	90	0
Renewable Fuels Except Fuel Ethanol	--	98	--	46	-78	-6	65	8	0
Other Hydrocarbons	--	--	--	1	1	0	1	--	0
Unfinished Oils	--	--	--	602	--	34	314	245	9
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	642	-38	-31	566	70	0
Reformulated	--	0	--	229	138	-21	388	0	0
Conventional	--	0	--	413	-176	-10	178	69	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	19,665	654	133	-133	--	3,297	17,291
Finished Motor Gasoline	--	3	9,919	34	52	-17	--	673	9,351
Reformulated	--	--	3,248	--	-120	0	--	--	3,127
Conventional	--	3	6,671	34	173	-17	--	673	6,224
Finished Aviation Gasoline	--	--	11	0	--	-1	--	--	12
Kerosene-Type Jet Fuel	--	--	1,712	144	--	-11	--	199	1,668
Kerosene	--	--	5	2	--	-2	--	5	4
Distillate Fuel Oil ⁵	--	--	5,006	134	81	-73	--	1,385	3,909
15 ppm sulfur and under	--	--	4,670	88	81	-58	--	1,170	3,727
Greater than 15 ppm to 500 ppm sulfur	--	--	117	1	--	-5	--	118	6
Greater than 500 ppm sulfur	--	--	219	44	--	-10	--	97	176
Residual Fuel Oil ⁶	--	--	432	188	--	-29	--	297	351
Less than 0.31 percent sulfur	--	--	57	12	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	53	20	--	-12	--	NA	NA
Greater than 1.00 percent sulfur	--	--	322	156	--	-16	--	NA	NA
Petrochemical Feedstocks	--	--	322	42	--	-1	--	--	365
Naphtha for Petro. Feed. Use	--	--	207	29	--	0	--	--	235
Other Oils for Petro. Feed. Use	--	--	115	13	--	-1	--	--	130
Special Naphthas	--	--	37	14	--	-1	--	--	52
Lubricants	--	--	176	42	--	-9	--	118	109
Waxes	--	--	5	5	--	1	--	4	5
Petroleum Coke	--	--	915	9	--	6	--	598	319
Marketable	--	--	685	9	--	6	--	598	90
Catalyst	--	--	230	--	--	--	--	--	230
Asphalt and Road Oil	--	--	335	40	--	4	--	16	356
Still Gas	--	--	695	--	--	--	--	--	695
Miscellaneous Products	--	--	96	0	--	0	--	1	94
Total	12,756	1,177	20,397	10,227	432	-169	19,286	6,026	19,847

-- = 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, August 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	1,586	--	--	35,049	1,229	-1,351	1,179	35,333	1	0	17,334
Hydrocarbon Gas Liquids	13,444	-14	1,647	953	-1,146	--	936	759	2,773	10,416	9,541
Natural Gas Liquids	13,444	-14	1,259	735	-1,501	--	974	759	2,773	9,417	9,381
Ethane	5,441	--	--	--	--	--	-1	--	1,050	3	407
Propane	4,565	--	737	664	2,527	--	849	--	1,255	6,389	5,797
Normal Butane	1,373	--	550	13	248	--	99	266	347	1,472	2,724
Isobutane	700	--	-28	58	124	--	24	431	--	399	147
Natural Gasoline	1,365	-14	--	--	-11	--	3	62	121	1,154	306
Refinery Olefins	--	--	388	218	--	--	-38	--	--	999	160
Ethylene	--	--	11	--	--	--	--	--	--	11	--
Propylene	--	--	421	218	--	--	15	--	--	979	121
Butylene	--	--	-103	--	--	--	-12	--	--	-91	11
Isobutylene	--	--	59	--	--	--	-41	--	--	100	28
Other Liquids	--	983	--	21,698	58,412	2,815	-4,433	88,365	449	-473	69,770
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	986	--	1,164	10,002	-776	-74	11,149	301	0	9,320
Hydrogen	--	--	--	--	--	92	--	92	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	986	--	1,164	10,002	-870	-74	11,057	300	0	9,320
Fuel Ethanol	--	795	--	--	9,706	45	-510	10,770	286	0	6,675
Renewable Fuels Except Fuel Ethanol	--	191	--	1,164	297	-915	436	287	14	0	2,645
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,890	-45	--	-111	2,286	143	-473	5,188
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	18,644	48,455	3,591	-4,248	74,930	5	0	55,262
Reformulated	--	--	--	6,913	8,771	476	-725	16,884	1	0	17,949
Conventional	--	-3	--	11,731	39,684	3,116	-3,523	58,046	5	0	37,313
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	124,161	8,369	43,634	-2,721	-3,864	--	5,243	172,063	83,329
Finished Motor Gasoline	--	--	104,180	620	6,133	-3,636	521	--	21	106,755	5,155
Reformulated	--	--	41,220	--	--	-121	-2	--	--	41,101	32
Conventional	--	--	62,960	620	6,133	-3,515	523	--	21	65,654	5,123
Finished Aviation Gasoline	--	--	--	15	1,582	--	4	--	--	1,593	174
Kerosene-Type Jet Fuel	--	--	3,377	1,751	13,494	--	-1,193	--	17	19,798	9,047
Kerosene	--	--	-31	315	--	--	-63	--	291	56	1,442
Distillate Fuel Oil ⁶	--	--	10,855	2,537	20,451	915	-1,697	--	2,040	34,414	52,109
15 ppm sulfur and under	--	--	9,745	1,630	18,764	915	-2,369	--	2,039	31,384	42,692
Greater than 15 ppm to 500 ppm sulfur	--	--	92	36	105	--	583	--	1	-351	5,118
Greater than 500 ppm sulfur	--	--	1,018	871	1,582	--	89	--	0	3,382	4,299
Residual Fuel Oil ⁷	--	--	1,470	1,859	--	--	104	--	1,466	1,759	8,074
Less than 0.31 percent sulfur	--	--	360	436	--	--	-182	--	NA	NA	1,719
0.31 to 1.00 percent sulfur	--	--	457	--	--	--	218	--	NA	NA	1,532
Greater than 1.00 percent sulfur	--	--	653	1,423	--	--	68	--	NA	NA	4,823
Petrochemical Feedstocks	--	--	117	3	-37	--	2	--	--	81	123
Naphtha for Petro. Feed. Use	--	--	117	3	--	--	2	--	--	118	123
Other Oils for Petro. Feed. Use	--	--	--	--	-37	--	--	--	--	-37	--
Special Naphthas	--	--	24	--	--	--	21	--	--	3	40
Lubricants	--	--	452	169	484	--	-18	--	193	930	1,016
Waxes	--	--	15	85	--	--	42	--	70	-12	485
Petroleum Coke	--	--	1,042	1	597	--	--	--	1,048	591	--
Marketable	--	--	342	1	597	--	--	--	1,048	-109	--
Catalyst	--	--	700	--	--	--	--	--	--	700	--
Asphalt and Road Oil	--	--	1,296	1,014	930	--	-1,579	--	84	4,735	5,640
Still Gas	--	--	1,268	--	--	--	--	--	--	1,268	--
Miscellaneous Products	--	--	96	--	--	--	-8	--	12	92	24
Total	15,030	969	125,808	66,069	102,129	-1,257	-6,182	124,457	8,467	182,006	179,974

-- = 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-August 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	11,373	--	--	222,862	25,194	4,347	5,089	254,683	4,004	0	17,334
Hydrocarbon Gas Liquids	100,144	-119	9,743	11,674	-6,363	--	1,774	6,422	29,221	77,662	9,541
Natural Gas Liquids	100,144	-119	6,315	8,882	-8,749	--	1,873	6,422	29,221	68,957	--
Ethane	42,128	--	--	--	--	--	-33	--	9,061	337	--
Propane	33,313	--	5,176	8,102	21,397	--	-58	--	10,548	57,498	--
Normal Butane	10,030	--	1,397	271	1,416	--	1,852	2,661	1,133	7,468	--
Isobutane	5,018	--	-258	509	1,283	--	-11	3,098	5	3,460	--
Natural Gasoline	9,655	-119	--	--	-82	--	123	663	8,474	194	--
Refinery Olefins	--	--	3,428	2,792	--	--	-99	--	--	8,705	--
Ethylene	--	--	109	--	--	--	--	--	--	109	--
Propylene	--	--	3,347	2,785	--	--	-38	--	--	8,556	--
Butylene	--	--	-432	7	--	--	-89	--	--	-336	--
Isobutylene	--	--	404	--	--	--	28	--	--	376	--
Other Liquids	--	7,544	--	155,340	459,666	41,922	-3,340	669,403	11,881	-13,472	69,770
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	7,568	--	5,555	76,276	-3,662	209	84,875	652	0	9,320
Hydrogen	--	--	--	--	--	801	--	801	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	9	--	--	9	0	--
Renewable Fuels (including Fuel Ethanol)	--	7,568	--	5,553	76,276	-4,471	209	84,074	643	0	9,320
Fuel Ethanol	--	6,362	--	31	75,219	726	389	81,373	576	0	6,675
Renewable Fuels Except Fuel Ethanol	--	1,206	--	5,522	1,057	-5,196	-180	2,701	68	0	2,645
Other Hydrocarbons	--	--	--	2	--	-2	--	--	--	0	--
Unfinished Oils	--	--	--	15,743	-305	--	716	17,284	10,910	-13,472	5,188
Motor Gasoline Blend.Comp. (MGBC)	--	-24	--	134,042	383,695	45,585	-4,265	567,244	319	0	55,262
Reformulated	--	--	--	55,116	68,147	20,121	-1,674	145,054	4	0	17,949
Conventional	--	-24	--	78,926	315,548	25,464	-2,591	422,190	315	0	37,313
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	932,423	73,571	371,956	-41,115	-19,430	--	41,333	1,314,932	83,329
Finished Motor Gasoline	--	--	785,524	6,725	58,463	-46,311	-337	--	2,222	802,517	5,155
Reformulated	--	--	313,422	--	--	-15,690	1	--	--	297,731	32
Conventional	--	--	472,102	6,725	58,463	-30,621	-338	--	2,222	504,785	5,123
Finished Aviation Gasoline	--	--	--	42	9,046	--	10	--	--	9,078	174
Kerosene-Type Jet Fuel	--	--	21,399	11,956	110,143	--	-2,031	--	1,130	144,399	9,047
Kerosene	--	--	628	483	--	--	-329	--	640	800	1,442
Distillate Fuel Oil ⁶	--	--	80,170	26,802	180,192	5,195	-14,842	--	18,927	288,274	52,109
15 ppm sulfur and under	--	--	67,429	18,333	165,656	5,195	-10,765	--	15,952	251,426	42,692
Greater than 15 ppm to 500 ppm sulfur	--	--	1,572	314	1,881	--	-1,270	--	2,873	2,164	5,118
Greater than 500 ppm sulfur	--	--	11,169	8,155	12,655	--	-2,807	--	102	34,684	4,299
Residual Fuel Oil ⁷	--	--	11,082	18,066	9	--	-2,922	--	10,524	21,555	8,074
Less than 0.31 percent sulfur	--	--	3,065	1,124	-103	--	719	--	NA	NA	1,719
0.31 to 1.00 percent sulfur	--	--	3,113	2,165	-17	--	-1,111	--	NA	NA	1,532
Greater than 1.00 percent sulfur	--	--	4,904	14,777	129	--	-2,530	--	NA	NA	4,823
Petrochemical Feedstocks	--	--	906	9	-195	--	-36	--	--	756	123
Naphtha for Petro. Feed. Use	--	--	906	9	--	--	-36	--	--	951	123
Other Oils for Petro. Feed. Use	--	--	--	--	-195	--	--	--	--	-195	--
Special Naphthas	--	--	162	--	--	--	18	--	--	144	40
Lubricants	--	--	3,128	1,886	4,142	--	-192	--	1,625	7,723	1,016
Waxes	--	--	49	586	9	--	108	--	552	-16	485
Petroleum Coke	--	--	8,480	209	3,816	--	--	--	4,986	7,520	--
Marketable	--	--	3,053	209	3,816	--	--	--	4,986	2,093	--
Catalyst	--	--	5,427	--	--	--	--	--	--	5,427	--
Asphalt and Road Oil	--	--	9,766	6,807	6,331	--	1,136	--	630	21,137	5,640
Still Gas	--	--	10,354	--	--	--	--	--	--	10,354	--
Miscellaneous Products	--	--	775	--	--	--	-13	--	96	692	24
Total	111,517	7,425	942,166	463,447	850,453	5,154	-15,907	930,508	86,439	1,379,122	179,974

-- = 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, August 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	51	--	--	1,131	40	-44	38	1,140	0	0
Hydrocarbon Gas Liquids	434	0	53	31	-37	--	30	24	89	336
Natural Gas Liquids	434	0	41	24	-48	--	31	24	89	304
Ethane	176	--	--	--	--	--	0	--	34	0
Propane	147	--	24	21	82	--	27	--	--	206
Normal Butane	44	--	18	0	8	--	3	9	11	47
Isobutane	23	--	-1	2	4	--	1	14	--	13
Natural Gasoline	44	0	--	--	0	--	0	2	4	37
Refinery Olefins	--	--	13	7	--	--	-1	--	--	32
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	14	7	11	--	0	--	--	32
Butylene	--	--	-3	--	--	--	0	--	--	-3
Isobutylene	--	--	2	--	--	--	-1	--	--	3
Other Liquids	--	32	--	700	1,884	91	-143	2,850	14	-15
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32	--	38	323	-25	-2	360	10	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	32	--	38	323	-28	-2	357	10	0
Fuel Ethanol ⁶	--	26	--	--	313	1	-16	347	9	0
Renewable Fuels Except Fuel Ethanol	--	6	--	38	10	-30	14	9	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	61	-1	--	-4	74	5	-15
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	601	1,563	116	-137	2,417	0	0
Reformulated	--	--	--	223	283	15	-23	545	0	0
Conventional	--	0	--	378	1,280	101	-114	1,872	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	4,005	270	1,408	-88	-125	--	169	5,550
Finished Motor Gasoline	--	--	3,361	20	198	-117	17	--	1	3,444
Reformulated	--	--	1,330	--	--	-4	0	--	--	1,326
Conventional	--	--	2,031	20	198	-113	17	--	1	2,118
Finished Aviation Gasoline	--	--	--	0	51	--	0	--	--	51
Kerosene-Type Jet Fuel	--	--	109	56	435	--	-38	--	1	639
Kerosene	--	--	-1	10	--	--	-2	--	9	2
Distillate Fuel Oil ⁶	--	--	350	82	660	30	-55	--	66	1,110
15 ppm sulfur and under	--	--	314	53	605	30	-76	--	66	1,012
Greater than 15 ppm to 500 ppm sulfur	--	--	3	1	3	--	19	--	0	-11
Greater than 500 ppm sulfur	--	--	33	28	51	--	3	--	0	109
Residual Fuel Oil ⁷	--	--	47	60	--	--	3	--	47	57
Less than 0.31 percent sulfur	--	--	12	14	--	--	-6	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	--	--	--	7	--	NA	NA
Greater than 1.00 percent sulfur	--	--	21	46	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	4	0	-1	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	4	0	--	--	0	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	--	-1	--	--	--	--	-1
Special Naphthas	--	--	1	--	--	--	1	--	--	0
Lubricants	--	--	15	5	16	--	-1	--	6	30
Waxes	--	--	0	3	--	--	1	--	2	0
Petroleum Coke	--	--	34	0	19	--	--	--	34	19
Marketable	--	--	11	0	19	--	--	--	34	-4
Catalyst	--	--	23	--	--	--	--	--	--	23
Asphalt and Road Oil	--	--	42	33	30	--	-51	--	3	153
Still Gas	--	--	41	--	--	--	--	--	--	41
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	485	31	4,058	2,131	3,294	-41	-199	4,015	273	5,871

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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 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 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	47	--	--	917	104	18	21	1,048	16	0
Hydrocarbon Gas Liquids	412	0	40	48	-26	--	7	26	120	320
Natural Gas Liquids	412	0	26	37	-36	--	8	26	120	284
Ethane	173	--	--	--	--	--	0	--	37	1
Propane	137	--	21	33	88	--	0	--	--	237
Normal Butane	41	--	6	1	6	--	8	11	5	31
Isobutane	21	--	-1	2	5	--	0	13	0	14
Natural Gasoline	40	0	--	--	0	--	1	3	35	1
Refinery Olefins	--	--	14	11	--	--	0	--	--	36
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	14	11	10	--	0	--	--	35
Butylene	--	--	-2	0	--	--	0	--	--	-1
Isobutylene	--	--	2	--	--	--	0	--	--	2
Other Liquids	--	31	--	639	1,892	173	-14	2,755	49	-55
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	31	--	23	314	-15	1	349	3	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	23	314	-18	1	346	3	0
Fuel Ethanol ⁶	--	26	--	0	310	3	2	335	2	0
Renewable Fuels Except Fuel Ethanol	--	5	--	23	4	-21	-1	11	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	65	-1	--	3	71	45	-55
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	552	1,579	188	-18	2,334	1	0
Reformulated	--	--	--	227	280	83	-7	597	0	0
Conventional	--	0	--	325	1,299	105	-11	1,737	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,837	303	1,531	-169	-80	--	170	5,411
Finished Motor Gasoline	--	--	3,233	28	241	-191	-1	--	9	3,303
Reformulated	--	--	1,290	--	--	-65	0	--	--	1,225
Conventional	--	--	1,943	28	241	-126	-1	--	9	2,077
Finished Aviation Gasoline	--	--	--	0	37	--	0	--	--	37
Kerosene-Type Jet Fuel	--	--	88	49	453	--	-8	--	5	594
Kerosene	--	--	3	2	--	--	-1	--	3	3
Distillate Fuel Oil ⁶	--	--	330	110	742	21	-61	--	78	1,186
15 ppm sulfur and under	--	--	277	75	682	21	-44	--	66	1,035
Greater than 15 ppm to 500 ppm sulfur	--	--	6	1	8	--	-5	--	12	9
Greater than 500 ppm sulfur	--	--	46	34	52	--	-12	--	0	143
Residual Fuel Oil ⁷	--	--	46	74	0	--	-12	--	43	89
Less than 0.31 percent sulfur	--	--	13	5	0	--	3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	9	0	--	-5	--	NA	NA
Greater than 1.00 percent sulfur	--	--	20	61	1	--	-10	--	NA	NA
Petrochemical Feedstocks	--	--	4	0	-1	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	4	0	--	--	0	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	--	-1	--	--	--	--	-1
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	8	17	--	-1	--	7	32
Waxes	--	--	0	2	0	--	0	--	2	0
Petroleum Coke	--	--	35	1	16	--	--	--	21	31
Marketable	--	--	13	1	16	--	--	--	21	9
Catalyst	--	--	22	--	--	--	--	--	--	22
Asphalt and Road Oil	--	--	40	28	26	--	5	--	3	87
Still Gas	--	--	43	--	--	--	--	--	--	43
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	459	31	3,877	1,907	3,500	21	-65	3,829	356	5,675

-- = 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 Management.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 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	54,237	--	--	81,107	-905	-10,043	-4,486	123,378	5,504	0	139,967
Hydrocarbon Gas Liquids	26,824	-633	5,760	1,899	-9,790	--	6,493	2,717	8,106	6,744	61,886
Natural Gas Liquids	26,824	-633	4,444	1,490	-9,151	--	6,550	2,717	8,106	5,601	61,121
Ethane	8,667	--	--	--	--	--	685	--	2,678	1,555	5,972
Propane	9,840	--	2,551	1,030	-8,039	--	2,246	--	220	2,916	23,449
Normal Butane	3,188	--	2,103	171	-1,709	--	3,514	88	286	-135	20,303
Isobutane	1,795	--	-210	284	-176	--	-196	1,656	1	232	2,099
Natural Gasoline	3,334	-633	--	5	4,522	--	301	973	4,920	1,034	9,298
Refinery Olefins	--	--	1,316	409	--	--	-57	--	--	1,143	765
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,199	321	--	--	-73	--	--	954	686
Butylene	--	--	117	88	--	--	16	--	--	189	79
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	32,238	--	338	-10,037	-3,318	-1,250	19,822	3,258	-2,609	68,602
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	32,239	--	36	-20,144	-1,478	-36	9,831	858	0	8,288
Hydrogen	--	--	--	--	--	1,159	--	1,159	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	1	--	--	--	-1	0	--	0	0	6
Renewable Fuels (including Fuel Ethanol)	--	32,238	--	36	-20,144	-2,691	-41	8,622	858	0	8,259
Fuel Ethanol	--	29,830	--	--	-19,284	-1,703	95	8,093	655	0	7,423
Renewable Fuels Except Fuel Ethanol	--	2,408	--	36	-860	-988	-136	529	203	0	836
Other Hydrocarbons	--	--	--	--	--	55	5	50	--	0	23
Unfinished Oils	--	--	--	--	-103	--	660	-553	2,399	-2,609	15,411
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	302	10,210	-1,840	-1,874	10,544	1	0	44,903
Reformulated	--	--	--	--	2,527	-1,870	-473	1,130	--	0	5,986
Conventional	--	-1	--	302	7,683	30	-1,401	9,414	1	0	38,917
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	124	148,402	769	3,435	4,531	-2,121	--	1,431	157,951	60,932
Finished Motor Gasoline	--	124	84,090	--	842	3,543	255	--	55	88,288	6,601
Reformulated	--	--	11,487	--	--	2,198	--	--	--	13,685	--
Conventional	--	124	72,603	--	842	1,345	255	--	55	74,604	6,601
Finished Aviation Gasoline	--	--	73	5	-16	--	24	--	--	38	162
Kerosene-Type Jet Fuel	--	--	8,667	--	1,255	--	-195	--	249	9,868	7,104
Kerosene	--	--	35	--	--	--	21	--	0	14	124
Distillate Fuel Oil	--	--	35,133	25	3,345	988	-1,110	--	244	40,357	31,957
15 ppm sulfur and under	--	--	35,091	22	3,411	988	-959	--	1	40,470	31,158
Greater than 15 ppm to 500 ppm sulfur	--	--	-32	--	50	--	-119	--	46	91	360
Greater than 500 ppm sulfur	--	--	74	3	-116	--	-32	--	197	-204	439
Residual Fuel Oil ⁶	--	--	1,716	35	-967	--	40	--	403	341	1,247
Less than 0.31 percent sulfur	--	--	71	--	-32	--	8	--	NA	NA	84
0.31 to 1.00 percent sulfur	--	--	178	--	--	--	38	--	NA	NA	245
Greater than 1.00 percent sulfur	--	--	1,467	35	-935	--	-6	--	NA	NA	918
Petrochemical Feedstocks	--	--	1,005	165	-53	--	17	--	--	1,100	648
Naphtha for Petro. Feed. Use	--	--	778	77	-90	--	29	--	--	736	495
Other Oils for Petro. Feed. Use	--	--	227	88	37	--	-12	--	--	364	153
Special Naphthas	--	--	55	51	38	--	15	--	--	129	151
Lubricants	--	--	185	166	167	--	12	--	222	284	702
Waxes	--	--	28	7	--	--	-2	--	29	8	62
Petroleum Coke	--	--	6,786	18	-792	--	592	--	58	5,362	1,528
Marketable	--	--	5,170	18	-792	--	592	--	58	3,746	1,528
Catalyst	--	--	1,616	--	--	--	--	--	--	1,616	--
Asphalt and Road Oil	--	--	5,256	296	-404	--	-1,789	--	169	6,768	10,538
Still Gas	--	--	4,825	--	--	--	--	--	--	4,825	--
Miscellaneous Products	--	--	548	1	20	--	-1	--	2	568	108
Total	81,061	31,729	154,162	84,113	-17,297	-8,829	-1,364	145,917	18,299	162,086	331,387

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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-August 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	405,640	--	--	627,449	-32,295	-39,202	-11,312	924,357	48,547	0	139,967
Hydrocarbon Gas Liquids	197,851	-4,789	35,357	19,537	-75,881	--	13,959	22,488	53,510	82,118	61,886
Natural Gas Liquids	197,851	-4,789	24,164	16,000	-69,767	--	13,884	22,488	53,510	73,577	--
Ethane	64,002	--	--	--	--	--	291	--	14,906	20,357	--
Propane	73,948	--	18,414	13,027	-67,385	--	1,948	--	2,020	34,036	--
Normal Butane	23,943	--	28	1,314	-11,323	--	11,442	4,952	2,615	1,827	--
Isobutane	12,913	--	-1,147	1,624	-498	--	197	11,824	2	869	--
Natural Gasoline	23,045	-4,789	--	35	37,887	--	6	5,712	33,973	16,487	--
Refinery Olefins	--	--	11,193	3,537	--	--	75	--	--	8,541	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	10,420	3,003	--	--	53	--	--	7,256	--
Butylene	--	--	773	534	--	--	22	--	--	1,285	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	244,557	--	2,499	-91,895	-10,672	2,064	138,349	14,084	-10,008	68,602
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	244,566	--	338	-162,798	-2,246	487	73,461	5,911	0	8,288
Hydrogen	--	--	--	--	--	9,226	--	9,226	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	9	--	--	--	2	6	--	5	0	6
Renewable Fuels (including Fuel Ethanol)	--	244,557	--	306	-162,798	-11,737	475	63,946	5,907	0	8,259
Fuel Ethanol	--	228,379	--	--	-157,997	-4,882	329	60,309	4,862	0	7,423
Renewable Fuels Except Fuel Ethanol	--	16,178	--	306	-4,801	-6,855	146	3,637	1,044	0	836
Other Hydrocarbons	--	--	--	32	--	263	6	289	--	0	23
Unfinished Oils	--	--	--	--	-1,228	--	2,274	-1,270	7,776	-10,008	15,411
Motor Gasoline Blend.Comp. (MGBC)	--	-9	--	2,161	72,131	-8,426	-697	66,158	396	0	44,903
Reformulated	--	-1	--	258	16,552	-10,538	-561	6,832	0	0	5,986
Conventional	--	-8	--	1,903	55,579	2,112	-136	59,326	396	0	38,917
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	778	1,106,667	5,957	17,363	20,204	-501	--	10,991	1,140,479	60,932
Finished Motor Gasoline	--	778	630,098	--	4,361	13,308	-646	--	1,131	648,060	6,601
Reformulated	--	--	88,373	--	--	12,388	--	--	--	100,761	--
Conventional	--	778	541,725	--	4,361	919	-646	--	1,131	547,298	6,601
Finished Aviation Gasoline	--	--	408	19	384	--	-49	--	--	860	162
Kerosene-Type Jet Fuel	--	--	62,653	5	6,581	--	275	--	1,667	67,297	7,104
Kerosene	--	--	246	--	--	--	-72	--	13	305	124
Distillate Fuel Oil	--	--	267,009	212	22,047	6,896	-605	--	1,902	294,868	31,957
15 ppm sulfur and under	--	--	267,563	192	21,185	6,896	-130	--	9	295,957	31,158
Greater than 15 ppm to 500 ppm sulfur	--	--	253	--	669	--	-90	--	985	27	360
Greater than 500 ppm sulfur	--	--	-807	20	193	--	-385	--	908	-1,117	439
Residual Fuel Oil ⁶	--	--	12,448	609	-6,569	--	-242	--	2,265	4,465	1,247
Less than 0.31 percent sulfur	--	--	809	--	-337	--	52	--	NA	NA	84
0.31 to 1.00 percent sulfur	--	--	1,801	294	-95	--	-42	--	NA	NA	245
Greater than 1.00 percent sulfur	--	--	9,838	315	-6,137	--	-252	--	NA	NA	918
Petrochemical Feedstocks	--	--	7,931	1,145	-890	--	115	--	--	8,071	648
Naphtha for Petro. Feed. Use	--	--	5,819	591	-764	--	104	--	--	5,542	495
Other Oils for Petro. Feed. Use	--	--	2,112	554	-126	--	11	--	--	2,529	153
Special Naphthas	--	--	425	351	180	--	-10	--	--	966	151
Lubricants	--	--	1,913	1,575	1,819	--	-38	--	1,478	3,867	702
Waxes	--	--	282	40	--	--	18	--	199	105	62
Petroleum Coke	--	--	47,403	181	-6,350	--	450	--	1,489	39,295	1,528
Marketable	--	--	35,600	181	-6,350	--	450	--	1,489	27,492	1,528
Catalyst	--	--	11,803	--	--	--	--	--	--	11,803	--
Asphalt and Road Oil	--	--	37,276	1,819	-4,345	--	318	--	842	33,591	10,538
Still Gas	--	--	34,614	--	--	--	--	--	--	34,614	--
Miscellaneous Products	--	--	3,961	1	145	--	-15	--	5	4,117	108
Total	603,491	240,546	1,142,024	655,442	-182,708	-29,671	4,210	1,085,194	127,132	1,212,588	331,387

-- = 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, August 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	1,750	--	--	2,616	-29	-324	-145	3,980	178	0
Hydrocarbon Gas Liquids	865	-20	186	61	-316	--	209	88	261	218
Natural Gas Liquids	865	-20	143	48	-295	--	211	88	261	181
Ethane	280	--	--	--	--	--	22	--	86	50
Propane	317	--	82	33	-259	--	72	--	7	94
Normal Butane	103	--	3,602	6	-55	--	113	3	9	-4
Isobutane	58	--	-7	9	-6	--	-6	53	0	7
Natural Gasoline	108	-20	--	0	146	--	10	31	159	33
Refinery Olefins	--	--	42	13	--	--	-2	--	--	37
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	39	10	-21	--	-2	--	--	31
Butylene	--	--	4	3	--	--	1	--	--	6
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,040	--	11	-324	-107	-40	639	105	-84
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,040	--	1	-650	-48	-1	317	28	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,040	--	1	-650	-87	-1	278	28	0
Fuel Ethanol	--	962	--	--	-622	-55	3	261	21	0
Renewable Fuels Except Fuel Ethanol	--	78	--	1	-28	-32	-4	17	7	0
Other Hydrocarbons	--	--	--	--	--	2	0	2	--	0
Unfinished Oils	--	--	--	--	-3	--	21	-18	77	-84
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	10	329	-59	-60	340	0	0
Reformulated	--	--	--	--	82	-60	-15	36	--	0
Conventional	--	0	--	10	248	1	-45	304	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,787	25	111	146	-68	--	46	5,095
Finished Motor Gasoline	--	4	2,713	--	27	114	8	--	2	2,848
Reformulated	--	--	371	--	--	71	--	--	--	441
Conventional	--	4	2,342	--	27	43	8	--	2	2,407
Finished Aviation Gasoline	--	--	2	0	-1	--	1	--	--	1
Kerosene-Type Jet Fuel	--	--	280	--	40	--	-6	--	8	318
Kerosene	--	--	1	--	--	--	1	--	0	0
Distillate Fuel Oil	--	--	1,133	1	108	32	-36	--	8	1,302
15 ppm sulfur and under	--	--	1,132	1	110	32	-31	--	0	1,305
Greater than 15 ppm to 500 ppm sulfur	--	--	-1	--	2	--	-4	--	1	3
Greater than 500 ppm sulfur	--	--	2	0	-4	--	-1	--	6	-7
Residual Fuel Oil ⁶	--	--	55	1	-31	--	1	--	13	11
Less than 0.31 percent sulfur	--	--	2	--	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	6	--	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	47	1	-30	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	32	5	-2	--	1	--	--	35
Naphtha for Petro. Feed. Use	--	--	25	2	-3	--	1	--	--	24
Other Oils for Petro. Feed. Use	--	--	7	3	1	--	0	--	--	12
Special Naphthas	--	--	2	2	1	--	0	--	--	4
Lubricants	--	--	6	5	5	--	0	--	7	9
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	219	1	-26	--	19	--	2	173
Marketable	--	--	167	1	-26	--	19	--	2	121
Catalyst	--	--	52	--	--	--	--	--	--	52
Asphalt and Road Oil	--	--	170	10	-13	--	-58	--	5	218
Still Gas	--	--	156	--	--	--	--	--	--	156
Miscellaneous Products	--	--	18	0	1	--	0	--	0	18
Total	2,615	1,024	4,973	2,713	-558	-285	-44	4,707	590	5,229

-- = 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-August 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	1,669	--	--	2,582	-133	-161	-47	3,804	200	0
Hydrocarbon Gas Liquids	814	-20	146	80	-312	--	57	93	220	338
Natural Gas Liquids	814	-20	99	66	-287	--	57	93	220	303
Ethane	263	--	--	--	--	--	1	--	61	84
Propane	304	--	76	54	-277	--	8	--	8	140
Normal Butane	99	--	28	5	-47	--	47	20	11	8
Isobutane	53	--	-5	7	-2	--	1	49	0	4
Natural Gasoline	95	-20	--	0	156	--	0	24	140	68
Refinery Olefins	--	--	46	15	--	--	0	--	--	35
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	43	12	-25	--	0	--	--	30
Butylene	--	--	3	2	--	--	0	--	--	5
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,006	--	10	-378	-44	8	569	58	-41
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,006	--	1	-670	-9	2	302	24	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,006	--	1	-670	-48	2	263	24	0
Fuel Ethanol	--	940	--	--	-650	-20	1	248	20	0
Renewable Fuels Except Fuel Ethanol	--	67	--	1	-20	-28	1	15	4	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	--	-5	--	9	-5	32	-41
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	9	297	-35	-3	272	2	0
Reformulated	--	0	--	1	68	-43	-2	28	0	0
Conventional	--	0	--	8	229	9	-1	244	2	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,554	25	71	83	-2	--	45	4,693
Finished Motor Gasoline	--	3	2,593	--	18	55	-3	--	5	2,667
Reformulated	--	--	364	--	--	51	--	--	--	415
Conventional	--	3	2,229	--	18	4	-3	--	5	2,252
Finished Aviation Gasoline	--	--	2	0	2	--	0	--	--	4
Kerosene-Type Jet Fuel	--	--	258	0	27	--	1	--	7	277
Kerosene	--	--	1	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	1,099	1	91	28	-2	--	8	1,213
15 ppm sulfur and under	--	--	1,101	1	87	28	-1	--	0	1,218
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	3	--	0	--	4	0
Greater than 500 ppm sulfur	--	--	-3	0	1	--	-2	--	4	-5
Residual Fuel Oil ⁶	--	--	51	3	-27	--	-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	-25	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	33	5	-4	--	0	--	--	33
Naphtha for Petro. Feed. Use	--	--	24	2	-3	--	0	--	--	23
Other Oils for Petro. Feed. Use	--	--	9	2	-1	--	0	--	--	10
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	8	6	7	--	0	--	6	16
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	195	1	-26	--	2	--	6	162
Marketable	--	--	147	1	-26	--	2	--	6	113
Catalyst	--	--	49	--	--	--	--	--	--	49
Asphalt and Road Oil	--	--	153	7	-18	--	1	--	3	138
Still Gas	--	--	142	--	--	--	--	--	--	142
Miscellaneous Products	--	--	16	0	1	--	0	--	0	17
Total	2,484	990	4,700	2,697	-752	-122	17	4,466	523	4,990

-- = 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, August 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	177,879	--	--	73,402	9,791	5,531	-17,964	266,935	17,632	0	910,367
Hydrocarbon Gas Liquids	60,350	-20	15,188	407	21,614	--	15,401	8,847	27,077	46,214	149,134
Natural Gas Liquids	60,350	-20	8,470	301	21,330	--	15,622	8,847	27,077	38,885	143,714
Ethane	23,841	--	257	--	--	--	1,042	--	2,787	32,048	45,009
Propane	18,786	--	4,773	--	9,143	--	6,441	--	19,896	6,365	41,429
Normal Butane	3,118	--	3,602	--	2,701	--	6,884	1,066	4,174	-2,703	37,628
Isobutane	7,330	--	-162	--	692	--	574	3,714	215	3,357	6,016
Natural Gasoline	7,275	-20	--	301	-2,985	--	681	4,067	5	-182	13,632
Refinery Olefins	--	--	6,718	106	--	--	-221	--	--	7,329	5,420
Ethylene	--	--	9	--	--	--	0	--	--	9	0
Propylene	--	--	6,746	--	--	--	914	--	--	6,116	4,818
Butylene	--	--	13	106	--	--	-1,135	--	--	1,254	601
Isobutylene	--	--	-50	--	--	--	0	--	--	-50	1
Other Liquids	--	3,676	--	15,914	-57,801	-1,211	-1,861	-49,774	9,617	2,596	123,195
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	3,676	--	375	5,590	3,101	-113	9,074	3,780	0	7,560
Hydrogen	--	--	--	--	--	4,060	--	4,060	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,214	--	155	--	66	184	--	2,251	0	2,333
Renewable Fuels (including Fuel Ethanol)	--	1,462	--	213	5,590	-1,019	-297	5,014	1,529	0	5,227
Fuel Ethanol	--	801	--	--	5,432	-381	-92	4,559	1,385	0	3,827
Renewable Fuels Except Fuel Ethanol	--	661	--	213	158	-638	-205	455	144	0	1,400
Other Hydrocarbons	--	--	--	7	--	-7	--	--	--	0	--
Unfinished Oils	--	--	--	13,847	148	--	473	6,244	4,675	2,603	44,679
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1,692	-63,539	-4,311	-2,231	-65,089	1,162	0	70,939
Reformulated	--	--	--	--	-13,737	2,148	-1,294	-10,304	9	0	10,924
Conventional	--	--	--	1,692	-49,802	-6,460	-937	-54,785	1,152	0	60,015
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	10	-3	--	-7	17
Finished Petroleum Products	--	--	228,644	4,333	-48,854	5,458	2,354	--	81,904	105,322	114,633
Finished Motor Gasoline	--	--	65,298	50	-6,833	4,692	927	--	16,738	45,542	9,571
Reformulated	--	--	13,820	--	--	-2,164	--	--	--	11,656	--
Conventional	--	--	51,478	50	-6,833	6,856	927	--	16,738	33,886	9,571
Finished Aviation Gasoline	--	--	311	--	-1,606	--	52	--	--	-1,347	299
Kerosene-Type Jet Fuel	--	--	25,231	--	-15,430	--	-24	--	4,573	5,252	13,756
Kerosene	--	--	84	--	--	--	90	--	39	-45	176
Distillate Fuel Oil	--	--	86,878	692	-25,447	766	194	--	38,551	24,144	48,460
15 ppm sulfur and under	--	--	78,488	--	-23,826	766	-1,695	--	34,171	22,952	41,181
Greater than 15 ppm to 500 ppm sulfur	--	--	3,247	--	-155	--	122	--	3,027	-57	1,768
Greater than 500 ppm sulfur	--	--	5,143	692	-1,466	--	1,767	--	1,352	1,250	5,511
Residual Fuel Oil ⁷	--	--	6,910	1,234	967	--	1,153	--	4,807	3,151	20,803
Less than 0.31 percent sulfur	--	--	917	327	32	--	-267	--	NA	NA	1,286
0.31 to 1.00 percent sulfur	--	--	346	60	--	--	-219	--	NA	NA	3,780
Greater than 1.00 percent sulfur	--	--	5,647	847	935	--	1,639	--	NA	NA	15,737
Petrochemical Feedstocks	--	--	8,372	566	90	--	-84	--	--	9,112	2,309
Naphtha for Petro. Feed. Use	--	--	5,271	517	90	--	37	--	--	5,841	1,505
Other Oils for Petro. Feed. Use	--	--	3,101	49	--	--	-121	--	--	3,271	804
Special Naphthas	--	--	880	616	-38	--	-100	--	--	1,558	763
Lubricants	--	--	4,574	770	-499	--	640	--	2,833	1,372	7,543
Waxes	--	--	120	48	--	--	-12	--	29	151	258
Petroleum Coke	--	--	14,667	337	571	--	116	--	14,021	1,438	5,393
Marketable	--	--	11,053	337	571	--	116	--	14,021	-2,176	5,393
Catalyst	--	--	3,614	--	--	--	--	--	--	3,614	--
Asphalt and Road Oil	--	--	2,455	--	-609	--	-617	--	305	2,158	4,876
Still Gas	--	--	11,204	--	--	--	--	--	--	11,204	--
Miscellaneous Products	--	--	1,660	20	-20	--	19	--	10	1,631	426
Total	238,229	3,656	243,832	94,056	-75,250	9,779	-2,070	226,008	136,231	154,132	1,297,329

-- = 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-August 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	1,395,572	--	--	737,898	73,218	60,166	-30,498	2,137,981	159,371	0	910,367
Hydrocarbon Gas Liquids	480,020	-144	112,341	3,591	158,583	--	12,423	71,682	234,193	436,093	149,134
Natural Gas Liquids	480,020	-144	61,078	2,673	154,855	--	15,338	71,682	234,193	377,269	--
Ethane	198,537	--	1,291	--	--	--	879	--	16,592	267,960	--
Propane	147,465	--	39,098	14	73,225	--	-5,419	--	191,424	73,797	--
Normal Butane	22,969	--	21,028	--	18,491	--	20,783	16,370	24,715	620	--
Isobutane	57,740	--	-339	30	4,333	--	681	28,474	1,182	31,427	--
Natural Gasoline	53,309	-144	--	2,629	-26,797	--	-1,586	26,838	280	3,465	--
Refinery Olefins	--	--	51,263	918	--	--	-2,915	--	--	58,824	--
Ethylene	--	--	60	--	--	--	0	--	--	60	--
Propylene	--	--	53,484	--	--	--	-1,354	--	--	58,566	--
Butylene	--	--	-2,070	918	--	--	-1,562	--	--	410	--
Isobutylene	--	--	-211	--	--	--	1	--	--	-212	--
Other Liquids	--	28,253	--	120,130	-446,615	274	3,342	-410,237	85,185	23,751	123,195
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	28,253	--	4,489	45,166	26,263	486	72,320	31,365	0	7,560
Hydrogen	--	--	--	--	--	32,710	--	32,710	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	17,259	--	2,684	--	-2,669	856	318	16,100	0	2,333
Renewable Fuels (including Fuel Ethanol)	--	10,994	--	1,716	45,166	-3,688	-370	39,292	15,265	0	5,227
Fuel Ethanol	--	6,465	--	--	44,635	-197	502	35,657	14,744	0	3,827
Renewable Fuels Except Fuel Ethanol	--	4,529	--	1,716	531	-3,491	-872	3,635	521	0	1,400
Other Hydrocarbons	--	--	--	89	--	-89	--	--	--	0	--
Unfinished Oils	--	--	--	104,520	1,533	--	3,107	39,555	39,566	23,825	44,679
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	11,121	-493,314	-25,989	-259	-522,178	14,255	0	70,939
Reformulated	--	--	--	--	-104,092	24,177	-731	-79,237	53	0	10,924
Conventional	--	--	--	11,121	-389,222	-50,166	472	-442,941	14,202	0	60,015
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	8	66	--	-74	17
Finished Petroleum Products	--	--	1,835,405	38,770	-400,756	31,102	-9,159	--	667,501	846,180	114,633
Finished Motor Gasoline	--	--	525,645	410	-61,204	26,186	-1,903	--	148,855	344,085	9,571
Reformulated	--	--	112,078	--	--	-26,046	--	--	--	86,032	--
Conventional	--	--	413,567	410	-61,204	52,232	-1,903	--	148,855	258,053	9,571
Finished Aviation Gasoline	--	--	1,959	--	-9,610	--	-118	--	--	-7,533	299
Kerosene-Type Jet Fuel	--	--	211,948	--	-124,031	--	-1,310	--	37,820	51,407	13,756
Kerosene	--	--	230	--	--	--	-70	--	509	-209	176
Distillate Fuel Oil	--	--	687,771	2,496	-209,914	4,916	-332	--	291,780	193,821	48,460
15 ppm sulfur and under	--	--	624,565	--	-194,780	4,916	-1,202	--	253,543	182,360	41,181
Greater than 15 ppm to 500 ppm sulfur	--	--	23,882	--	-2,550	--	271	--	23,163	-2,102	1,768
Greater than 500 ppm sulfur	--	--	39,324	2,496	-12,584	--	599	--	15,073	13,564	5,511
Residual Fuel Oil ⁷	--	--	51,204	16,124	6,560	--	-3,553	--	54,892	22,549	20,803
Less than 0.31 percent sulfur	--	--	8,158	1,785	440	--	-985	--	NA	NA	1,286
0.31 to 1.00 percent sulfur	--	--	2,714	1,423	112	--	-1,509	--	NA	NA	3,780
Greater than 1.00 percent sulfur	--	--	40,332	12,916	6,008	--	-1,059	--	NA	NA	15,737
Petrochemical Feedstocks	--	--	69,334	8,868	1,085	--	-238	--	--	79,525	2,309
Naphtha for Petro. Feed. Use	--	--	43,445	6,242	764	--	45	--	--	50,406	1,505
Other Oils for Petro. Feed. Use	--	--	25,889	2,626	321	--	-283	--	--	29,119	804
Special Naphthas	--	--	8,141	2,951	-180	--	-243	--	--	11,155	763
Lubricants	--	--	33,148	6,176	-5,598	--	-2,286	--	23,498	12,514	7,543
Waxes	--	--	922	236	-9	--	8	--	186	955	258
Petroleum Coke	--	--	123,164	1,489	4,655	--	845	--	107,729	20,734	5,393
Marketable	--	--	94,859	1,489	4,655	--	845	--	107,729	-7,571	5,393
Catalyst	--	--	28,305	--	--	--	--	--	--	28,305	--
Asphalt and Road Oil	--	--	19,239	--	-2,365	--	39	--	2,046	14,789	4,876
Still Gas	--	--	88,442	--	--	--	--	--	--	88,442	--
Miscellaneous Products	--	--	14,258	20	-145	--	2	--	185	13,946	426
Total	1,875,592	28,109	1,947,746	900,389	-615,570	91,543	-23,892	1,799,426	1,146,250	1,306,024	1,297,329

-- = 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, August 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	5,738	--	--	2,368	316	178	-579	8,611	569	0
Hydrocarbon Gas Liquids	1,947	-1	490	13	697	--	497	285	873	1,491
Natural Gas Liquids	1,947	-1	273	10	688	--	504	285	873	1,254
Ethane	769	--	8	--	--	--	34	--	90	1,034
Propane	606	--	154	--	295	--	208	--	642	205
Normal Butane	101	--	116	--	87	--	222	34	135	-87
Isobutane	236	--	-5	--	22	--	19	120	7	108
Natural Gasoline	235	-1	--	10	-96	--	22	131	0	-6
Refinery Olefins	--	--	217	3	--	--	-7	--	--	236
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	218	--	9	--	29	--	--	197
Butylene	--	--	0	3	--	--	-37	--	--	40
Isobutylene	--	--	-2	--	--	--	0	--	--	-2
Other Liquids	--	119	--	513	-1,865	-39	-60	-1,606	310	84
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	119	--	12	180	100	-4	293	122	0
Hydrogen	--	--	--	--	--	131	--	131	--	0
Oxygenates (excluding Fuel Ethanol)	--	71	--	5	--	2	6	--	73	0
Renewable Fuels (including Fuel Ethanol)	--	47	--	7	180	-33	-10	162	49	0
Fuel Ethanol	--	26	--	--	175	-12	-3	147	45	0
Renewable Fuels Except Fuel Ethanol	--	21	--	7	5	-21	-7	15	5	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	447	5	--	15	201	151	84
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	55	-2,050	-139	-72	-2,100	37	0
Reformulated	--	--	--	--	-443	69	-42	-332	0	0
Conventional	--	--	--	55	-1,607	-208	-30	-1,767	37	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,376	140	-1,576	176	76	--	2,642	3,397
Finished Motor Gasoline	--	--	2,106	2	-220	151	30	--	540	1,469
Reformulated	--	--	446	--	--	-70	--	--	--	376
Conventional	--	--	1,661	2	-220	221	30	--	540	1,093
Finished Aviation Gasoline	--	--	10	--	-52	--	2	--	--	-43
Kerosene-Type Jet Fuel	--	--	814	--	-498	--	-1	--	148	169
Kerosene	--	--	3	--	--	--	3	--	1	-1
Distillate Fuel Oil	--	--	2,803	22	-821	25	6	--	1,244	779
15 ppm sulfur and under	--	--	2,532	--	-769	25	-55	--	1,102	740
Greater than 15 ppm to 500 ppm sulfur	--	--	105	--	-5	--	4	--	98	-2
Greater than 500 ppm sulfur	--	--	166	22	-47	--	57	--	44	40
Residual Fuel Oil ⁷	--	--	223	40	31	--	37	--	155	102
Less than 0.31 percent sulfur	--	--	30	11	1	--	-9	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	11	2	--	--	-7	--	NA	NA
Greater than 1.00 percent sulfur	--	--	182	27	30	--	53	--	NA	NA
Petrochemical Feedstocks	--	--	270	18	3	--	-3	--	--	294
Naphtha for Petro. Feed. Use	--	--	170	17	3	--	1	--	--	188
Other Oils for Petro. Feed. Use	--	--	100	2	--	--	-4	--	--	106
Special Naphthas	--	--	28	20	-1	--	-3	--	--	50
Lubricants	--	--	148	25	-16	--	21	--	91	44
Waxes	--	--	4	2	--	--	0	--	1	5
Petroleum Coke	--	--	473	11	18	--	4	--	452	46
Marketable	--	--	357	11	18	--	4	--	452	-70
Catalyst	--	--	117	--	--	--	--	--	--	117
Asphalt and Road Oil	--	--	79	--	-20	--	-20	--	10	70
Still Gas	--	--	361	--	--	--	--	--	--	361
Miscellaneous Products	--	--	54	1	-1	--	1	--	0	53
Total	7,685	118	7,866	3,034	-2,427	315	-67	7,291	4,395	4,972

-- = 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-August 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	5,743	--	--	3,037	301	248	-126	8,798	656	0
Hydrocarbon Gas Liquids	1,975	-1	462	15	653	--	51	295	964	1,795
Natural Gas Liquids	1,975	-1	251	11	637	--	63	295	964	1,553
Ethane	817	--	5	--	--	--	4	--	68	1,103
Propane	607	--	161	0	301	--	-22	--	788	304
Normal Butane	95	--	1,046	--	76	--	86	67	102	3
Isobutane	238	--	-1	0	18	--	3	117	5	129
Natural Gasoline	219	-1	--	11	-110	--	-7	110	1	14
Refinery Olefins	--	--	211	4	--	--	-12	--	--	242
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	220	--	15	--	-6	--	--	241
Butylene	--	--	-9	4	--	--	-6	--	--	2
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	116	--	494	-1,838	1	14	-1,688	351	98
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	116	--	18	186	108	2	298	129	0
Hydrogen	--	--	--	--	--	135	--	135	--	0
Oxygenates (excluding Fuel Ethanol)	--	71	--	11	--	-11	4	1	66	0
Renewable Fuels (including Fuel Ethanol)	--	45	--	7	186	-15	-2	162	63	0
Fuel Ethanol	--	27	--	--	184	-1	2	147	61	0
Renewable Fuels Except Fuel Ethanol	--	19	--	7	2	-14	-4	15	2	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	430	6	--	13	163	163	98
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	46	-2,030	-107	-1	-2,149	59	0
Reformulated	--	--	--	--	-428	99	-3	-326	0	0
Conventional	--	--	--	46	-1,602	-206	2	-1,823	58	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,553	160	-1,649	128	-38	--	2,747	3,482
Finished Motor Gasoline	--	--	2,163	2	-252	108	-8	--	613	1,416
Reformulated	--	--	461	--	--	-107	--	--	--	354
Conventional	--	--	1,702	2	-252	215	-8	--	613	1,062
Finished Aviation Gasoline	--	--	8	--	-40	--	0	--	--	-31
Kerosene-Type Jet Fuel	--	--	872	--	-510	--	-5	--	156	212
Kerosene	--	--	1	--	--	--	0	--	2	-1
Distillate Fuel Oil	--	--	2,830	10	-864	20	-1	--	1,201	798
15 ppm sulfur and under	--	--	2,570	--	-802	20	-5	--	1,043	750
Greater than 15 ppm to 500 ppm sulfur	--	--	98	--	-10	--	1	--	95	-9
Greater than 500 ppm sulfur	--	--	162	10	-52	--	2	--	62	56
Residual Fuel Oil ⁷	--	--	211	66	27	--	-15	--	226	93
Less than 0.31 percent sulfur	--	--	34	7	2	--	-4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	11	6	0	--	-6	--	NA	NA
Greater than 1.00 percent sulfur	--	--	166	53	25	--	-4	--	NA	NA
Petrochemical Feedstocks	--	--	285	36	4	--	-1	--	--	327
Naphtha for Petro. Feed. Use	--	--	179	26	3	--	0	--	--	207
Other Oils for Petro. Feed. Use	--	--	107	11	1	--	-1	--	--	120
Special Naphthas	--	--	34	12	-1	--	-1	--	--	46
Lubricants	--	--	136	25	-23	--	-9	--	97	51
Waxes	--	--	4	1	0	--	0	--	1	4
Petroleum Coke	--	--	507	6	19	--	3	--	443	85
Marketable	--	--	390	6	19	--	3	--	443	-31
Catalyst	--	--	116	--	--	--	--	--	--	116
Asphalt and Road Oil	--	--	79	--	-10	--	0	--	8	61
Still Gas	--	--	364	--	--	--	--	--	--	364
Miscellaneous Products	--	--	59	0	-1	--	0	--	1	57
Total	7,718	116	8,015	3,705	-2,533	377	-98	7,405	4,717	5,375

-- = 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, August 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	22,562	--	--	11,131	-14,165	1,386	484	20,338	93	0	22,102
Hydrocarbon Gas Liquids	12,543	-9	635	249	-11,321	--	280	567	24	1,226	4,234
Natural Gas Liquids	12,543	-9	568	249	-11,321	--	307	567	24	1,132	4,184
Ethane	3,696	--	--	--	--	--	-14	--	--	69	419
Propane	4,391	--	306	244	-3,783	--	102	--	--	1,056	1,410
Normal Butane	1,715	--	253	4	-1,556	--	237	131	2	46	1,783
Isobutane	785	--	9	1	-815	--	-18	244	--	-246	240
Natural Gasoline	1,956	-9	--	--	-1,526	--	0	192	22	207	332
Refinery Olefins	--	--	67	--	--	--	-27	--	--	94	50
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	23	--	--	--	1	--	--	22	9
Butylene	--	--	44	--	--	--	-28	--	--	72	41
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	412	--	50	428	-634	-350	498	0	108	8,225
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	412	--	3	414	488	37	1,280	--	0	362
Hydrogen	--	--	--	--	--	211	--	211	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	412	--	3	414	277	37	1,069	--	0	362
Fuel Ethanol	--	412	--	--	369	272	44	1,009	--	0	353
Renewable Fuels Except Fuel Ethanol	--	--	--	3	45	5	-7	60	--	0	9
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-266	158	0	108	2,754
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	47	14	-1,122	-121	-940	--	0	5,109
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	14	-1,122	-121	-940	--	0	5,109
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	21,683	99	-326	845	-412	--	50	22,662	7,205
Finished Motor Gasoline	--	--	10,258	--	-387	850	-68	--	1	10,788	1,398
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	10,258	--	-387	850	-68	--	1	10,788	1,398
Finished Aviation Gasoline	--	--	7	--	--	--	-2	--	--	9	7
Kerosene-Type Jet Fuel	--	--	1,310	9	436	--	-33	--	--	1,788	661
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	6,618	66	451	-5	121	--	--	7,009	3,608
15 ppm sulfur and under	--	--	6,607	66	451	-5	158	--	--	6,961	3,352
Greater than 15 ppm to 500 ppm sulfur	--	--	4	--	--	--	-31	--	--	35	168
Greater than 500 ppm sulfur	--	--	7	--	--	--	-6	--	--	13	88
Residual Fuel Oil ⁶	--	--	397	--	--	--	-8	--	25	380	232
Less than 0.31 percent sulfur	--	--	205	--	--	--	3	--	NA	NA	35
0.31 to 1.00 percent sulfur	--	--	18	--	--	--	-21	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	174	--	--	--	10	--	NA	NA	193
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	16	-16	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	827	--	-358	--	-15	--	--	484	60
Marketable	--	--	562	--	-358	--	-15	--	--	219	60
Catalyst	--	--	265	--	--	--	--	--	--	265	--
Asphalt and Road Oil	--	--	1,368	23	-469	--	-402	--	8	1,316	1,223
Still Gas	--	--	777	--	--	--	--	--	--	777	--
Miscellaneous Products	--	--	121	1	--	--	-5	--	0	127	15
Total	35,105	403	22,318	11,529	-25,384	1,597	2	21,403	168	23,996	41,766

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² 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-August 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	161,852	--	--	83,789	-100,088	5,611	-1,218	151,665	717	0	22,102
Hydrocarbon Gas Liquids	92,530	-75	3,976	2,522	-82,518	--	889	4,505	2,367	8,674	4,234
Natural Gas Liquids	92,530	-75	3,538	2,522	-82,518	--	878	4,505	2,367	8,247	--
Ethane	26,062	--	--	--	--	--	-17	--	--	1,687	--
Propane	33,321	--	2,352	2,263	-29,539	--	57	--	1	8,339	--
Normal Butane	12,923	--	1,046	68	-11,254	--	828	1,421	196	338	--
Isobutane	6,029	--	140	191	-6,325	--	-18	1,761	--	-1,708	--
Natural Gasoline	14,195	-75	--	--	-11,008	--	28	1,323	2,170	-409	--
Refinery Olefins	--	--	438	--	--	--	11	--	--	427	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	129	--	--	--	9	--	--	120	--
Butylene	--	--	309	--	--	--	2	--	--	307	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	3,409	--	328	1,002	-3,608	-643	1,093	97	584	8,225
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	3,409	--	31	2,896	2,935	-5	9,253	23	0	362
Hydrogen	--	--	--	--	--	1,641	--	1,641	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	3,409	--	31	2,896	1,294	-5	7,612	23	0	362
Fuel Ethanol	--	3,409	--	--	2,577	1,210	0	7,196	0	0	353
Renewable Fuels Except Fuel Ethanol	--	--	--	31	320	83	-5	416	23	0	9
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-75	-583	74	584	2,754
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	297	-1,894	-6,543	-563	-7,577	0	0	5,109
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-1,894	-6,543	-563	-7,577	0	0	5,109
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	160,549	769	-4,538	5,249	-1,788	--	307	163,510	7,205
Finished Motor Gasoline	--	--	76,723	--	-4,027	5,332	-840	--	7	78,861	1,398
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	76,723	--	-4,027	5,332	-840	--	7	78,861	1,398
Finished Aviation Gasoline	--	--	34	7	--	--	-2	--	--	43	7
Kerosene-Type Jet Fuel	--	--	8,790	29	5,174	--	61	--	--	13,932	661
Kerosene	--	--	2	--	--	--	0	--	--	2	1
Distillate Fuel Oil	--	--	49,852	372	-682	-83	-708	--	--	50,167	3,608
15 ppm sulfur and under	--	--	49,461	372	-418	-83	-690	--	--	50,022	3,352
Greater than 15 ppm to 500 ppm sulfur	--	--	294	--	--	--	-52	--	--	346	168
Greater than 500 ppm sulfur	--	--	97	--	-264	--	34	--	--	-201	88
Residual Fuel Oil ⁶	--	--	2,937	--	--	--	8	--	155	2,774	232
Less than 0.31 percent sulfur	--	--	1,675	--	--	--	1	--	NA	NA	35
0.31 to 1.00 percent sulfur	--	--	172	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	1,090	--	--	--	7	--	NA	NA	193
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	92	-92	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	6,298	--	-2,460	--	-84	--	0	3,922	60
Marketable	--	--	4,287	--	-2,460	--	-84	--	0	1,911	60
Catalyst	--	--	2,011	--	--	--	--	--	--	2,011	--
Asphalt and Road Oil	--	--	9,154	352	-2,543	--	-221	--	52	7,132	1,223
Still Gas	--	--	5,850	--	--	--	--	--	--	5,850	--
Miscellaneous Products	--	--	909	9	--	--	-2	--	0	920	15
Total	254,382	3,334	164,525	87,408	-186,141	7,252	-2,760	157,263	3,488	172,768	41,766

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² 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, August 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	728	--	--	359	-457	45	16	656	3	0
Hydrocarbon Gas Liquids	405	0	20	8	-365	--	9	18	1	40
Natural Gas Liquids	405	0	18	8	-365	--	10	18	1	37
Ethane	119	--	--	--	--	--	0	--	--	2
Propane	142	--	10	8	-122	--	3	--	--	34
Normal Butane	55	--	8	0	-50	--	8	4	0	1
Isobutane	25	--	0	0	-26	--	-1	8	--	-8
Natural Gasoline	63	0	--	--	-49	--	0	6	1	7
Refinery Olefins	--	--	2	--	--	--	-1	--	--	3
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Butylene	--	--	1	--	--	--	-1	--	--	2
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	13	--	2	14	-20	-11	16	0	3
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	0	13	16	1	41	--	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	13	--	0	13	9	1	34	--	0
Fuel Ethanol	--	13	--	--	12	9	1	33	--	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	0	0	2	--	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-9	5	0	3
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	0	-36	-4	-30	--	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	0	-36	-4	-30	--	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	699	3	-11	27	-13	--	2	731
Finished Motor Gasoline	--	--	331	--	-12	27	-2	--	0	348
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	331	--	-12	27	-2	--	0	348
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	42	0	14	--	-1	--	--	58
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	213	2	15	0	4	--	--	226
15 ppm sulfur and under	--	--	213	2	15	0	5	--	--	225
Greater than 15 ppm to 500 ppm sulfur	--	--	0	--	--	--	-1	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	13	--	--	--	0	--	1	12
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	1	-1
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	27	--	-12	--	0	--	--	16
Marketable	--	--	18	--	-12	--	0	--	--	7
Catalyst	--	--	9	--	--	--	--	--	--	9
Asphalt and Road Oil	--	--	44	1	-15	--	-13	--	0	42
Still Gas	--	--	25	--	--	--	--	--	--	25
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,132	13	720	372	-819	52	0	690	5	774

-- = 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-August 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	666	--	--	345	-412	23	-5	624	3	0
Hydrocarbon Gas Liquids	381	0	16	10	-340	--	4	19	10	36
Natural Gas Liquids	381	0	15	10	-340	--	4	19	10	34
Ethane	107	--	--	--	--	--	0	--	--	7
Propane	137	--	10	9	-122	--	0	--	0	34
Normal Butane	53	--	4	0	-46	--	3	6	1	1
Isobutane	25	--	1	1	-26	--	0	7	--	-7
Natural Gasoline	58	0	--	--	-45	--	0	5	9	-2
Refinery Olefins	--	--	2	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	0
Butylene	--	--	1	--	--	--	0	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	1	4	-15	-3	4	0	2
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	12	12	0	38	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	12	5	0	31	0	0
Fuel Ethanol	--	14	--	--	11	5	0	30	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	0	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	0	-2	0	2
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	-8	-27	-2	-31	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-8	-27	-2	-31	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	661	3	-19	22	-7	--	1	673
Finished Motor Gasoline	--	--	316	--	-17	22	-3	--	0	325
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	316	--	-17	22	-3	--	0	325
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	36	0	21	--	0	--	--	57
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	205	2	-3	0	-3	--	--	206
15 ppm sulfur and under	--	--	204	2	-2	0	-3	--	--	206
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	--	-10	--	0	--	0	16
Marketable	--	--	18	--	-10	--	0	--	0	8
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	38	1	-10	--	-1	--	0	29
Still Gas	--	--	24	--	--	--	--	--	--	24
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,047	14	677	360	-766	30	-11	647	14	711

-- = 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, August 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	29,014	--	--	43,906	4,051	1,753	-2,349	80,372	700	0	48,371
Hydrocarbon Gas Liquids	1,666	-13	2,624	1,032	643	--	640	1,987	1,433	1,892	5,902
Natural Gas Liquids	1,666	-13	2,343	1,032	643	--	710	1,987	1,433	1,541	5,801
Ethane	1	--	--	--	--	--	--	--	--	1	--
Propane	322	--	1,211	886	152	--	299	--	939	1,333	1,989
Normal Butane	143	--	894	146	316	--	294	513	494	198	3,181
Isobutane	439	--	238	--	175	--	87	844	--	-79	558
Natural Gasoline	761	-13	--	--	--	--	30	630	1	87	73
Refinery Olefins	--	--	281	--	--	--	-70	--	--	351	101
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	281	--	--	--	15	--	--	266	29
Butylene	--	--	0	--	--	--	-85	--	--	85	72
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	900	--	5,425	8,998	-53	861	13,875	448	86	50,131
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	900	--	793	4,138	2,053	509	7,217	158	0	3,904
Hydrogen	--	--	--	--	--	1,344	--	1,344	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	900	--	793	4,138	707	509	5,873	156	0	3,904
Fuel Ethanol	--	609	--	256	3,778	1,165	513	5,165	129	0	2,919
Renewable Fuels Except Fuel Ethanol	--	291	--	537	360	-458	-4	708	26	0	985
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	3,971	--	--	170	3,591	124	86	20,832
Motor Gasoline Blend Comp. (MGBC)	--	--	--	661	4,860	-2,106	182	3,067	166	0	25,395
Reformulated	--	--	--	--	2,439	-305	-350	2,482	2	0	12,216
Conventional	--	--	--	661	2,421	-1,801	532	585	164	0	13,179
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	99,761	5,573	2,112	1,435	-1,230	--	9,325	100,787	31,323
Finished Motor Gasoline	--	--	51,612	60	245	941	-208	--	1,574	51,492	1,859
Reformulated	--	--	36,356	--	--	4	-4	--	--	36,364	15
Conventional	--	--	15,256	60	245	937	-204	--	1,574	15,128	1,844
Finished Aviation Gasoline	--	--	104	3	40	--	17	--	--	130	209
Kerosene-Type Jet Fuel	--	--	16,101	3,637	245	--	537	--	1,323	18,123	9,533
Kerosene	--	--	4	--	--	--	0	--	5	-1	9
Distillate Fuel Oil	--	--	17,493	162	1,200	494	-756	--	2,281	17,824	11,686
15 ppm sulfur and under	--	--	16,747	161	1,200	494	-659	--	1,113	18,148	10,618
Greater than 15 ppm to 500 ppm sulfur	--	--	478	--	--	--	-2	--	144	336	260
Greater than 500 ppm sulfur	--	--	268	1	--	--	-95	--	1,024	-660	808
Residual Fuel Oil ⁶	--	--	2,984	1,537	--	--	-387	--	160	4,748	4,153
Less than 0.31 percent sulfur	--	--	7	--	--	--	34	--	NA	NA	189
0.31 to 1.00 percent sulfur	--	--	724	216	--	--	119	--	NA	NA	643
Greater than 1.00 percent sulfur	--	--	2,253	1,321	--	--	-540	--	NA	NA	3,315
Petrochemical Feedstocks	--	--	2	38	--	--	0	--	--	40	5
Naphtha for Petro. Feed. Use	--	--	2	38	--	--	0	--	--	40	5
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	30	--	--	--	10	--	--	20	53
Lubricants	--	--	828	8	-152	--	71	--	358	255	903
Waxes	--	--	--	38	--	--	--	--	5	33	--
Petroleum Coke	--	--	5,036	28	-18	--	-187	--	3,593	1,640	1,342
Marketable	--	--	3,943	28	-18	--	-187	--	3,593	547	1,342
Catalyst	--	--	1,093	--	--	--	--	--	--	1,093	--
Asphalt and Road Oil	--	--	938	62	552	--	-310	--	25	1,837	1,463
Still Gas	--	--	4,183	--	--	--	--	--	--	4,183	--
Miscellaneous Products	--	--	446	--	--	--	-17	--	0	463	108
Total	30,680	887	102,385	55,936	15,803	3,135	-2,078	96,234	11,907	102,764	135,727

-- = 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-August 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	238,957	--	--	291,633	33,971	22,172	-3,334	585,534	4,533	0	48,371
Hydrocarbon Gas Liquids	15,785	-106	16,461	7,966	6,179	--	1,504	19,738	10,618	14,425	5,902
Natural Gas Liquids	15,785	-106	14,214	7,966	6,179	--	1,425	19,738	10,618	12,257	--
Ethane	14	--	--	--	--	--	--	--	0	14	--
Propane	2,566	--	9,184	6,782	2,302	--	426	--	7,436	12,972	--
Normal Butane	2,308	--	4,118	1,094	2,670	--	875	6,907	3,078	-670	--
Isobutane	3,359	--	912	90	1,207	--	86	6,261	0	-779	--
Natural Gasoline	7,538	-106	--	--	--	--	38	6,570	103	721	--
Refinery Olefins	--	--	2,247	--	--	--	79	--	--	2,168	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	2,095	--	--	--	17	--	--	2,078	--
Butylene	--	--	152	--	--	--	62	--	--	90	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	6,681	--	39,133	77,842	-8,355	393	108,736	4,935	1,237	50,131
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	6,681	--	4,520	38,460	5,401	-146	53,445	1,763	0	3,904
Hydrogen	--	--	--	--	--	9,205	--	9,205	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	14	--	--	14	0	--
Renewable Fuels (including Fuel Ethanol)	--	6,681	--	4,520	38,460	-3,819	-146	44,240	1,749	0	3,904
Fuel Ethanol	--	4,710	--	974	35,566	-425	446	38,802	1,577	0	2,919
Renewable Fuels Except Fuel Ethanol	--	1,971	--	3,546	2,894	-3,394	-592	5,438	171	0	985
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	26,119	--	--	2,260	21,422	1,200	1,237	20,832
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	8,494	39,382	-13,756	-1,721	33,869	1,972	0	25,395
Reformulated	--	--	--	268	19,393	-140	-2,108	21,622	7	0	12,216
Conventional	--	--	--	8,226	19,989	-13,616	387	12,247	1,965	0	13,179
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	743,507	39,767	15,974	16,982	-1,371	--	80,950	736,651	31,323
Finished Motor Gasoline	--	--	392,354	1,015	2,407	14,181	-300	--	11,383	398,874	1,859
Reformulated	--	--	275,301	--	--	76	-1	--	--	275,378	15
Conventional	--	--	117,053	1,015	2,407	14,105	-299	--	11,383	123,496	1,844
Finished Aviation Gasoline	--	--	205	12	180	--	16	--	--	381	209
Kerosene-Type Jet Fuel	--	--	111,214	22,998	2,133	--	330	--	7,645	128,370	9,533
Kerosene	--	--	82	55	--	--	-38	--	27	148	9
Distillate Fuel Oil	--	--	131,630	2,679	8,357	2,801	-1,149	--	23,920	122,696	11,686
15 ppm sulfur and under	--	--	125,758	2,583	8,357	2,801	-1,232	--	14,828	125,903	10,618
Greater than 15 ppm to 500 ppm sulfur	--	--	2,545	--	--	--	-7	--	1,627	925	260
Greater than 500 ppm sulfur	--	--	3,327	96	--	--	90	--	7,466	-4,133	808
Residual Fuel Oil ⁶	--	--	27,248	10,901	--	--	-325	--	4,445	34,029	4,153
Less than 0.31 percent sulfur	--	--	44	--	--	--	55	--	NA	NA	189
0.31 to 1.00 percent sulfur	--	--	5,001	890	--	--	-206	--	NA	NA	643
Greater than 1.00 percent sulfur	--	--	22,203	10,011	--	--	-174	--	NA	NA	3,315
Petrochemical Feedstocks	--	--	24	305	--	--	4	--	--	325	5
Naphtha for Petro. Feed. Use	--	--	24	273	--	--	4	--	--	293	5
Other Oils for Petro. Feed. Use	--	--	--	32	--	--	--	--	--	32	--
Special Naphthas	--	--	232	45	--	--	24	--	--	253	53
Lubricants	--	--	4,619	492	-363	--	305	--	2,018	2,425	903
Waxes	--	--	--	260	--	--	--	--	48	212	--
Petroleum Coke	--	--	36,926	239	339	--	129	--	31,212	6,162	1,342
Marketable	--	--	28,687	239	339	--	129	--	31,212	-2,077	1,342
Catalyst	--	--	8,239	--	--	--	--	--	--	8,239	--
Asphalt and Road Oil	--	--	6,080	765	2,922	--	-398	--	250	9,915	1,463
Still Gas	--	--	29,585	--	--	--	--	--	--	29,585	--
Miscellaneous Products	--	--	3,308	1	--	--	31	--	2	3,276	108
Total	254,742	6,575	759,968	378,499	133,966	30,798	-2,808	714,008	101,036	752,313	135,727

-- = Not Applicable.
- = No Data Reported.
NA = Not Available.

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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, August 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	936	--	--	1,416	131	57	-76	2,593	23	0
Hydrocarbon Gas Liquids	54	0	85	33	21	--	21	64	46	61
Natural Gas Liquids	54	0	76	33	21	--	23	64	46	50
Ethane	0	--	--	--	--	--	--	--	--	0
Propane	10	--	39	29	5	--	10	--	30	43
Normal Butane	5	--	29	5	10	--	9	17	16	6
Isobutane	14	--	8	--	6	--	3	27	--	-3
Natural Gasoline	25	0	--	--	--	--	1	20	0	3
Refinery Olefins	--	--	9	--	--	--	-2	--	--	11
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9	--	--	--	0	--	--	9
Butylene	--	--	0	--	--	--	-3	--	--	3
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	29	--	175	290	-2	28	448	14	3
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	29	--	26	133	66	16	233	5	0
Hydrogen	--	--	--	--	--	43	--	43	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	29	--	26	133	23	16	189	5	0
Fuel Ethanol	--	20	--	8	122	38	17	167	4	0
Renewable Fuels Except Fuel Ethanol	--	9	--	17	12	-15	0	23	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	128	--	--	5	116	4	3
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	21	157	-68	6	99	5	0
Reformulated	--	--	--	--	79	-10	-11	80	0	0
Conventional	--	--	--	21	78	-58	17	19	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,218	180	68	46	-40	--	301	3,251
Finished Motor Gasoline	--	--	1,665	2	8	30	-7	--	51	1,661
Reformulated	--	--	1,173	--	--	0	0	--	--	1,173
Conventional	--	--	492	2	8	30	-7	--	51	488
Finished Aviation Gasoline	--	--	3	0	1	--	1	--	--	4
Kerosene-Type Jet Fuel	--	--	519	117	8	--	17	--	43	585
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	564	5	39	16	-24	--	74	575
15 ppm sulfur and under	--	--	540	5	39	16	-21	--	36	585
Greater than 15 ppm to 500 ppm sulfur	--	--	15	--	--	--	0	--	5	11
Greater than 500 ppm sulfur	--	--	9	0	--	--	-3	--	33	-21
Residual Fuel Oil ⁶	--	--	96	50	--	--	-12	--	5	153
Less than 0.31 percent sulfur	--	--	0	--	--	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	23	7	--	--	4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	73	43	--	--	-17	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	27	0	-5	--	2	--	12	8
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	162	1	-1	--	-6	--	116	53
Marketable	--	--	127	1	-1	--	-6	--	116	18
Catalyst	--	--	35	--	--	--	--	--	--	35
Asphalt and Road Oil	--	--	30	2	18	--	-10	--	1	59
Still Gas	--	--	135	--	--	--	--	--	--	135
Miscellaneous Products	--	--	14	--	--	--	-1	--	0	15
Total	990	29	3,303	1,804	510	101	-67	3,104	384	3,315

-- = 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-August 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	983	--	--	1,200	140	91	-14	2,410	19	0
Hydrocarbon Gas Liquids	65	0	68	33	25	--	6	81	44	59
Natural Gas Liquids	65	0	58	33	25	--	6	81	44	50
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	11	--	38	28	9	--	2	--	31	53
Normal Butane	9	--	17	5	11	--	4	28	13	-3
Isobutane	14	--	4	0	5	--	0	26	0	-3
Natural Gasoline	31	0	--	--	--	--	0	27	0	3
Refinery Olefins	--	--	9	--	--	--	0	--	--	9
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9	--	--	--	0	--	--	9
Butylene	--	--	1	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	27	--	161	320	-34	2	447	20	5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	27	--	19	158	22	-1	220	7	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	27	--	19	158	-16	-1	182	7	0
Fuel Ethanol	--	19	--	4	146	-2	2	160	6	0
Renewable Fuels Except Fuel Ethanol	--	8	--	15	12	-14	-2	22	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	107	--	--	9	88	5	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	35	162	-57	-7	139	8	0
Reformulated	--	--	--	1	80	-1	-9	89	0	0
Conventional	--	--	--	34	82	-56	2	50	8	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,060	164	66	70	-6	--	333	3,031
Finished Motor Gasoline	--	--	1,615	4	10	58	-1	--	47	1,641
Reformulated	--	--	1,133	--	--	0	0	--	--	1,133
Conventional	--	--	482	4	10	58	-1	--	47	508
Finished Aviation Gasoline	--	--	1	0	1	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	458	95	9	--	1	--	31	528
Kerosene	--	--	0	0	--	--	0	--	0	1
Distillate Fuel Oil	--	--	542	11	34	12	-5	--	98	505
15 ppm sulfur and under	--	--	518	11	34	12	-5	--	61	518
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	0	--	7	4
Greater than 500 ppm sulfur	--	--	14	0	--	--	0	--	31	-17
Residual Fuel Oil ⁶	--	--	112	45	--	--	-1	--	18	140
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	4	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	91	41	--	--	-1	--	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	--	--	19	2	-1	--	1	--	8	10
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	152	1	1	--	1	--	128	25
Marketable	--	--	118	1	1	--	1	--	128	-9
Catalyst	--	--	34	--	--	--	--	--	--	34
Asphalt and Road Oil	--	--	25	3	12	--	-2	--	1	41
Still Gas	--	--	122	--	--	--	--	--	--	122
Miscellaneous Products	--	--	14	0	--	--	0	--	0	13
Total	1,048	27	3,127	1,558	551	127	-12	2,938	416	3,096

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

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,586	54,237	177,879	22,562	29,014	285,278	9,203
Alaskan	--	--	--	--	--	13,971	451
Lower 48 States	--	--	--	--	--	271,307	8,752
Imports (PAD District of Entry)	35,049	81,107	73,402	11,131	43,906	244,595	7,890
Commercial	35,049	81,107	73,402	11,131	43,906	244,595	7,890
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	1,229	-905	9,791	-14,165	4,051	--	--
Adjustments ¹	-1,351	-10,043	5,531	1,386	1,753	-2,723	-88
Disposition							
Stock Change ²	1,179	-4,486	-17,964	484	-2,349	-23,136	-746
Commercial	--	--	-17,880	--	--	-23,052	-744
SPR	--	--	-84	--	--	-84	-3
Refinery Inputs	35,333	123,378	266,935	20,338	80,372	526,356	16,979
Exports	1	5,504	17,632	93	700	23,930	772
Ending Stocks							
Total	17,334	139,967	910,367	22,102	48,371	1,138,141	--
Commercial	17,334	139,967	231,568	22,102	48,371	459,342	--
Refinery	13,376	13,197	42,822	2,519	23,756	95,670	--
Tank Farms and Pipelines	3,958	126,770	188,746	19,583	21,269	360,326	--
Cushing, Oklahoma	--	57,602	--	--	--	57,602	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	3,346	3,346	--
SPR	--	--	678,799	--	--	678,799	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	59.6	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	34.2	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	154	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	35,049	81,107	73,402	11,131	43,906	244,595	7,890
PAD District of Processing	36,849	75,075	81,948	7,767	42,956	244,595	7,890

-- = 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, August 2017
(Thousand Barrels)

PAD District and State	August 2017		January-August 2017	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,586	51	11,373	47
Florida	170	5	1,324	5
New York	19	1	147	1
Pennsylvania	578	19	4,075	17
Virginia	0	0	3	0
West Virginia	820	26	5,825	24
PAD District 2	54,237	1,750	405,640	1,669
Illinois	720	23	5,525	23
Indiana	156	5	1,198	5
Kansas	3,019	97	24,022	99
Kentucky	240	8	1,707	7
Michigan	461	15	3,603	15
Missouri	9	0	76	0
Nebraska	196	6	1,571	6
North Dakota	33,098	1,068	248,751	1,024
Ohio	1,642	53	12,223	50
Oklahoma	14,561	470	105,915	436
South Dakota	110	4	876	4
Tennessee	26	1	174	1
PAD District 3	177,879	5,738	1,395,572	5,743
Alabama	546	18	4,599	19
Arkansas	434	14	3,420	14
Louisiana	4,171	135	34,027	140
Mississippi	1,577	51	12,257	50
New Mexico	14,312	462	108,125	445
Texas	104,342	3,366	817,866	3,366
Federal Offshore PAD District 3	52,497	1,693	415,278	1,709
PAD District 4	22,562	728	161,852	666
Colorado	11,608	374	77,915	321
Idaho	7	0	74	0
Montana	1,696	55	13,719	56
Utah	2,851	92	21,646	89
Wyoming	6,399	206	48,498	200
PAD District 5	29,014	936	238,957	983
Alaska	13,971	451	119,117	490
South Alaska	459	15	3,317	14
North Slope	13,512	436	115,800	477
Arizona	1	0	8	0
California	14,522	468	115,765	476
Nevada	25	1	188	1
Federal Offshore PAD District 5	494	16	3,879	16
U.S. Total	285,278	9,203	2,213,394	9,109

– = 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, August 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	14	13,430	13,444	6,266	7,482	13,076	26,824
Natural Gas Liquids	14	13,430	13,444	6,266	7,482	13,076	26,824
Ethane	-	5,441	5,441	2,255	2,048	4,364	8,667
Propane	4	4,561	4,565	2,495	2,782	4,563	9,840
Normal Butane	10	1,363	1,373	473	1,251	1,464	3,188
Isobutane	-	700	700	576	298	921	1,795
Natural Gasoline	-	1,365	1,365	467	1,103	1,764	3,334

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	43,361	4,509	5,925	937	5,618	60,350	12,543	1,666	114,827
Natural Gas Liquids	43,361	4,509	5,925	937	5,618	60,350	12,543	1,666	114,827
Ethane	17,408	1,871	2,269	312	1,981	23,841	3,696	1	41,646
Propane	13,406	1,354	1,901	219	1,906	18,786	4,391	322	37,904
Normal Butane	4,671	-2,867	667	99	548	3,118	1,715	143	9,537
Isobutane	2,716	3,657	395	78	484	7,330	785	439	11,049
Natural Gasoline	5,160	494	693	229	699	7,275	1,956	761	14,691

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	7	245	252	1,159	117	627	1,903
Natural Gas Liquids	7	245	252	1,159	117	627	1,903
Ethane	-	-	-	85	2	162	249
Propane	3	123	126	660	39	201	900
Normal Butane	4	40	44	146	25	107	278
Isobutane	-	15	15	150	4	53	207
Natural Gasoline	-	67	67	118	47	104	269

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	231	3,209	1,646	26	-	5,112	113	552	7,932
Natural Gas Liquids	231	3,209	1,646	26	-	5,112	113	552	7,932
Ethane	1	815	-	-	-	816	2	-	1,067
Propane	121	1,326	35	17	-	1,499	37	22	2,584
Normal Butane	76	589	1,315	5	-	1,985	29	428	2,764
Isobutane	3	438	80	-	-	521	10	36	789
Natural Gasoline	30	41	216	4	-	291	35	66	728

- = 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, August 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	32,348	2,985	35,333	80,578	16,443	26,357	123,378
Hydrocarbon Gas Liquids	759	-	759	1,622	56	1,039	2,717
Natural Gas Liquids	759	-	759	1,622	56	1,039	2,717
Normal Butane	266	-	266	2	4	82	88
Isobutane	431	-	431	1,172	49	435	1,656
Natural Gasoline	62	-	62	448	3	522	973
Other Liquids	81,593	6,772	88,365	12,371	4,137	3,314	19,822
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	10,328	821	11,149	6,246	1,649	1,936	9,831
Hydrogen	90	2	92	699	267	193	1,159
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	10,238	819	11,057	5,497	1,382	1,743	8,622
Fuel Ethanol	10,011	759	10,770	5,193	1,232	1,668	8,093
Renewable Diesel Fuel	227	60	287	304	150	75	529
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	50	-	-	50
Unfinished Oils (net)	2,329	-43	2,286	201	-489	-265	-553
Naphthas and Lighter	1,295	-2	1,293	322	-143	-48	131
Kerosene and Light Gas Oils	-422	-	-422	138	-66	-104	-32
Heavy Gas Oils	1,302	-42	1,260	41	-280	38	-201
Residuum	154	1	155	-300	-	-151	-451
Motor Gasoline Blend.Comp. (MGBC)(net)	68,936	5,994	74,930	5,924	2,977	1,643	10,544
Reformulated - RBOB	16,647	237	16,884	-1,106	1,293	943	1,130
Conventional	52,289	5,757	58,046	7,030	1,684	700	9,414
CBOB	42,076	5,755	47,831	6,848	1,597	545	8,990
GTAB	3,412	-	3,412	-	-	-	-
Other	6,801	2	6,803	182	87	155	424
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	114,700	9,757	124,457	94,571	20,636	30,710	145,917

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 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	20,749	127,980	106,717	7,225	4,264	266,935	20,338	80,372	526,356
Hydrocarbon Gas Liquids	369	4,246	3,987	61	184	8,847	567	1,987	14,877
Natural Gas Liquids	369	4,246	3,987	61	184	8,847	567	1,987	14,877
Normal Butane	124	767	174	1	—	1,066	131	513	2,064
Isobutane	77	1,635	1,759	59	184	3,714	244	844	6,889
Natural Gasoline	168	1,844	2,054	1	—	4,067	192	630	5,924
Other Liquids	9,817	-38,991	-28,451	8,258	-407	-49,774	498	13,875	72,786
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,123	2,989	2,424	1,298	240	9,074	1,280	7,217	38,551
Hydrogen	11	2,091	1,833	80	45	4,060	211	1,344	6,866
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,112	898	591	1,218	195	5,014	1,069	5,873	31,635
Fuel Ethanol	2,024	797	464	1,095	179	4,559	1,009	5,165	29,596
Renewable Diesel Fuel	88	101	127	123	16	455	60	699	2,030
Other Renewable Fuels	—	—	—	—	—	—	—	9	9
Other Hydrocarbons	—	—	—	—	—	—	—	—	50
Unfinished Oils (net)	-377	-4,296	10,981	-47	-17	6,244	158	3,591	11,726
Naphthas and Lighter	-73	-4,724	-574	66	24	-5,281	-97	451	-3,503
Kerosene and Light Gas Oils	-89	-3,401	1,350	4	-5	-2,141	-145	-256	-2,996
Heavy Gas Oils	-18	3,047	8,711	-49	-36	11,655	229	2,876	15,819
Residuum	-197	782	1,494	-68	—	2,011	171	520	2,406
Motor Gasoline Blend.Comp. (MGBC)(net)	8,081	-37,684	-41,863	7,007	-630	-65,089	-940	3,067	22,512
Reformulated - RBOB	5,886	-8,684	-6,632	—	-874	-10,304	—	2,482	10,192
Conventional	2,195	-29,000	-35,231	7,007	244	-54,785	-940	585	12,320
CBOB	2,407	-30,700	-33,650	7,003	163	-54,777	-1,092	682	1,634
GTAB	—	—	—	—	—	—	—	—	3,412
Other	-212	1,700	-1,581	4	81	-8	152	-97	7,274
Aviation Gasoline Blend. Comp. (net)	-10	—	7	—	—	-3	—	—	-3
Total Input	30,935	93,235	82,253	15,544	4,041	226,008	21,403	96,234	614,019

— = 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, August 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	1,589	58	1,647	4,756	504	500	5,760
Natural Gas Liquids	1,201	58	1,259	3,719	339	386	4,444
Ethane	-	-	-	-	-	-	-
Propane	710	27	737	1,829	244	478	2,551
Normal Butane	499	51	550	1,938	149	16	2,103
Isobutane	-8	-20	-28	-48	-54	-108	-210
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	388	-	388	1,037	165	114	1,316
Ethylene	11	-	11	-	-	-	-
Propylene	421	-	421	920	165	114	1,199
Butylene	-103	-	-103	117	-	-	117
Isobutylene	59	-	59	-	-	-	-
Finished Motor Gasoline	96,370	7,810	104,180	54,653	11,924	17,513	84,090
Reformulated	40,957	263	41,220	8,781	1,531	1,175	11,487
Reformulated Blended with Fuel Ethanol	40,957	263	41,220	8,781	1,531	1,175	11,487
Reformulated Other	-	-	-	-	-	-	-
Conventional	55,413	7,547	62,960	45,872	10,393	16,338	72,603
Conventional Blended with Fuel Ethanol	58,123	7,324	65,447	42,693	10,641	15,078	68,412
Ed55 and Lower	58,083	7,324	65,407	42,685	10,613	15,020	68,318
Greater than Ed55	40	-	40	8	28	58	94
Conventional Other	-2,710	223	-2,487	3,179	-248	1,260	4,191
Finished Aviation Gasoline	-	-	-	-	73	-	73
Kerosene-Type Jet Fuel	3,377	-	3,377	6,613	1,092	962	8,667
Kerosene	-31	-	-31	28	-	7	35
Distillate Fuel Oil	10,011	844	10,855	20,043	4,983	10,107	35,133
15 ppm sulfur and under	8,997	748	9,745	20,001	5,004	10,086	35,091
Greater than 15 ppm to 500 ppm sulfur	11	81	92	-182	2	148	-32
Greater than 500 ppm sulfur	1,003	15	1,018	224	-23	-127	74
Residual Fuel Oil	1,469	1	1,470	1,377	245	94	1,716
Less than 0.31 percent sulfur	360	-	360	71	-	-	71
0.31 to 1.00 percent sulfur	456	1	457	115	63	-	178
Greater than 1.00 percent sulfur	653	-	653	1,191	182	94	1,467
Petrochemical Feedstocks	117	-	117	1,005	-	-	1,005
Naphtha for Petro. Feed. Use	117	-	117	778	-	-	778
Other Oils for Petro. Feed. Use	-	-	-	227	-	-	227
Special Naphthas	-	24	24	44	-	11	55
Lubricants	233	219	452	-	-	185	185
Waxes	-	15	15	-	-	28	28
Petroleum Coke	1,023	19	1,042	4,476	1,300	1,010	6,786
Marketable	342	-	342	3,252	1,133	785	5,170
Catalyst	681	19	700	1,224	167	225	1,616
Asphalt and Road Oil	625	671	1,296	3,459	1,346	451	5,256
Still Gas	1,211	57	1,268	3,183	635	1,007	4,825
Miscellaneous Products	65	31	96	363	119	66	548
Total	116,059	9,749	125,808	100,000	22,221	31,941	154,162
Processing Gain(-) or Loss(+) ¹	-1,359	8	-1,351	-5,429	-1,585	-1,231	-8,245

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, August 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	829	7,662	6,528	85	84	15,188	635	2,624	25,854
Natural Gas Liquids	412	4,316	3,613	44	85	8,470	568	2,343	17,084
Ethane	1	225	31	-	-	257	-	-	257
Propane	277	2,178	2,255	13	50	4,773	306	1,211	9,578
Normal Butane	207	2,337	990	31	37	3,602	253	894	7,402
Isobutane	-73	-424	337	-	-2	-162	9	238	-153
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	417	3,346	2,915	41	-1	6,718	67	281	8,770
Ethylene	-	9	-	-	-	9	-	-	20
Propylene	418	3,302	2,985	41	-	6,746	23	281	8,670
Butylene	-1	85	-70	-	-1	13	44	0	71
Isobutylene	-	-50	-	-	-	-50	-	-	9
Finished Motor Gasoline	20,983	19,753	12,522	10,143	1,897	65,298	10,258	51,612	315,438
Reformulated	7,659	6,161	-	-	-	13,820	-	36,356	102,883
Reformulated Blended with Fuel Ethanol	7,659	6,161	-	-	-	13,820	-	36,356	102,883
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	13,324	13,592	12,522	10,143	1,897	51,478	10,258	15,256	212,555
Conventional Blended with Fuel Ethanol	12,327	1,703	4,655	10,788	1,795	31,268	9,995	15,050	190,172
Ed55 and Lower	12,315	1,703	4,655	10,774	1,795	31,242	9,982	15,047	189,996
Greater than Ed55	12	-	-	14	-	26	13	3	176
Conventional Other	997	11,889	7,867	-645	102	20,210	263	206	22,383
Finished Aviation Gasoline	100	93	118	-	-	311	7	104	495
Kerosene-Type Jet Fuel	1,391	11,651	11,986	203	-	25,231	1,310	16,101	54,686
Kerosene	-3	1	81	5	-	84	-	4	92
Distillate Fuel Oil	6,208	37,483	38,604	2,757	1,826	86,878	6,618	17,493	156,977
15 ppm sulfur and under	6,113	35,715	32,177	2,657	1,826	78,488	6,607	16,747	146,678
Greater than 15 ppm to 500 ppm sulfur	7	378	2,817	45	-	3,247	4	478	3,789
Greater than 500 ppm sulfur	88	1,390	3,610	55	-	5,143	7	268	6,510
Residual Fuel Oil	276	2,441	4,134	-130	189	6,910	397	2,984	13,477
Less than 0.31 percent sulfur	199	12	706	-	-	917	205	7	1,560
0.31 to 1.00 percent sulfur	-	137	315	-130	24	346	18	724	1,723
Greater than 1.00 percent sulfur	77	2,292	3,113	-	165	5,647	174	2,253	10,194
Petrochemical Feedstocks	139	6,041	2,192	-	-	8,372	-	2	9,496
Naphtha for Petro. Feed. Use	121	4,187	963	-	-	5,271	-	2	6,168
Other Oils for Petro. Feed. Use	18	1,854	1,229	-	-	3,101	-	-	3,328
Special Naphthas	108	537	-	235	-	880	-	30	989
Lubricants	27	1,660	1,950	937	-	4,574	-	828	6,039
Waxes	-	45	47	28	-	120	-	-	163
Petroleum Coke	460	7,791	6,179	194	43	14,667	827	5,036	28,358
Marketable	197	5,874	4,803	179	-	11,053	562	3,943	21,070
Catalyst	263	1,917	1,376	15	43	3,614	265	1,093	7,288
Asphalt and Road Oil	255	246	1,038	924	-8	2,455	1,368	938	11,313
Still Gas	801	5,771	4,369	183	80	11,204	777	4,183	22,257
Miscellaneous Products	108	964	565	13	10	1,660	121	446	2,871
Total	31,682	102,139	90,313	15,577	4,121	243,832	22,318	102,385	648,505
Processing Gain(-) or Loss(+) ¹	-747	-8,904	-8,060	-33	-80	-17,824	-915	-6,151	-34,486

- = 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, August 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	32,348	2,985	35,333	80,578	16,443	26,357	123,378
Hydrocarbon Gas Liquids	431	-	431	1,620	49	966	2,635
Natural Gas Liquids	431	-	431	1,620	49	966	2,635
Normal Butane	-	-	-	-	-	41	41
Isobutane	431	-	431	1,172	49	435	1,656
Natural Gasoline	-	-	-	448	-	490	938
Other Liquids	-13,894	130	-13,764	-35,574	-5,757	-11,520	-52,851
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	168	125	293	1,019	471	302	1,792
Hydrogen	90	2	92	699	267	193	1,159
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	78	123	201	270	204	109	583
Fuel Ethanol	78	97	175	170	164	103	437
Renewable Diesel Fuel	-	26	26	100	40	6	146
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	50	-	-	50
Unfinished Oils (net)	2,327	-43	2,284	172	-489	-265	-582
Naphthas and Lighter	1,295	-2	1,293	322	-143	-48	131
Kerosene and Light Gas Oils	-422	-	-422	138	-66	-104	-32
Heavy Gas Oils	1,300	-42	1,258	41	-280	38	-201
Residuum	154	1	155	-329	-	-151	-480
Motor Gasoline Blend.Comp. (MGBC)(net)	-16,389	48	-16,341	-36,765	-5,739	-11,557	-54,061
Reformulated - RBOB	-10,414	-	-10,414	-8,973	-80	-115	-9,168
Conventional	-5,975	48	-5,927	-27,792	-5,659	-11,442	-44,893
CBOB	-6,304	46	-6,258	-27,974	-5,746	-11,607	-45,327
GTAB	-	-	-	-	-	-	-
Other	329	2	331	182	87	165	434
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	18,885	3,115	22,000	46,624	10,735	15,803	73,162
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	1,043	97	1,141	2,590	533	851	3,974
Operable Capacity (daily average)	1,083	98	1,182	2,607	520	884	4,011
Operable Utilization Rate (percent) ²	96.3	98.7	96.5	99.4	102.5	96.3	99.1
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	200	17	217	512	82	160	754
Catalytic Cracking	404	15	419	834	142	223	1,199
Catalytic Hydrocracking	39	-	39	220	58	58	336
Delayed and Fluid Coking	38	-	38	362	68	92	522
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.77	1.68	0.85	1.67	1.79	0.84	1.51
API Gravity, Weighted Average (degrees)	36.00	32.58	35.72	31.22	28.67	36.66	32.02
Operable Capacity (daily average)	1,083	98	1,182	2,607	520	884	4,011
Operating	1,083	98	1,182	2,585	520	884	3,989
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, August 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	20,749	127,980	106,717	7,225	4,264	266,935	20,338	80,372	526,356
Hydrocarbon Gas Liquids	353	3,790	3,985	60	184	8,372	537	1,983	13,958
Natural Gas Liquids	353	3,790	3,985	60	184	8,372	537	1,983	13,958
Normal Butane	115	693	172	—	—	980	123	509	1,653
Isobutane	77	1,635	1,759	59	184	3,714	241	844	6,886
Natural Gasoline	161	1,462	2,054	1	—	3,678	173	630	5,419
Other Liquids	-8,040	-49,631	-31,283	-1,495	-1,625	-92,074	-4,781	-35,231	-198,701
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	234	2,155	2,136	150	105	4,780	567	1,598	9,030
Hydrogen	11	2,091	1,833	80	45	4,060	211	1,344	6,866
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	223	64	303	70	60	720	356	254	2,114
Fuel Ethanol	194	52	176	37	54	513	308	85	1,518
Renewable Diesel Fuel	29	12	127	33	6	207	48	160	587
Other Renewable Fuels	—	—	—	—	—	—	—	9	9
Other Hydrocarbons	—	—	—	—	—	—	—	—	50
Unfinished Oils (net)	-377	-4,296	10,987	-47	-17	6,250	158	3,591	11,701
Naphthas and Lighter	-73	-4,724	-574	66	24	-5,281	-97	451	-3,503
Kerosene and Light Gas Oils	-89	-3,401	1,390	4	-5	-2,101	-145	-256	-2,956
Heavy Gas Oils	-18	3,047	8,677	-49	-36	11,621	229	2,876	15,783
Residuum	-197	782	1,494	-68	—	2,011	171	520	2,377
Motor Gasoline Blend.Comp. (MGBC)(net)	-7,887	-47,490	-44,413	-1,598	-1,713	-103,101	-5,506	-40,420	-219,429
Reformulated - RBOB	-987	-12,865	-6,632	—	-874	-21,358	—	-29,650	-70,590
Conventional	-6,900	-34,625	-37,781	-1,598	-839	-81,743	-5,506	-10,770	-148,839
CBOB	-6,688	-30,448	-35,434	-1,559	-920	-75,049	-5,657	-10,673	-142,964
GTAB	—	—	—	—	—	—	—	—	—
Other	-212	-4,177	-2,347	-39	81	-6,694	151	-97	-5,875
Aviation Gasoline Blend. Comp. (net)	-10	—	7	—	—	-3	—	—	-3
Total Input to Refineries	13,062	82,139	79,419	5,790	2,823	183,233	16,094	47,124	341,613
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	660	4,158	3,561	212	138	8,729	654	2,734	17,233
Operable Capacity (daily average)	731	4,944	3,699	256	124	9,754	693	2,933	18,573
Operable Utilization Rate (percent) ²	90.3	84.1	96.3	82.7	111.4	89.5	94.4	93.2	92.8
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	146	616	568	33	29	1,393	96	463	2,924
Catalytic Cracking	176	1,243	1,105	19	33	2,575	181	773	5,147
Catalytic Hydrocracking	38	451	452	16	12	970	27	520	1,892
Delayed and Fluid Coking	28	684	554	26	—	1,292	68	474	2,394
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.61	1.66	1.24	1.59	0.69	1.39	1.40	1.29	1.37
API Gravity, Weighted Average (degrees)	39.36	31.89	31.45	31.25	39.77	32.40	33.34	28.29	31.92
Operable Capacity (daily average)	731	4,944	3,699	256	124	9,754	693	2,933	18,573
Operating	731	4,944	3,699	256	124	9,754	683	2,842	18,450
Idle	—	—	—	—	—	—	10	91	123
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	13,507	13,507

— = 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, August 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	1,589	58	1,647	4,756	504	500	5,760
Natural Gas Liquids	1,201	58	1,259	3,719	339	386	4,444
Ethane	-	-	-	-	-	-	-
Propane	710	27	737	1,829	244	478	2,551
Normal Butane	499	51	550	1,938	149	16	2,103
Isobutane	-8	-20	-28	-48	-54	-108	-210
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	388	-	388	1,037	165	114	1,316
Ethylene	11	-	11	-	-	-	-
Propylene	421	-	421	920	165	114	1,199
Butylene	-103	-	-103	117	-	-	117
Isobutylene	59	-	59	-	-	-	-
Finished Motor Gasoline	780	1,199	1,979	6,941	2,132	2,668	11,741
Reformulated	780	-	780	-	-	-	-
Reformulated Blended with Fuel Ethanol	780	-	780	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,199	1,199	6,941	2,132	2,668	11,741
Conventional Blended with Fuel Ethanol	-	970	970	1,708	1,623	1,052	4,383
Ed55 and Lower	-	970	970	1,708	1,623	1,052	4,383
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	229	229	5,233	509	1,616	7,358
Finished Aviation Gasoline	-	-	-	-	73	-	73
Kerosene-Type Jet Fuel	3,377	-	3,377	6,613	1,095	963	8,671
Kerosene	-31	-	-31	28	-	7	35
Distillate Fuel Oil	9,794	810	10,604	19,834	4,873	10,048	34,755
15 ppm sulfur and under	8,796	714	9,510	19,792	4,894	10,027	34,713
Greater than 15 ppm to 500 ppm sulfur	-32	81	49	-182	2	28	-152
Greater than 500 ppm sulfur	1,030	15	1,045	224	-23	-7	194
Residual Fuel Oil	1,461	1	1,462	1,377	245	94	1,716
Less than 0.31 percent sulfur	360	-	360	71	-	-	71
0.31 to 1.00 percent sulfur	455	1	456	115	63	-	178
Greater than 1.00 percent sulfur	646	-	646	1,191	182	94	1,467
Petrochemical Feedstocks	117	-	117	1,005	-	-	1,005
Naphtha for Petro. Feed. Use	117	-	117	778	-	-	778
Other Oils for Petro. Feed. Use	-	-	-	227	-	-	227
Special Naphthas	-	24	24	44	-	11	55
Lubricants	233	219	452	-	-	185	185
Waxes	-	15	15	-	-	28	28
Petroleum Coke	1,023	19	1,042	4,476	1,300	1,010	6,786
Marketable	342	-	342	3,252	1,133	785	5,170
Catalyst	681	19	700	1,224	167	225	1,616
Asphalt and Road Oil	623	671	1,294	3,430	1,342	449	5,221
Still Gas	1,211	57	1,268	3,183	635	1,007	4,825
Miscellaneous Products	65	31	96	363	119	66	548
Total	20,242	3,104	23,346	52,050	12,318	17,036	81,404
Processing Gain(-) or Loss(+) ¹	-1,357	11	-1,346	-5,426	-1,583	-1,233	-8,242

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, August 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	829	7,662	6,528	85	84	15,188	635	2,624	25,854	
Natural Gas Liquids	412	4,316	3,613	44	85	8,470	568	2,343	17,084	
Ethane	1	225	31	-	-	257	-	-	257	
Propane	277	2,178	2,255	13	50	4,773	306	1,211	9,578	
Normal Butane	207	2,337	990	31	37	3,602	253	894	7,402	
Isobutane	-73	-424	337	-	-2	-162	9	238	-153	
Natural Gasoline	-	-	-	-	-	-	-	-	-	
Refinery Olefins	417	3,346	2,915	41	-1	6,718	67	281	8,770	
Ethylene	-	9	-	-	-	9	-	-	20	
Propylene	418	3,302	2,985	41	-	6,746	23	281	8,670	
Butylene	-1	85	-70	-	-1	13	44	0	71	
Isobutylene	-	-50	-	-	-	-50	-	-	9	
Finished Motor Gasoline	3,170	8,747	9,683	479	689	22,768	4,963	3,038	44,489	
Reformulated	-	-	-	-	-	-	-	-	628	
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	628	
Reformulated Other	-	-	-	-	-	-	-	-	-	
Conventional	3,170	8,747	9,683	479	689	22,768	4,963	2,410	43,081	
Conventional Blended with Fuel Ethanol	1,912	515	1,820	356	543	5,146	3,113	293	13,905	
Ed55 and Lower	1,908	515	1,820	356	543	5,142	3,113	293	13,901	
Greater than Ed55	4	-	-	-	-	4	-	-	4	
Conventional Other	1,258	8,232	7,863	123	146	17,622	1,850	2,117	29,176	
Finished Aviation Gasoline	100	93	118	-	-	311	7	104	495	
Kerosene-Type Jet Fuel	1,391	11,655	11,975	203	-	25,224	1,237	16,107	54,616	
Kerosene	-3	1	79	5	-	82	-	-1	85	
Distillate Fuel Oil	6,149	37,389	38,616	2,667	1,817	86,638	6,679	16,961	155,637	
15 ppm sulfur and under	6,054	35,637	32,189	2,567	1,817	78,264	6,668	16,220	145,375	
Greater than 15 ppm to 500 ppm sulfur	7	378	2,817	45	-	3,247	4	478	3,626	
Greater than 500 ppm sulfur	88	1,374	3,610	55	-	5,127	7	263	6,636	
Residual Fuel Oil	276	2,441	4,218	-130	189	6,994	397	2,977	13,546	
Less than 0.31 percent sulfur	199	-	706	-	-	905	205	-	1,541	
0.31 to 1.00 percent sulfur	-	140	315	-130	24	349	18	724	1,725	
Greater than 1.00 percent sulfur	77	2,301	3,197	-	165	5,740	174	2,253	10,280	
Petrochemical Feedstocks	139	6,041	2,192	-	-	8,372	-	2	9,496	
Naphtha for Petro. Feed. Use	121	4,187	963	-	-	5,271	-	2	6,168	
Other Oils for Petro. Feed. Use	18	1,854	1,229	-	-	3,101	-	-	3,328	
Special Naphthas	108	537	-	235	-	880	-	30	989	
Lubricants	27	1,660	1,950	937	-	4,574	-	828	6,039	
Waxes	-	45	47	28	-	120	-	-	163	
Petroleum Coke	460	7,791	6,179	194	43	14,667	827	5,036	28,358	
Marketable	197	5,874	4,803	179	-	11,053	562	3,943	21,070	
Catalyst	263	1,917	1,376	15	43	3,614	265	1,093	7,288	
Asphalt and Road Oil	255	246	960	924	-8	2,377	1,368	938	11,198	
Still Gas	801	5,771	4,369	183	80	11,204	777	4,183	22,257	
Miscellaneous Products	108	964	565	13	10	1,660	121	446	2,871	
Total	13,810	91,043	87,479	5,823	2,904	201,059	17,011	53,273	376,093	
Processing Gain(-) or Loss(+) ¹	-748	-8,904	-8,060	-33	-81	-17,826	-917	-6,149	-34,480	

- = 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, August 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	328	-	328	2	7	73	82
Natural Gas Liquids	328	-	328	2	7	73	82
Normal Butane	266	-	266	2	4	41	47
Isobutane	-	-	-	-	-	-	-
Natural Gasoline	62	-	62	-	3	32	35
Other Liquids	95,487	6,642	102,129	47,945	9,894	14,834	72,673
Oxygenates/Renewables	10,160	696	10,856	5,227	1,178	1,634	8,039
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	10,160	696	10,856	5,227	1,178	1,634	8,039
Fuel Ethanol	9,933	662	10,595	5,023	1,068	1,565	7,656
Renewable Diesel Fuel	227	34	261	204	110	69	383
Other Renewable Fuels	-	-	-	-	-	-	-
Unfinished Oils (net)	2	-	2	29	-	-	29
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-
Heavy Gas Oils	2	-	2	-	-	-	-
Residuum	-	-	-	29	-	-	29
Motor Gasoline Blend.Comp. (MGBC)(net)	85,325	5,946	91,271	42,689	8,716	13,200	64,605
Reformulated - RBOB	27,061	237	27,298	7,867	1,373	1,058	10,298
Conventional	58,264	5,709	63,973	34,822	7,343	12,142	54,307
CBOB	48,380	5,709	54,089	34,822	7,343	12,152	54,317
GTAB	3,412	-	3,412	-	-	-	-
Other	6,472	-	6,472	-	-	-10	-10
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	95,815	6,642	102,457	47,947	9,901	14,907	72,755

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	16	456	2	1	-	475	30	4	919
Natural Gas Liquids	16	456	2	1	-	475	30	4	919
Normal Butane	9	74	2	1	-	86	8	4	411
Isobutane	-	-	-	-	-	-	3	-	3
Natural Gasoline	7	382	-	-	-	389	19	-	505
Other Liquids	17,857	10,640	2,832	9,753	1,218	42,300	5,279	49,106	271,487
Oxygenates/Renewables	1,889	834	288	1,148	135	4,294	713	5,619	29,521
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	1,889	834	288	1,148	135	4,294	713	5,619	29,521
Fuel Ethanol	1,830	745	288	1,058	125	4,046	701	5,080	28,078
Renewable Diesel Fuel	59	89	-	90	10	248	12	539	1,443
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Unfinished Oils (net)	-	-	-6	-	-	-6	-	-	25
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-40	-	-	-40	-	-	-40
Heavy Gas Oils	-	-	34	-	-	34	-	-	36
Residuum	-	-	-	-	-	-	-	-	29
Motor Gasoline Blend.Comp. (MGBC)(net)	15,968	9,806	2,550	8,605	1,083	38,012	4,566	43,487	241,941
Reformulated - RBOB	6,873	4,181	-	-	-	11,054	-	32,132	80,782
Conventional	9,095	5,625	2,550	8,605	1,083	26,958	4,566	11,355	161,159
CBOB	9,095	-252	1,784	8,562	1,083	20,272	4,565	11,355	144,598
GTAB	-	-	-	-	-	-	-	-	3,412
Other	-	5,877	766	43	-	6,686	1	-	13,149
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	17,873	11,096	2,834	9,754	1,218	42,775	5,309	49,110	272,406

- = 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, August 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	95,590	6,611	102,201	47,712	9,792	14,845	72,349
Reformulated	40,177	263	40,440	8,781	1,531	1,175	11,487
Reformulated Blended with Fuel Ethanol	40,177	263	40,440	8,781	1,531	1,175	11,487
Reformulated Other	-	-	-	-	-	-	-
Conventional	55,413	6,348	61,761	38,931	8,261	13,670	60,862
Conventional Blended with Fuel Ethanol	58,123	6,354	64,477	40,985	9,018	14,026	64,029
Ed55 and Lower	58,083	6,354	64,437	40,977	8,990	13,968	63,935
Greater than Ed55	40	-	40	8	28	58	94
Conventional Other	-2,710	-6	-2,716	-2,054	-757	-356	-3,167
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	-	-	-	-3	-1	-4
Kerosene	-	-	-	-	-	-	-
Distillate Fuel Oil	217	34	251	209	110	59	378
15 ppm sulfur and under	201	34	235	209	110	59	378
Greater than 15 ppm to 500 ppm sulfur	43	0	43	-	-	120	120
Greater than 500 ppm sulfur	-27	-	-27	-	-	-120	-120
Residual Fuel Oil	8	-	8	-	-	0	0
Less than 0.31 percent sulfur	-	-	-	-	-	-	-
0.31 to 1.00 percent sulfur	1	-	1	-	-	-	-
Greater than 1.00 percent sulfur	7	-	7	-	-	0	0
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	2	-	2	29	4	2	35
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	95,817	6,645	102,462	47,950	9,903	14,905	72,758
Processing Gain(-) or Loss(+) ¹	-2	-3	-5	-3	-2	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	17,813	11,006	2,839	9,664	1,208	42,530	5,295	48,574	270,949
Reformulated	7,659	6,161	-	-	-	13,820	-	35,728	101,475
Reformulated Blended with Fuel Ethanol	7,659	6,161	-	-	-	13,820	-	35,728	101,475
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	10,154	4,845	2,839	9,664	1,208	28,710	5,295	12,846	169,474
Conventional Blended with Fuel Ethanol	10,415	1,188	2,835	10,432	1,252	26,122	6,882	14,757	176,267
Ed55 and Lower	10,407	1,188	2,835	10,418	1,252	26,100	6,869	14,754	176,095
Greater than Ed55	8	-	-	14	-	22	13	3	172
Conventional Other	-261	3,657	4	-768	-44	2,588	-1,587	-1,911	-6,793
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	-4	11	-	-	7	73	-6	70
Kerosene	-	-	2	-	-	2	-	5	7
Distillate Fuel Oil	59	94	-12	90	9	240	-61	532	1,340
15 ppm sulfur and under	59	78	-12	90	9	224	-61	527	1,303
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	163
Greater than 500 ppm sulfur	-	16	-	-	-	16	-	5	-126
Residual Fuel Oil	-	0	-84	-	-	-84	-	7	-69
Less than 0.31 percent sulfur	-	12	-	-	-	12	-	7	19
0.31 to 1.00 percent sulfur	-	-3	-	-	-	-3	-	-	-2
Greater than 1.00 percent sulfur	-	-9	-84	-	-	-93	-	-	-86
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	78	-	-	78	-	-	115
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	17,872	11,096	2,834	9,754	1,217	42,773	5,307	49,112	272,412
Processing Gain(-) or Loss(+) ¹	1	0	0	0	1	2	2	-2	-6

- = 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, August 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	12,628	748	13,376	9,598	1,983	1,616	13,197
Petroleum Products	14,602	2,153	16,755	32,380	8,393	11,211	51,984
Hydrocarbon Gas Liquids	826	43	869	4,091	609	1,408	6,108
Natural Gas Liquids	666	43	709	3,366	587	1,400	5,353
Ethane	—	—	—	—	—	—	—
Propane	101	6	107	779	39	861	1,679
Normal Butane	450	31	481	2,285	477	250	3,012
Isobutane	115	6	121	212	71	131	414
Natural Gasoline	—	—	—	90	—	158	248
Refinery Olefins	160	0	160	725	22	8	755
Ethylene	—	—	—	—	—	—	—
Propylene	121	0	121	646	22	8	676
Butylene	11	0	11	79	0	0	79
Isobutylene	28	0	28	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons	77	108	185	68	42	30	140
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	77	108	185	45	42	30	117
Fuel Ethanol	77	103	180	31	32	28	91
Renewable Diesel Fuel	—	5	5	14	10	2	26
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	23	—	—	23
Unfinished Oils	4,549	405	4,954	9,489	1,235	3,977	14,701
Naphthas and Lighter	989	266	1,255	2,323	181	952	3,456
Kerosene and Light Gas Oils	795	—	795	1,504	202	475	2,181
Heavy Gas Oils	2,071	131	2,202	4,173	837	1,705	6,715
Residuum	694	8	702	1,489	15	845	2,349
Motor Gasoline Blending Components (MGBC)	4,815	230	5,045	7,917	1,714	2,529	12,160
Reformulated - RBOB	1,392	—	1,392	1,165	14	—	1,179
Conventional	3,423	230	3,653	6,752	1,700	2,529	10,981
CBOB	693	133	826	2,697	980	1,729	5,406
GTAB	—	—	—	—	—	—	—
Other	2,730	97	2,827	4,055	720	800	5,575
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	40	40	1,089	135	331	1,555
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	40	40	1,089	135	331	1,555
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	40	40	1,089	135	331	1,555
Finished Aviation Gasoline	—	—	—	—	75	—	75
Kerosene-Type Jet Fuel	600	—	600	1,192	338	365	1,895
Kerosene	69	1	70	89	—	13	102
Distillate Fuel Oil	2,549	175	2,724	4,148	1,106	1,656	6,910
15 ppm sulfur and under	1,934	42	1,976	3,891	1,034	1,438	6,363
Greater than 15 ppm to 500 ppm sulfur	44	118	162	—	30	85	115
Greater than 500 ppm sulfur	571	15	586	257	42	133	432
Residual Fuel Oil	522	18	540	824	145	45	1,014
Less than 0.31 percent sulfur	122	16	138	84	—	—	84
0.31 to 1.00 percent sulfur	50	2	52	106	26	—	132
Greater than 1.00 percent sulfur	350	—	350	634	119	45	798
Petrochemical Feedstocks	123	—	123	648	—	—	648
Naphtha for Petro. Feed. Use	123	—	123	495	—	—	495
Other Oils for Petro. Feed. Use	—	—	—	153	—	—	153
Special Naphthas	—	17	17	55	—	12	67
Lubricants	326	241	567	—	—	272	272
Waxes	—	485	485	—	—	62	62
Petroleum Coke	—	—	—	507	972	49	1,528
Marketable	—	—	—	507	972	49	1,528
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	138	374	512	2,184	2,001	454	4,639
Miscellaneous Products	8	16	24	79	21	8	108
Total Stocks, All Oils	27,230	2,901	30,131	41,978	10,376	12,827	65,181

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, August 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	1,839	23,840	15,533	1,222	388	42,822	2,519	23,756	95,670
Petroleum Products	10,617	59,292	49,388	3,825	1,505	124,627	9,482	50,148	252,996
Hydrocarbon Gas Liquids	2,737	2,076	5,284	10	157	10,264	404	1,769	19,414
Natural Gas Liquids	1,795	1,782	4,620	9	155	8,361	354	1,668	16,445
Ethane	185	—	—	—	—	185	—	—	185
Propane	363	475	201	1	2	1,042	44	107	2,979
Normal Butane	980	995	3,216	3	127	5,321	199	1,037	10,050
Isobutane	150	233	902	5	12	1,302	86	522	2,445
Natural Gasoline	117	79	301	—	14	511	25	2	786
Refinery Olefins	942	294	664	1	2	1,903	50	101	2,969
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	941	50	309	1	0	1,301	9	29	2,136
Butylene	1	243	355	0	2	601	41	72	804
Isobutylene	0	1	0	0	0	1	0	0	29
Oxygenates/Renewable Fuels/Other Hydrocarbons	39	45	216	52	15	367	108	232	1,032
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	39	45	216	52	15	367	108	232	1,009
Fuel Ethanol	33	29	58	25	11	156	103	32	562
Renewable Diesel Fuel	6	16	158	27	4	211	5	180	427
Other Renewable Fuels	—	—	—	—	—	—	—	20	20
Other Hydrocarbons	—	—	—	—	—	—	—	—	23
Unfinished Oils	2,976	21,817	14,830	895	658	41,176	2,754	20,260	83,845
Naphthas and Lighter	1,234	6,594	2,262	172	166	10,428	752	2,990	18,881
Kerosene and Light Gas Oils	560	4,434	2,139	212	220	7,565	539	3,899	14,979
Heavy Gas Oils	494	8,516	8,230	428	272	17,940	1,151	10,678	38,686
Residuum	688	2,273	2,199	83	—	5,243	312	2,693	11,299
Motor Gasoline Blending Components (MGBC)	2,552	12,413	11,899	325	289	27,478	2,707	13,353	60,743
Reformulated - RBOB	126	724	354	—	—	1,204	—	4,940	8,715
Conventional	2,426	11,689	11,545	325	289	26,274	2,707	8,413	52,028
CBOB	933	4,288	5,741	232	87	11,281	1,507	1,856	20,876
GTAB	—	—	—	—	—	—	—	—	—
Other	1,493	7,401	5,804	93	202	14,993	1,200	6,557	31,152
Aviation Gasoline Blending Components	10	—	7	—	—	17	—	—	17
Finished Motor Gasoline	414	1,684	1,550	13	68	3,729	534	690	6,548
Reformulated	—	—	—	—	—	—	—	15	15
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	15	15
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	414	1,684	1,550	13	68	3,729	534	675	6,533
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	50	—	50
Ed55 and Lower	—	—	—	—	—	—	50	—	50
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	414	1,684	1,550	13	68	3,729	484	675	6,483
Finished Aviation Gasoline	24	89	138	—	—	251	7	140	473
Kerosene-Type Jet Fuel	275	2,907	2,408	37	—	5,627	316	3,928	12,366
Kerosene	29	6	118	6	—	159	1	2	334
Distillate Fuel Oil	875	7,073	7,009	424	131	15,512	1,679	5,234	32,059
15 ppm sulfur and under	715	6,229	5,176	315	131	12,566	1,445	4,520	26,870
Greater than 15 ppm to 500 ppm sulfur	27	113	786	35	—	961	146	245	1,629
Greater than 500 ppm sulfur	133	731	1,047	74	—	1,985	88	469	3,560
Residual Fuel Oil	89	2,521	1,231	46	71	3,958	232	1,920	7,664
Less than 0.31 percent sulfur	13	—	144	—	—	157	35	—	414
0.31 to 1.00 percent sulfur	—	192	80	46	11	329	4	325	842
Greater than 1.00 percent sulfur	76	2,329	1,007	—	60	3,472	193	1,595	6,408
Petrochemical Feedstocks	137	1,588	581	3	—	2,309	—	5	3,085
Naphtha for Petro. Feed. Use	33	1,048	421	3	—	1,505	—	5	2,128
Other Oils for Petro. Feed. Use	104	540	160	—	—	804	—	—	957
Special Naphthas	69	595	—	93	—	757	—	53	894
Lubricants	39	2,167	1,885	742	—	4,833	—	645	6,317
Waxes	—	88	116	54	—	258	—	—	805
Petroleum Coke	110	3,735	1,548	—	—	5,393	60	1,342	8,323
Marketable	110	3,735	1,548	—	—	5,393	60	1,342	8,323
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	223	209	464	1,124	98	2,118	665	471	8,405
Miscellaneous Products	19	279	104	1	18	421	15	104	672
Total Stocks, All Oils	12,456	83,132	64,921	5,047	1,893	167,449	12,001	73,904	348,666

— = 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, August 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	4.6	2.0	4.4	5.8	3.1	1.9	4.6
Finished Motor Gasoline ¹	47.9	35.8	47.0	51.4	47.2	50.1	50.6
Finished Aviation Gasoline ²	-	-	-	-	0.5	-	0.1
Kerosene-Type Jet Fuel	9.7	-	9.0	8.1	6.8	3.7	7.0
Kerosene	-0.1	-	-0.1	0.0	-	0.0	0.0
Distillate Fuel Oil ³	28.2	26.6	28.1	24.2	29.8	38.2	27.9
Residual Fuel Oil	4.2	0.0	3.9	1.7	1.5	0.4	1.4
Naphtha for Petro. Feed. Use	0.3	-	0.3	1.0	-	-	0.6
Other Oils for Petro. Feed. Use	-	-	-	0.3	-	-	0.2
Special Naphthas	-	0.8	0.1	0.1	-	0.0	0.0
Lubricants	0.7	7.4	1.2	-	-	0.7	0.2
Waxes	-	0.5	0.0	-	-	0.1	0.0
Petroleum Coke	2.9	0.7	2.8	5.5	8.0	3.8	5.5
Asphalt and Road Oil	1.8	22.8	3.4	4.2	8.3	1.7	4.2
Still Gas	3.5	1.9	3.4	3.9	3.9	3.8	3.9
Miscellaneous Products	0.2	1.1	0.3	0.5	0.7	0.3	0.4
Processing Gain(-) or Loss(+) ⁴	-3.9	0.3	-3.6	-6.7	-9.8	-4.7	-6.7

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	4.1	6.1	5.5	1.2	2.0	5.5	3.1	3.1	4.7
Finished Motor Gasoline ¹	51.6	41.7	41.8	27.3	50.4	42.2	46.5	48.5	45.6
Finished Aviation Gasoline ²	0.5	0.1	0.1	-	-	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel	6.8	9.3	10.0	2.8	-	9.1	6.0	18.9	10.0
Kerosene	0.0	0.0	0.1	0.1	-	0.0	-	0.0	0.0
Distillate Fuel Oil ³	30.0	29.7	32.2	36.3	42.2	31.2	32.0	19.7	28.5
Residual Fuel Oil	1.4	1.9	3.5	-1.8	4.4	2.5	1.9	3.5	2.5
Naphtha for Petro. Feed. Use	0.6	3.3	0.8	-	-	1.9	-	0.0	1.1
Other Oils for Petro. Feed. Use	0.1	1.5	1.0	-	-	1.1	-	-	0.6
Special Naphthas	0.5	0.4	-	3.2	-	0.3	-	0.0	0.2
Lubricants	0.1	1.3	1.6	12.9	-	1.7	-	1.0	1.1
Waxes	-	0.0	0.0	0.4	-	0.0	-	-	0.0
Petroleum Coke	2.3	6.2	5.2	2.7	1.0	5.3	4.0	5.9	5.2
Asphalt and Road Oil	1.3	0.2	0.8	12.7	-0.2	0.9	6.6	1.1	2.1
Still Gas	3.9	4.6	3.7	2.5	1.9	4.0	3.8	4.9	4.1
Miscellaneous Products	0.5	0.8	0.5	0.0	0.0	0.6	0.6	0.5	0.5
Processing Gain(-) or Loss(+) ⁴	-3.7	-7.1	-6.7	-0.5	-1.9	-6.4	-4.4	-7.2	-6.3

- = 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, August 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	436	—	1,423	1,859
Connecticut	—	—	—	—
Delaware	—	—	—	—
Florida	—	—	—	—
Georgia	57	—	140	197
Maine	—	—	—	—
Maryland	—	—	—	—
Massachusetts	—	—	—	—
New Hampshire	—	—	—	—
New Jersey	196	—	1,148	1,344
New York	—	—	—	—
North Carolina	—	—	—	—
Pennsylvania	—	—	134	134
Rhode Island	—	—	—	—
South Carolina	183	—	—	183
Vermont	—	—	1	1
Virginia	—	—	—	—
West Virginia	—	—	—	—
PAD District 2	—	—	35	35
Illinois	—	—	—	—
Indiana	—	—	—	—
Michigan	—	—	35	35
Minnesota	—	—	—	—
North Dakota	—	—	—	—
Ohio	—	—	—	—
Wisconsin	—	—	—	—
PAD District 3	327	60	847	1,234
Alabama	—	—	—	—
Louisiana	—	60	170	230
Mississippi	—	—	—	—
New Mexico	—	—	—	—
Texas	327	—	677	1,004
PAD District 4	—	—	—	—
Idaho	—	—	—	—
Montana	—	—	—	—
PAD District 5	—	216	1,321	1,537
Alaska	—	—	—	—
California	—	—	1,321	1,321
Hawaii	—	—	—	—
Oregon	—	—	—	—
Washington	—	216	—	216
U.S. Total	763	276	3,626	4,665

— = 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, August 2017
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	36,849	75,075	81,948	7,767	42,956	244,595	7,890
Hydrocarbon Gas Liquids	953	1,899	407	249	1,032	4,540	146
Natural Gas Liquids	735	1,490	301	249	1,032	3,807	123
Ethane	—	—	—	—	—	—	—
Propane	664	1,030	—	244	886	2,824	91
Normal Butane	13	171	—	4	146	334	11
Isobutane	58	284	—	1	—	343	11
Natural Gasoline	—	5	301	—	—	306	10
Refinery Olefins	218	409	106	—	—	733	24
Ethylene	—	—	—	—	—	—	—
Propylene	218	321	—	—	—	539	17
Butylene	—	88	106	—	—	194	6
Isobutylene	—	—	—	—	—	—	—
Other Liquids	21,698	338	15,494	50	5,845	43,425	1,401
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,164	36	375	3	793	2,371	76
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	155	—	—	155	5
Methyl Tertiary Butyl Ether (MTBE)	—	—	28	—	—	28	1
Other Oxygenates ³	—	—	127	—	—	127	4
Renewable Fuels (including Fuel Ethanol)	1,164	36	213	3	793	2,209	71
Fuel Ethanol	—	—	—	—	256	256	8
Biomass-Based Diesel Fuel	1,164	36	213	3	166	1,582	51
Other Renewable Diesel Fuel	—	—	—	—	371	371	12
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	7	—	—	7	0
Unfinished Oils ¹	1,890	—	13,427	—	4,391	19,708	636
Naphthas and Lighter	553	—	246	—	54	853	28
Kerosene and Lighter Gas Oils	—	—	55	—	—	55	2
Heavy Gas Oils	1,337	—	10,840	—	3,347	15,524	501
Residuum	—	—	2,286	—	990	3,276	106
Motor Gasoline Blend.Comp. (MGBC)	18,644	302	1,692	47	661	21,346	689
Reformulated - RBOB	6,913	—	—	—	—	6,913	223
Conventional	11,731	302	1,692	47	661	14,433	466
CBOB	1,074	—	—	—	454	1,528	49
GTAB	2,872	—	—	—	—	2,872	93
Other	7,785	302	1,692	47	207	10,033	324
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	8,369	769	4,333	99	5,573	19,143	618
Finished Motor Gasoline	620	—	50	—	60	730	24
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	620	—	50	—	60	730	24
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	620	—	50	—	60	730	24
Finished Aviation Gasoline	15	5	—	—	3	23	1
Kerosene-Type Jet Fuel	1,751	—	—	9	3,637	5,397	174
Bonded Aircraft Fuel	290	—	—	—	1,384	1,674	54
Other	1,461	—	—	9	2,253	3,723	120
Kerosene	315	—	—	—	—	315	10
Distillate Fuel Oil	2,537	25	692	66	162	3,482	112
15 ppm sulfur and under	1,630	22	—	66	161	1,879	61
Bonded	—	—	—	—	—	—	—
Other	1,630	22	—	66	161	1,879	61
Greater than 15 ppm to 500 ppm sulfur	36	—	—	—	—	36	1
Bonded	—	—	—	—	—	—	—
Other	36	—	—	—	—	36	1
Greater than 500 ppm to 2000 ppm sulfur	871	3	692	—	1	1,567	51
Bonded	—	—	—	—	—	—	—
Other	871	3	692	—	1	1,567	51
Greater than 2000 ppm	—	—	—	—	—	—	—
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
Residual Fuel Oil	1,859	35	1,234	—	1,537	4,665	150
Less than 0.31 percent sulfur	436	—	327	—	—	763	25
0.31 to 1.00 percent sulfur	—	—	60	—	216	276	9
Greater than 1.00 percent sulfur	1,423	35	847	—	1,321	3,626	117
Petrochemical Feedstocks	3	165	566	—	38	772	25
Naphtha for Petro. Feed. Use	3	77	517	—	38	635	20
Other Oils for Petro. Feed. Use	—	88	49	—	—	137	4
Special Naphthas	—	51	616	—	—	667	22
Lubricants	169	166	770	—	8	1,113	36
Waxes	85	7	48	—	38	178	6
Petroleum Coke (Marketable)	1	18	337	—	28	384	12
Asphalt and Road Oil	1,014	296	—	23	62	1,395	45
Miscellaneous Products	—	1	20	1	—	22	1
Total	67,869	78,081	102,182	8,165	55,406	311,703	10,055

— = 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-August 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	228,531	582,176	794,209	66,072	292,643	1,963,631	8,081
Hydrocarbon Gas Liquids	11,674	19,537	3,591	2,522	7,966	45,290	186
Natural Gas Liquids	8,882	16,000	2,673	2,522	7,966	38,043	157
Ethane	-	-	-	-	-	-	-
Propane	8,102	13,027	14	2,263	6,782	30,188	124
Normal Butane	271	1,314	-	68	1,094	2,747	11
Isobutane	509	1,624	30	191	90	2,444	10
Natural Gasoline	-	35	2,629	-	-	2,664	11
Refinery Olefins	2,792	3,537	918	-	-	7,247	30
Ethylene	-	-	-	-	-	-	-
Propylene	2,785	3,003	-	-	-	5,788	24
Butylene	7	534	918	-	-	1,459	6
Isobutylene	-	-	-	-	-	-	-
Other Liquids	155,340	2,499	119,710	328	39,553	317,430	1,306
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	5,555	338	4,489	31	4,520	14,933	61
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	-	-	2,684	-	-	2,684	11
Methyl Tertiary Butyl Ether (MTBE)	-	-	1,672	-	-	1,672	7
Other Oxygenates ³	-	-	1,012	-	-	1,012	4
Renewable Fuels (including Fuel Ethanol)	5,553	306	1,716	31	4,520	12,126	50
Fuel Ethanol	31	-	-	-	974	1,005	4
Biomass-Based Diesel Fuel	5,522	306	1,716	31	482	8,057	33
Other Renewable Diesel Fuel	-	-	-	-	3,064	3,064	13
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	2	32	89	-	-	123	1
Unfinished Oils ¹	15,743	-	104,100	-	26,539	146,382	602
Naphthas and Lighter	3,217	-	1,911	-	1,044	6,172	25
Kerosene and Lighter Gas Oils	-	-	795	-	-	795	3
Heavy Gas Oils	8,461	-	76,905	-	22,118	107,484	442
Residuum	4,065	-	24,489	-	3,377	31,931	131
Motor Gasoline Blend.Comp. (MGBC)	134,042	2,161	11,121	297	8,494	156,115	642
Reformulated - RBOB	55,116	258	-	-	268	55,642	229
Conventional	78,926	1,903	11,121	297	8,226	100,473	413
CBOB	6,881	253	-	-	3,573	10,707	44
GTAB	23,453	-	704	-	161	24,318	100
Other	48,592	1,650	10,417	297	4,492	65,448	269
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	73,571	5,957	38,770	769	39,767	158,834	654
Finished Motor Gasoline	6,725	-	410	-	1,015	8,150	34
Reformulated	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	6,725	-	410	-	1,015	8,150	34
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	6,725	-	410	-	1,015	8,150	34
Finished Aviation Gasoline	42	19	-	7	12	80	0
Kerosene-Type Jet Fuel	11,956	5	-	29	22,998	34,988	144
Bonded Aircraft Fuel	2,060	-	-	-	7,655	9,715	40
Other	9,896	5	-	29	15,343	25,273	104
Kerosene	483	-	-	-	55	538	2
Distillate Fuel Oil	26,802	212	2,496	372	2,679	32,561	134
15 ppm sulfur and under	18,333	192	-	372	2,583	21,480	88
Bonded	-	-	-	-	-	-	-
Other	18,333	192	-	372	2,583	21,480	88
Greater than 15 ppm to 500 ppm sulfur	314	-	-	-	-	314	1
Bonded	-	-	-	-	-	-	-
Other	314	-	-	-	-	314	1
Greater than 500 ppm to 2000 ppm sulfur	8,155	9	1,632	-	96	9,892	41
Bonded	-	-	-	-	-	-	-
Other	8,155	9	1,632	-	96	9,892	41
Greater than 2000 ppm	-	11	864	-	-	875	4
Bonded	-	-	-	-	-	-	-
Other	-	11	864	-	-	875	4
Residual Fuel Oil	18,066	609	16,124	-	10,901	45,700	188
Less than 0.31 percent sulfur	1,124	-	1,785	-	-	2,909	12
0.31 to 1.00 percent sulfur	2,165	294	1,423	-	890	4,772	20
Greater than 1.00 percent sulfur	14,777	315	12,916	-	10,011	38,019	156
Petrochemical Feedstocks	9	1,145	8,868	-	305	10,327	42
Naphtha for Petro. Feed. Use	9	591	6,242	-	273	7,115	29
Other Oils for Petro. Feed. Use	-	554	2,626	-	32	3,212	13
Special Naphthas	-	351	2,951	-	45	3,347	14
Lubricants	1,886	1,575	6,176	-	492	10,129	42
Waxes	586	40	236	-	260	1,122	5
Petroleum Coke (Marketable)	209	181	1,489	-	239	2,118	9
Asphalt and Road Oil	6,807	1,819	-	352	765	9,743	40
Miscellaneous Products	-	1	20	9	1	31	0
Total	469,116	610,169	956,280	69,691	379,929	2,485,185	10,227

- = 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, August 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	89,815	-	-	6,045	-	56	56	-	1,600	1,600
Algeria	2,096	-	-	4,993	-	-	-	-	-	-
Angola	8,891	-	-	-	-	-	-	-	273	273
Ecuador	5,973	-	-	-	-	-	-	-	-	-
Equatorial Guinea	1,003	-	-	-	-	-	-	-	-	-
Gabon	648	-	-	417	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	14,655	-	-	-	-	-	-	-	-	-
Kuwait	2,690	-	-	-	-	-	-	-	-	-
Libya	1,093	-	-	-	-	-	-	-	-	-
Nigeria	11,671	-	-	-	-	-	-	-	624	624
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	22,899	-	-	-	-	-	-	-	-	-
United Arab Emirates	995	-	-	635	-	-	-	-	-	-
Venezuela	17,201	-	-	-	-	56	56	-	703	703
Non-OPEC	154,780	3,807	733	13,663	-	674	674	6,913	12,833	19,746
Argentina	-	-	-	-	-	-	-	-	206	206
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,274	-	-	-	17	52	69
Brazil	7,531	-	-	-	-	-	-	-	-	-
Brunei	245	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	106,884	3,451	627	-	-	399	399	3,496	1,809	5,305
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	10,823	-	-	349	-	-	-	-	395	395
Congo (Brazzaville)	951	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	189	-	-	-	26	-	26
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	82	35	117
France	-	-	-	100	-	-	-	782	299	1,081
Germany	-	-	-	176	-	-	-	-	24	24
Guatemala	544	-	-	-	-	-	-	-	-	-
India	-	-	-	247	-	-	-	-	3,250	3,250
Indonesia	1,623	-	-	-	-	-	-	-	-	-
Italy	-	-	-	262	-	-	-	116	44	160
Korea, South	-	-	-	-	-	-	-	-	104	104
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	16,239	301	-	-	-	50	50	-	160	160
Netherlands	-	-	-	-	-	121	121	757	1,031	1,788
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	4,830	-	-	750	-	-	-	-	180	180
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	98	620	718
Russia	2,757	-	-	8,644	-	-	-	-	1,661	1,661
Spain	-	-	-	-	-	-	-	-	820	820
Sweden	-	-	-	343	-	104	104	-	140	140
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	400	-	-	-	-	-	-	-	240	240
United Kingdom	-	-	-	71	-	-	-	1,539	446	1,985
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	696	-	-	-	-	-	-	-	-	-
Other	1,257	55	106	1,258	-	0	0	0	1,317	1,317
Total	244,595	3,807	733	19,708	-	730	730	6,913	14,433	21,346
Persian Gulf³	41,239	-	-	635	-	-	-	-	-	-

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, August 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	28	127	256	1,582	371	-	1,879	36	1,567	-	3,482
Argentina	-	-	-	1,319	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	119	-	119
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	422	-	422
Brazil	28	127	256	-	-	-	-	-	1	-	1
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	263	-	-	1,879	36	526	-	2,441
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	205	-	205
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	100	-	100
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	24	-	24
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	371	-	0	0	170	-	170
Total	28	127	256	1,582	371	-	1,879	36	1,567	-	3,482
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, August 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	—	—	—	559	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	9	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	43	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	507	—	—	—	—	—
Non-OPEC	315	23	—	4,838	667	763	276	3,626	4,665
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	40	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	9	—	807	255	—	216	477	693
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	770	—	—	—	—	—
Colombia	—	—	—	—	—	240	—	—	240
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	46	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	272	272
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	170	170
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	2,272	224	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	327	—	405	732
Netherlands	—	14	—	—	—	—	—	350	350
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	637	637
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	676	676
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	315	0	—	943	148	196	60	639	895
Total	315	23	—	5,397	667	763	276	3,626	4,665
Persian Gulf³	—	—	—	52	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, August 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	—	—	—	—	319	212	—	8,791	98,606	2,897	284	3,181
Algeria	—	—	—	—	—	—	—	4,993	7,089	68	161	229
Angola	—	—	—	—	—	—	—	273	9,164	287	9	296
Ecuador	—	—	—	—	—	—	—	—	5,973	193	—	193
Equatorial Guinea	—	—	—	—	—	—	—	—	1,003	32	—	32
Gabon	—	—	—	—	—	—	—	417	1,065	21	13	34
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	9	14,664	473	0	473
Kuwait	—	—	—	—	—	—	—	—	2,690	87	—	87
Libya	—	—	—	—	—	—	—	—	1,093	35	—	35
Nigeria	—	—	—	—	—	—	—	624	12,295	376	20	397
Qatar	—	—	—	—	—	190	—	190	190	—	6	6
Saudi Arabia	—	—	—	—	—	22	—	65	22,964	739	2	741
United Arab Emirates	—	—	—	—	—	—	—	635	1,630	32	20	53
Venezuela	—	—	—	—	319	—	—	1,585	18,786	555	51	606
Non-OPEC	635	137	178	384	1,076	901	22	58,317	213,097	4,993	1,881	6,874
Argentina	—	21	—	—	—	1	—	1,547	1,547	—	50	50
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	119	119	—	4	4
Bahrain	—	—	—	—	—	120	—	120	120	—	4	4
Belgium	—	—	—	—	—	11	—	1,776	1,776	—	57	57
Brazil	—	—	—	—	—	23	—	475	8,006	243	15	258
Brunei	—	—	—	—	—	—	—	—	245	8	—	8
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	77	88	54	46	1,076	290	2	15,883	122,767	3,448	512	3,960
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	67	—	—	—	—	837	837	—	27	27
Colombia	219	—	—	—	—	—	—	1,203	12,026	349	39	388
Congo (Brazzaville)	—	—	—	—	—	—	—	205	1,156	31	7	37
Denmark	—	—	—	—	—	—	—	215	215	—	7	7
Egypt	—	—	—	—	—	—	—	46	46	—	1	1
Estonia	—	—	—	171	—	—	—	171	171	—	6	6
Finland	—	—	—	—	—	—	—	117	117	—	4	4
France	21	28	—	—	—	4	—	1,506	1,506	—	49	49
Germany	1	—	—	—	—	13	—	214	214	—	7	7
Guatemala	—	—	—	—	—	—	—	—	544	18	—	18
India	—	—	—	—	—	—	—	3,767	3,767	—	122	122
Indonesia	—	—	—	—	—	47	—	47	1,670	52	2	54
Italy	—	—	—	—	—	9	—	431	431	—	14	14
Korea, South	—	—	—	—	—	360	—	2,960	2,960	—	95	95
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	21	—	—	—	—	21	21	—	1	1
Mexico	276	—	—	—	—	—	—	1,519	17,758	524	49	573
Netherlands	—	—	—	—	—	—	20	2,300	2,300	—	74	74
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	930	5,760	156	30	186
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	718	718	—	23	23
Russia	—	—	—	—	—	—	—	10,966	13,723	89	354	443
Spain	—	—	—	—	—	—	—	820	820	—	26	26
Sweden	—	—	—	—	—	2	—	589	589	—	19	19
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	916	1,316	13	30	42
United Kingdom	3	—	—	—	—	12	—	2,071	2,071	—	67	67
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	696	22	—	22
Other	38	0	36	167	0	9	0	5,828	7,085	40	186	228
Total	635	137	178	384	1,395	1,113	22	67,108	311,703	7,890	2,165	10,055
Persian Gulf³	—	—	—	—	—	332	—	1,019	42,258	1,330	33	1,363

— = 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-August 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	803,400	199	-	37,063	-	56	56	-	8,323	8,323
Algeria	21,312	-	-	29,438	-	-	-	-	-	-
Angola	31,149	-	-	740	-	-	-	-	610	610
Ecuador	50,063	-	-	-	-	-	-	-	-	-
Equatorial Guinea	3,284	-	-	-	-	-	-	-	-	-
Gabon	952	-	-	641	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	145,779	-	-	1,123	-	-	-	-	-	-
Kuwait	39,411	-	-	-	-	-	-	-	-	-
Libya	10,408	-	-	1,410	-	-	-	-	-	-
Nigeria	70,353	-	-	1,010	-	-	-	-	3,861	3,861
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	261,959	-	-	501	-	-	-	-	-	-
United Arab Emirates	3,870	-	-	1,823	-	-	-	-	-	-
Venezuela	164,860	199	-	377	-	56	56	-	3,852	3,852
Non-OPEC	1,160,231	37,844	7,247	109,319	-	8,094	8,094	55,642	92,150	147,792
Argentina	-	-	-	106	-	-	-	-	810	810
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	648	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	36	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	43	8,086	-	837	837	856	2,316	3,172
Brazil	50,338	-	-	948	-	-	-	-	378	378
Brunei	245	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	219	-	-	-	-	-	-
Canada	832,789	33,957	6,329	1,912	-	3,244	3,244	28,215	16,260	44,475
Chad	3,183	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	84,134	-	-	1,112	-	-	-	-	2,051	2,051
Congo (Brazzaville)	951	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	235	-	9	9	36	220	256
Egypt	2,173	-	-	-	-	-	-	-	259	259
Estonia	-	-	-	-	-	-	-	-	1	1
Finland	-	-	-	125	-	-	-	82	2,004	2,086
France	-	-	-	1,516	-	88	88	4,674	2,088	6,762
Germany	-	-	-	517	-	116	116	158	146	304
Guatemala	2,717	-	-	-	-	-	-	-	-	-
India	-	-	-	3,416	-	8	8	529	14,842	15,371
Indonesia	1,623	-	-	-	-	-	-	-	-	-
Italy	-	-	-	441	-	327	327	234	1,968	2,202
Korea, South	-	-	-	-	-	175	175	-	2,659	2,659
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	810	810
Malaysia	-	-	-	-	-	-	-	-	175	175
Mexico	144,839	1,171	172	109	-	116	116	-	1,478	1,478
Netherlands	-	-	-	3,598	-	520	520	2,846	6,223	9,069
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	9,943	815	-	5,668	-	236	236	975	2,050	3,025
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	307	307	1,142	5,003	6,145
Russia	12,173	-	-	66,390	-	157	157	195	9,906	10,101
Spain	-	-	-	2,243	-	114	114	86	8,928	9,014
Sweden	-	511	-	1,102	-	271	271	128	1,002	1,130
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	2,479	330	-	1,410	-	2	2	-	750	750
United Kingdom	4,398	233	-	980	-	1,273	1,273	15,455	5,827	21,282
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	855	-	-	-	-	-	-	-	-	-
Other	6,743	827	703	9,150	-	294	294	31	3,996	4,027
Total	1,963,631	38,043	7,247	146,382	-	8,150	8,150	55,642	100,473	156,115
Persian Gulf³	451,019	-	-	3,447	-	-	-	-	-	-

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-August 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	1,672	1,012	1,005	8,057	3,064	-	21,157	314	9,573	875	31,919
Argentina	172	-	-	6,920	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	119	-	119
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	234	-	-	-	-	-	-	-	422	260	682
Brazil	273	1,012	1,005	-	-	-	-	-	556	-	556
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	1,137	-	-	17,682	314	7,071	11	25,078
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	293	-	-	-	293
Colombia	-	-	-	-	-	-	183	-	70	-	253
Congo (Brazzaville)	-	-	-	-	-	-	-	-	205	-	205
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	115	115
Germany	161	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	2,254	-	100	114	2,468
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	433	-	-	-	433
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	75	-	-	-	75
Mexico	-	-	-	-	-	-	-	-	100	-	100
Netherlands	766	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	409	375	784
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	351	-	351
United Kingdom	66	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	3,064	-	237	0	170	0	407
Total	1,672	1,012	1,005	8,057	3,064	-	21,480	314	9,892	875	32,561
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

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-August 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	—	—	—	3,058	37	922	310	3,205	4,437
Algeria	—	—	—	—	—	347	—	—	347
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	10	—	—	—	174	174
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	24	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	310	—	310
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	54	37	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	2,970	—	575	—	3,031	3,606
Non-OPEC	538	80	—	31,930	3,310	1,987	4,462	34,814	41,263
Argentina	—	—	—	—	—	456	—	—	456
Aruba	—	—	—	151	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	43	—	—	—	351	351
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	112	112
Brazil	—	—	—	13	98	—	298	54	352
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	46	—	4,476	1,158	85	770	6,500	7,355
Chad	—	—	—	6	—	—	—	—	—
China	168	—	—	2,941	—	—	—	—	—
Colombia	—	—	—	—	—	240	717	1,274	2,231
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	46	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	41	—	—	272	272
Germany	—	—	—	—	36	—	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	787	—	—	81	171	252
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	444	444
Korea, South	55	—	—	19,345	731	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	334	502	709	14,777	15,988
Netherlands	—	34	—	—	14	—	—	1,090	1,090
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	14	—	—	—	—
Russia	—	—	—	32	—	508	482	2,306	3,296
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	274	274
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	321	3,754	4,075
United Kingdom	—	—	—	—	—	—	—	3	3
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	315	0	—	4,090	884	196	1,084	3,431	4,711
Total	538	80	—	34,988	3,347	2,909	4,772	38,019	45,700
Persian Gulf³	—	—	—	78	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-August 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	—	—	192	910	1,898	—	57,141	860,541	3,306	235	3,541
Algeria	326	—	—	—	—	387	—	30,498	51,810	88	126	213
Angola	—	—	—	—	—	—	—	1,350	32,499	128	6	134
Ecuador	—	—	—	—	—	—	—	184	50,247	206	1	207
Equatorial Guinea	—	—	—	—	—	—	—	—	3,284	14	—	14
Gabon	—	—	—	—	—	—	—	641	1,593	4	3	7
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,147	146,926	600	5	605
Kuwait	—	—	—	—	—	—	—	—	39,411	162	—	162
Libya	—	—	—	—	—	—	—	1,720	12,128	43	7	50
Nigeria	—	—	—	—	—	—	—	5,194	75,547	290	21	311
Qatar	—	—	—	—	—	1,115	—	1,115	1,115	—	5	5
Saudi Arabia	—	—	—	—	—	22	—	614	262,573	1,078	3	1,081
United Arab Emirates	—	—	—	—	—	374	—	2,197	6,067	16	9	25
Venezuela	—	—	—	192	910	—	—	12,481	177,341	678	51	730
Non-OPEC	6,789	3,212	1,122	1,926	8,833	8,231	31	464,413	1,624,644	4,775	1,911	6,686
Argentina	—	287	—	771	—	16	—	9,538	9,538	—	39	39
Aruba	—	—	—	—	—	—	—	151	151	—	1	1
Australia	—	—	—	—	—	—	—	—	648	3	—	3
Bahamas	—	—	—	—	66	—	—	615	615	—	3	3
Bahrain	—	—	—	—	—	665	—	665	665	—	3	3
Belgium	—	—	—	—	—	473	—	13,639	13,639	—	56	56
Brazil	—	—	42	—	—	23	—	4,715	55,053	207	19	227
Brunei	—	—	—	—	—	—	—	—	245	1	—	1
Cameroon	—	—	—	—	—	—	—	219	219	—	1	1
Canada	591	554	459	418	7,471	2,503	11	141,206	973,995	3,427	581	4,008
Chad	—	—	—	—	—	—	—	6	3,189	13	0	13
China	—	—	378	—	—	—	—	3,780	3,780	—	16	16
Colombia	1,140	—	—	202	1	—	—	6,990	91,124	346	29	375
Congo (Brazzaville)	—	—	—	—	—	—	—	205	1,156	4	1	5
Denmark	—	—	—	—	—	—	—	500	500	—	2	2
Egypt	—	—	—	—	—	—	—	305	2,478	9	1	10
Estonia	—	—	—	171	—	—	—	172	172	—	1	1
Finland	—	—	—	—	—	16	—	2,227	2,227	—	9	9
France	44	181	—	—	—	119	—	9,138	9,138	—	38	38
Germany	1	—	16	—	1	286	—	1,447	1,447	—	6	6
Guatemala	—	—	—	—	—	—	—	—	2,717	11	—	11
India	—	—	—	—	—	—	—	22,302	22,302	—	92	92
Indonesia	—	—	—	—	—	534	—	534	2,157	7	2	9
Italy	—	—	8	—	—	172	—	3,603	3,603	—	15	15
Korea, South	36	—	2	—	—	3,065	—	26,501	26,501	—	109	109
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	810	810	—	3	3
Malaysia	—	—	106	—	209	44	—	609	609	—	3	3
Mexico	2,329	—	—	—	—	—	—	21,797	166,636	596	90	686
Netherlands	151	—	1	—	—	—	20	15,307	15,307	—	63	63
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	2,006	—	—	—	—	—	11,750	21,693	41	48	89
Oman	—	—	—	—	—	65	—	65	65	—	0	0
Portugal	—	—	—	—	—	—	—	6,466	6,466	—	27	27
Russia	47	—	—	—	—	58	—	80,867	93,040	50	333	383
Spain	—	—	8	—	992	—	—	12,371	12,371	—	51	51
Sweden	—	—	—	8	—	16	—	3,312	3,312	—	14	14
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	6,918	9,397	10	28	39
United Kingdom	432	—	—	179	—	127	—	24,575	28,973	18	101	119
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	855	4	—	4
Other	2,018	184	102	177	93	49	0	31,108	37,851	28	126	152
Total	7,115	3,212	1,122	2,118	9,743	10,129	31	521,554	2,485,185	8,081	2,146	10,227
Persian Gulf³	—	—	—	—	—	2,176	—	5,738	456,757	1,856	24	1,880

— = 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, August 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	22,422	-	-	-	-	56	56	-	1,600	1,600
Algeria	2,096	-	-	-	-	-	-	-	-	-
Angola	4,831	-	-	-	-	-	-	-	273	273
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	2,334	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	1,093	-	-	-	-	-	-	-	-	-
Nigeria	10,003	-	-	-	-	-	-	-	624	624
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	2,065	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	56	56	-	703	703
Non-OPEC	14,427	735	218	1,890	-	564	564	6,913	10,131	17,044
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	17	52	69
Brazil	1,021	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	5,559	735	218	-	-	339	339	3,496	949	4,445
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	926	-	-	-	-	-	-	-	395	395
Congo (Brazzaville)	951	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	4	-	-	-	26	-	26
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	82	35	117
France	-	-	-	100	-	-	-	782	-	782
Germany	-	-	-	-	-	-	-	-	24	24
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	3,236	3,236
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	116	44	160
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	993	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	121	121	757	717	1,474
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	4,830	-	-	153	-	-	-	-	180	180
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	98	620	718
Russia	-	-	-	1,093	-	-	-	-	1,661	1,661
Spain	-	-	-	-	-	-	-	-	820	820
Sweden	-	-	-	343	-	104	104	-	140	140
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	240	240
United Kingdom	-	-	-	71	-	-	-	1,539	446	1,985
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	147	0	0	126	-	0	0	0	572	572
Total	36,849	735	218	1,890	-	620	620	6,913	11,731	18,644
Persian Gulf³	4,399	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	-	-	-	1,164	-	-	1,630	36	871	-	2,537
Argentina	-	-	-	1,106	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	119	-	119
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	1	-	1
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	58	-	-	1,630	36	522	-	2,188
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	205	-	205
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	24	-	24
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	-	0
Total	-	-	-	1,164	-	-	1,630	36	871	-	2,537
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	-	-	-	507	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	507	-	-	-	-	-
Non-OPEC	315	15	-	1,244	-	436	-	1,423	1,859
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	1	-	798	-	-	-	442	442
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	240	-	-	240
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	46	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	400	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	14	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	637	637
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	344	344
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	315	0	-	0	-	196	-	0	196
Total	315	15	-	1,751	-	436	-	1,423	1,859
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	—	—	—	—	319	—	—	2,482	24,904	723	80	803
Algeria	—	—	—	—	—	—	—	—	2,096	68	—	68
Angola	—	—	—	—	—	—	—	273	5,104	156	9	165
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	2,334	75	—	75
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	1,093	35	—	35
Nigeria	—	—	—	—	—	—	—	624	10,627	323	20	343
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	2,065	67	—	67
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	319	—	—	1,585	1,585	—	51	51
Non-OPEC	3	—	85	1	695	169	—	28,538	42,965	465	921	1,386
Argentina	—	—	—	—	—	—	—	1,106	1,106	—	36	36
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	119	119	—	4	4
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	7	—	76	76	—	2	2
Brazil	—	—	—	—	—	—	—	1	1,022	33	0	33
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	47	—	695	119	—	10,085	15,644	179	325	505
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	36	—	—	—	—	36	36	—	1	1
Colombia	—	—	—	—	—	—	—	635	1,561	30	20	50
Congo (Brazzaville)	—	—	—	—	—	—	—	205	1,156	31	7	37
Denmark	—	—	—	—	—	—	—	30	30	—	1	1
Egypt	—	—	—	—	—	—	—	46	46	—	1	1
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	117	117	—	4	4
France	—	—	—	—	—	4	—	886	886	—	29	29
Germany	—	—	—	—	—	10	—	34	34	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	3,236	3,236	—	104	104
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	1	—	161	161	—	5	5
Korea, South	—	—	—	—	—	22	—	422	422	—	14	14
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	2	—	—	—	—	2	2	—	0	0
Mexico	—	—	—	—	—	—	—	—	993	32	—	32
Netherlands	—	—	—	—	—	—	—	1,609	1,609	—	52	52
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	333	5,163	156	11	167
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	718	718	—	23	23
Russia	—	—	—	—	—	—	—	3,415	3,415	—	110	110
Spain	—	—	—	—	—	—	—	820	820	—	26	26
Sweden	—	—	—	—	—	2	—	589	589	—	19	19
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	584	584	—	19	19
United Kingdom	3	—	—	—	—	3	—	2,062	2,062	—	67	67
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	—	0	1	0	1	—	1,211	1,358	4	40	44
Total	3	—	85	1	1,014	169	—	31,020	67,869	1,189	1,001	2,189
Persian Gulf³	—	—	—	—	—	—	—	—	4,399	142	—	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 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	75,075	1,490	409	-	-	-	-	-	302	302
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	74,575	1,490	409	-	-	-	-	-	302	302
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	500	-	-	-	-	-	-	-	-	-
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	75,075	1,490	409	-	-	-	-	-	302	302
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	-	-	-	36	-	-	22	-	3	-	25
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	36	-	-	22	-	3	-	25
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	-	-	-	36	-	-	22	-	3	-	25
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	-	5	-	-	51	-	-	35	35
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	5	-	-	51	-	-	35	35
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	-	5	-	-	51	-	-	35	35
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	77	88	7	18	296	165	1	3,005	78,080	2,422	97	2,519
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	77	88	7	18	296	164	1	3,004	77,579	2,406	97	2,503
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	1	—	1	1	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	500	16	—	16
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	0	0	0	0	0	0
Total	77	88	7	18	296	166	1	3,006	78,081	2,422	97	2,519
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, August 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	45,982	-	-	4,647	-	-	-	-	-	-
Algeria	-	-	-	4,230	-	-	-	-	-	-
Angola	1,944	-	-	-	-	-	-	-	-	-
Ecuador	326	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	648	-	-	417	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	10,826	-	-	-	-	-	-	-	-	-
Kuwait	461	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	1,668	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	12,908	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	17,201	-	-	-	-	-	-	-	-	-
Non-OPEC	35,966	301	106	8,780	-	50	50	-	1,692	1,692
Argentina	-	-	-	-	-	-	-	-	206	206
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,093	-	-	-	-	-	-
Brazil	4,518	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	11,030	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	6,285	-	-	295	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	185	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	299	299
Germany	-	-	-	176	-	-	-	-	-	-
Guatemala	544	-	-	-	-	-	-	-	-	-
India	-	-	-	164	-	-	-	-	14	14
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	262	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	13,589	301	-	-	-	50	50	-	160	160
Netherlands	-	-	-	-	-	-	-	-	314	314
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	597	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	5,587	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	106	421	-	0	0	-	699	699
Total	81,948	301	106	13,427	-	50	50	-	1,692	1,692
Persian Gulf³	24,195	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	28	127	-	213	-	-	-	-	692	-	692
Argentina	-	-	-	213	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	422	-	422
Brazil	28	127	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	100	-	100
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	-	-	-	-	170	-	170
Total	28	127	-	213	-	-	-	-	692	-	692
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	-	-	-	-	616	327	60	847	1,234
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	40	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	204	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	272	272
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	170	170
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	224	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	327	-	405	732
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	148	0	60	0	60
Total	-	-	-	-	616	327	60	847	1,234
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	-	-	-	-	-	211	-	4,858	50,840	1,483	157	1,640
Algeria	-	-	-	-	-	-	-	4,230	4,230	-	136	136
Angola	-	-	-	-	-	-	-	-	1,944	63	-	63
Ecuador	-	-	-	-	-	-	-	-	326	11	-	11
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	417	1,065	21	13	34
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	10,826	349	-	349
Kuwait	-	-	-	-	-	-	-	-	461	15	-	15
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	1,668	54	-	54
Qatar	-	-	-	-	-	189	-	189	189	-	6	6
Saudi Arabia	-	-	-	-	-	22	-	22	12,930	416	1	417
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	17,201	555	-	555
Non-OPEC	517	49	48	337	-	559	20	15,376	51,342	1,160	496	1,656
Argentina	-	21	-	-	-	1	-	441	441	-	14	14
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	120	-	120	120	-	4	4
Belgium	-	-	-	-	-	4	-	1,519	1,519	-	49	49
Brazil	-	-	-	-	-	23	-	218	4,736	146	7	153
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	204	11,234	356	7	362
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	9	-	-	-	-	9	9	-	0	0
Colombia	219	-	-	-	-	-	-	514	6,799	203	17	219
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	185	185	-	6	6
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	171	-	-	-	171	171	-	6	6
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	21	28	-	-	-	-	-	620	620	-	20	20
Germany	1	-	-	-	-	2	-	179	179	-	6	6
Guatemala	-	-	-	-	-	-	-	-	544	18	-	18
India	-	-	-	-	-	-	-	448	448	-	14	14
Indonesia	-	-	-	-	-	47	-	47	47	-	2	2
Italy	-	-	-	-	-	8	-	270	270	-	9	9
Korea, South	-	-	-	-	-	338	-	562	562	-	18	18
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	19	-	-	-	-	19	19	-	1	1
Mexico	276	-	-	-	-	-	-	1,519	15,108	438	49	487
Netherlands	-	-	-	-	-	-	20	341	341	-	11	11
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	597	597	-	19	19
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	5,587	5,587	-	180	180
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	9	-	9	9	-	0	0
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	20	166	-	7	0	1,797	1,797	-1	57	58
Total	517	49	48	337	-	770	20	20,234	102,182	2,643	653	3,296
Persian Gulf³	-	-	-	-	-	331	-	331	24,526	780	11	791

- = 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, August 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	7,767	249	-	-	-	-	-	-	47	47
Canada	7,767	249	-	-	-	-	-	-	47	47
Other	0	0	-	-	-	-	-	-	0	0
Total	7,767	249	-	-	-	-	-	-	47	47
PAD District 5										
OPEC	21,411	-	-	1,398	-	-	-	-	-	-
Algeria	-	-	-	763	-	-	-	-	-	-
Angola	2,116	-	-	-	-	-	-	-	-	-
Ecuador	5,647	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	1,495	-	-	-	-	-	-	-	-	-
Kuwait	2,229	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	7,926	-	-	-	-	-	-	-	-	-
United Arab Emirates	995	-	-	635	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	21,545	1,032	-	2,993	-	60	60	-	661	661
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	1,992	-	-	-	-	-	-	-	-	-
Brunei	245	-	-	-	-	-	-	-	-	-
Canada	7,953	977	-	-	-	60	60	-	511	511
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,612	-	-	54	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	1,623	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	104	104
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	1,157	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	572	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	46	46
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	4,391	55	-	2,939	-	0	0	-	0	0
Total	42,956	1,032	-	4,391	-	60	60	-	661	661
Persian Gulf³	12,645	-	-	635	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	-	-	-	3	-	-	66	-	-	-	66
Canada	-	-	-	3	-	-	66	-	-	-	66
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	3	-	-	66	-	-	-	66
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	256	166	371	-	161	-	1	-	162
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	256	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	166	-	-	161	-	1	-	162
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	371	-	0	-	0	-	0
Total	-	-	256	166	371	-	161	-	1	-	162
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, August 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	—	—	—	9	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	9	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	—	—	—	—	—
Total	—	—	—	9	—	—	—	—	—
PAD District 5									
OPEC	—	—	—	43	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	43	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	3	—	3,594	—	—	216	1,321	1,537
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Canada	—	3	—	9	—	—	216	—	216
China	—	—	—	770	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Japan	—	—	—	943	—	—	—	—	—
Korea, South	—	—	—	1,872	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	350	350
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	555	555
Singapore	—	—	—	—	—	—	—	84	84
Sweden	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Other	—	0	—	0	—	—	0	332	332
Total	—	3	—	3,637	—	—	216	1,321	1,537
Persian Gulf³	—	—	—	43	—	—	—	—	—

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 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	-	-	-	-	-	-	-	9	9	-	0	0
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	9	9	-	0	0
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	23	-	1	389	8,156	251	13	263
Canada	-	-	-	-	23	-	1	389	8,156	251	13	263
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	23	-	1	398	8,165	251	13	263
PAD District 5												
OPEC	-	-	-	-	-	-	-	1,441	22,852	691	46	737
Algeria	-	-	-	-	-	-	-	763	763	-	25	25
Angola	-	-	-	-	-	-	-	-	2,116	68	-	68
Ecuador	-	-	-	-	-	-	-	-	5,647	182	-	182
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	1,495	48	-	48
Kuwait	-	-	-	-	-	-	-	-	2,229	72	-	72
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	43	7,969	256	1	257
United Arab Emirates	-	-	-	-	-	-	-	635	1,630	32	20	53
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	38	-	38	28	62	8	-	11,009	32,554	695	355	1,050
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	256	2,248	64	8	73
Brunei	-	-	-	-	-	-	-	-	245	8	-	8
Canada	-	-	-	28	62	7	-	2,201	10,154	257	71	328
China	-	-	22	-	-	-	-	792	792	-	26	26
Colombia	-	-	-	-	-	-	-	54	3,666	117	2	118
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	1,623	52	-	52
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	16	-	-	1	-	960	960	-	31	31
Korea, South	-	-	-	-	-	-	-	1,976	1,976	-	64	64
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	1,157	37	-	37
Netherlands	-	-	-	-	-	-	-	350	350	-	11	11
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	555	1,127	18	18	36
Singapore	-	-	-	-	-	-	-	455	455	-	15	15
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	38	-	-	-	-	-	-	84	84	-	3	3
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	0	-	3,326	7,717	142	106	248
Total	38	-	38	28	62	8	-	12,450	55,406	1,386	402	1,787
Persian Gulf ³	-	-	-	-	-	-	-	678	13,323	408	22	430

- = 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-August 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	143,583	-	-	4,769	-	56	56	-	8,034	8,034
Algeria	14,179	-	-	4,489	-	-	-	-	-	-
Angola	20,356	-	-	-	-	-	-	-	610	610
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	17,697	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	6,001	-	-	-	-	-	-	-	-	-
Nigeria	63,214	-	-	280	-	-	-	-	3,861	3,861
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	17,098	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	5,038	-	-	-	-	56	56	-	3,563	3,563
Non-OPEC	84,948	8,882	2,792	10,974	-	6,669	6,669	55,116	70,892	126,008
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	714	-	837	837	856	1,484	2,340
Brazil	9,144	-	-	-	-	-	-	-	312	312
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	48,020	7,952	2,792	261	-	2,681	2,681	27,957	10,109	38,066
Chad	1,903	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	9,440	-	-	104	-	-	-	-	1,605	1,605
Congo (Brazzaville)	951	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	4	-	9	9	36	179	215
Egypt	1,487	-	-	-	-	-	-	-	259	259
Estonia	-	-	-	-	-	-	-	-	1	1
Finland	-	-	-	-	-	-	-	82	2,004	2,086
France	-	-	-	100	-	-	-	4,674	1,651	6,325
Germany	-	-	-	75	-	116	116	158	122	280
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	8	8	529	13,258	13,787
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	327	327	234	1,342	1,576
Korea, South	-	-	-	-	-	-	-	-	1,461	1,461
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	495	495
Malaysia	-	-	-	-	-	-	-	-	175	175
Mexico	1,390	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	744	-	477	477	2,846	4,546	7,392
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	8,972	419	-	153	-	236	236	975	1,998	2,973
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	307	307	1,142	5,003	6,145
Russia	2,110	-	-	4,699	-	36	36	195	9,496	9,691
Spain	-	-	-	1,518	-	114	114	86	7,589	7,675
Sweden	-	511	-	670	-	271	271	128	1,002	1,130
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	2	2	-	480	480
United Kingdom	645	-	-	342	-	1,248	1,248	15,187	4,507	19,694
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	886	0	0	1,590	-	0	0	31	1,814	1,845
Total	228,531	8,882	2,792	15,743	-	6,725	6,725	55,116	78,926	134,042
Persian Gulf³	34,795	-	-	-	-	-	-	-	-	-

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-August 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	-	-	31	5,522	-	-	18,010	314	7,836	-	26,160
Argentina	-	-	-	5,204	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	119	-	119
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	31	-	-	-	-	-	1	-	1
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	318	-	-	15,494	314	6,966	-	22,774
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	4	-	-	-	4
Colombia	-	-	-	-	-	-	183	-	70	-	253
Congo (Brazzaville)	-	-	-	-	-	-	-	-	205	-	205
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	2,254	-	-	-	2,254
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	75	-	-	-	75
Mexico	-	-	-	-	-	-	-	-	100	-	100
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	24	-	24
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	351	-	351
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	-	-	0	0	0	-	0
Total	-	-	31	5,522	-	-	18,333	314	8,155	-	26,802
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-August 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	—	—	—	2,980	—	347	310	2,032	2,689
Algeria	—	—	—	—	—	347	—	—	347
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	10	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	3	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	310	—	310
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	3	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	2,964	—	—	—	2,032	2,032
Non-OPEC	483	42	—	8,976	—	777	1,855	12,745	15,377
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	151	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	43	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	13	—	—	—	54	54
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	8	—	4,467	—	85	76	5,286	5,447
Chad	—	—	—	6	—	—	—	—	—
China	168	—	—	262	—	—	—	—	—
Colombia	—	—	—	—	—	240	406	1,274	1,920
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	46	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	787	—	—	—	1	1
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	3,201	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	137	964	1,101
Netherlands	—	34	—	—	—	—	—	118	118
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	256	460	1,333	2,049
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	270	270
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	321	3,066	3,387
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	315	0	—	0	—	196	455	379	1,030
Total	483	42	—	11,956	—	1,124	2,165	14,777	18,066
Persian Gulf³	—	—	—	6	—	—	—	—	—

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-August 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	—	—	—	192	910	453	—	20,725	164,308	591	85	676
Algeria	—	—	—	—	—	387	—	5,223	19,402	58	21	80
Angola	—	—	—	—	—	—	—	610	20,966	84	3	86
Ecuador	—	—	—	—	—	—	—	10	10	—	0	0
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	3	17,700	73	0	73
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	310	6,311	25	1	26
Nigeria	—	—	—	—	—	—	—	4,464	67,678	260	18	279
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	3	17,101	70	0	70
United Arab Emirates	—	—	—	—	—	66	—	66	66	—	0	0
Venezuela	—	—	—	192	910	—	—	10,036	15,074	21	41	62
Non-OPEC	9	—	586	17	5,897	1,433	—	219,860	304,808	350	905	1,254
Argentina	—	—	—	—	—	8	—	5,212	5,212	—	21	21
Aruba	—	—	—	—	—	—	—	151	151	—	1	1
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	66	—	—	228	228	—	1	1
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	70	—	3,961	3,961	—	16	16
Brazil	—	—	42	—	—	—	—	453	9,597	38	2	39
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	418	6	4,816	884	—	90,890	138,910	198	374	572
Chad	—	—	—	—	—	—	—	6	1,909	8	0	8
China	—	—	84	—	—	—	—	518	518	—	2	2
Colombia	—	—	—	—	—	—	—	3,882	13,322	39	16	55
Congo (Brazzaville)	—	—	—	—	—	—	—	205	1,156	4	1	5
Denmark	—	—	—	—	—	—	—	228	228	—	1	1
Egypt	—	—	—	—	—	—	—	305	1,792	6	1	7
Estonia	—	—	—	—	—	—	—	1	1	—	0	0
Finland	—	—	—	—	—	—	—	2,086	2,086	—	9	9
France	—	—	—	—	—	47	—	6,472	6,472	—	27	27
Germany	—	—	16	—	1	76	—	564	564	—	2	2
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	16,837	16,837	—	69	69
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	13	—	1,916	1,916	—	8	8
Korea, South	—	—	2	—	—	293	—	4,957	4,957	—	20	20
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	495	495	—	2	2
Malaysia	—	—	6	—	—	—	—	256	256	—	1	1
Mexico	—	—	—	—	—	—	—	1,201	2,591	6	5	11
Netherlands	—	—	1	—	—	—	—	8,766	8,766	—	36	36
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	3,781	12,753	37	16	52
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	6,452	6,452	—	27	27
Russia	—	—	—	—	—	21	—	16,522	18,632	9	68	77
Spain	—	—	8	—	945	—	—	10,260	10,260	—	42	42
Sweden	—	—	—	—	—	15	—	2,867	2,867	—	12	12
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	4,220	4,220	—	17	17
United Kingdom	9	—	—	—	—	3	—	21,296	21,941	3	88	90
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	—	9	11	69	3	—	4,872	5,758	2	20	24
Total	9	—	586	209	6,807	1,886	—	240,585	469,116	940	990	1,931
Persian Gulf³	—	—	—	—	—	66	—	72	34,867	143	0	143

— = 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-August 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	572,773	16,000	3,537	-	-	-	-	258	1,903	2,161
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	571,775	16,000	3,537	-	-	-	-	258	1,903	2,161
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	582,176	16,000	3,537	-	-	-	-	258	1,903	2,161
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-August 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	-	-	-	306	-	-	192	-	9	11	212
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	306	-	-	192	-	9	11	212
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	-	-	-	306	-	-	192	-	9	11	212
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-August 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	-	19	-	-	351	-	294	315	609
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	19	-	-	351	-	294	315	609
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	-	19	-	5	351	-	294	315	609
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-August 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	-	-	-	-	-	2	-	7	9,410	39	0	39
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	2	-	2	2	-	0	0
Saudi Arabia	-	-	-	-	-	-	-	-	9,352	38	-	38
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	5	56	0	0	0
Non-OPEC	591	554	40	181	1,819	1,573	1	27,986	600,759	2,357	115	2,472
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	591	554	40	173	1,819	1,570	1	27,975	599,750	2,353	115	2,468
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	1	-	1	1	-	0	0
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	1	-	1	1	-	0	0
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	998	4	-	4
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	8	-	1	-	9	9	-	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	591	554	40	181	1,819	1,575	1	27,993	610,169	2,396	115	2,511
Persian Gulf ³	-	-	-	-	-	2	-	2	9,354	38	0	38

- = 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-August 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	482,932	199	-	25,451	-	-	-	-	289	289
Algeria	7,133	-	-	20,023	-	-	-	-	-	-
Angola	3,628	-	-	740	-	-	-	-	-	-
Ecuador	3,674	-	-	-	-	-	-	-	-	-
Equatorial Guinea	2,281	-	-	-	-	-	-	-	-	-
Gabon	952	-	-	641	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	113,355	-	-	1,123	-	-	-	-	-	-
Kuwait	24,275	-	-	-	-	-	-	-	-	-
Libya	1,239	-	-	725	-	-	-	-	-	-
Nigeria	5,002	-	-	730	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	161,622	-	-	501	-	-	-	-	-	-
United Arab Emirates	-	-	-	591	-	-	-	-	-	-
Venezuela	159,771	199	-	377	-	-	-	-	289	289
Non-OPEC	311,277	2,474	918	78,649	-	410	410	-	10,832	10,832
Argentina	-	-	-	106	-	-	-	-	810	810
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	36	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	43	7,191	-	-	-	-	832	832
Brazil	27,629	-	-	897	-	-	-	-	66	66
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	219	-	-	-	-	-	-
Canada	92,553	14	-	220	-	-	-	-	71	71
Chad	1,280	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	42,790	-	-	415	-	-	-	-	228	228
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	231	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	125	-	-	-	-	-	-
France	-	-	-	1,416	-	-	-	-	437	437
Germany	-	-	-	442	-	-	-	-	-	-
Guatemala	2,717	-	-	-	-	-	-	-	-	-
India	-	-	-	2,948	-	-	-	-	1,584	1,584
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	441	-	-	-	-	626	626
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	315	315
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	135,882	1,171	172	109	-	116	116	-	1,478	1,478
Netherlands	-	-	-	2,854	-	-	-	-	1,034	1,034
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	971	396	-	5,515	-	-	-	-	22	22
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	48,508	-	-	-	-	306	306
Spain	-	-	-	725	-	-	-	-	1,339	1,339
Sweden	-	-	-	320	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,112	-	-	711	-	-	-	-	270	270
United Kingdom	3,753	233	-	638	-	-	-	-	363	363
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	1,638	660	703	3,941	-	294	294	-	1,051	1,051
Total	794,209	2,673	918	104,100	-	410	410	-	11,121	11,121
Persian Gulf³	299,252	-	-	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-August 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	1,672	1,012	-	1,716	-	-	-	-	1,632	864	2,496
Argentina	172	-	-	1,716	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	234	-	-	-	-	-	-	-	422	260	682
Brazil	273	1,012	-	-	-	-	-	-	555	-	555
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
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	766	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	385	375	760
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	66	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	-	-	170	0	170
Total	1,672	1,012	-	1,716	-	-	-	-	1,632	864	2,496
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-August 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	-	999	1,574
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	37	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	575	-	999	1,574
Non-OPEC	-	-	-	-	2,914	1,210	1,423	11,917	14,550
Argentina	-	-	-	-	-	456	-	-	456
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	112	112
Brazil	-	-	-	-	98	-	298	-	298
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	807	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	311	-	311
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	41	-	-	272	272
Germany	-	-	-	-	36	-	-	1	1
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	81	170	251
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	686	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	334	502	302	10,372	11,176
Netherlands	-	-	-	-	14	-	-	10	10
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	14	-	-	-	-
Russia	-	-	-	-	-	252	22	973	1,247
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	4	4
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	3	3
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	884	0	409	0	409
Total	-	-	-	-	2,951	1,785	1,423	12,916	16,124
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-August 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	—	—	—	—	1,443	—	29,319	512,251	1,987	121	2,108
Algeria	326	—	—	—	—	—	—	20,349	27,482	29	84	113
Angola	—	—	—	—	—	—	—	740	4,368	15	3	18
Ecuador	—	—	—	—	—	—	—	—	3,674	15	—	15
Equatorial Guinea	—	—	—	—	—	—	—	—	2,281	9	—	9
Gabon	—	—	—	—	—	—	—	641	1,593	4	3	7
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,123	114,478	466	5	471
Kuwait	—	—	—	—	—	—	—	—	24,275	100	—	100
Libya	—	—	—	—	—	—	—	725	1,964	5	3	8
Nigeria	—	—	—	—	—	—	—	730	5,732	21	3	24
Qatar	—	—	—	—	—	1,113	—	1,113	1,113	—	5	5
Saudi Arabia	—	—	—	—	—	22	—	560	162,182	665	2	667
United Arab Emirates	—	—	—	—	—	308	—	899	899	—	4	4
Venezuela	—	—	—	—	—	—	—	2,439	162,210	657	10	668
Non-OPEC	5,916	2,626	236	1,489	—	4,733	20	132,752	444,029	1,281	546	1,827
Argentina	—	287	—	771	—	8	—	4,326	4,326	—	18	18
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	36	36	—	0	0
Bahrain	—	—	—	—	—	665	—	665	665	—	3	3
Belgium	—	—	—	—	—	35	—	9,129	9,129	—	38	38
Brazil	—	—	—	—	—	23	—	3,237	30,866	114	13	127
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	219	219	—	1	1
Canada	—	—	—	—	—	—	—	1,112	93,665	381	5	385
Chad	—	—	—	—	—	—	—	—	1,280	5	—	5
China	—	—	99	—	—	—	—	99	99	—	0	0
Colombia	1,140	—	—	202	—	—	—	2,296	45,086	176	9	186
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	231	231	—	1	1
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	171	—	—	—	171	171	—	1	1
Finland	—	—	—	—	—	16	—	141	141	—	1	1
France	44	149	—	—	—	72	—	2,546	2,546	—	10	10
Germany	1	—	—	—	—	209	—	858	858	—	4	4
Guatemala	—	—	—	—	—	—	—	—	2,717	11	—	11
India	—	—	—	—	—	—	—	4,997	4,997	—	21	21
Indonesia	—	—	—	—	—	534	—	534	534	—	2	2
Italy	—	—	8	—	—	159	—	1,243	1,243	—	5	5
Korea, South	—	—	—	—	—	2,698	—	3,384	3,384	—	14	14
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	315	315	—	1	1
Malaysia	—	—	97	—	—	44	—	141	141	—	1	1
Mexico	2,329	—	—	—	—	—	—	16,885	152,767	559	69	629
Netherlands	151	—	—	—	—	—	20	4,893	4,893	—	20	20
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	2,006	—	—	—	—	—	7,939	8,910	4	33	37
Oman	—	—	—	—	—	65	—	65	65	—	0	0
Portugal	—	—	—	—	—	—	—	14	14	—	0	0
Russia	47	—	—	—	—	37	—	50,905	50,905	—	209	209
Spain	—	—	—	—	—	—	—	2,064	2,064	—	8	8
Sweden	—	—	—	—	—	—	—	324	324	—	1	1
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	981	2,093	5	4	9
United Kingdom	423	—	—	179	—	124	—	2,029	5,782	15	8	24
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	1,781	184	32	166	—	44	0	10,332	11,970	7	43	48
Total	6,242	2,626	236	1,489	—	6,176	20	162,071	956,280	3,268	667	3,935
Persian Gulf³	—	—	—	—	—	2,108	—	4,360	303,612	1,231	18	1,249

— = 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-August 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	66,072	2,522	-	-	-	-	-	-	297	297
Canada	66,072	2,522	-	-	-	-	-	-	297	297
Other	0	0	-	-	-	-	-	-	0	0
Total	66,072	2,522	-	-	-	-	-	-	297	297
PAD District 5										
OPEC	167,482	-	-	6,843	-	-	-	-	-	-
Algeria	-	-	-	4,926	-	-	-	-	-	-
Angola	7,165	-	-	-	-	-	-	-	-	-
Ecuador	46,389	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	14,727	-	-	-	-	-	-	-	-	-
Kuwait	15,136	-	-	-	-	-	-	-	-	-
Libya	3,168	-	-	685	-	-	-	-	-	-
Nigeria	2,137	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	73,887	-	-	-	-	-	-	-	-	-
United Arab Emirates	3,870	-	-	1,232	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	125,161	7,966	-	19,696	-	1,015	1,015	268	8,226	8,494
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	648	-	-	-	-	-	-	-	-	-
Brazil	13,565	-	-	51	-	-	-	-	-	-
Brunei	245	-	-	-	-	-	-	-	-	-
Canada	54,369	7,469	-	1,431	-	563	563	-	3,880	3,880
China	-	-	-	-	-	-	-	-	-	-
Colombia	31,904	-	-	593	-	-	-	-	218	218
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	24	24
Indonesia	1,623	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	548	548
Korea, South	-	-	-	-	-	175	175	-	1,198	1,198
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	6,569	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	43	43	-	643	643
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	572	-	-	1,561	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	112	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	583	583
United Kingdom	-	-	-	-	-	25	25	268	957	1,225
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	15,666	497	-	15,948	-	209	209	0	175	175
Total	292,643	7,966	-	26,539	-	1,015	1,015	268	8,226	8,494
Persian Gulf³	107,620	-	-	1,232	-	-	-	-	-	-

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-August 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	-	-	-	31	-	-	372	-	-	-	372
Canada	-	-	-	31	-	-	372	-	-	-	372
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	31	-	-	372	-	-	-	372
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	974	482	3,064	-	2,583	-	96	-	2,679
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	974	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	482	-	-	1,624	-	96	-	1,720
China	-	-	-	-	-	-	289	-	-	-	289
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	237	-	-	-	237
Korea, South	-	-	-	-	-	-	433	-	-	-	433
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	3,064	-	0	-	0	-	0
Total	-	-	974	482	3,064	-	2,583	-	96	-	2,679
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

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-August 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	-	-	-	29	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	21	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	7	-	-	-	-	-	-	-
Canada	-	7	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	-	-	-
Total	-	7	-	29	-	-	-	-	-
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	12	-	22,954	45	-	890	9,837	10,727
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	12	-	9	-	-	400	899	1,299
China	-	-	-	2,679	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	4,090	-	-	-	-	-
Korea, South	55	-	-	16,144	45	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	270	3,441	3,711
Netherlands	-	-	-	-	-	-	-	962	962
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	220	1,912	2,132
Singapore	-	-	-	-	-	-	-	857	857
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	0	0	-	32	0	-	0	1,766	1,766
Total	55	12	-	22,998	45	-	890	10,011	10,901
Persian Gulf³	-	-	-	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-August 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	-	-	-	-	-	-	-	29	29	-	0	0
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	21	21	-	0	0
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	352	-	9	3,590	69,662	272	15	287
Canada	-	-	-	-	352	-	9	3,590	69,662	272	15	287
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	352	-	9	3,619	69,691	272	15	287
PAD District 5												
OPEC	-	-	-	-	-	-	-	7,061	174,543	689	29	718
Algeria	-	-	-	-	-	-	-	4,926	4,926	-	20	20
Angola	-	-	-	-	-	-	-	-	7,165	29	-	29
Ecuador	-	-	-	-	-	-	-	174	46,563	191	1	192
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	14,727	61	-	61
Kuwait	-	-	-	-	-	-	-	-	15,136	62	-	62
Libya	-	-	-	-	-	-	-	685	3,853	13	3	16
Nigeria	-	-	-	-	-	-	-	-	2,137	9	-	9
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	43	73,930	304	0	304
United Arab Emirates	-	-	-	-	-	-	-	1,232	5,102	16	5	21
Venezuela	-	-	-	-	-	-	-	1	1	-	0	0
Non-OPEC	273	32	260	239	765	492	1	80,225	205,386	515	330	845
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	648	3	-	3
Brazil	-	-	-	-	-	-	-	1,025	14,590	56	4	60
Brunei	-	-	-	-	-	-	-	-	245	1	-	1
Canada	-	-	1	239	484	49	1	17,639	72,008	224	73	296
China	-	-	195	-	-	-	-	3,163	3,163	-	13	13
Colombia	-	-	-	-	1	-	-	812	32,716	131	3	135
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	24	24	-	0	0
Indonesia	-	-	-	-	-	-	-	-	1,623	7	-	7
Japan	-	-	61	-	-	2	-	4,938	4,938	-	20	20
Korea, South	36	-	-	-	-	73	-	18,159	18,159	-	75	75
Malaysia	-	-	3	-	209	-	-	212	212	-	1	1
Mexico	-	-	-	-	-	-	-	3,711	10,280	27	15	42
Netherlands	-	-	-	-	-	-	-	1,648	1,648	-	7	7
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	3,693	4,265	2	15	18
Singapore	-	-	-	-	-	-	-	3,921	3,921	-	16	16
Sweden	-	-	-	-	-	-	-	112	112	-	0	0
Taiwan	192	-	-	-	-	-	-	775	775	-	3	3
United Kingdom	-	-	-	-	-	-	-	1,250	1,250	-	5	5
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	45	32	0	0	71	368	0	19,143	34,809	64	80	143
Total	273	32	260	239	765	492	1	87,286	379,929	1,204	359	1,563
Persian Gulf³	-	-	-	-	-	-	-	1,275	108,895	443	5	448

- = 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, August 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	1	5,504	17,632	93	700	23,930	772
Hydrocarbon Gas Liquids	2,773	8,106	27,077	24	1,433	39,414	1,271
Natural Gas Liquids	2,773	8,106	27,077	24	1,433	39,414	1,271
Ethane	1,050	2,678	2,787	-	-	6,515	210
Propane	1,255	220	19,896	-	939	22,310	720
Normal Butane	347	286	4,174	2	494	5,302	171
Isobutane	-	1	215	-	-	216	7
Natural Gasoline	121	4,920	5	22	1	5,070	164
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	449	3,258	9,617	0	448	13,773	444
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	301	858	3,780	-	158	5,098	164
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	2	0	2,251	-	2	2,256	73
Methyl Tertiary Butyl Ether (MTBE)	0	-	1,085	-	-	1,086	35
Other Oxygenates	2	0	1,166	-	2	1,170	38
Renewable Fuels (including Fuel Ethanol) ...	300	858	1,529	-	156	2,842	92
Fuel Ethanol	286	655	1,385	-	129	2,455	79
Biomass-Based Diesel	14	203	144	-	26	387	12
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	143	2,399	4,675	0	124	7,342	237
Naphthas and Lighter	128	2,394	3,686	0	116	6,324	204
Kerosene and Light Gas Oils	15	5	990	0	8	1,018	33
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	5	1	1,162	-	166	1,334	43
Reformulated	1	-	9	-	2	12	0
Conventional	5	1	1,152	-	164	1,322	43
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	5,243	1,431	81,904	50	9,325	97,954	3,160
Finished Motor Gasoline	21	55	16,738	1	1,574	18,390	593
Reformulated	-	-	-	-	-	-	-
Conventional	21	55	16,738	1	1,574	18,390	593
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	17	249	4,573	-	1,323	6,162	199
Kerosene	291	0	39	-	5	335	11
Distillate Fuel Oil	2,040	244	38,551	-	2,281	43,116	1,391
15 ppm sulfur and under	2,039	1	34,171	-	1,113	37,323	1,204
Greater than 15 ppm to 500 ppm sulfur	1	46	3,027	-	144	3,219	104
Greater than 500 ppm sulfur	0	197	1,352	-	1,024	2,573	83
Residual Fuel Oil	1,466	403	4,807	25	160	6,860	221
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	193	222	2,833	16	358	3,622	117
Waxes	70	29	29	0	5	133	4
Petroleum Coke	1,048	58	14,021	-	3,593	18,721	604
Asphalt and Road Oil	84	169	305	8	25	591	19
Miscellaneous Products	12	2	10	0	0	24	1
Total	8,467	18,299	136,231	168	11,907	175,071	5,647

- = 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-August 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	4,004	48,547	159,371	717	4,533	217,172	894
Hydrocarbon Gas Liquids	29,221	53,510	234,193	2,367	10,618	329,908	1,358
Natural Gas Liquids	29,221	53,510	234,193	2,367	10,618	329,908	1,358
Ethane	9,061	14,906	16,592	-	0	40,559	167
Propane	10,548	2,028	192,212	1	7,467	211,429	870
Normal Butane	1,138	2,621	24,817	197	3,091	31,732	131
Isobutane	5	2	1,187	-	0	1,189	5
Natural Gasoline	8,474	33,973	280	2,170	103	45,000	185
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	11,881	14,084	85,185	97	4,935	116,183	478
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	652	5,911	31,365	23	1,763	39,715	163
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	9	5	16,100	-	14	16,128	66
Methyl Tertiary Butyl Ether (MTBE)	1	0	8,840	-	0	8,841	36
Other Oxygenates	8	5	7,259	-	14	7,287	30
Renewable Fuels (including Fuel Ethanol) ...	643	5,907	15,265	23	1,749	23,587	97
Fuel Ethanol	576	4,862	14,744	0	1,577	21,759	90
Biomass-Based Diesel	68	1,044	521	23	171	1,827	8
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	10,910	7,776	39,566	74	1,200	59,525	245
Naphthas and Lighter	10,455	7,726	33,775	73	1,163	53,192	219
Kerosene and Light Gas Oils	455	50	5,790	1	37	6,334	26
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	319	396	14,255	0	1,972	16,943	70
Reformulated	4	0	53	-	7	65	0
Conventional	315	396	14,202	0	1,965	16,878	69
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	41,333	10,991	667,501	307	80,950	801,082	3,297
Finished Motor Gasoline	2,222	1,131	148,855	7	11,383	163,598	673
Reformulated	-	-	-	-	-	-	-
Conventional	2,222	1,131	148,855	7	11,383	163,598	673
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	1,130	1,667	37,820	-	7,645	48,263	199
Kerosene	640	13	509	-	27	1,188	5
Distillate Fuel Oil	18,927	1,902	291,780	-	23,920	336,529	1,385
15 ppm sulfur and under	15,952	9	253,543	-	14,828	284,332	1,170
Greater than 15 ppm to 500 ppm sulfur	2,873	985	23,163	-	1,627	28,648	118
Greater than 500 ppm sulfur	102	908	15,073	-	7,466	23,549	97
Residual Fuel Oil	10,524	2,265	54,892	155	4,445	72,281	297
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	1,625	1,478	23,498	92	2,018	28,711	118
Waxes	552	199	186	1	48	987	4
Petroleum Coke	4,986	1,489	107,729	0	31,212	145,417	598
Asphalt and Road Oil	630	842	2,046	52	250	3,820	16
Miscellaneous Products	96	5	185	0	2	288	1
Total	86,439	127,132	1,146,250	3,488	101,036	1,464,345	6,026

- = 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, August 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	—	0	—	9	—	51	51	—	—	—
Australia	—	561	—	0	—	0	0	0	0	0
Bahamas	700	24	—	124	—	32	32	—	—	—
Bahrain	—	—	—	—	—	1	1	—	—	—
Belgium	—	—	—	9	—	—	—	—	—	—
Belize	—	—	—	—	—	—	—	—	0	0
Brazil	689	1,125	—	442	—	413	413	—	—	—
Canada	7,812	8,275	—	2,404	—	431	431	—	164	164
Cayman Islands	—	—	—	—	—	10	10	0	—	0
Chile	—	1,072	—	235	—	0	0	—	0	0
China	4,488	4,807	—	1	—	10	10	—	—	—
Colombia	499	20	—	1,430	—	62	62	—	0	0
Costa Rica	—	0	—	9	—	615	615	—	0	0
Denmark	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	788	—	1	—	547	547	0	0	0
Ecuador	—	902	—	260	—	526	526	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
El Salvador	—	209	—	0	—	385	385	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	—	41	—	0	0	—	0	0
Germany	—	—	—	5	—	—	—	—	0	0
Ghana	—	222	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	—	—	—	—	—	0	0	—	—	—
Guatemala	—	286	—	4	—	931	931	—	16	16
Honduras	—	149	—	0	—	404	404	—	23	23
Hong Kong	—	—	—	0	—	—	—	—	0	0
India	1,800	2,443	—	0	—	—	—	—	—	—
Indonesia	—	511	—	1	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—
Israel	—	—	—	1	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—
Jamaica	—	18	—	0	—	2	2	—	0	0
Japan	520	4,744	—	418	—	2	2	2	0	2
Korea, South	2,003	2,220	—	13	—	—	—	0	—	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	4,016	—	779	—	12,011	12,011	9	1,113	1,122
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	162	—	5	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	1,029	41	—	1,074	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	1	—	—	—	—	—	—	—	—
Nicaragua	—	0	—	—	—	147	147	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—
Norway	—	262	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	—	151	—	47	—	241	241	—	0	0
Peru	—	—	—	1	—	526	526	—	—	—
Philippines	—	—	—	0	—	—	—	—	—	—
Portugal	—	245	—	—	—	—	—	—	—	—
Puerto Rico	—	2	—	0	—	1	1	—	0	0
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	5	—	0	0	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	773	2,026	—	9	—	0	0	—	—	—
South Africa	—	—	—	0	—	0	0	—	—	—
Spain	—	514	—	—	—	0	0	—	—	—
Switzerland	—	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	0	—	1	1	—	—	—
Thailand	—	—	—	0	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	13	—	0	0	0	—	0
Turkey	—	1,201	—	—	—	—	—	—	—	—
United Arab Emirates	—	0	—	—	—	—	—	—	—	—
United Kingdom	2,752	1,127	—	0	—	—	—	—	0	0
Venezuela	—	2	—	0	—	925	925	—	—	—
Other	865	1,288	—	2	—	116	116	1	6	7
Total	23,930	39,414	—	7,342	—	18,390	18,390	12	1,322	1,334

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 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	—	—	—	—	—	—	786	88	—	—	873
Australia	—	0	0	—	—	—	0	—	—	—	0
Bahamas	—	1	—	—	—	—	20	—	309	—	329
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	8	—	0	—	—	—	575	—	—	—	575
Belize	—	—	0	—	—	—	—	—	—	—	—
Brazil	—	0	643	—	—	—	7,050	671	—	—	7,721
Canada	—	0	722	372	—	—	0	191	317	—	508
Cayman Islands	—	—	—	—	—	—	38	—	—	—	38
Chile	198	0	0	—	—	—	3,523	—	—	—	3,523
China	0	0	0	—	—	—	1	—	—	—	1
Colombia	—	—	0	—	—	—	182	—	—	—	182
Costa Rica	—	0	0	—	—	—	1,105	—	—	—	1,105
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	0	—	—	—	9	220	—	—	229
Ecuador	—	—	—	—	—	—	1,004	354	—	—	1,358
Egypt	—	—	0	—	—	—	0	—	—	—	0
El Salvador	—	—	—	—	—	—	313	252	—	—	565
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	0	—	—	—	—	2,743	—	—	—	2,743
Germany	—	0	—	5	—	—	297	—	—	—	297
Ghana	—	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	923	—	—	—	923
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	0	—	—	—	1,338	416	—	—	1,754
Honduras	—	—	—	—	—	—	246	238	—	—	484
Hong Kong	—	0	—	—	—	—	—	—	—	—	—
India	0	0	214	—	—	—	1	—	—	—	1
Indonesia	—	0	0	—	—	—	—	—	—	—	—
Ireland	0	—	0	—	—	—	—	—	—	—	—
Israel	—	0	0	—	—	—	0	—	—	—	0
Italy	—	—	—	—	—	—	0	—	—	—	0
Jamaica	—	—	53	—	—	—	220	—	130	—	350
Japan	—	1,165	0	—	—	—	0	—	—	—	0
Korea, South	—	0	23	—	—	—	0	—	675	—	675
Lebanon	—	—	—	—	—	—	—	—	—	—	—
Mexico	463	0	41	3	—	—	6,457	84	45	—	6,587
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	320	—	—	—	320
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	3	30	1	—	—	1,965	—	100	—	2,065
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	0	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	0	—	—	—	201	0	—	201
Nigeria	—	—	54	—	—	—	—	—	—	—	—
Norway	—	—	0	2	—	—	—	—	—	—	—
Pakistan	—	0	—	—	—	—	—	—	—	—	—
Panama	—	0	0	0	—	—	1,311	0	279	—	1,590
Peru	—	0	102	—	—	—	2,631	98	—	—	2,729
Philippines	—	0	124	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	0	—	—	—	296	1	0	—	298
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	1	0	—	—	—	552	—	228	—	780
South Africa	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	887	—	—	—	887
Switzerland	—	—	66	4	—	—	0	—	—	—	0
Taiwan	—	0	0	—	—	—	—	—	—	—	—
Thailand	—	0	0	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	0	—	—	—	0
Turkey	—	—	—	—	—	—	278	—	—	—	278
United Arab Emirates	—	0	2	—	—	—	—	—	—	—	—
United Kingdom	—	0	101	—	—	—	488	—	120	—	608
Venezuela	416	—	—	—	—	—	—	—	270	—	270
Other	1	—	280	—	—	—	1,764	405	100	—	2,269
Total	1,086	1,170	2,455	387	—	—	37,323	3,219	2,573	—	43,116

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 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	—	—	34	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	28	—	386	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—
Canada	288	—	—	1,487	—	854	—	—
Cayman Islands	—	—	—	10	—	—	—	—
Chile	1	—	—	0	—	—	—	—
China	0	—	—	—	—	—	—	—
Colombia	2	—	—	266	—	—	—	—
Costa Rica	0	—	—	170	—	—	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	—	—	0	—	—	—	—
Ecuador	—	—	—	—	—	420	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	0	—	—	33	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	254	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	—	—	—	121	—	14	—	—
Honduras	0	—	—	36	—	269	—	—
Hong Kong	—	—	—	—	—	—	—	—
India	—	—	—	0	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	0	—	—	120	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	—	—	—	51	—	195	—	—
Japan	—	—	—	—	—	—	—	—
Korea, South	0	—	—	—	—	—	—	—
Lebanon	—	—	—	—	—	225	—	—
Mexico	4	—	—	1,365	—	1,317	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	200	—	666	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	—	—	—	—	—
Nigeria	—	—	—	0	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	0	—	—
Panama	0	—	—	872	—	66	—	—
Peru	—	—	—	585	—	—	—	—
Philippines	—	—	—	—	—	0	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	0	—	3	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	1,401	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	0	—	0	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	0	—	—
Thailand	0	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	0	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—
Other	40	—	—	784	—	790	—	—
Total	335	—	—	6,162	—	6,860	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 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	188	0	57	0	1,214	1,214	—	39	39
Australia	0	96	—	36	0	693	693	—	22	22
Bahamas	—	—	2	5	—	931	1,631	23	30	53
Bahrain	—	—	—	0	—	1	1	—	0	0
Belgium	0	284	0	385	1	1,263	1,263	—	41	41
Belize	—	—	—	1	—	1	1	—	0	0
Brazil	1	1,013	—	361	1	11,718	12,406	22	378	400
Canada	87	772	256	325	6	16,953	24,765	252	547	799
Cayman Islands	—	—	1	2	—	61	61	—	2	2
Chile	0	—	42	127	0	5,199	5,199	—	168	168
China	12	1,697	2	58	1	6,588	11,076	145	213	357
Colombia	0	0	0	44	0	2,006	2,505	16	65	81
Costa Rica	—	204	—	23	—	2,124	2,124	—	69	69
Denmark	—	—	0	0	—	0	0	—	0	0
Dominican Republic	0	—	37	16	—	1,618	1,618	—	52	52
Ecuador	0	—	0	18	—	3,485	3,485	—	112	112
Egypt	—	—	0	0	—	1	1	—	0	0
El Salvador	0	—	—	8	—	1,200	1,200	—	39	39
Finland	—	—	—	2	—	2	2	—	0	0
France	0	25	—	94	0	2,903	2,903	—	94	94
Germany	3	17	1	109	0	436	436	—	14	14
Ghana	—	—	—	0	—	222	222	—	7	7
Gibraltar	—	—	36	—	—	1,213	1,213	—	39	39
Greece	—	284	1	0	—	286	286	—	9	9
Guatemala	0	430	—	16	—	3,571	3,571	—	115	115
Honduras	0	275	3	11	—	1,653	1,653	—	53	53
Hong Kong	0	—	0	1	0	2	2	—	0	0
India	3	3,068	1	71	0	5,802	7,602	58	187	245
Indonesia	0	—	1	2	—	514	514	—	17	17
Ireland	—	—	—	—	—	0	0	—	0	0
Israel	0	282	—	216	0	619	619	—	20	20
Italy	0	717	0	1	0	719	719	—	23	23
Jamaica	—	—	1	5	0	675	675	—	22	22
Japan	2	1,626	1	26	2	7,989	8,509	17	258	274
Korea, South	0	642	3	2	0	3,579	5,583	65	115	180
Lebanon	—	121	—	0	—	347	347	—	11	11
Mexico	17	1,949	144	1,083	10	30,910	30,910	—	997	997
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	313	—	0	—	800	800	—	26	26
Mozambique	—	96	—	—	—	96	96	—	3	3
Netherlands	4	126	1	52	0	4,263	5,292	33	138	171
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	—	—	1	—	2	2	—	0	0
Nicaragua	—	—	—	5	—	353	353	—	11	11
Nigeria	—	—	—	99	—	153	153	—	5	5
Norway	—	86	—	0	—	351	351	—	11	11
Pakistan	0	0	—	0	0	0	0	—	0	0
Panama	0	—	24	11	—	3,002	3,002	—	97	97
Peru	0	—	0	54	—	3,998	3,998	—	129	129
Philippines	0	—	—	1	0	126	126	—	4	4
Portugal	—	193	—	0	—	439	439	—	14	14
Puerto Rico	0	—	0	10	0	316	316	—	10	10
Romania	—	—	—	0	—	0	0	—	0	0
Saudi Arabia	0	138	—	3	—	146	146	—	5	5
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	—	52	—	4,269	5,042	25	138	163
South Africa	0	44	0	95	—	139	139	—	4	4
Spain	0	570	—	1	—	1,973	1,973	—	64	64
Switzerland	—	—	—	0	0	70	70	—	2	2
Taiwan	0	—	0	5	0	6	6	—	0	0
Thailand	0	—	1	3	0	5	5	—	0	0
Trinidad and Tobago	0	0	0	7	—	21	21	—	1	1
Turkey	0	2,154	—	36	—	3,669	3,669	—	118	118
United Arab Emirates	0	1	—	27	—	31	31	—	1	1
United Kingdom	0	228	0	2	0	2,068	4,820	89	67	155
Venezuela	—	55	0	1	—	1,670	1,670	—	54	54
Other	4	1,027	33	52	3	6,677	7,542	27	216	245
Total	133	18,721	591	3,622	24	151,141	175,071	772	4,876	5,647

— = 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-August 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	1,091	1	—	469	—	1,248	1,248	—	0	0
Australia	223	4,416	—	3	—	3	3	1	1	1
Bahamas	3,337	197	—	314	—	1,262	1,262	0	2	2
Bahrain	—	—	—	—	—	4	4	1	—	1
Belgium	—	544	—	414	—	422	422	—	1	1
Belize	—	—	—	0	—	461	461	—	0	0
Brazil	689	12,623	—	2,519	—	6,747	6,747	—	163	163
Canada	74,610	64,685	—	17,154	—	3,253	3,253	—	2,636	2,636
Cayman Islands	—	12	—	0	—	148	148	0	0	0
Chile	—	6,245	—	729	—	1,553	1,553	—	1	1
China	42,022	32,204	—	2,312	—	76	76	—	5	5
Colombia	5,937	188	—	10,452	—	6,769	6,769	—	248	248
Costa Rica	—	1,023	—	31	—	4,612	4,612	—	704	704
Denmark	683	—	—	0	—	1	1	—	—	—
Dominican Republic	1,285	8,093	—	19	—	3,059	3,059	0	281	282
Ecuador	—	3,868	—	295	—	5,722	5,722	0	262	263
Egypt	—	2,181	—	2	—	—	—	—	—	—
El Salvador	—	1,636	—	4	—	2,756	2,756	—	1	1
Finland	—	—	—	—	—	0	0	0	—	0
France	3,250	3,107	—	779	—	1	1	9	0	10
Germany	—	0	—	33	—	3	3	0	1	1
Ghana	—	1,480	—	—	—	326	326	—	0	0
Gibraltar	295	—	—	—	—	—	—	—	—	—
Greece	—	0	—	—	—	1	1	—	—	—
Guatemala	—	2,717	—	50	—	9,691	9,691	—	167	167
Honduras	—	2,549	—	5	—	2,710	2,710	—	516	516
Hong Kong	732	1,151	—	2	—	1	1	—	0	0
India	3,268	12,301	—	8	—	1	1	0	0	0
Indonesia	—	3,182	—	18	—	—	—	0	—	0
Ireland	—	—	—	0	—	1	1	—	—	—
Israel	—	3	—	4	—	8	8	—	0	0
Italy	7,279	235	—	26	—	—	—	—	—	—
Jamaica	—	281	—	0	—	713	713	—	0	0
Japan	7,078	45,730	—	1,999	—	153	153	4	4	7
Korea, South	8,289	24,197	—	1,056	—	210	210	0	1	1
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	30,219	—	3,812	—	90,612	90,612	46	10,388	10,434
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,579	—	45	—	—	—	—	—	—
Mozambique	—	551	—	—	—	—	—	—	—	—
Netherlands	15,407	9,061	—	6,667	—	873	873	—	34	34
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	4	—	0	—	1	1	—	0	0
Nicaragua	801	0	—	0	—	933	933	—	0	0
Nigeria	—	—	—	0	—	631	631	—	—	—
Norway	675	7,321	—	—	—	1	1	0	—	0
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	1,125	1,932	—	50	—	5,702	5,702	—	198	198
Peru	1,719	2	—	11	—	4,660	4,660	—	246	246
Philippines	—	—	—	1	—	—	—	—	0	0
Portugal	—	988	—	—	—	1	1	—	—	—
Puerto Rico	—	17	—	2	—	232	232	0	10	10
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	—	22	—	3	3	1	—	1
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	7,301	14,845	—	142	—	138	138	—	0	0
South Africa	500	179	—	1	—	299	299	—	0	0
Spain	2,945	2,651	—	0	—	0	0	—	238	238
Switzerland	—	0	—	0	—	458	458	—	0	0
Taiwan	—	275	—	1,201	—	3	3	—	4	4
Thailand	1,599	1	—	15	—	—	—	—	0	0
Trinidad and Tobago	—	3	—	39	—	1	1	1	0	1
Turkey	—	3,718	—	0	—	—	—	1	0	1
United Arab Emirates	—	255	—	42	—	1	1	0	—	0
United Kingdom	16,214	9,192	—	157	—	6	6	0	1	1
Venezuela	—	252	—	7,345	—	4,220	4,220	—	577	577
Other	8,818	12,014	—	1,276	—	2,908	2,908	1	188	188
Total	217,172	329,908	—	59,525	—	163,598	163,598	65	16,878	16,943

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 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	–	–	–	8,726	730	1,301	–	10,757
Australia	0	0	1	–	–	–	319	–	1	–	319
Bahamas	–	2	2	–	–	–	1,177	75	2,859	–	4,112
Bahrain	–	–	0	–	–	–	–	–	–	–	–
Belgium	59	0	1	0	–	–	1,545	278	953	–	2,775
Belize	–	–	0	–	–	–	0	113	–	–	113
Brazil	0	0	8,025	2	–	–	42,944	3,251	230	–	46,425
Canada	–	3	5,195	1,610	–	–	8	3,228	1,699	–	4,935
Cayman Islands	–	–	0	–	–	–	1,229	0	0	–	1,229
Chile	1,700	0	2	–	–	–	23,223	–	–	–	23,223
China	0	1	1	–	–	–	8	–	–	–	8
Colombia	–	0	252	–	–	–	5,368	–	–	–	5,368
Costa Rica	–	0	1	–	–	–	5,822	–	0	–	5,823
Denmark	–	–	–	–	–	–	48	125	–	–	173
Dominican Republic	–	–	4	–	–	–	1,974	477	308	–	2,759
Ecuador	–	0	0	–	–	–	5,698	1,860	264	–	7,821
Egypt	–	0	1	–	–	–	0	–	–	–	0
El Salvador	–	–	–	–	–	–	463	2,247	0	–	2,710
Finland	–	–	–	–	–	–	300	–	–	–	300
France	–	1	4	–	–	–	15,901	329	363	–	16,592
Germany	–	0	1	5	–	–	599	–	–	–	599
Ghana	–	–	0	–	–	–	–	–	–	–	–
Gibraltar	–	–	–	–	–	–	4,917	1,749	634	–	7,300
Greece	–	–	1	–	–	–	–	–	–	–	–
Guatemala	–	0	0	–	–	–	11,083	3,036	694	–	14,812
Honduras	–	–	0	–	–	–	2,298	1,092	113	–	3,503
Hong Kong	–	0	0	–	–	–	1	–	–	–	1
India	0	0	2,467	–	–	–	2	–	–	–	2
Indonesia	–	0	0	–	–	–	–	–	–	–	–
Ireland	0	0	1	–	–	–	–	–	–	–	–
Israel	–	0	1	–	–	–	1	–	–	–	1
Italy	–	0	0	4	–	–	1,013	20	–	–	1,033
Jamaica	–	–	348	–	–	–	1,690	75	712	–	2,478
Japan	–	7,257	8	–	–	–	1	–	–	–	1
Korea, South	0	1	662	2	–	–	5	–	715	–	720
Lebanon	–	0	–	–	–	–	0	–	281	–	281
Mexico	5,658	8	424	81	–	–	53,931	731	248	–	54,910
Montenegro	–	–	–	–	–	–	–	–	–	–	–
Morocco	–	–	–	–	–	–	5,058	–	–	–	5,058
Mozambique	–	–	–	–	–	–	–	–	–	–	–
Netherlands	–	3	335	9	–	–	21,343	1,447	797	–	23,586
Netherlands Antilles	–	–	–	–	–	–	–	–	–	–	–
New Zealand	–	0	1	–	–	–	–	–	–	–	–
Nicaragua	–	–	0	4	–	–	53	952	100	–	1,105
Nigeria	–	–	384	–	–	–	–	–	–	–	–
Norway	–	0	0	3	–	–	10	–	–	–	10
Pakistan	–	0	0	–	–	–	–	–	–	–	–
Panama	–	0	0	0	–	–	8,777	1,579	645	–	11,001
Peru	–	0	621	93	–	–	17,165	358	229	–	17,753
Philippines	–	0	1,167	–	–	–	0	0	–	–	0
Portugal	–	–	–	–	–	–	–	–	–	–	–
Puerto Rico	–	2	172	–	–	–	328	2	0	–	330
Romania	–	–	–	–	–	–	311	–	–	–	311
Saudi Arabia	1	0	1	–	–	–	1	–	–	–	1
Serbia	–	–	–	–	–	–	–	–	–	–	–
Singapore	0	6	326	2	–	–	5,605	–	3,690	–	9,295
South Africa	–	0	–	0	–	–	1,013	–	–	–	1,013
Spain	–	–	0	1	–	–	2,819	–	275	–	3,094
Switzerland	–	–	98	12	–	–	40	149	–	–	189
Taiwan	0	0	1	–	–	–	0	–	0	–	1
Thailand	–	0	0	–	–	–	2	–	0	–	2
Trinidad and Tobago	–	0	0	0	–	–	1	–	0	–	1
Turkey	–	0	–	–	–	–	375	–	–	–	375
United Arab Emirates	–	0	865	–	–	–	2	–	–	–	2
United Kingdom	–	1	102	–	–	–	9,826	0	423	–	10,249
Venezuela	1,424	0	0	–	–	–	3,103	285	1,064	–	4,452
Other	0	2	282	0	–	–	18,206	4,460	4,951	–	27,618
Total	8,841	7,287	21,759	1,827	–	–	284,332	28,648	23,549	–	336,529

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 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	—	—	—	324	—	3,090	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	84	—	—
Belize	0	—	—	—	—	—	—	—
Brazil	0	—	—	1,702	—	—	—	—
Canada	596	—	—	9,769	—	8,751	—	—
Cayman Islands	57	—	—	1,513	—	0	—	—
Chile	6	—	—	1,825	—	0	—	—
China	4	—	—	4	—	1,688	—	—
Colombia	4	—	—	847	—	301	—	—
Costa Rica	0	—	—	1,028	—	202	—	—
Denmark	—	—	—	519	—	—	—	—
Dominican Republic	0	—	—	1,447	—	271	—	—
Ecuador	—	—	—	89	—	2,768	—	—
Egypt	—	—	—	—	—	887	—	—
El Salvador	0	—	—	250	—	—	—	—
Finland	47	—	—	307	—	—	—	—
France	48	—	—	942	—	—	—	—
Germany	0	—	—	—	—	2	—	—
Ghana	—	—	—	1	—	—	—	—
Gibraltar	—	—	—	—	—	560	—	—
Greece	—	—	—	—	—	0	—	—
Guatemala	97	—	—	891	—	1,088	—	—
Honduras	50	—	—	499	—	2,240	—	—
Hong Kong	0	—	—	—	—	0	—	—
India	0	—	—	1	—	0	—	—
Indonesia	—	—	—	0	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	991	—	—	—	—
Italy	—	—	—	0	—	—	—	—
Jamaica	0	—	—	871	—	2,770	—	—
Japan	1	—	—	1	—	0	—	—
Korea, South	0	—	—	0	—	0	—	—
Lebanon	—	—	—	—	—	4,435	—	—
Mexico	29	—	—	9,282	—	10,131	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	1,165	—	578	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	2	—	—	2,309	—	2,115	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	—	—	0	—	—
Nigeria	—	—	—	0	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	0	—	—
Panama	0	—	—	4,323	—	3,864	—	—
Peru	0	—	—	1,967	—	192	—	—
Philippines	—	—	—	0	—	0	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	1	—	—	1	—	3	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	1	—	—	—	—	0	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	1	—	—	0	—	20,253	—	—
South Africa	—	—	—	304	—	380	—	—
Spain	—	—	—	0	—	0	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	1	—	5	—	—
Thailand	0	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	3	—	—	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	2	—	—	0	—	301	—	—
United Kingdom	—	—	—	630	—	323	—	—
Venezuela	—	—	—	—	—	648	—	—
Other	241	—	—	3,982	—	4,314	—	—
Total	1,188	—	—	48,263	—	72,281	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 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	3	368	91	2,555	0	16,005	17,097	4	66	70
Australia	5	1,666	1	102	0	6,518	6,741	1	27	28
Bahamas	0	—	27	408	0	9,740	13,077	14	40	54
Bahrain	0	—	—	4	—	9	9	—	0	0
Belgium	4	1,324	1	2,605	2	8,236	8,236	—	34	34
Belize	—	—	0	10	—	585	585	—	2	2
Brazil	4	9,034	1	2,079	3	89,328	90,017	3	368	370
Canada	628	4,350	1,421	2,194	28	127,207	201,817	307	523	831
Cayman Islands	—	—	6	13	—	2,978	2,978	—	12	12
Chile	3	—	403	671	1	36,361	36,361	—	150	150
China	77	13,853	30	657	7	50,929	92,951	173	210	383
Colombia	3	1	72	733	2	25,240	31,176	24	104	128
Costa Rica	1	659	133	138	0	14,357	14,357	—	59	59
Denmark	0	606	2	202	—	1,502	2,185	3	6	9
Dominican Republic	2	655	274	190	1	17,055	18,340	5	70	75
Ecuador	1	988	1	349	0	22,165	22,165	—	91	91
Egypt	0	3,332	0	17	0	6,422	6,422	—	26	26
El Salvador	0	152	0	168	—	7,678	7,678	—	32	32
Finland	0	275	0	5	0	936	936	—	4	4
France	2	1,499	0	571	0	23,556	26,806	13	97	110
Germany	13	311	6	810	0	1,783	1,783	—	7	7
Ghana	0	—	—	2	—	1,809	1,809	—	7	7
Gibraltar	—	—	36	1,624	—	9,520	9,815	1	39	40
Greece	0	3,810	1	3	—	3,816	3,816	—	16	16
Guatemala	0	1,609	0	153	—	31,275	31,275	—	129	129
Honduras	0	1,337	69	96	—	13,574	13,574	—	56	56
Hong Kong	4	0	0	21	1	1,182	1,914	3	5	8
India	14	24,791	8	698	1	40,292	43,560	13	166	179
Indonesia	1	0	12	28	0	3,242	3,242	—	13	13
Ireland	0	385	—	0	0	387	387	—	2	2
Israel	0	1,434	—	717	0	3,160	3,160	—	13	13
Italy	1	3,964	1	106	1	5,373	12,652	30	22	52
Jamaica	0	0	1	102	1	7,566	7,566	—	31	31
Japan	9	12,813	4	142	23	68,148	75,226	29	280	310
Korea, South	2	5,221	54	218	4	32,348	40,637	34	133	167
Lebanon	0	943	—	9	—	5,668	5,668	—	23	23
Mexico	129	15,238	752	4,847	67	236,633	236,633	—	974	974
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	3,240	—	1	—	11,666	11,666	—	48	48
Mozambique	—	515	—	0	—	1,066	1,066	—	4	4
Netherlands	27	1,544	9	554	10	47,138	62,545	63	194	257
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	417	1	7	0	430	430	—	2	2
Nicaragua	0	—	0	48	—	2,091	2,891	3	9	12
Nigeria	—	—	—	656	—	1,671	1,671	—	7	7
Norway	0	739	1	3	0	8,078	8,753	3	33	36
Pakistan	0	0	1	4	0	6	6	—	0	0
Panama	0	—	122	214	114	27,519	28,644	5	113	118
Peru	1	360	2	509	0	26,418	28,137	7	109	116
Philippines	1	573	—	9	2	1,753	1,753	—	7	7
Portugal	0	1,030	—	1	—	2,020	2,020	—	8	8
Puerto Rico	1	0	2	98	0	871	871	—	4	4
Romania	0	191	—	1	—	502	502	—	2	2
Saudi Arabia	1	398	2	69	0	500	500	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	2	0	0	722	0	45,732	53,033	30	188	218
South Africa	1	252	1	529	—	2,958	3,458	2	12	14
Spain	4	5,243	30	8	0	11,270	14,216	12	46	59
Switzerland	0	—	—	0	0	758	758	—	3	3
Taiwan	29	233	5	60	1	1,819	1,819	—	7	7
Thailand	1	0	12	34	2	68	1,667	7	0	7
Trinidad and Tobago	0	1	0	71	0	121	121	—	0	0
Turkey	0	13,259	0	150	—	17,505	17,505	—	72	72
United Arab Emirates	0	306	3	367	—	2,146	2,146	—	9	9
United Kingdom	2	841	2	35	0	21,541	37,755	67	89	155
Venezuela	0	138	2	790	0	19,848	19,848	—	82	82
Other	11	5,519	218	524	17	59,095	67,913	38	245	282
Total	987	145,417	3,820	28,711	288	1,247,173	1,464,345	894	5,132	6,026

— = 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, August 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	2,897	-29	-	186	-	-45	-45	-	52	52
Algeria	68	-	-	161	-	-	-	-	-	-
Angola	287	-	-	-	-	-	-	-	9	9
Ecuador	193	-29	-	-8	-	-17	-17	-	-	-
Equatorial Guinea	32	-	-	-	-	-	-	-	-	-
Gabon	21	-	-	13	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	473	-	-	-	-	-	-	-	-	-
Kuwait	87	-	-	-	-	-	-	-	-	-
Libya	35	0	-	-	-	-	-	-	-	-
Nigeria	376	-	-	-	-	-	-	-	20	20
Qatar	-	-	-	0	-	-	-	-	-	-
Saudi Arabia	739	-	-	0	-	0	0	-	-	-
United Arab Emirates	32	0	-	20	-	-	-	-	-	-
Venezuela	555	0	-	0	-	-28	-28	-	23	23
Non-OPEC	4,221	-1,119	24	212	-	-525	-525	223	371	594
Argentina	-	0	-	0	-	-2	-2	-	7	7
Aruba	-	-	-	-	-	-2	-2	-	0	0
Australia	-	-18	-	0	-	0	0	0	0	0
Bahamas	-23	-1	-	-4	-	-1	-1	-	-	-
Bahrain	-	-	-	-	-	0	0	-	-	-
Belgium	-	-	-	41	-	-	-	1	2	2
Brazil	221	-36	-	-14	-	-13	-13	-	-	-
Brunei	8	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,196	-156	20	-78	-	-1	-1	113	53	166
Chad	-	-	-	-	-	-	-	-	-	-
China	-145	-155	-	0	-	0	0	-	-	-
Colombia	333	-1	-	-35	-	-2	-2	-	13	13
Denmark	-	-	-	6	-	-	-	1	-	1
Dominican Republic	-	-24	-	0	-	-18	-18	0	0	0
Estonia	-	-	-	-	-	-	-	-	0	0
Finland	-	-	-	-	-	-	-	3	1	4
France	-	-	-	2	-	0	0	25	10	35
Germany	-	-	-	6	-	-	-	-	1	1
Guatemala	18	-9	-	0	-	-30	-30	-	-1	-1
Honduras	-	-5	-	0	-	-13	-13	-	-1	-1
India	-58	-79	-	8	-	-	-	-	105	105
Indonesia	52	-16	-	0	-	-	-	-	-	-
Italy	-	-	-	8	-	-	-	4	1	5
Japan	-17	-153	-	-13	-	0	0	0	0	0
Korea, South	-65	-72	-	0	-	-	-	0	3	3
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-28	-	-	0	-	-	-	-	-	-
Mexico	524	-120	-	-25	-	-386	-386	0	-31	-31
Netherlands	-33	-1	-	-35	-	4	4	24	33	58
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	156	-8	-	24	-	-	-	-	6	6
Oman	-	-	-	-	-	-	-	-	-	-
Panama	-	-5	-	-2	-	-8	-8	-	0	0
Portugal	-	-8	-	-	-	-	-	3	20	23
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Russia	89	-	-	279	-	-	-	-	54	54
Spain	-	-17	-	-	-	0	0	-	26	26
Sweden	-	-	-	11	-	3	3	-	5	5
Trinidad and Tobago	13	0	-	0	-	0	0	0	8	8
United Kingdom	-89	-36	-	2	-	-	-	50	14	64
Vietnam	-	-	-	-	-	-	-	-	0	0
Virgin Islands, U.S.	-	-13	-	-	-	0	0	-	0	0
Yemen	22	-	-	-	-	-	-	-	-	-
Other	47	-186	4	31	-	-56	-56	-1	42	41
Total	7,118	-1,149	24	399	-	-570	-570	223	423	646
Persian Gulf²	1,330	0	-	20	-	0	0	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 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	-13	0	-2	-	-	-	-32	-11	-9	-	-53
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-32	-11	-	-	-44
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	0	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-2	-	-	-	-	-	-	-	-
Qatar	-	-	0	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	0	0	-	-	-	-	-	-	-	-
Venezuela	-13	-	-	-	-	-	-	-	-9	-	-9
Non-OPEC	-21	-34	-69	39	12	-	-1,111	-91	-24	-	-1,226
Argentina	-	-	-	43	-	-	-25	-3	-	-	-28
Aruba	-	-	-	-	-	-	-1	-	-	-	-1
Australia	-	0	0	-	-	-	0	-	-	-	0
Bahamas	-	0	-	-	-	-	-1	-	-6	-	-7
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	0	-	0	-	-	-	-19	-	14	-	-5
Brazil	1	4	-12	-	-	-	-227	-22	0	-	-249
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	0	-	-	-	-	-	-	-
Canada	-	0	-23	-4	-	-	61	-5	7	-	62
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	0	-	-	-	0
Colombia	-	-	0	-	-	-	-6	-	-	-	-6
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	0	-7	-	-	-7
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	-	-	-	-	-88	-	-	-	-88
Germany	-	0	-	0	-	-	-10	-	-	-	-10
Guatemala	-	-	0	-	-	-	-43	-13	-	-	-57
Honduras	-	-	-	-	-	-	-8	-8	-	-	-16
India	0	0	-7	-	-	-	0	-	3	-	3
Indonesia	-	0	0	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	0	-	-	-	0
Japan	-	-38	0	-	-	-	0	-	-	-	0
Korea, South	-	0	-1	-	-	-	0	-	-22	-	-22
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-15	0	-1	0	-	-	-208	-3	-1	-	-212
Netherlands	-	0	-1	0	-	-	-63	-	-3	-	-67
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	0	0	-	-	-	-	-	-	-
Oman	-	-	-9	-	-	-	-	-	-	-	-
Panama	-	0	0	0	-	-	-42	0	-9	-	-51
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	-10	0	0	-	-10
Russia	-	-	-	-	-	-	-	-	1	-	1
Spain	-	-	-	-	-	-	-29	-	-	-	-29
Sweden	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	0	-	-	-	0
United Kingdom	-	0	-3	-	-	-	-16	-	-4	-	-20
Vietnam	-	-	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-6	-	0	-	-6
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-12	0	12	-	-370	-30	-4	-	-401
Total	-34	-34	-71	39	12	-	-1,143	-103	-32	-	-1,279
Persian Gulf²	-	0	0	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 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	-	-	18	-	-14	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-14	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	-	-	-
Kuwait	-	-	-	0	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	0	-	-	-	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	1	-	-	-	-
United Arab Emirates	0	-	-	-	-	-	-	-
Venezuela	-	-	-	16	-	-	-	-
Non-OPEC	-1	1	-	-43	22	-57	20	4
Argentina	0	-	-	-1	-	-	-	1
Aruba	0	-	-	-2	-	-19	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-1	-	-12	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	1	-	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-9	0	-	-22	8	-5	2	3
Chad	-	-	-	-	-	-	-	-
China	0	-	-	25	-	-	-	-
Colombia	0	-	-	-9	-	8	7	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	-	-	-	0	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	9	1	1
Germany	-	-	-	-	-	-	0	-
Guatemala	-	-	-	-4	-	0	-	-
Honduras	0	-	-	-1	-	-9	-	-
India	-	-	-	0	-	5	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	10	-	-	30	1	-	-	-
Korea, South	0	-	-	73	7	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-44	-	-19	9	-
Netherlands	-	0	-	-6	-	-10	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-28	-	-2	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Russia	-	-	-	-	-	21	-	-
Spain	-	-	-	0	-	0	-	-
Sweden	-1	-	-	-	-	-	-	-
Trinidad and Tobago	0	-	-	0	-	22	-	-
United Kingdom	-	-	-	-	-	-	0	-
Vietnam	-	-	-	0	-	-	-	-
Virgin Islands, U.S.	-	-	-	-5	-	-	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	1	-	-48	5	-46	1	-1
Total	-1	1	-	-25	22	-71	20	4
Persian Gulf²	0	-	-	2	-	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 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	-6	10	2	0	106	3,004
Algeria	-	-	-	0	-	161	229
Angola	-	-	-	0	-	9	296
Ecuador	0	-	0	-1	-	-112	80
Equatorial Guinea	-	-	-	0	-	0	32
Gabon	-	-	0	-	-	13	34
Iran	-	-	-	-	-	-	-
Iraq	-	-	-	0	-	0	473
Kuwait	-	0	0	0	0	0	87
Libya	-	-	-	0	-	0	35
Nigeria	-	-	-	-3	-	15	392
Qatar	-	0	-	6	-	6	6
Saudi Arabia	0	-4	-	1	-	-3	736
United Arab Emirates	0	0	-	-1	-	19	52
Venezuela	-	-2	10	0	-	-3	552
Non-OPEC	1	-585	16	-83	0	-2,817	1,404
Argentina	0	-6	0	-2	0	11	11
Aruba	-	-	0	0	-	-24	-24
Australia	0	-3	-	-1	0	-22	-22
Bahamas	-	-	0	0	-	-26	-49
Bahrain	-	-	-	4	-	4	4
Belgium	0	-9	0	-12	0	17	17
Brazil	0	-33	-	-11	0	-363	-142
Brunei	-	0	-	-	-	0	8
Cameroon	-	-	-	0	-	0	0
Canada	-1	-23	26	-1	0	-35	3,161
Chad	-	-	-	-	-	-	-
China	2	-55	0	-2	0	-186	-330
Colombia	0	0	0	-1	0	-26	307
Denmark	-	-	0	0	-	7	7
Dominican Republic	0	-	-1	-1	-	-50	-50
Estonia	-	6	-	-	-	6	6
Finland	-	-	-	0	-	4	4
France	0	-1	-	-3	0	-45	-45
Germany	0	-1	0	-3	0	-7	-7
Guatemala	0	-14	-	-1	-	-115	-98
Honduras	0	-9	0	0	-	-53	-53
India	0	-99	0	-2	0	-66	-124
Indonesia	0	-	0	1	-	-15	37
Italy	0	-23	0	0	0	-9	-9
Japan	0	-52	0	-1	0	-215	-232
Korea, South	0	-21	0	12	0	-20	-85
Latvia	-	-	-	0	-	0	0
Lithuania	-	-	-	0	-	0	0
Malaysia	1	-	0	0	0	1	-27
Mexico	-1	-63	-5	-35	0	-948	-424
Netherlands	0	-4	0	-2	1	-63	-97
Netherlands Antilles	-	-	-	-	-	-	-
Norway	-	-3	-	0	-	19	174
Oman	-	-2	-	0	-	-11	-11
Panama	0	-	-1	0	-	-97	-97
Portugal	-	-6	-	0	-	9	9
Puerto Rico	0	-	0	0	0	-10	-10
Russia	0	-	-	0	-	354	443
Spain	0	-18	-	0	-	-37	-37
Sweden	0	-	-	0	-	18	18
Trinidad and Tobago	0	0	0	0	-	29	42
United Kingdom	0	-7	0	0	0	0	-89
Vietnam	0	-	0	0	-	0	0
Virgin Islands, U.S.	-	-	0	0	-	-24	-24
Yemen	-	-	-	0	-	0	22
Other	0	-139	-3	-22	-1	-829	-780
Total	1	-592	26	-81	0	-2,711	4,407
Persian Gulf²	0	-5	0	10	0	27	1,357

- = 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-August 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	3,306	-17	-	121	-	-43	-43	0	31	31
Algeria	88	-	-	121	-	-	-	-	0	0
Angola	128	-	-	3	-	-	-	-	3	3
Ecuador	206	-16	-	-1	-	-24	-24	0	-1	-1
Equatorial Guinea	14	0	-	-	-	-	-	-	-	-
Gabon	4	-	-	3	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	600	-	-	5	-	-	-	-	-	-
Kuwait	162	0	-	-	-	0	0	-	0	0
Libya	43	0	-	6	-	-	-	-	-	-
Nigeria	290	-	-	4	-	-3	-3	-	16	16
Qatar	-	-	-	0	-	0	0	-	-	-
Saudi Arabia	1,078	0	-	2	-	0	0	0	-	0
United Arab Emirates	16	-1	-	7	-	0	0	0	-	0
Venezuela	678	0	-	-29	-	-17	-17	-	13	13
Non-OPEC	3,881	-1,184	30	237	-	-596	-596	229	313	542
Argentina	-4	0	-	-1	-	-5	-5	-	3	3
Aruba	-	-31	-	0	-	-1	-1	-	0	0
Australia	2	-18	-	0	-	0	0	0	0	0
Bahamas	-14	-1	-	-1	-	-5	-5	0	0	0
Bahrain	-	-	-	-	-	0	0	0	-	0
Belgium	-	-2	0	32	-	2	2	4	10	13
Brazil	204	-52	-	-6	-	-28	-28	-	1	1
Brunei	1	-	-	-	-	-	-	-	-	-
Cameroon	-	0	-	1	-	0	0	-	0	0
Canada	3,120	-126	26	-63	-	0	0	116	56	172
Chad	13	-	-	-	-	-	-	-	-	-
China	-173	-133	-	-10	-	0	0	-	0	0
Colombia	322	-1	-	-38	-	-28	-28	-	7	7
Denmark	-3	-	-	1	-	0	0	0	1	1
Dominican Republic	-5	-33	-	0	-	-13	-13	0	-1	-1
Estonia	-	-	-	0	-	-	-	-	0	0
Finland	-	-	-	1	-	0	0	0	8	9
France	-13	-13	-	3	-	0	0	19	9	28
Germany	-	0	-	2	-	0	0	1	1	1
Guatemala	11	-11	-	0	-	-40	-40	-	-1	-1
Honduras	-	-10	-	0	-	-11	-11	-	-2	-2
India	-13	-51	-	14	-	0	0	2	61	63
Indonesia	7	-13	-	0	-	-	-	0	-	0
Italy	-30	-1	-	2	-	1	1	1	8	9
Japan	-29	-188	-	-8	-	-1	-1	0	2	2
Korea, South	-34	-100	-	-4	-	0	0	0	11	11
Latvia	-	-	-	-	-	-	-	-	0	0
Lithuania	-	-	-	-	-	-	-	-	3	3
Malaysia	-23	-	-	0	-	0	0	-	1	1
Mexico	596	-120	1	-15	-	-372	-372	0	-37	-37
Netherlands	-63	-37	-	-13	-	-1	-1	12	25	37
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	38	-27	-	23	-	1	1	4	8	12
Oman	-	-	-	-4	-	-	-	-	-	-
Panama	-5	-8	-	0	-	-23	-23	-	-1	-1
Portugal	-	-4	-	-	-	1	1	5	21	25
Puerto Rico	-	0	-	0	-	-1	-1	0	0	0
Russia	50	0	-	273	-	1	1	1	41	42
Spain	-12	-11	-	9	-	0	0	0	36	36
Sweden	-	1	-	5	-	1	1	1	4	5
Trinidad and Tobago	10	1	-	6	-	0	0	0	3	3
United Kingdom	-49	-37	-	3	-	5	5	64	24	88
Vietnam	-	-	-	0	-	-	-	0	0	0
Virgin Islands, U.S.	-	-4	-	-	-	-2	-2	-	-1	-1
Yemen	4	-	-	-	-	0	0	-	-	-
Other	-27	-154	3	25	-	-77	-77	-1	12	13
Total	7,187	-1,201	30	357	-	-640	-640	229	344	573
Persian Gulf²	1,856	-1	-	14	-	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-August 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	-5	-	-	-	-36	-10	-5	-	-51
Algeria	-	-	-	-	-	-	-1	-1	-1	-	-3
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-23	-8	-1	-	-32
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	0	-	-	-	0
Kuwait	-	0	0	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-2	-	-	-	1	-	-	-	1
Qatar	-	-	0	-	-	-	0	-	-	-	0
Saudi Arabia	0	0	0	-	-	-	0	-	-	-	0
United Arab Emirates	-	0	-4	-	-	-	0	-	-	-	0
Venezuela	-6	0	0	-	-	-	-13	-1	-3	-	-17
Non-OPEC	-24	-26	-80	26	13	-	-1,046	-107	-51	4	-1,200
Argentina	1	0	0	28	-	-	-36	-3	-5	-	-44
Aruba	-	-	-	-	-	-	-4	-	-	-	-4
Australia	0	0	0	-	-	-	-1	-	0	-	-1
Bahamas	-	0	0	-	-	-	-5	0	-11	-	-16
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	1	0	0	0	-	-	-6	-1	-2	1	-9
Brazil	1	4	-29	0	-	-	-177	-13	1	-	-189
Brunei	-	-	-	-	-	-	0	-	-	-	0
Cameroon	-	-	-	0	-	-	-	-	-	-	-
Canada	-	0	-21	-2	-	-	73	-12	22	0	83
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	1	-	-	-	1
Colombia	-	0	-1	-	-	-	-21	-	0	-	-21
Denmark	-	-	-	-	-	-	0	-1	-	-	-1
Dominican Republic	-	-	0	-	-	-	-8	-2	-1	-	-11
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-1	-	-	-	-1
France	-	0	0	-	-	-	-65	-1	-1	0	-68
Germany	1	0	0	0	-	-	-2	-	-	-	-2
Guatemala	-	0	0	-	-	-	-46	-12	-3	-	-61
Honduras	-	-	0	-	-	-	-9	-4	0	-	-14
India	0	0	-10	-	-	-	9	-	0	0	10
Indonesia	-	0	0	-	-	-	-	-	-	-	-
Italy	-	0	0	0	-	-	-4	0	-	-	-4
Japan	-	-30	0	-	-	-	1	-	-	-	1
Korea, South	0	0	-3	0	-	-	2	-	-3	-	-1
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	-9	-	-8
Mexico	-23	0	-2	0	-	-	-222	-3	-1	-	-226
Netherlands	3	0	-1	0	-	-	-88	-6	-3	-	-97
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	0	0	0	-	-	0	-	-	-	0
Oman	-	-	-1	-	-	-	0	-	-	-	0
Panama	-	0	0	0	-	-	-36	-6	-3	-	-45
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-1	-	-	-	-1	0	0	-	-1
Russia	-	0	-	-	-	-	-	0	2	2	3
Spain	-	-	0	0	-	-	-12	-	-1	-	-13
Sweden	-	-	-	-	-	-	0	-	-	-	0
Trinidad and Tobago	-	0	0	0	-	-	0	-	1	-	1
United Kingdom	0	0	0	-	-	-	-40	0	-2	-	-42
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	0	-	-	-	-9	-1	-8	-	-18
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-8	0	-11	0	13	-	-339	-42	-24	1	-402
Total	-30	-26	-85	26	13	-	-1,082	-117	-56	4	-1,251
Persian Gulf²	0	0	-4	-	-	-	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-August 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	-	-	12	0	3	1	-
Algeria	-	-	-	-	-	1	1	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-11	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	-	-	-
Kuwait	-	-	-	0	-	-	-	-
Libya	0	-	-	-	-	1	-	-
Nigeria	-	-	-	0	-	-	-	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	0	-	-	0	0	0	-	-
United Arab Emirates	0	-	-	0	-	-1	-	-
Venezuela	-	-	-	12	-	12	-	-
Non-OPEC	-3	0	-	-67	14	-112	28	13
Argentina	0	-	-	-2	-	2	-	1
Aruba	0	-	-	-1	-	-3	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-1	-	-11	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	0	-	-
Brazil	0	-	-	-7	0	1	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-2	0	-	-22	5	-6	2	2
Chad	-	-	-	0	-	-	-	-
China	1	-	-	12	-	-7	-	-
Colombia	0	-	-	-3	-	8	5	-
Denmark	-	-	-	-2	-	-	-	-
Dominican Republic	0	-	-	-6	-	-1	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	0	-	-	-1	-	-	-	-
France	0	-	-	-4	0	1	0	1
Germany	0	-	-	-	0	0	0	-
Guatemala	0	-	-	-4	-	-4	-	-
Honduras	0	-	-	-2	-	-9	-	-
India	0	-	-	3	-	1	-	-
Indonesia	-	-	-	0	-	-	-	-
Italy	-	-	-	0	-	2	-	-
Japan	1	-	-	17	3	0	1	-
Korea, South	0	-	-	80	3	0	0	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	0	-	-	0	-	-	-	-
Mexico	0	-	-	-38	1	24	10	-
Netherlands	0	0	-	-10	0	-4	1	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	8
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-18	-	-16	-	-
Portugal	-	-	-	-	0	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Russia	0	-	-	0	-	14	0	-
Spain	-	-	-	0	-	0	-	-
Sweden	-1	-	-	0	-	1	-	-
Trinidad and Tobago	0	-	-	0	-	17	-	-
United Kingdom	-	-	-	-3	-	-1	2	-
Vietnam	0	-	-	0	-	0	-	-
Virgin Islands, U.S.	0	-	-	-2	-	-9	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-2	0	-	-53	2	-112	7	1
Total	-3	0	-	-55	14	-109	29	13
Persian Gulf²	0	-	-	0	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-August 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	4	-2	0	41	3,347
Algeria	-	-	0	2	-	123	210
Angola	-	-	0	-	-	6	134
Ecuador	0	-4	0	-1	0	-90	116
Equatorial Guinea	-	-	-	0	-	0	14
Gabon	-	-	0	0	-	3	7
Iran	-	-	-	0	-	0	0
Iraq	-	-	0	0	-	5	605
Kuwait	0	0	0	0	0	0	162
Libya	-	-	-	0	-	7	50
Nigeria	-	-	-	-3	-	14	304
Qatar	0	0	-	5	-	4	4
Saudi Arabia	0	-2	0	0	0	0	1,078
United Arab Emirates	0	-1	0	0	-	0	16
Venezuela	0	0	4	-3	0	-30	648
Non-OPEC	1	-583	21	-75	-1	-3,027	854
Argentina	0	2	0	-10	0	-27	-31
Aruba	-	-	0	0	-	-41	-41
Australia	0	-7	0	0	0	-27	-25
Bahamas	0	-	0	-2	0	-38	-51
Bahrain	0	-	-	3	-	3	3
Belgium	0	-5	0	-9	0	22	22
Brazil	0	-37	0	-8	0	-348	-144
Brunei	-	0	-	0	-	0	1
Cameroon	0	-	0	0	-	1	1
Canada	-1	-16	25	1	0	58	3,178
Chad	-	-	-	0	-	0	13
China	1	-57	0	-3	0	-194	-367
Colombia	0	1	0	-3	0	-75	247
Denmark	0	-2	0	-1	-	-4	-7
Dominican Republic	0	-3	-1	-1	0	-69	-75
Estonia	0	1	-	0	-	1	1
Finland	0	-1	0	0	0	5	5
France	0	-6	0	-2	0	-59	-73
Germany	0	-1	0	-2	0	-1	-1
Guatemala	0	-7	0	-1	-	-129	-118
Honduras	0	-6	0	0	-	-56	-56
India	0	-102	0	-3	0	-74	-87
Indonesia	0	0	0	2	0	-11	-4
Italy	0	-16	0	0	0	-7	-37
Japan	0	-53	0	-1	0	-255	-284
Korea, South	0	-21	0	12	0	-24	-58
Latvia	0	-	-	0	-	0	0
Lithuania	0	-	-	0	-	3	3
Malaysia	0	-3	1	0	0	-9	-32
Mexico	-1	-63	-3	-20	0	-884	-288
Netherlands	0	-6	0	-2	0	-131	-194
Netherlands Antilles	-	-	-	-	-	-	-
Norway	0	-3	0	0	0	15	53
Oman	0	-1	0	0	-	-6	-6
Panama	0	-	-1	-1	0	-113	-118
Portugal	0	-4	-	0	-	18	18
Puerto Rico	0	0	0	0	0	-4	-4
Russia	0	0	0	0	-	333	383
Spain	0	-22	4	0	0	5	-8
Sweden	0	0	-	0	0	12	12
Trinidad and Tobago	0	0	0	0	0	28	38
United Kingdom	0	-3	0	0	0	12	-36
Vietnam	0	-3	0	0	0	-4	-4
Virgin Islands, U.S.	-	-	0	0	-	-36	-36
Yemen	-	-	-	0	-	0	3
Other	2	-139	-4	-24	-1	-917	-942
Total	1	-590	24	-76	-1	-2,986	4,201
Persian Gulf²	0	-3	0	7	0	12	1,868

- = 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, August 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	17,334	139,967	910,367	22,102	48,371	1,138,141
Refinery	13,376	13,197	42,822	2,519	23,756	95,670
Tank Farms and Pipelines (Includes Cushing, OK)	3,958	126,770	188,746	19,583	21,269	360,326
Cushing, Oklahoma	–	57,602	–	–	–	57,602
Leases	–	–	–	–	–	–
Strategic Petroleum Reserve ¹	–	–	678,799	–	–	678,799
Alaskan In Transit	–	–	–	–	3,346	3,346
Total Stocks, All Oils (excluding Crude Oil)²	162,640	191,420	386,962	19,664	87,356	848,041
Refinery	16,755	51,984	124,627	9,482	50,148	252,996
Bulk Terminal	119,799	102,607	204,668	6,354	31,545	464,972
Pipeline	25,834	34,926	52,555	3,715	5,111	122,141
Natural Gas Processing Plant	252	1,903	5,112	113	552	7,932
Natural Gas Liquids	9,381	61,121	143,714	4,184	5,801	224,201
Refinery	709	5,353	8,361	354	1,668	16,445
Bulk Terminal	7,693	39,421	114,928	1,869	3,570	167,481
Pipeline	727	14,444	15,313	1,848	11	32,343
Natural Gas Processing Plant	252	1,903	5,112	113	552	7,932
Ethane	407	5,972	45,009	419	–	51,807
Refinery	–	–	185	–	–	185
Bulk Terminal	221	3,104	38,863	–	–	42,188
Pipeline	186	2,619	5,145	417	–	8,367
Natural Gas Processing Plant	–	249	816	2	–	1,067
Propane	5,797	23,449	41,429	1,410	1,989	74,074
Refinery	107	1,679	1,042	44	107	2,979
Bulk Terminal	5,051	18,112	33,740	589	1,849	59,341
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	126	900	1,499	37	22	2,584
Normal Butane	2,724	20,303	37,628	1,783	3,181	65,619
Refinery	481	3,012	5,321	199	1,037	10,050
Bulk Terminal	2,193	15,593	28,444	1,271	1,716	49,217
Pipeline	6	1,420	1,878	284	–	3,588
Natural Gas Processing Plant	44	278	1,985	29	428	2,764
Isobutane	147	2,099	6,016	240	558	9,060
Refinery	121	414	1,302	86	522	2,445
Bulk Terminal	–	909	3,221	–	–	4,130
Pipeline	11	569	972	144	–	1,696
Natural Gas Processing Plant	15	207	521	10	36	789
Natural Gasoline	306	9,298	13,632	332	73	23,641
Refinery	–	248	511	25	2	786
Bulk Terminal	228	1,703	10,660	9	5	12,605
Pipeline	11	7,078	2,170	263	–	9,522
Natural Gas Processing Plant	67	269	291	35	66	728
Refinery Olefins	160	765	5,420	50	101	6,496
Refinery	160	755	1,903	50	101	2,969
Bulk Terminal	–	10	3,517	–	–	3,527
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Ethylene	–	–	0	–	–	0
Refinery	–	–	0	–	–	0
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Propylene	121	686	4,818	9	29	5,663
Refinery	121	676	1,301	9	29	2,136
Bulk Terminal	–	10	3,517	–	–	3,527
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Butylene	11	79	601	41	72	804
Refinery	11	79	601	41	72	804
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Isobutylene	28	0	1	0	0	29
Refinery	28	0	1	0	0	29
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Other Hydrocarbons	–	23	–	–	–	23
Refinery	–	23	–	–	–	23
Oxygenates (excluding Fuel Ethanol)	–	6	2,333	–	–	2,339
Refinery	–	–	–	–	–	–
Bulk Terminal	–	6	2,333	–	–	2,339
Pipeline	–	–	–	–	–	–

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	—	—	2,055	—	—	2,055
Refinery	—	—	—	—	—	—
Bulk Terminal ³	—	—	2,055	—	—	2,055
Pipeline	—	—	—	—	—	—
Other Oxygenates⁴	—	6	278	—	—	284
Refinery	—	—	—	—	—	—
Bulk Terminal	—	6	278	—	—	284
Pipeline	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,320	8,259	5,227	362	3,904	27,071
Refinery	185	117	367	108	232	1,009
Bulk Terminal	9,135	8,142	4,860	251	3,672	26,059
Pipeline	—	—	—	3	—	3
Fuel Ethanol²	6,675	7,423	3,827	353	2,919	21,197
Refinery	180	91	156	103	32	562
Bulk Terminal	6,495	7,332	3,671	247	2,887	20,632
Pipeline	—	—	—	3	—	3
Renewable Diesel Fuel	2,645	836	1,396	9	965	5,850
Refinery	5	26	211	5	180	427
Bulk Terminal	2,640	810	1,185	4	785	5,423
Pipeline	—	—	—	—	—	—
Other Renewable Fuels	—	—	4	—	20	24
Refinery	—	—	—	—	20	20
Bulk Terminal	—	—	4	—	—	4
Pipeline	—	—	—	—	—	—
Unfinished Oils	5,188	15,411	44,679	2,754	20,832	88,864
Naphthas and Lighter	1,335	3,535	11,847	752	3,268	20,737
Refinery	1,255	3,456	10,428	752	2,990	18,881
Bulk Terminal	80	79	1,419	—	278	1,856
Kerosene and Light Gas Oils	795	2,181	7,624	539	3,949	15,088
Refinery	795	2,181	7,565	539	3,899	14,979
Bulk Terminal	—	—	59	—	50	109
Heavy Gas Oils	2,356	6,725	19,965	1,151	10,922	41,119
Refinery	2,202	6,715	17,940	1,151	10,678	38,686
Bulk Terminal	154	10	2,025	—	244	2,433
Residuum	702	2,970	5,243	312	2,693	11,920
Refinery	702	2,349	5,243	312	2,693	11,299
Bulk Terminal	—	621	—	—	—	621
Motor Gasoline Blending Components²	55,262	44,903	70,939	5,109	25,395	201,608
Refinery	5,045	12,160	27,478	2,707	13,353	60,743
Bulk Terminal	39,610	23,735	26,165	1,636	8,977	100,123
Pipeline	10,607	9,008	17,296	766	3,065	40,742
Reformulated - RBOB	17,949	5,986	10,924	—	12,216	47,075
Refinery	1,392	1,179	1,204	—	4,940	8,715
Bulk Terminal	12,214	3,841	4,874	—	5,569	26,498
Pipeline	4,343	966	4,846	—	1,707	11,862
Conventional	37,313	38,917	60,015	5,109	13,179	154,533
Refinery	3,653	10,981	26,274	2,707	8,413	52,028
Bulk Terminal	27,396	19,894	21,291	1,636	3,408	73,625
Pipeline	6,264	8,042	12,450	766	1,358	28,880
CBOB	25,353	32,505	32,555	3,908	6,481	100,802
Refinery	826	5,406	11,281	1,507	1,856	20,876
Bulk Terminal	18,263	19,397	8,874	1,635	3,272	51,441
Pipeline	6,264	7,702	12,400	766	1,353	28,485
GTAB	1,682	—	—	—	—	1,682
Refinery	—	—	—	—	—	—
Bulk Terminal	1,682	—	—	—	—	1,682
Pipeline	—	—	—	—	—	—
Other	10,278	6,412	27,460	1,201	6,698	52,049
Refinery	2,827	5,575	14,993	1,200	6,557	31,152
Bulk Terminal	7,451	497	12,417	1	136	20,502
Pipeline	—	340	50	—	5	395
Aviation Gasoline Blending Components	—	—	17	—	—	17
Refinery	—	—	17	—	—	17
Bulk Terminal	—	—	—	—	—	—
Finished Motor Gasoline	5,155	6,601	9,571	1,398	1,859	24,584
Refinery	40	1,555	3,729	534	690	6,548
Bulk Terminal	2,201	2,647	3,928	610	983	10,369
Pipeline	2,914	2,399	1,914	254	186	7,667
Reformulated	32	—	—	—	15	47
Refinery	—	—	—	—	15	15
Bulk Terminal	32	—	—	—	—	32
Pipeline	—	—	—	—	—	—
Reformulated (Blended with Fuel Ethanol)	32	—	—	—	15	47
Refinery	—	—	—	—	15	15
Bulk Terminal	32	—	—	—	—	32
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	-	-	-	-	-	-
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Conventional	5,123	6,601	9,571	1,398	1,844	24,537
Refinery	40	1,555	3,729	534	675	6,533
Bulk Terminal	2,169	2,647	3,928	610	983	10,337
Pipeline	2,914	2,399	1,914	254	186	7,667
Conventional (Blended with Fuel Ethanol)	30	165	-	51	-	246
Refinery	-	-	-	50	-	50
Bulk Terminal	30	165	-	1	-	196
Pipeline	-	-	-	-	-	-
Ed55 and Lower	30	165	-	51	-	246
Refinery	-	-	-	50	-	50
Bulk Terminal	30	165	-	1	-	196
Pipeline	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Conventional (Other)	5,093	6,436	9,571	1,347	1,844	24,291
Refinery	40	1,555	3,729	484	675	6,483
Bulk Terminal	2,139	2,482	3,928	609	983	10,141
Pipeline	2,914	2,399	1,914	254	186	7,667
Finished Aviation Gasoline	174	162	299	7	209	851
Refinery	-	75	251	7	140	473
Bulk Terminal	174	87	48	-	69	378
Pipeline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	9,047	7,104	13,756	661	9,533	40,101
Refinery	600	1,895	5,627	316	3,928	12,366
Bulk Terminal	4,448	3,358	3,394	229	4,992	16,421
Pipeline	3,999	1,851	4,735	116	613	11,314
Kerosene	1,442	124	176	1	9	1,752
Refinery	70	102	159	1	2	334
Bulk Terminal	1,369	22	3	-	7	1,401
Pipeline	3	-	14	-	-	17
Distillate Fuel Oil²	52,109	31,957	48,460	3,608	11,686	147,820
Refinery	2,724	6,910	15,512	1,679	5,234	32,059
Bulk Terminal	41,801	17,823	19,670	1,201	5,226	85,721
Pipeline	7,584	7,224	13,278	728	1,226	30,040
15 ppm sulfur and Under	42,692	31,158	41,181	3,352	10,618	129,001
Refinery	1,976	6,363	12,566	1,445	4,520	26,870
Bulk Terminal	34,605	17,731	16,661	1,181	5,079	75,257
Pipeline	6,111	7,064	11,954	726	1,019	26,874
Greater than 15 ppm to 500 ppm sulfur	5,118	360	1,768	168	260	7,674
Refinery	162	115	961	146	245	1,629
Bulk Terminal	4,252	85	399	20	15	4,771
Pipeline	704	160	408	2	-	1,274
Greater than 500 ppm sulfur	4,299	439	5,511	88	808	11,145
Refinery	586	432	1,985	88	469	3,560
Bulk Terminal	2,944	7	2,610	-	132	5,693
Pipeline	769	-	916	-	207	1,892
Residual Fuel Oil⁵	8,074	1,247	20,803	232	4,153	34,509
Refinery	540	1,014	3,958	232	1,920	7,664
Bulk Terminal	7,534	233	16,845	-	2,227	26,839
Pipeline	-	-	-	-	6	6
Less than 0.31% Sulfur	1,719	84	1,286	35	189	3,313
Refinery	138	84	157	35	-	414
Bulk Terminal	1,581	-	1,129	-	189	2,899
0.31% to 1.00% Sulfur	1,532	245	3,780	4	643	6,204
Refinery	52	132	329	4	325	842
Bulk Terminal	1,480	113	3,451	-	318	5,362
Greater than 1.00% Percent Sulfur	4,823	918	15,737	193	3,315	24,986
Refinery	350	798	3,472	193	1,595	6,408
Bulk Terminal	4,473	120	12,265	-	1,720	18,578
Petrochemical Feedstocks	123	648	2,309	-	5	3,085
Refinery	123	648	2,309	-	5	3,085
Naphtha for Petrochemical Feedstock Use	123	495	1,505	-	5	2,128
Other Oils for Petrochemical Feedstock Use	-	153	804	-	-	957
Special Naphthas	40	151	763	-	53	1,007
Refinery	17	67	757	-	53	894
Bulk Terminal	23	84	6	-	-	113
Lubricants	1,016	702	7,543	-	903	10,164
Refinery	567	272	4,833	-	645	6,317
Bulk Terminal	449	430	2,710	-	258	3,847
Waxes	485	62	258	-	-	805
Refinery	485	62	258	-	-	805
Petroleum Coke	-	1,528	5,393	60	1,342	8,323
Refinery	-	1,528	5,393	60	1,342	8,323
Asphalt and Road Oil	5,640	10,538	4,876	1,223	1,463	23,740
Refinery	512	4,639	2,118	665	471	8,405
Bulk Terminal	5,128	5,899	2,758	558	992	15,335

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

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	32	2,209	2,241	13,606	31,049	44,655	1,439
Connecticut	—	—	—	1,368	17	1,385	247
Delaware	—	—	—	561	620	1,181	57
District of Columbia	—	—	—	—	—	—	—
Florida	—	688	688	—	6,227	6,227	—
Georgia	—	266	266	—	2,169	2,169	—
Maine	—	—	—	346	346	692	100
Maryland	—	—	—	1,011	74	1,085	48
Massachusetts	5	—	5	1,167	—	1,167	14
New Hampshire	—	—	—	—	—	—	4
New Jersey	—	560	560	5,373	10,950	16,323	60
New York	27	23	50	667	1,931	2,598	466
North Carolina	—	196	196	—	1,911	1,911	251
Pennsylvania	—	17	17	1,112	4,222	5,334	113
Rhode Island	—	—	—	639	—	639	—
South Carolina	—	250	250	—	1,106	1,106	28
Vermont	—	30	30	—	—	—	3
Virginia	—	137	137	1,362	1,330	2,692	48
West Virginia	—	42	42	—	146	146	—
PAD District 2	—	4,202	4,202	5,020	30,875	35,895	124
Illinois	—	557	557	2,670	4,637	7,307	105
Indiana	—	263	263	1,024	4,842	5,866	—
Iowa	—	141	141	—	1,620	1,620	—
Kansas	—	355	355	—	3,355	3,355	13
Kentucky	—	332	332	413	1,170	1,583	6
Michigan	—	171	171	62	2,654	2,716	—
Minnesota	—	385	385	14	1,889	1,903	—
Missouri	—	225	225	278	586	864	—
Nebraska	—	81	81	—	725	725	—
North Dakota	—	26	26	—	667	667	—
Ohio	—	886	886	30	3,505	3,535	—
Oklahoma	—	466	466	—	2,104	2,104	—
South Dakota	—	51	51	—	276	276	—
Tennessee	—	114	114	—	1,510	1,510	—
Wisconsin	—	149	149	529	1,335	1,864	—
PAD District 3	—	7,657	7,657	6,078	47,565	53,643	162
Alabama	—	143	143	—	1,275	1,275	6
Arkansas	—	203	203	—	786	786	—
Louisiana	—	1,350	1,350	354	11,578	11,932	118
Mississippi	—	1,706	1,706	8	1,860	1,868	—
New Mexico	—	97	97	—	562	562	—
Texas	—	4,158	4,158	5,716	31,504	37,220	38
PAD District 4	—	1,144	1,144	—	4,343	4,343	1
Colorado	—	173	173	—	1,359	1,359	—
Idaho	—	314	314	—	107	107	—
Montana	—	273	273	—	931	931	—
Utah	—	73	73	—	1,284	1,284	1
Wyoming	—	311	311	—	662	662	—
PAD District 5	15	1,658	1,673	10,509	11,821	22,330	9
Alaska	—	688	688	—	—	—	7
Arizona	—	59	59	315	360	675	—
California	15	315	330	10,109	5,982	16,091	2
Hawaii	—	1	1	—	911	911	—
Nevada	—	159	159	23	311	334	—
Oregon	—	49	49	—	1,129	1,129	—
Washington	—	387	387	62	3,128	3,190	—
U.S. Total	47	16,870	16,917	35,213	125,653	160,866	1,735

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, August 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	36,581	4,414	3,530	44,525	8,074	5,284
Connecticut	2,173	1,859	206	4,238	64	—
Delaware	467	38	96	601	389	11
District of Columbia	—	—	—	—	—	—
Florida	2,269	90	—	2,359	1,020	21
Georgia	1,296	—	—	1,296	500	13
Maine	672	1	615	1,288	83	—
Maryland	3,717	282	—	3,999	626	4
Massachusetts	732	656	119	1,507	152	—
New Hampshire	483	—	188	671	30	495
New Jersey	12,346	210	945	13,501	3,065	70
New York	5,464	145	417	6,026	928	1,779
North Carolina	897	—	9	906	—	378
Pennsylvania	3,456	174	537	4,167	580	1,702
Rhode Island	377	744	—	1,121	—	—
South Carolina	532	—	16	548	223	727
Vermont	24	—	2	26	—	—
Virginia	1,580	192	380	2,152	414	4
West Virginia	96	23	—	119	—	80
PAD District 2	24,094	200	439	24,733	1,247	20,691
Illinois	3,547	—	—	3,547	470	883
Indiana	3,944	—	168	4,112	110	303
Iowa	2,235	1	—	2,236	2	255
Kansas	2,259	—	—	2,259	23	11,870
Kentucky	619	—	3	622	219	300
Michigan	1,638	27	—	1,665	62	5,578
Minnesota	1,846	—	9	1,855	69	317
Missouri	598	57	2	657	36	59
Nebraska	1,074	—	—	1,074	—	330
North Dakota	824	1	—	825	31	51
Ohio	2,101	—	86	2,187	84	651
Oklahoma	1,075	85	138	1,298	22	48
South Dakota	656	—	—	656	—	14
Tennessee	732	—	—	732	74	1
Wisconsin	946	29	33	1,008	45	31
PAD District 3	29,227	1,360	4,595	35,182	20,803	36,281
Alabama	867	7	32	906	480	29
Arkansas	580	—	45	625	—	26
Louisiana	5,009	961	1,403	7,373	9,124	1,395
Mississippi	1,162	214	178	1,554	153	4,008
New Mexico	284	—	—	284	71	2
Texas	21,325	178	2,937	24,440	10,975	30,821
PAD District 4	2,626	166	88	2,880	232	670
Colorado	528	—	—	528	4	12
Idaho	289	—	—	289	—	—
Montana	731	97	—	828	87	26
Utah	574	17	88	679	56	604
Wyoming	504	52	—	556	85	28
PAD District 5	9,599	260	601	10,460	4,147	1,978
Alaska	965	—	73	1,038	273	3
Arizona	428	—	—	428	—	1,191
California	5,539	245	210	5,994	2,514	432
Hawaii	253	—	316	569	459	73
Nevada	216	—	2	218	—	—
Oregon	561	—	—	561	7	—
Washington	1,637	15	—	1,652	894	279
U.S. Total	102,127	6,400	9,253	117,780	34,503	64,904

— = 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, August 2017
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	242	127	0	880	40,995	6,896	3,540	718	31,851
Petroleum Products	14,922	313	0	15,769	33,106	7,580	4,437	100,365	20,928
Natural Gas Liquids	4,644	313	0	2,184	22,245	3,875	434	1,272	7,619
Ethane	4,434	0	-	45	9,671	722	-	0	533
Propane	82	313	0	1,650	8,328	1,765	124	1,272	782
Normal Butane	99	0	0	347	2,127	739	153	0	325
Isobutane	18	0	0	142	700	272	157	0	536
Natural Gasoline	11	0	-	0	1,419	377	-	0	5,443
Refinery Olefins	0	0	-	355	284	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	355	284	-	-	0	0
Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	45	0	0	0	290	-	0	0	142
Motor Gasoline Blending Components	7,111	0	0	1,301	1,217	1,374	0	54,265	6,667
Reformulated - RBOB	0	0	0	285	0	-	0	8,486	2,812
Conventional	7,111	0	0	1,016	1,217	1,374	0	45,779	3,855
CBOB	7,111	0	0	1,016	1,065	1,374	0	45,620	3,282
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	152	-	-	159	573
Renewable Fuels	0	0	0	9,504	6,271	551	3,841	498	23
Fuel Ethanol	0	0	0	9,208	6,090	505	3,481	498	0
Renewable Diesel Fuel	0	0	0	297	181	45	360	0	23
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	84	0	0	114	307	119	0	6,103	1,037
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	84	0	0	114	307	119	0	6,103	1,037
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	84	0	0	114	307	119	0	6,103	1,037
Finished Aviation Gasoline	0	0	0	0	16	-	0	1,582	0
Kerosene-Type Jet Fuel	255	0	0	160	72	473	0	13,589	1,681
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,647	0	0	925	911	1,063	0	22,173	3,192
15 ppm sulfur and under	2,647	0	0	925	795	1,063	0	20,486	3,142
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-	-	105	50
Greater than 500 ppm sulfur	0	0	-	0	116	-	-	1,582	0
Residual Fuel Oil	0	0	-	-	967	-	-	-	0
Petrochemical Feedstocks	37	0	-	0	90	-	-	0	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	90	-	-	-	0
Other Oils for Petrochemical Feedstock Use	37	-	-	0	-	-	-	0	0
Special Naphthas	0	0	-	-	0	-	-	-	38
Lubricants	0	0	0	0	0	-	0	484	167
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	0	0	597	369	0	0	0	0
Asphalt and Road Oil	99	0	0	629	67	125	162	399	342
Miscellaneous Products	0	0	-	-	0	-	-	-	20
Total	15,164	440	0	16,649	74,101	14,476	7,976	101,083	52,779

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, August 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	157	0	19,312	1,396	353	0	0	0
Petroleum Products	0	5,353	0	8,625	8,034	2,165	0	152	25
Natural Gas Liquids	0	24	0	7,324	7,687	185	0	0	0
Ethane	0	—	0	1,722	2,641	—	0	0	0
Propane	0	0	0	2,964	2,556	28	0	0	0
Normal Butane	0	22	0	1,233	921	141	0	0	0
Isobutane	0	2	0	541	530	16	0	0	0
Natural Gasoline	0	—	0	864	1,039	—	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	0	0	—
Motor Gasoline Blending Components	0	3,824	0	324	0	1,036	0	0	0
Reformulated - RBOB	—	2,439	0	0	0	0	0	0	—
Conventional	0	1,385	0	324	0	1,036	0	0	0
CBOB	0	1,385	0	324	0	1,036	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	0	160	0	0	0	137	0	0	0
Fuel Ethanol	0	160	0	0	0	137	0	0	0
Renewable Diesel Fuel	0	0	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	261	0	245	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	261	0	245	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	261	0	245	0	0	0
Finished Aviation Gasoline	—	40	0	0	0	0	0	0	—
Kerosene-Type Jet Fuel	0	232	0	24	0	13	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	993	0	405	0	207	0	0	0
15 ppm sulfur and under	0	993	0	405	0	207	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	0	—
Residual Fuel Oil	—	—	—	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	—	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	0	0	0	0	0	0	152	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	149	202	31	0	0	25
Asphalt and Road Oil	0	80	0	138	146	311	0	0	0
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	5,510	0	27,937	9,430	2,518	0	152	25

— = 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, August 2017
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil ¹	41	74	181	40,373	6,896	156	31,699	0	-
Petroleum Products²	14,580	0	2,668	22,764	6,904	78,314	19,323	0	5,049
Natural Gas Liquids	4,507	0	1,212	20,704	3,875	1,181	7,572	0	-
Ethane	4,434	0	45	9,671	722	0	533	0	-
Propane	44	0	1,167	7,193	1,765	1,181	749	0	-
Normal Butane	5	0	0	1,823	739	0	325	0	-
Isobutane	13	0	0	598	272	0	522	0	-
Natural Gasoline	11	0	0	1,419	377	0	5,443	0	-
Motor Gasoline Blending Components	7,111	0	643	1,065	1,374	43,640	6,334	0	3,824
Reformulated - RBOB	0	0	0	0	-	8,486	2,812	-	2,439
Conventional	7,111	0	643	1,065	1,374	35,154	3,522	0	1,385
CBOB	7,111	0	643	1,065	1,374	35,154	3,282	0	1,385
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	240	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	84	0	87	136	119	2,664	781	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	84	0	87	136	119	2,664	781	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	84	0	87	136	119	2,664	781	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	255	0	160	72	473	11,847	1,681	0	232
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,623	0	566	787	1,063	18,982	2,955	0	993
15 ppm sulfur and under	2,623	0	566	787	1,063	17,295	2,905	0	993
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	105	50	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,582	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	14,621	74	2,849	63,137	13,800	78,470	51,022	0	5,049

See footnotes at end of table.

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

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil¹	0	19,312	368	-	0	0
Petroleum Products²	0	8,338	7,687	1,501	0	0
Natural Gas Liquids	0	7,324	7,687	-	0	0
Ethane	0	1,722	2,641	-	0	0
Propane	0	2,964	2,556	-	0	0
Normal Butane	0	1,233	921	-	0	0
Isobutane	0	541	530	-	0	0
Natural Gasoline	0	864	1,039	-	0	0
Motor Gasoline Blending Components	0	324	0	1,036	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	324	0	1,036	0	0
CBOB	0	324	0	1,036	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	261	0	245	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	261	0	245	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	261	0	245	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	24	0	13	0	0
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	405	0	207	0	0
15 ppm sulfur and under	0	405	0	207	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	27,650	8,055	1,501	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, August 2017
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil¹	201	53	-	427	468	-
Petroleum Products²	106	0	0	1,160	2,536	0
Natural Gas Liquids	-	0	-	0	0	-
Ethane	-	-	-	-	-	-
Propane	-	0	-	0	0	-
Normal Butane	-	-	-	-	-	-
Isobutane	-	-	-	-	-	-
Natural Gasoline	-	-	-	-	-	-
Unfinished Oils	45	0	-	0	290	-
Motor Gasoline Blending Components	0	0	-	658	152	-
Reformulated - RBOB	0	-	-	285	-	-
Conventional	0	0	-	373	152	-
CBOB	0	0	-	373	0	-
GTAB	-	-	-	-	-	-
Other	0	0	-	0	152	-
Renewable Fuels	0	0	-	0	726	-
Fuel Ethanol	0	0	-	0	726	-
Renewable Diesel Fuel	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	0	-	27	171	-
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	0	-	27	171	-
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	0	-	27	171	-
Finished Aviation Gasoline	0	0	0	0	16	0
Kerosene-Type Jet Fuel	-	0	-	0	0	-
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	24	0	-	359	124	-
15 ppm sulfur and under	24	0	-	359	8	-
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-
Greater than 500 ppm sulfur	0	0	-	-	116	-
Residual Fuel Oil	0	0	-	-	967	-
Less than 0.31 percent sulfur	0	0	-	-	32	-
0.31 to 1.00 percent sulfur	-	-	-	-	-	-
Greater than 1.00 percent sulfur	0	0	-	-	935	-
Petrochemical Feedstocks	37	0	-	0	90	-
Naphtha for Petrochemical Feedstock Use	0	0	-	-	90	-
Other Oils for Petrochemical Feedstock Use	37	-	-	0	-	-
Special Naphthas	0	0	-	-	0	-
Lubricants	0	0	0	0	0	0
Waxes	-	-	-	-	-	-
Marketable Petroleum Coke	-	-	-	-	-	-
Asphalt and Road Oil	0	0	-	116	0	-
Miscellaneous Products	0	0	-	-	0	-
Total	307	53	0	1,587	3,004	0

See footnotes at end of table.

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

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil¹	562	—	562	—	152	—	0	0	0
Petroleum Products²	21,772	13	356	21,403	1,515	40	0	0	152
Natural Gas Liquids	29	—	—	29	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	29	—	—	29	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	—	—	142	—	0	0	0
Motor Gasoline Blending Components	10,625	—	159	10,466	333	—	0	0	0
Reformulated - RBOB	0	—	—	—	0	—	0	0	—
Conventional	10,625	—	159	10,466	333	—	0	0	0
CBOB	10,466	—	—	10,466	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	159	—	159	—	333	—	0	0	0
Renewable Fuels	498	—	—	498	0	—	0	0	0
Fuel Ethanol	498	—	—	498	0	—	0	0	0
Renewable Diesel Fuel	—	—	—	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	3,439	—	—	3,439	256	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	3,439	—	—	3,439	256	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	3,439	—	—	3,439	256	—	0	0	0
Finished Aviation Gasoline	1,582	7	18	1,557	0	40	0	0	0
Kerosene-Type Jet Fuel	1,742	—	—	1,742	—	—	0	—	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,191	—	—	3,191	237	—	0	0	0
15 ppm sulfur and under	3,191	—	—	3,191	237	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	0	—	—	0	0
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur	—	—	—	—	—	—	—	—	—
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
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	—
Special Naphthas	—	—	—	—	38	—	—	0	0
Lubricants	484	6	179	299	167	0	0	0	152
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	182	—	—	182	322	—	0	0	0
Miscellaneous Products	—	—	—	—	20	—	—	0	0
Total	22,334	13	918	21,403	1,667	40	0	0	152

— = 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, August 2017
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	272	154	0	3,540
Propane	38	313	0	0	483	1,135	0	124
Propylene	0	0	-	-	355	284	-	-
Normal Butane	94	0	0	0	347	304	0	153
Isobutane	5	0	0	0	142	102	0	157
Fuel Ethanol	0	0	0	0	9,208	5,364	505	3,481
Biodiesel	0	0	0	0	297	181	45	360
Marketable Petroleum Coke	0	0	0	0	597	369	0	0
Asphalt and Road Oil	99	0	0	0	513	67	125	162

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	157	0	0	1,028	353
Propane	62	33	0	0	0	0	0	28
Propylene	0	0	-	-	0	0	0	-
Normal Butane	0	0	0	22	0	0	0	141
Isobutane	0	14	0	2	0	0	0	16
Fuel Ethanol	0	0	0	160	0	0	0	137
Biodiesel	0	23	0	0	0	0	0	0
Marketable Petroleum Coke	0	0	0	0	0	149	202	31
Asphalt and Road Oil	217	20	0	80	0	138	146	311

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	25	25
Asphalt and Road Oil	0	0	0	0

- = No Data Reported.

Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, August 2017
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	41	201	0	242
3	74	53	0	127
4	0	-	0	0
5	-	-	0	0
From 2 to				
1	181	427	272	880
3	40,373	468	154	40,995
4	6,896	-	0	6,896
5	-	-	3,540	3,540
From 3 to				
1	156	562	0	718
2	31,699	152	0	31,851
4	0	-	0	0
5	-	-	157	157
From 4 to				
1	0	0	0	0
2	19,312	0	0	19,312
3	368	0	1,028	1,396
5	-	-	353	353
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, August 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	1,598	369	1,229	51,405	52,310	-905	42,517	32,726	9,791
Petroleum Products	116,135	15,235	100,900	44,500	60,892	-16,392	41,605	126,647	-85,041
Natural Gas Liquids	3,456	4,957	-1,501	19,587	28,738	-9,151	30,245	8,915	21,330
Ethane	45	4,434	-4,389	6,689	10,438	-3,749	12,312	533	11,779
Propane	2,922	395	2,527	3,828	11,867	-8,039	11,197	2,054	9,143
Normal Butane	347	99	248	1,657	3,366	-1,709	3,048	347	2,701
Isobutane	142	18	124	1,095	1,271	-176	1,230	538	692
Natural Gasoline	0	11	-11	6,318	1,796	4,522	2,458	5,443	-2,985
Refinery Olefins	355	0	355	0	639	-639	284	0	284
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	355	0	355	0	639	-639	284	0	284
Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	45	-45	187	290	-103	290	142	148
Motor Gasoline Blending Components	55,566	7,111	48,455	14,102	3,892	10,210	1,217	64,756	-63,539
Reformulated - RBOB	8,771	0	8,771	2,812	285	2,527	0	13,737	-13,737
Conventional	46,795	7,111	39,684	11,290	3,607	7,683	1,217	51,019	-49,802
CBOB	46,636	7,111	39,525	10,717	3,455	7,262	1,065	50,287	-49,222
GTAB	0	0	-	-	-	-	-	-	-
Other	159	0	159	573	152	421	152	732	-580
Renewable Fuels	10,002	0	10,002	23	20,167	-20,144	6,271	681	5,590
Fuel Ethanol	9,706	0	9,706	0	19,284	-19,284	6,090	658	5,432
Renewable Diesel Fuel	297	0	297	23	883	-860	181	23	158
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	6,217	84	6,133	1,382	540	842	307	7,140	-6,833
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	6,217	84	6,133	1,382	540	842	307	7,140	-6,833
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	6,217	84	6,133	1,382	540	842	307	7,140	-6,833
Finished Aviation Gasoline	1,582	0	1,582	0	16	-16	16	1,622	-1,606
Kerosene-Type Jet Fuel	13,749	255	13,494	1,960	705	1,255	72	15,502	-15,430
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	23,098	2,647	20,451	6,244	2,899	3,345	911	26,358	-25,447
15 ppm sulfur and under	21,411	2,647	18,764	6,194	2,783	3,411	795	24,621	-23,826
Greater than 15 ppm to 500 ppm sulfur	105	0	105	50	0	50	0	155	-155
Greater than 500 ppm sulfur	1,582	0	1,582	0	116	-116	116	1,582	-1,466
Residual Fuel Oil	0	0	-	0	967	-967	967	0	967
Petrochemical Feedstocks	0	37	-37	37	90	-53	90	0	90
Naphtha for Petrochemical Feedstock Use	0	0	-	0	90	-90	90	0	90
Other Oils for Petrochemical Feedstock Use	0	37	-37	37	0	37	0	0	-
Special Naphthas	0	0	-	38	0	38	0	38	-38
Lubricants	484	0	484	167	0	167	152	651	-499
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	597	0	597	174	966	-792	571	0	571
Asphalt and Road Oil	1,029	99	930	579	983	-404	212	821	-609
Miscellaneous Products	0	0	-	20	0	20	0	20	-20
Total	117,732	15,604	102,129	95,905	113,202	-17,297	84,122	159,373	-75,250

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, August 2017
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,896	21,061	-14,165	4,051	0	4,051
Petroleum Products	7,605	18,824	-11,219	11,954	201	11,753
Natural Gas Liquids	3,875	15,196	-11,321	643	0	643
Ethane	722	4,363	-3,641	0	0	-
Propane	1,765	5,548	-3,783	152	0	152
Normal Butane	739	2,295	-1,556	316	0	316
Isobutane	272	1,087	-815	175	0	175
Natural Gasoline	377	1,903	-1,526	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	1,374	1,360	14	4,860	0	4,860
Reformulated - RBOB	-	-	-	2,439	0	2,439
Conventional	1,374	1,360	14	2,421	0	2,421
CBOB	1,374	1,360	14	2,421	0	2,421
GTAB	-	-	-	-	-	-
Other	0	0	-	0	0	-
Renewable Fuels	551	137	414	4,138	0	4,138
Fuel Ethanol	505	137	369	3,778	0	3,778
Renewable Diesel Fuel	45	0	45	360	0	360
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	119	506	-387	245	0	245
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	119	506	-387	245	0	245
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	119	506	-387	245	0	245
Finished Aviation Gasoline	0	0	-	40	0	40
Kerosene-Type Jet Fuel	473	37	436	245	0	245
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	1,063	612	451	1,200	0	1,200
15 ppm sulfur and under	1,063	612	451	1,200	0	1,200
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	152	-152
Waxes	0	0	-	0	0	-
Marketable Petroleum Coke	25	382	-358	31	49	-18
Asphalt and Road Oil	125	594	-469	552	0	552
Miscellaneous Products	0	0	-	0	0	-
Total	14,501	39,885	-25,384	16,005	201	15,803

- = 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.

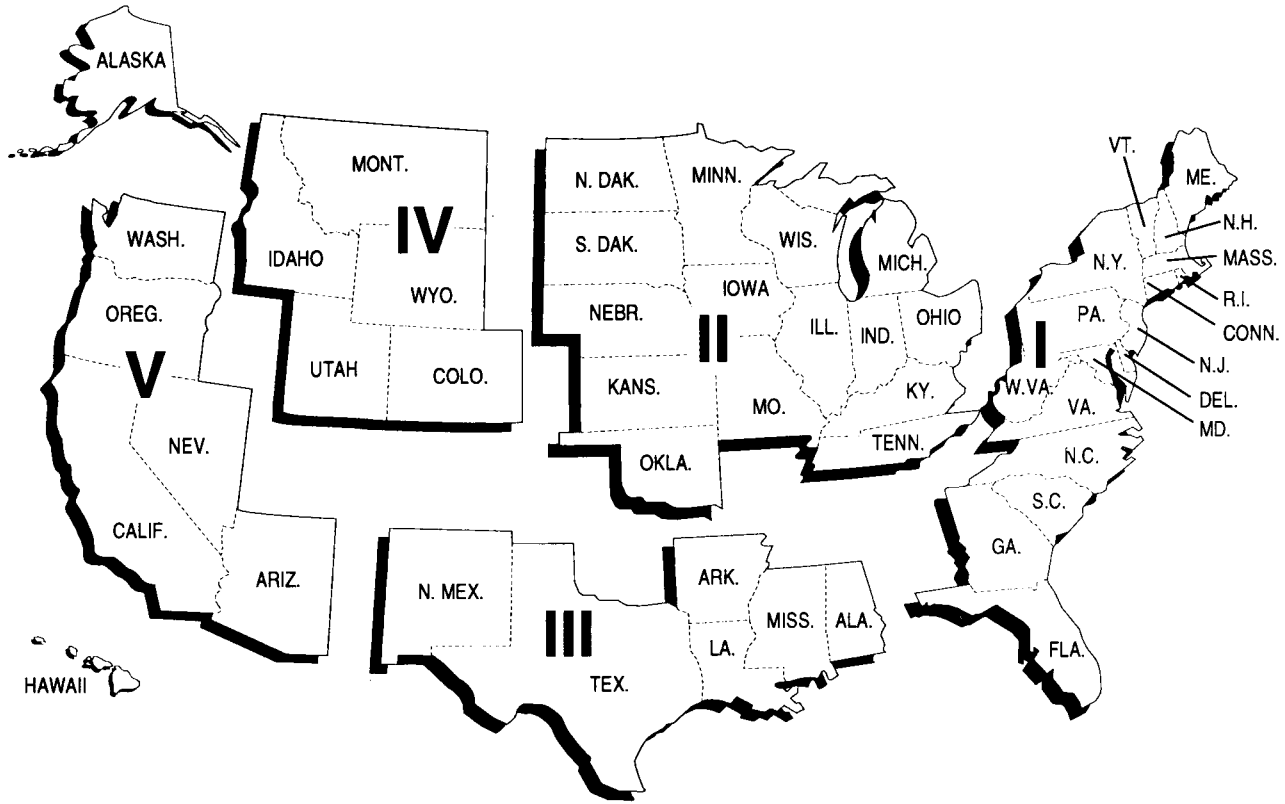
PAD District IV

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

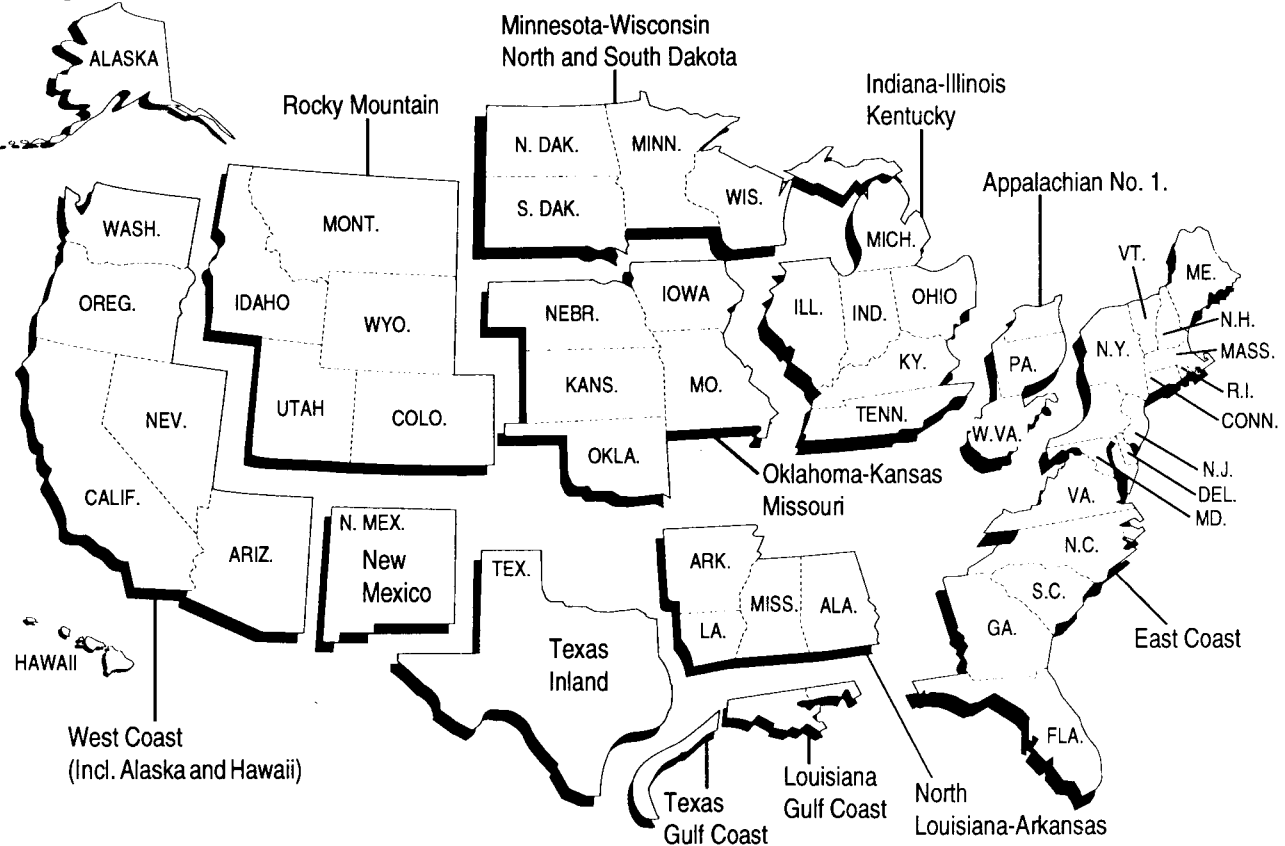
PAD District V

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.