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Administration

Petroleum Supply Monthly

with data for October 2016

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Preface

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

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

Scope of data

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

Sections

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

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, October 2016
(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	273,008	--	--	235,827	5,223	19,757	479,085	15,216	0	1,183,910
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	109,769	-665	14,755	5,024	--	-7,139	19,524	37,735	78,763	244,498
Pentanes Plus	13,899	-665	--	2	--	268	4,523	4,514	3,931	25,124
Liquefied Petroleum Gases	95,870	--	14,755	5,022	--	-7,407	15,001	33,221	74,832	219,374
Ethane/Ethylene	40,134	--	140	--	--	2,199	--	2,810	35,265	51,801
Propane/Propylene	35,960	--	17,237	4,222	--	-1,735	--	26,709	32,445	102,093
Normal Butane/Butylene	10,678	--	-2,311	569	--	-7,799	8,442	3,423	4,870	57,242
Isobutane/Isobutylene	9,098	--	-311	231	--	-72	6,559	279	2,252	8,238
Other Liquids	--	36,054	--	43,007	12,789	-1,188	75,284	16,442	1,312	311,175
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	36,058	--	2,678	2,899	-556	37,068	5,123	0	26,538
Hydrogen	--	--	--	--	6,116	--	6,116	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	1,881	--	274	-572	-442	132	1,893	0	1,056
Renewable Fuels (including Fuel Ethanol) ...	--	34,177	--	2,378	-2,650	-116	30,791	3,230	0	25,466
Fuel Ethanol ⁵	--	30,797	--	--	300	-600	28,562	3,135	0	20,005
Renewable Fuels Except Fuel Ethanol	--	3,380	--	2,378	-2,950	484	2,229	95	0	5,461
Other Hydrocarbons	--	--	--	26	5	2	29	--	0	16
Unfinished Oils	--	--	--	19,715	--	2,317	8,979	7,099	1,320	85,650
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	20,614	9,890	-2,950	29,230	4,220	0	198,974
Reformulated	--	--	--	4,410	8,513	-558	13,480	1	0	46,127
Conventional	--	-4	--	16,204	1,377	-2,392	15,750	4,219	0	152,847
Aviation Gasoline Blend. Comp.	--	--	--	--	--	1	7	--	-8	13
Finished Petroleum Products	--	109	592,598	17,556	-7,052	-8,804	--	83,814	528,200	310,672
Finished Motor Gasoline	--	109	312,006	1,363	-10,190	804	--	20,541	281,943	25,892
Reformulated	--	--	101,008	--	-9,279	-4	--	--	91,733	43
Conventional	--	109	210,998	1,363	-911	808	--	20,541	190,210	25,849
Finished Aviation Gasoline	--	--	318	2	--	9	--	--	311	869
Kerosene-Type Jet Fuel	--	--	49,059	4,809	--	-205	--	4,333	49,740	44,540
Kerosene	--	--	362	464	--	89	--	297	440	2,449
Distillate Fuel Oil ⁵	--	--	143,402	2,319	3,138	-6,494	--	30,599	124,754	153,884
15 ppm sulfur and under	--	--	132,586	1,499	3,138	-6,868	--	24,636	119,455	131,103
Greater than 15 ppm to 500 ppm sulfur	--	--	2,345	40	--	-667	--	3,013	39	9,185
Greater than 500 ppm sulfur	--	--	8,471	780	--	1,041	--	2,950	5,260	13,596
Residual Fuel Oil ⁶	--	--	14,177	4,934	--	487	--	7,944	10,680	39,287
Less than 0.31 percent sulfur	--	--	1,529	203	--	-586	--	NA	NA	3,038
0.31 to 1.00 percent sulfur	--	--	1,542	711	--	2,241	--	NA	NA	8,708
Greater than 1.00 percent sulfur	--	--	11,106	4,020	--	-1,168	--	NA	NA	27,535
Petrochemical Feedstocks	--	--	8,774	1,007	--	-59	--	--	9,840	3,154
Naphtha for Petro. Feed. Use	--	--	5,328	922	--	-38	--	--	6,288	2,005
Other Oils for Petro. Feed. Use	--	--	3,446	85	--	-21	--	--	3,552	1,149
Special Naphthas	--	--	1,127	192	--	45	--	--	1,274	1,327
Lubricants	--	--	5,106	1,145	--	-398	--	2,589	4,060	12,108
Waxes	--	--	145	150	--	28	--	105	162	595
Petroleum Coke	--	--	26,504	254	--	295	--	16,849	9,614	5,713
Marketable	--	--	19,495	254	--	295	--	16,849	2,605	5,713
Catalyst	--	--	7,009	--	--	--	--	--	7,009	--
Asphalt and Road Oil	--	--	8,947	915	--	-3,556	--	539	12,879	19,984
Still Gas	--	--	20,149	--	--	--	--	--	20,149	--
Miscellaneous Products	--	--	2,522	2	--	151	--	19	2,354	870
Total	382,777	35,498	607,353	301,414	10,960	2,626	573,893	153,208	608,275	2,050,255

-- = 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-October 2016
(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	2,710,965	--	--	2,397,847	20,792	39,526	4,931,434	158,644	0	1,183,910
Natural Gas Plant Liquids and Liquefied Refinery Gases	1,061,260	-6,530	208,172	47,469	--	47,225	153,921	356,583	752,642	244,498
Pentanes Plus	132,880	-6,530	--	3,200	--	4,581	44,829	62,215	17,925	25,124
Liquefied Petroleum Gases	928,380	--	208,172	44,269	--	42,644	109,092	294,368	734,717	219,374
Ethane/Ethylene	380,318	--	1,276	43	--	17,873	--	27,687	336,077	51,801
Propane/Propylene	354,306	--	177,168	37,662	--	5,428	--	233,261	330,447	102,093
Normal Butane/Butylene	98,204	--	31,665	3,389	--	19,733	44,738	31,505	37,282	57,242
Isobutane/Isobutylene	95,552	--	-1,937	3,175	--	-390	64,354	1,914	30,912	8,238
Other Liquids	--	354,419	--	403,522	82,799	-4,723	698,809	154,348	-7,694	311,175
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	354,459	--	20,248	34,334	-220	365,618	43,644	0	26,538
Hydrogen	--	--	--	--	66,077	--	66,077	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	22,263	--	3,268	-2,386	129	905	22,111	0	1,056
Renewable Fuels (including Fuel Ethanol)	--	332,196	--	16,743	-29,491	-323	298,239	21,533	0	25,466
Fuel Ethanol ⁵	--	301,947	--	862	-5,190	-1,433	279,379	19,673	0	20,005
Renewable Fuels Except Fuel Ethanol	--	30,249	--	15,881	-24,300	1,110	18,860	1,860	0	5,461
Other Hydrocarbons	--	--	--	237	134	-26	397	--	0	16
Unfinished Oils	--	--	--	181,048	--	3,025	117,000	68,668	-7,645	85,650
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-40	--	202,226	48,464	-7,533	216,147	42,036	0	198,974
Reformulated	--	--	--	56,931	54,281	-4,735	115,901	46	0	46,127
Conventional	--	-40	--	145,295	-5,817	-2,798	100,246	41,990	0	152,847
Aviation Gasoline Blend. Comp.	--	--	--	--	--	5	44	--	-49	13
Finished Petroleum Products	--	843	5,912,810	218,938	-17,850	-14,458	--	898,121	5,231,078	310,672
Finished Motor Gasoline	--	843	3,046,037	18,867	-43,274	-2,561	--	177,439	2,847,596	25,892
Reformulated	--	--	991,192	--	-54,991	13	--	--	936,188	43
Conventional	--	843	2,054,845	18,867	11,717	-2,574	--	177,439	1,911,408	25,849
Finished Aviation Gasoline	--	--	3,322	80	--	-9	--	--	3,411	869
Kerosene-Type Jet Fuel	--	--	499,762	45,059	--	4,284	--	52,507	488,030	44,540
Kerosene	--	--	4,205	564	--	-130	--	3,015	1,884	2,449
Distillate Fuel Oil ⁶	--	--	1,461,307	44,243	25,424	-6,857	--	363,445	1,174,386	153,884
15 ppm sulfur and under	--	--	1,365,933	29,609	25,424	-5,759	--	307,119	1,119,606	131,103
Greater than 15 ppm to 500 ppm sulfur	--	--	36,691	1,253	--	809	--	35,056	2,079	9,185
Greater than 500 ppm sulfur	--	--	58,683	13,381	--	-1,907	--	21,270	52,701	13,596
Residual Fuel Oil ⁶	--	--	127,270	68,352	--	-2,902	--	89,123	109,401	39,287
Less than 0.31 percent sulfur	--	--	14,208	2,901	--	-1,183	--	NA	NA	3,038
0.31 to 1.00 percent sulfur	--	--	14,640	8,578	--	2,830	--	NA	NA	8,708
Greater than 1.00 percent sulfur	--	--	98,422	56,873	--	-4,549	--	NA	NA	27,535
Petrochemical Feedstocks	--	--	88,466	9,366	--	-106	--	--	97,938	3,154
Naphtha for Petro. Feed. Use	--	--	58,550	7,622	--	-71	--	--	66,243	2,005
Other Oils for Petro. Feed. Use	--	--	29,916	1,744	--	-35	--	--	31,695	1,149
Special Naphthas	--	--	10,699	4,222	--	-9	--	--	14,930	1,327
Lubricants	--	--	50,629	12,070	--	-1,346	--	23,791	40,254	12,108
Waxes	--	--	1,460	1,518	--	22	--	1,036	1,920	595
Petroleum Coke	--	--	275,912	3,057	--	-340	--	180,895	98,414	5,713
Marketable	--	--	204,731	3,057	--	-340	--	180,895	27,233	5,713
Catalyst	--	--	71,181	--	--	--	--	--	71,181	--
Asphalt and Road Oil	--	--	103,767	11,529	--	-4,598	--	6,465	113,429	19,984
Still Gas	--	--	212,509	--	--	--	--	--	212,509	--
Miscellaneous Products	--	--	27,465	11	--	94	--	406	26,976	870
Total	3,772,225	348,732	6,120,982	3,067,776	85,741	67,570	5,784,164	1,567,696	5,976,026	2,050,255

-- = 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 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, October 2016
(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	8,807	--	--	7,607	168	637	15,454	491	0
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	3,541	-21	476	162	--	-230	630	1,217	2,541
Pentanes Plus	448	-21	--	0	--	9	146	146	127
Liquefied Petroleum Gases	3,093	--	476	162	--	-239	484	1,072	2,414
Ethane/Ethylene	1,295	--	5	--	--	71	--	91	1,138
Propane/Propylene	1,160	--	556	136	--	-56	--	862	1,047
Normal Butane/Butylene	344	--	-75	18	--	-252	272	110	157
Isobutane/Isobutylene	293	--	-10	7	--	-2	212	9	73
Other Liquids	--	1,163	--	1,387	413	-38	2,429	530	42
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	1,163	--	86	94	-18	1,196	165	0
Hydrogen	--	--	--	--	197	--	197	--	0
Oxygenates (excluding Fuel Ethanol)	--	61	--	9	-18	-14	4	61	0
Renewable Fuels (including Fuel Ethanol)	--	1,102	--	77	-85	-4	993	104	0
Fuel Ethanol	--	993	--	--	10	-19	921	101	0
Renewable Fuels Except Fuel Ethanol	--	109	--	77	-95	16	72	3	0
Other Hydrocarbons	--	--	--	1	0	0	1	--	0
Unfinished Oils	--	--	--	636	--	75	290	229	43
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	665	319	-95	943	136	0
Reformulated	--	--	--	142	275	-18	435	0	0
Conventional	--	0	--	523	44	-77	508	136	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	4	19,116	566	-227	-284	--	2,704	17,039
Finished Motor Gasoline	--	4	10,065	44	-329	26	--	663	9,095
Reformulated	--	--	3,258	--	-299	0	--	--	2,959
Conventional	--	4	6,806	44	-29	26	--	663	6,136
Finished Aviation Gasoline	--	--	10	0	--	0	--	--	10
Kerosene-Type Jet Fuel	--	--	1,583	155	--	-7	--	140	1,605
Kerosene	--	--	12	15	--	3	--	10	14
Distillate Fuel Oil ⁵	--	--	4,626	75	101	-209	--	987	4,024
15 ppm sulfur and under	--	--	4,277	48	101	-222	--	795	3,853
Greater than 15 ppm to 500 ppm sulfur	--	--	76	1	--	-22	--	97	1
Greater than 500 ppm sulfur	--	--	273	25	--	34	--	95	170
Residual Fuel Oil ⁶	--	--	457	159	--	16	--	256	345
Less than 0.31 percent sulfur	--	--	49	7	--	-19	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	50	23	--	72	--	NA	NA
Greater than 1.00 percent sulfur	--	--	358	130	--	-38	--	NA	NA
Petrochemical Feedstocks	--	--	283	32	--	-2	--	--	317
Naphtha for Petro. Feed. Use	--	--	172	30	--	-1	--	--	203
Other Oils for Petro. Feed. Use	--	--	111	3	--	-1	--	--	115
Special Naphthas	--	--	36	6	--	1	--	--	41
Lubricants	--	--	165	37	--	-13	--	84	131
Waxes	--	--	5	5	--	1	--	3	5
Petroleum Coke	--	--	855	8	--	10	--	544	310
Marketable	--	--	629	8	--	10	--	544	84
Catalyst	--	--	226	--	--	--	--	--	226
Asphalt and Road Oil	--	--	289	30	--	-115	--	17	415
Still Gas	--	--	650	--	--	--	--	--	650
Miscellaneous Products	--	--	81	0	--	5	--	1	76
Total	12,348	1,145	19,592	9,723	354	85	18,513	4,942	19,622

-- = 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 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-October 2016
(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	8,888	--	--	7,862	68	130	16,169	520	0
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	3,480	-21	683	156	--	155	505	1,169	2,468
Pentanes Plus	436	-21	--	10	--	15	147	204	59
Liquefied Petroleum Gases	3,044	--	683	145	--	140	358	965	2,409
Ethane/Ethylene	1,247	--	4	0	--	59	--	91	1,102
Propane/Propylene	1,162	--	581	123	--	18	--	765	1,083
Normal Butane/Butylene	322	--	104	11	--	65	147	103	122
Isobutane/Isobutylene	313	--	-6	10	--	-1	211	6	101
Other Liquids	--	1,162	--	1,323	271	-15	2,291	506	-25
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	1,162	--	66	113	-1	1,199	143	0
Hydrogen	--	--	--	--	217	--	217	--	0
Oxygenates (excluding Fuel Ethanol)	--	73	--	11	-8	0	3	72	0
Renewable Fuels (including Fuel Ethanol)	--	1,089	--	55	-97	-1	978	71	0
Fuel Ethanol	--	990	--	3	-17	-5	916	65	0
Renewable Fuels Except Fuel Ethanol	--	99	--	52	-80	4	62	6	0
Other Hydrocarbons	--	--	--	1	0	0	1	--	0
Unfinished Oils	--	--	--	594	--	10	384	225	-25
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	663	159	-25	709	138	0
Reformulated	--	--	--	187	178	-16	380	0	0
Conventional	--	0	--	476	-19	-9	329	138	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	19,386	718	-59	-47	--	2,945	17,151
Finished Motor Gasoline	--	3	9,987	62	-142	-8	--	582	9,336
Reformulated	--	--	3,250	--	-180	0	--	--	3,069
Conventional	--	3	6,737	62	38	-8	--	582	6,267
Finished Aviation Gasoline	--	--	11	0	--	0	--	--	11
Kerosene-Type Jet Fuel	--	--	1,639	148	--	14	--	172	1,600
Kerosene	--	--	14	2	--	0	--	10	6
Distillate Fuel Oil ⁵	--	--	4,791	145	83	-22	--	1,192	3,850
15 ppm sulfur and under	--	--	4,478	97	83	-19	--	1,007	3,671
Greater than 15 ppm to 500 ppm sulfur	--	--	120	4	--	3	--	115	7
Greater than 500 ppm sulfur	--	--	192	44	--	-6	--	70	173
Residual Fuel Oil ⁶	--	--	417	224	--	-10	--	292	359
Less than 0.31 percent sulfur	--	--	47	10	--	-4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	48	28	--	9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	323	186	--	-15	--	NA	NA
Petrochemical Feedstocks	--	--	290	31	--	0	--	--	321
Naphtha for Petro. Feed. Use	--	--	192	25	--	0	--	--	217
Other Oils for Petro. Feed. Use	--	--	98	6	--	0	--	--	104
Special Naphthas	--	--	35	14	--	0	--	--	49
Lubricants	--	--	166	40	--	-4	--	78	132
Waxes	--	--	5	5	--	0	--	3	6
Petroleum Coke	--	--	905	10	--	-1	--	593	323
Marketable	--	--	671	10	--	-1	--	593	89
Catalyst	--	--	233	--	--	--	--	--	233
Asphalt and Road Oil	--	--	340	38	--	-15	--	21	372
Still Gas	--	--	697	--	--	--	--	--	697
Miscellaneous Products	--	--	90	0	--	0	--	1	88
Total	12,368	1,143	20,069	10,058	281	222	18,964	5,140	19,594

-- = 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 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, October 2016
(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	1,306	--	--	32,713	5,019	3,795	3,206	33,825	5,802	0	17,928
Natural Gas Plant Liquids and Liquefied Refinery Gases	11,548	-14	690	1,009	-2,597	--	-701	1,634	2,181	7,522	9,521
Pentanes Plus	1,110	-14	--	--	-11	--	-187	244	79	949	231
Liquefied Petroleum Gases	10,438	--	690	1,009	-2,586	--	-514	1,390	2,102	6,573	9,290
Ethane/Ethylene	5,001	--	19	--	-4,335	--	142	--	481	62	530
Propane/Propylene	3,733	--	1,040	888	1,767	--	-468	--	1,599	6,297	6,745
Normal Butane/Butylene	1,146	--	-343	69	-5	--	-272	1,142	22	-25	1,762
Isobutane/Isobutylene	558	--	-26	52	-13	--	84	248	1	238	253
Other Liquids	--	930	--	19,962	54,477	10,955	1,796	83,998	2,456	-1,924	69,873
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	933	--	908	9,009	-564	-750	10,931	106	0	8,249
Hydrogen	--	--	--	--	--	111	--	111	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	933	--	907	9,009	-675	-750	10,820	105	0	8,249
Fuel Ethanol	--	745	--	--	8,904	218	-641	10,425	82	0	6,584
Renewable Fuels Except Fuel Ethanol	--	188	--	907	106	-893	-109	395	22	0	1,665
Other Hydrocarbons	--	--	--	1	--	-1	--	--	--	0	--
Unfinished Oils	--	--	--	1,474	-59	--	1,090	134	2,115	-1,924	5,723
Motor Gasoline Blend. Comp. (MGBC)	--	-3	--	17,580	45,527	11,519	1,456	72,933	234	0	55,901
Reformulated	--	--	--	3,772	7,251	6,530	-362	17,915	0	0	16,874
Conventional	--	-3	--	13,808	38,276	4,989	1,818	55,018	234	0	39,027
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	120,270	8,040	46,178	-10,960	125	--	3,690	159,713	102,029
Finished Motor Gasoline	--	--	100,570	1,196	7,278	-11,737	702	--	40	96,565	4,897
Reformulated	--	--	40,444	--	--	-5,790	-1	--	--	34,655	25
Conventional	--	--	60,126	1,196	7,278	-5,947	703	--	40	61,910	4,872
Finished Aviation Gasoline	--	--	--	1	1,308	--	-25	--	--	1,334	155
Kerosene-Type Jet Fuel	--	--	2,577	1,173	15,010	--	-758	--	12	19,506	11,032
Kerosene	--	--	76	464	--	--	41	--	3	496	1,899
Distillate Fuel Oil ⁶	--	--	11,191	2,209	21,648	777	2,086	--	1,209	32,530	67,303
15 ppm sulfur and under	--	--	10,354	1,390	19,153	777	1,271	--	1,011	29,392	53,173
Greater than 15 ppm to 500 ppm sulfur	--	--	201	40	458	--	163	--	198	338	7,350
Greater than 500 ppm sulfur	--	--	636	779	2,037	--	652	--	--	2,800	6,780
Residual Fuel Oil ⁷	--	--	1,603	2,192	--	--	-589	--	1,570	2,814	10,739
Less than 0.31 percent sulfur	--	--	216	203	--	--	-214	--	NA	NA	952
0.31 to 1.00 percent sulfur	--	--	165	366	--	--	-161	--	NA	NA	2,468
Greater than 1.00 percent sulfur	--	--	1,222	1,623	--	--	-214	--	NA	NA	7,319
Petrochemical Feedstocks	--	--	128	--	--	--	-13	--	--	141	171
Naphtha for Petro. Feed. Use	--	--	128	--	--	--	-13	--	--	141	171
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	21	--	--	--	-8	--	--	29	21
Lubricants	--	--	433	179	543	--	75	--	172	908	1,262
Waxes	--	--	6	79	--	--	10	--	65	10	302
Petroleum Coke	--	--	1,124	1	--	--	--	--	523	602	--
Marketable	--	--	488	1	--	--	--	--	523	-34	--
Catalyst	--	--	636	--	--	--	--	--	--	636	--
Asphalt and Road Oil	--	--	1,296	546	391	--	-1,396	--	79	3,550	4,215
Still Gas	--	--	1,161	--	--	--	--	--	--	1,161	--
Miscellaneous Products	--	--	84	--	--	--	0	--	16	68	33
Total	12,854	916	120,960	61,724	103,077	3,790	4,426	119,457	14,129	165,311	199,351

-- = 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. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-October 2016
(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	13,795	--	--	263,473	67,134	45,954	1,754	339,007	49,596	0	17,928
Natural Gas Plant Liquids and Liquefied Refinery Gases	106,045	-143	10,644	12,944	-19,595	--	1,251	9,780	21,344	77,520	9,521
Pentanes Plus	10,915	-143	--	--	-21	--	22	1,079	952	8,698	231
Liquefied Petroleum Gases	95,130	--	10,644	12,944	-19,574	--	1,229	8,701	20,392	68,822	9,290
Ethane/Ethylene	42,052	--	129	43	-38,053	--	412	--	6,170	-2,411	530
Propane/Propylene	36,458	--	10,655	11,629	18,659	--	22	--	12,675	64,704	6,745
Normal Butane/Butylene	11,210	--	73	388	-50	--	734	4,974	1,537	4,376	1,762
Isobutane/Isobutylene	5,410	--	-213	884	-130	--	61	3,727	9	2,154	253
Other Liquids	--	9,336	--	194,198	534,298	90,099	1,291	826,284	18,653	-18,297	69,873
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	9,366	--	6,214	92,794	-1,651	-415	105,857	1,281	0	8,249
Hydrogen	--	--	--	--	--	1,023	--	1,023	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	17	--	--	17	0	--
Renewable Fuels (including Fuel Ethanol)	--	9,366	--	6,208	92,794	-2,685	-415	104,834	1,264	0	8,249
Fuel Ethanol	--	7,652	--	12	91,459	3,161	-634	101,682	1,236	0	6,584
Renewable Fuels Except Fuel Ethanol	--	1,714	--	6,196	1,334	-5,846	219	3,152	28	0	1,665
Other Hydrocarbons	--	--	--	6	--	-6	--	--	--	0	--
Unfinished Oils	--	--	--	11,475	-264	--	246	13,700	15,562	-18,297	5,723
Motor Gasoline Blend. Comp. (MGBC)	--	-30	--	176,509	441,768	91,750	1,460	706,727	1,810	0	55,901
Reformulated	--	--	--	55,566	81,315	37,577	-2,883	177,336	5	0	16,874
Conventional	--	-30	--	120,943	360,453	54,173	4,343	529,391	1,805	0	39,027
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,178,144	107,546	445,962	-89,577	2,209	--	43,231	1,596,635	102,029
Finished Motor Gasoline	--	--	985,208	17,019	69,366	-94,911	-941	--	810	976,813	4,897
Reformulated	--	--	396,495	--	44	-28,615	9	--	--	367,915	25
Conventional	--	--	588,713	17,019	69,322	-66,296	-950	--	810	608,898	4,872
Finished Aviation Gasoline	--	--	--	9	4,901	--	14	--	--	4,896	155
Kerosene-Type Jet Fuel	--	--	26,730	18,080	134,107	--	959	--	401	177,557	11,032
Kerosene	--	--	631	563	--	--	-83	--	324	953	1,899
Distillate Fuel Oil ⁶	--	--	104,450	35,917	229,397	5,334	2,851	--	22,105	350,141	67,303
15 ppm sulfur and under	--	--	91,967	24,517	208,547	5,334	3,826	--	17,802	308,737	53,173
Greater than 15 ppm to 500 ppm sulfur	--	--	2,604	886	2,937	--	2,146	--	3,536	745	7,350
Greater than 500 ppm sulfur	--	--	9,879	10,514	17,913	--	-3,121	--	767	40,660	6,780
Residual Fuel Oil ⁷	--	--	14,259	23,720	5	--	-711	--	9,966	28,729	10,739
Less than 0.31 percent sulfur	--	--	2,273	1,689	-194	--	-650	--	NA	NA	952
0.31 to 1.00 percent sulfur	--	--	1,601	3,378	--	--	-159	--	NA	NA	2,468
Greater than 1.00 percent sulfur	--	--	10,385	18,653	199	--	98	--	NA	NA	7,319
Petrochemical Feedstocks	--	--	1,392	36	-151	--	20	--	--	1,257	171
Naphtha for Petro. Feed. Use	--	--	1,392	23	--	--	20	--	--	1,395	171
Other Oils for Petro. Feed. Use	--	--	--	13	-151	--	--	--	--	-138	--
Special Naphthas	--	--	216	--	--	--	-9	--	--	225	21
Lubricants	--	--	3,999	1,977	5,155	--	52	--	2,002	9,077	1,262
Waxes	--	--	54	735	--	--	1	--	518	270	302
Petroleum Coke	--	--	10,620	1,703	--	--	--	--	6,140	6,183	--
Marketable	--	--	3,788	1,703	--	--	--	--	6,140	-649	--
Catalyst	--	--	6,832	--	--	--	--	--	--	6,832	--
Asphalt and Road Oil	--	--	16,999	7,787	3,182	--	60	--	828	27,080	4,215
Still Gas	--	--	12,777	--	--	--	--	--	--	12,777	--
Miscellaneous Products	--	--	809	--	--	--	-4	--	137	676	33
Total	119,840	9,193	1,188,788	578,161	1,027,799	46,476	6,505	1,175,071	132,824	1,655,858	199,351

-- = 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. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, October 2016
(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	42	--	--	1,055	162	122	103	1,091	187	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	373	0	22	33	-84	--	-23	53	70	243
Pentanes Plus	36	0	--	--	0	--	-6	8	3	31
Liquefied Petroleum Gases	337	--	22	33	-83	--	-17	45	68	212
Ethane/Ethylene	161	--	1	--	-140	--	5	--	16	2
Propane/Propylene	120	--	34	29	57	--	-15	--	52	203
Normal Butane/Butylene	37	--	-11	2	0	--	-9	37	1	-1
Isobutane/Isobutylene	18	--	-1	2	0	--	3	8	0	8
Other Liquids	--	30	--	644	1,757	353	58	2,710	79	-62
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	29	291	-18	-24	353	3	0
Hydrogen	--	--	--	--	--	4	--	4	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	30	--	29	291	-22	-24	349	3	0
Fuel Ethanol	--	24	--	--	287	7	-21	336	3	0
Renewable Fuels Except Fuel Ethanol	--	6	--	29	3	-29	-4	13	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	48	-2	--	35	4	68	-62
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	567	1,469	372	47	2,353	8	0
Reformulated	--	--	--	122	234	211	-12	578	0	0
Conventional	--	0	--	445	1,235	161	59	1,775	8	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,880	259	1,490	-354	4	--	119	5,152
Finished Motor Gasoline	--	--	3,244	39	235	-379	23	--	1	3,115
Reformulated	--	--	1,305	--	--	-187	0	--	--	1,118
Conventional	--	--	1,940	39	235	-192	23	--	1	1,997
Finished Aviation Gasoline	--	--	--	0	42	--	-1	--	--	43
Kerosene-Type Jet Fuel	--	--	83	38	484	--	-24	--	0	629
Kerosene	--	--	2	15	--	--	1	--	0	16
Distillate Fuel Oil ⁶	--	--	361	71	698	25	67	--	39	1,049
15 ppm sulfur and under	--	--	334	45	618	25	41	--	33	948
Greater than 15 ppm to 500 ppm sulfur	--	--	6	1	15	--	5	--	6	11
Greater than 500 ppm sulfur	--	--	21	25	66	--	21	--	--	90
Residual Fuel Oil ⁷	--	--	52	71	--	--	-19	--	51	91
Less than 0.31 percent sulfur	--	--	7	7	--	--	-7	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	5	12	--	--	-5	--	NA	NA
Greater than 1.00 percent sulfur	--	--	39	52	--	--	-7	--	NA	NA
Petrochemical Feedstocks	--	--	4	--	--	--	0	--	--	5
Naphtha for Petro. Feed. Use	--	--	4	--	--	--	0	--	--	5
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	14	6	18	--	2	--	6	29
Waxes	--	--	0	3	--	--	0	--	2	0
Petroleum Coke	--	--	36	0	--	--	--	--	17	19
Marketable	--	--	16	0	--	--	--	--	17	-1
Catalyst	--	--	21	--	--	--	--	--	--	21
Asphalt and Road Oil	--	--	42	18	13	--	-45	--	3	115
Still Gas	--	--	37	--	--	--	--	--	--	37
Miscellaneous Products	--	--	3	--	--	--	0	--	1	2
Total	415	30	3,902	1,991	3,325	122	143	3,853	456	5,333

-- = 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. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-October 2016
(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	45	--	--	864	220	151	6	1,111	163	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	348	0	35	42	-64	--	4	32	70	254
Pentanes Plus	36	0	--	--	0	--	0	4	3	29
Liquefied Petroleum Gases	312	--	35	42	-64	--	4	29	67	226
Ethane/Ethylene	138	--	0	0	-125	--	1	--	20	-8
Propane/Propylene	120	--	35	38	61	--	0	--	42	212
Normal Butane/Butylene	37	--	0	1	0	--	2	16	5	14
Isobutane/Isobutylene	18	--	-1	3	0	--	0	12	0	7
Other Liquids	--	31	--	637	1,752	295	4	2,709	61	-60
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	31	--	20	304	-5	-1	347	4	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	20	304	-9	-1	344	4	0
Fuel Ethanol	--	25	--	0	300	10	-2	333	4	0
Renewable Fuels Except Fuel Ethanol	--	6	--	20	4	-19	1	10	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	38	-1	--	1	45	51	-60
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	579	1,448	301	5	2,317	6	0
Reformulated	--	--	--	182	267	123	-9	581	0	0
Conventional	--	0	--	397	1,182	178	14	1,736	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,863	353	1,462	-294	7	--	142	5,235
Finished Motor Gasoline	--	--	3,230	56	227	-311	-3	--	3	3,203
Reformulated	--	--	1,300	--	0	-94	0	--	--	1,206
Conventional	--	--	1,930	56	227	-217	-3	--	3	1,996
Finished Aviation Gasoline	--	--	--	0	16	--	0	--	--	16
Kerosene-Type Jet Fuel	--	--	88	59	440	--	3	--	1	582
Kerosene	--	--	2	2	--	--	0	--	1	3
Distillate Fuel Oil ⁶	--	--	342	118	752	17	9	--	72	1,148
15 ppm sulfur and under	--	--	302	80	684	17	13	--	58	1,012
Greater than 15 ppm to 500 ppm sulfur	--	--	9	3	10	--	7	--	12	2
Greater than 500 ppm sulfur	--	--	32	34	59	--	-10	--	3	133
Residual Fuel Oil ⁷	--	--	47	78	0	--	-2	--	33	94
Less than 0.31 percent sulfur	--	--	7	6	-1	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	5	11	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	34	61	1	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	5	0	0	--	0	--	--	4
Naphtha for Petro. Feed. Use	--	--	5	0	--	--	0	--	--	5
Other Oils for Petro. Feed. Use	--	--	--	0	0	--	--	--	--	0
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	6	17	--	0	--	7	30
Waxes	--	--	0	2	--	--	0	--	2	1
Petroleum Coke	--	--	35	6	--	--	--	--	20	20
Marketable	--	--	12	6	--	--	--	--	20	-2
Catalyst	--	--	22	--	--	--	--	--	--	22
Asphalt and Road Oil	--	--	56	26	10	--	0	--	3	89
Still Gas	--	--	42	--	--	--	--	--	--	42
Miscellaneous Products	--	--	3	--	--	--	0	--	0	2
Total	393	30	3,898	1,896	3,370	152	21	3,853	435	5,429

-- = 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. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, October 2016
(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	51,654	--	--	74,462	-8,308	-7,150	-2,007	110,888	1,777	0	141,510
Natural Gas Plant Liquids and Liquefied Refinery Gases	22,974	-611	1,926	2,575	-5,240	--	-4,742	4,523	6,806	15,037	61,875
Pentanes Plus	2,964	-611	--	2	3,826	--	-112	867	4,334	1,092	9,227
Liquefied Petroleum Gases	20,010	--	1,926	2,573	-9,066	--	-4,630	3,656	2,471	13,946	52,648
Ethane/Ethylene	6,712	--	--	--	-3,277	--	-543	--	2,172	1,806	5,135
Propane/Propylene	8,767	--	3,325	2,141	-4,885	--	-1,261	--	119	10,490	27,621
Normal Butane/Butylene	2,892	--	-1,323	284	-927	--	-2,658	2,032	180	1,372	17,822
Isobutane/Isobutylene	1,639	--	-76	148	23	--	-168	1,624	--	278	2,070
Other Liquids	--	30,505	--	121	-10,105	434	-638	19,694	1,539	360	63,322
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	30,506	--	118	-18,166	-1,739	618	9,363	738	0	7,777
Hydrogen	--	--	--	--	--	1,038	--	1,038	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	30,506	--	99	-18,166	-2,789	616	8,296	738	0	7,761
Fuel Ethanol	--	28,213	--	--	-17,722	-1,496	520	7,759	716	0	6,984
Renewable Fuels Except Fuel Ethanol	--	2,293	--	99	-443	-1,293	96	537	22	0	777
Other Hydrocarbons	--	--	--	19	--	12	2	29	--	0	16
Unfinished Oils	--	--	--	--	-403	--	-369	-517	123	360	12,366
Motor Gasoline Blend. Comp. (MGBC)	--	-1	--	3	8,464	2,173	-887	10,848	678	0	43,179
Reformulated	--	--	--	--	2,043	-475	349	1,219	0	0	6,583
Conventional	--	-1	--	3	6,421	2,648	-1,236	9,629	678	0	36,596
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	109	139,880	942	6,149	596	-1,818	--	1,874	147,620	59,519
Finished Motor Gasoline	--	109	81,285	--	1,053	-677	-271	--	43	81,998	6,216
Reformulated	--	--	11,262	--	--	326	--	--	--	11,588	--
Conventional	--	109	70,023	--	1,053	-1,003	-271	--	43	70,410	6,216
Finished Aviation Gasoline	--	--	50	--	15	--	2	--	--	63	167
Kerosene-Type Jet Fuel	--	--	7,672	5	516	--	5	--	350	7,838	7,456
Kerosene	--	--	119	--	--	--	-82	--	0	201	129
Distillate Fuel Oil	--	--	33,842	63	5,270	1,273	-197	--	402	40,243	32,885
15 ppm sulfur and under	--	--	34,246	63	5,214	1,273	87	--	0	40,709	31,858
Greater than 15 ppm to 500 ppm sulfur	--	--	-61	--	56	--	-150	--	297	-152	289
Greater than 500 ppm sulfur	--	--	-343	--	--	--	-134	--	104	-313	738
Residual Fuel Oil ⁶	--	--	1,532	134	-946	--	-10	--	215	515	1,295
Less than 0.31 percent sulfur	--	--	113	--	--	--	-7	--	NA	NA	28
0.31 to 1.00 percent sulfur	--	--	243	125	--	--	71	--	NA	NA	192
Greater than 1.00 percent sulfur	--	--	1,176	9	-946	--	-74	--	NA	NA	1,075
Petrochemical Feedstocks	--	--	1,076	161	-129	--	39	--	--	1,069	636
Naphtha for Petro. Feed. Use	--	--	816	86	-82	--	52	--	--	768	518
Other Oils for Petro. Feed. Use	--	--	260	75	-47	--	-13	--	--	301	118
Special Naphthas	--	--	55	37	24	--	-1	--	--	117	154
Lubricants	--	--	287	203	263	--	-46	--	214	585	655
Waxes	--	--	32	4	--	--	-1	--	23	14	46
Petroleum Coke	--	--	5,631	23	--	--	220	--	491	4,943	921
Marketable	--	--	4,263	23	--	--	220	--	491	3,575	921
Catalyst	--	--	1,368	--	--	--	--	--	--	1,368	--
Asphalt and Road Oil	--	--	3,613	312	83	--	-1,482	--	137	5,353	8,857
Still Gas	--	--	4,250	--	--	--	--	--	--	4,250	--
Miscellaneous Products	--	--	436	--	--	--	6	--	--	430	102
Total	74,628	30,003	141,806	78,100	-17,503	-6,120	-9,205	135,105	11,995	163,018	326,226

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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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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 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-October 2016
(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	516,993	--	--	712,640	-68,726	-44,232	-2,988	1,099,768	19,895	0	141,510
Natural Gas Plant Liquids and Liquefied Refinery Gases	236,922	-5,973	40,918	23,707	-48,761	--	7,188	31,199	86,006	122,420	61,875
Pentanes Plus	28,715	-5,973	--	322	43,576	--	-770	7,520	59,518	372	9,227
Liquefied Petroleum Gases	208,207	--	40,918	23,385	-92,337	--	7,958	23,679	26,488	122,048	52,648
Ethane/Ethylene	70,599	--	--	--	-30,971	--	-45	--	20,836	18,837	5,135
Propane/Propylene	91,224	--	35,193	18,871	-51,783	--	1,690	--	2,157	89,658	27,621
Normal Butane/Butylene	29,689	--	6,767	2,423	-11,280	--	6,192	7,593	3,493	10,321	17,822
Isobutane/Isobutylene	16,695	--	-1,042	2,091	1,697	--	121	16,086	2	3,232	2,070
Other Liquids	--	297,042	--	2,395	-85,752	-6,243	-3,888	204,813	8,783	-2,267	63,322
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	297,052	--	630	-184,492	-16,131	-235	91,788	5,507	0	7,777
Hydrogen	--	--	--	--	--	10,676	--	10,676	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	5	--	--	--	-2	--	--	3	0	--
Renewable Fuels (including Fuel Ethanol)	--	297,047	--	537	-184,492	-27,083	-209	80,715	5,503	0	7,761
Fuel Ethanol	--	276,441	--	--	-179,440	-16,674	-73	76,018	4,382	0	6,984
Renewable Fuels Except Fuel Ethanol	--	20,606	--	537	-5,052	-10,410	-136	4,697	1,121	0	777
Other Hydrocarbons	--	--	--	93	--	278	-26	397	--	0	16
Unfinished Oils	--	--	--	--	-4,807	--	-507	-3,534	1,501	-2,267	12,366
Motor Gasoline Blend. Comp. (MGBC)	--	-10	--	1,765	103,547	9,887	-3,146	116,559	1,776	0	43,179
Reformulated	--	--	--	--	26,350	-12,059	454	13,836	1	0	6,583
Conventional	--	-10	--	1,765	77,197	21,947	-3,600	102,723	1,776	0	36,596
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	843	1,362,249	8,317	64,786	17,176	-2,619	--	18,187	1,437,803	59,519
Finished Motor Gasoline	--	843	800,386	65	9,481	6,786	-1,109	--	3,126	815,544	6,216
Reformulated	--	--	113,130	--	--	13,161	--	--	--	126,291	--
Conventional	--	843	687,256	65	9,481	-6,375	-1,109	--	3,126	689,254	6,216
Finished Aviation Gasoline	--	--	594	2	230	--	-10	--	--	836	167
Kerosene-Type Jet Fuel	--	--	72,763	5	9,653	--	669	--	3,895	77,857	7,456
Kerosene	--	--	769	1	182	--	-86	--	254	784	129
Distillate Fuel Oil	--	--	309,665	674	50,625	10,390	991	--	2,395	367,968	32,885
15 ppm sulfur and under	--	--	309,592	389	49,673	10,390	838	--	687	368,518	31,858
Greater than 15 ppm to 500 ppm sulfur	--	--	726	--	905	--	-214	--	1,273	572	289
Greater than 500 ppm sulfur	--	--	-653	285	47	--	367	--	435	-1,123	738
Residual Fuel Oil ⁶	--	--	15,704	1,014	-7,938	--	2	--	2,570	6,208	1,295
Less than 0.31 percent sulfur	--	--	1,006	--	--	--	25	--	NA	NA	28
0.31 to 1.00 percent sulfur	--	--	2,111	589	--	--	35	--	NA	NA	192
Greater than 1.00 percent sulfur	--	--	12,587	425	-7,887	--	-58	--	NA	NA	1,075
Petrochemical Feedstocks	--	--	8,823	1,476	-825	--	-119	--	--	9,593	636
Naphtha for Petro. Feed. Use	--	--	6,859	826	-886	--	-74	--	--	6,873	518
Other Oils for Petro. Feed. Use	--	--	1,964	650	61	--	-45	--	--	2,720	118
Special Naphthas	--	--	448	492	366	--	1	--	--	1,305	154
Lubricants	--	--	2,775	2,114	2,156	--	-14	--	1,746	5,313	655
Waxes	--	--	357	54	--	--	4	--	302	105	46
Petroleum Coke	--	--	57,495	166	--	--	-275	--	2,592	55,344	921
Marketable	--	--	42,632	166	--	--	-275	--	2,592	40,481	921
Catalyst	--	--	14,863	--	--	--	--	--	--	14,863	--
Asphalt and Road Oil	--	--	44,264	2,254	723	--	-2,658	--	1,304	48,595	8,857
Still Gas	--	--	43,507	--	--	--	--	--	--	43,507	--
Miscellaneous Products	--	--	4,699	--	133	--	-15	--	3	4,844	102
Total	753,915	291,912	1,403,167	747,059	-138,453	-33,300	-2,307	1,335,780	132,871	1,557,956	326,226

-- = 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 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, October 2016
(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	1,666	--	--	2,402	-268	-231	-65	3,577	57	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	741	-20	62	83	-169	--	-153	146	220	485
Pentanes Plus	96	-20	--	0	123	--	-4	28	140	35
Liquefied Petroleum Gases	645	--	62	83	-292	--	-149	118	80	450
Ethane/Ethylene	217	--	--	--	-106	--	-18	--	70	58
Propane/Propylene	283	--	107	69	-158	--	-41	--	4	338
Normal Butane/Butylene	93	--	-43	9	-30	--	-86	66	6	44
Isobutane/Isobutylene	53	--	-2	5	1	--	-5	52	--	9
Other Liquids	--	984	--	4	-326	14	-21	635	50	12
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	984	--	4	-586	-56	20	302	24	0
Hydrogen	--	--	--	--	--	33	--	33	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	984	--	3	-586	-90	20	268	24	0
Fuel Ethanol	--	910	--	--	-572	-48	17	250	23	0
Renewable Fuels Except Fuel Ethanol	--	74	--	3	-14	-42	3	17	1	0
Other Hydrocarbons	--	--	--	1	--	0	0	1	--	0
Unfinished Oils	--	--	--	--	-13	--	-12	-17	4	12
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	0	273	70	-29	350	22	0
Reformulated	--	--	--	--	66	-15	11	39	0	0
Conventional	--	0	--	0	207	85	-40	311	22	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	4	4,512	30	198	19	-59	--	60	4,762
Finished Motor Gasoline	--	4	2,622	--	34	-22	-9	--	1	2,645
Reformulated	--	--	363	--	--	11	--	--	--	374
Conventional	--	4	2,259	--	34	-32	-9	--	1	2,271
Finished Aviation Gasoline	--	--	2	--	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	247	0	17	--	0	--	11	253
Kerosene	--	--	4	--	--	--	-3	--	0	6
Distillate Fuel Oil	--	--	1,092	2	170	41	-6	--	13	1,298
15 ppm sulfur and under	--	--	1,105	2	168	41	3	--	0	1,313
Greater than 15 ppm to 500 ppm sulfur	--	--	-2	--	2	--	-5	--	10	-5
Greater than 500 ppm sulfur	--	--	-11	--	--	--	-4	--	3	-10
Residual Fuel Oil ⁶	--	--	49	4	-31	--	0	--	7	17
Less than 0.31 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	8	4	--	--	2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	38	0	-31	--	-2	--	NA	NA
Petrochemical Feedstocks	--	--	35	5	-4	--	1	--	--	34
Naphtha for Petro. Feed. Use	--	--	26	3	-3	--	2	--	--	25
Other Oils for Petro. Feed. Use	--	--	8	2	-2	--	0	--	--	10
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	9	7	8	--	-1	--	7	19
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	182	1	--	--	7	--	16	159
Marketable	--	--	138	1	--	--	7	--	16	115
Catalyst	--	--	44	--	--	--	--	--	--	44
Asphalt and Road Oil	--	--	117	10	3	--	-48	--	4	173
Still Gas	--	--	137	--	--	--	--	--	--	137
Miscellaneous Products	--	--	14	--	--	--	0	--	--	14
Total	2,407	968	4,574	2,519	-565	-197	-297	4,358	387	5,259

-- = 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-October 2016
(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	1,695	--	--	2,337	-225	-145	-10	3,606	65	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	777	-20	134	78	-160	--	24	102	282	401
Pentanes Plus	94	-20	--	1	143	--	-3	25	195	1
Liquefied Petroleum Gases	683	--	134	77	-303	--	26	78	87	400
Ethane/Ethylene	231	--	--	--	-102	--	0	--	68	62
Propane/Propylene	299	--	115	62	-170	--	6	--	7	294
Normal Butane/Butylene	97	--	22	8	-37	--	20	25	11	34
Isobutane/Isobutylene	55	--	-3	7	6	--	0	53	0	11
Other Liquids	--	974	--	8	-281	-20	-13	672	29	-7
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	974	--	2	-605	-53	-1	301	18	0
Hydrogen	--	--	--	--	--	35	--	35	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	974	--	2	-605	-89	-1	265	18	0
Fuel Ethanol	--	906	--	--	-588	-55	0	249	14	0
Renewable Fuels Except Fuel Ethanol	--	68	--	2	-17	-34	0	15	4	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	--	-16	--	-2	-12	5	-7
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	6	339	32	-10	382	6	0
Reformulated	--	--	--	--	86	-40	1	45	0	0
Conventional	--	0	--	6	253	72	-12	337	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,466	27	212	56	-9	--	60	4,714
Finished Motor Gasoline	--	3	2,624	0	31	22	-4	--	10	2,674
Reformulated	--	--	371	0	--	43	--	--	--	414
Conventional	--	3	2,253	0	31	-21	-4	--	10	2,260
Finished Aviation Gasoline	--	--	2	0	1	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	239	0	32	--	2	--	13	255
Kerosene	--	--	3	0	1	--	0	--	1	3
Distillate Fuel Oil	--	--	1,015	2	166	34	3	--	8	1,206
15 ppm sulfur and under	--	--	1,015	1	163	34	3	--	2	1,208
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	3	--	-1	--	4	2
Greater than 500 ppm sulfur	--	--	-2	1	0	--	1	--	1	-4
Residual Fuel Oil ⁶	--	--	51	3	-26	--	0	--	8	20
Less than 0.31 percent sulfur	--	--	3	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	2	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	41	1	-26	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	29	5	-3	--	0	--	--	31
Naphtha for Petro. Feed. Use	--	--	22	3	-3	--	0	--	--	23
Other Oils for Petro. Feed. Use	--	--	6	2	0	--	0	--	--	9
Special Naphthas	--	--	1	2	1	--	0	--	--	4
Lubricants	--	--	9	7	7	--	0	--	6	17
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	189	1	--	--	-1	--	8	181
Marketable	--	--	140	1	--	--	-1	--	8	133
Catalyst	--	--	49	--	--	--	--	--	--	49
Asphalt and Road Oil	--	--	145	7	2	--	-9	--	4	159
Still Gas	--	--	143	--	--	--	--	--	--	143
Miscellaneous Products	--	--	15	--	0	--	0	--	0	16
Total	2,472	957	4,601	2,449	-454	-109	-8	4,380	436	5,108

-- = 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, October 2016
(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	168,327	--	--	90,564	9,462	5,841	15,242	251,344	7,609	0	949,539
Natural Gas Plant Liquids and Liquefied Refinery Gases	61,467	-18	10,311	77	17,485	--	-1,120	9,908	27,691	52,843	161,168
Pentanes Plus	6,982	-18	--	--	-2,462	--	587	2,373	48	1,494	15,308
Liquefied Petroleum Gases	54,485	--	10,311	77	19,947	--	-1,707	7,535	27,643	51,349	145,860
Ethane/Ethylene	25,286	--	121	--	10,424	--	2,605	--	157	33,069	45,687
Propane/Propylene	18,832	--	11,111	--	6,613	--	21	--	24,114	12,421	63,852
Normal Butane/Butylene	4,550	--	-648	77	2,189	--	-4,553	3,997	3,093	3,631	31,116
Isobutane/Isobutylene	5,817	--	-273	--	721	--	220	3,538	279	2,228	5,205
Other Liquids	--	3,339	--	16,692	-54,423	1,058	-3,356	-44,617	11,408	3,231	120,273
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	3,339	--	1,165	4,121	3,935	-294	8,936	3,917	0	6,326
Hydrogen	--	--	--	--	--	3,630	--	3,630	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	1,881	--	274	--	-575	-442	132	1,890	0	1,056
Renewable Fuels (including Fuel Ethanol)	--	1,458	--	885	4,121	886	148	5,174	2,028	0	5,270
Fuel Ethanol	--	833	--	--	4,133	1,410	-170	4,560	1,986	0	3,586
Renewable Fuels Except Fuel Ethanol	--	625	--	885	-12	-524	318	614	42	0	1,684
Other Hydrocarbons	--	--	--	6	--	-6	--	--	--	0	--
Unfinished Oils	--	--	--	13,116	462	--	1,274	4,291	4,774	3,239	45,087
Motor Gasoline Blend. Comp. (MGBC)	--	--	--	2,411	-59,006	-2,877	-4,337	-57,851	2,716	0	68,847
Reformulated	--	--	--	638	-11,839	2,612	-340	-8,250	1	0	10,889
Conventional	--	--	--	1,773	-47,167	-5,489	-3,997	-49,601	2,715	0	57,958
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	1	7	--	-8	13
Finished Petroleum Products	--	--	224,552	2,670	-54,156	2,344	-3,538	--	69,805	109,143	109,057
Finished Motor Gasoline	--	--	70,980	--	-8,183	1,467	220	--	19,141	44,903	10,320
Reformulated	--	--	14,565	--	--	-3,079	--	--	--	11,486	--
Conventional	--	--	56,415	--	-8,183	4,546	220	--	19,141	33,417	10,320
Finished Aviation Gasoline	--	--	267	--	-1,323	--	51	--	--	-1,107	311
Kerosene-Type Jet Fuel	--	--	25,998	--	-16,376	--	1,181	--	3,313	5,128	16,050
Kerosene	--	--	145	--	--	--	130	--	290	-275	376
Distillate Fuel Oil	--	--	77,592	--	-28,049	877	-5,079	--	26,516	28,983	38,258
15 ppm sulfur and under	--	--	68,040	--	-25,498	877	-5,015	--	21,633	26,801	32,032
Greater than 15 ppm to 500 ppm sulfur	--	--	2,048	--	-514	--	-646	--	2,312	-132	1,169
Greater than 500 ppm sulfur	--	--	7,504	--	-2,037	--	582	--	2,571	2,314	5,057
Residual Fuel Oil ⁷	--	--	7,624	726	946	--	487	--	5,485	3,324	22,541
Less than 0.31 percent sulfur	--	--	989	--	--	--	-377	--	NA	NA	1,800
0.31 to 1.00 percent sulfur	--	--	564	220	--	--	2,308	--	NA	NA	5,543
Greater than 1.00 percent sulfur	--	--	6,071	506	946	--	-1,444	--	NA	NA	15,198
Petrochemical Feedstocks	--	--	7,566	846	129	--	-86	--	--	8,627	2,342
Naphtha for Petro. Feed. Use	--	--	4,380	836	82	--	-78	--	--	5,376	1,311
Other Oils for Petro. Feed. Use	--	--	3,186	10	47	--	-8	--	--	3,251	1,031
Special Naphthas	--	--	1,033	155	-24	--	44	--	--	1,120	1,093
Lubricants	--	--	4,304	733	-802	--	-110	--	2,041	2,304	9,232
Waxes	--	--	107	6	--	--	19	--	11	83	247
Petroleum Coke	--	--	14,887	204	--	--	-10	--	12,732	2,369	3,201
Marketable	--	--	11,226	204	--	--	-10	--	12,732	-1,292	3,201
Catalyst	--	--	3,661	--	--	--	--	--	--	3,661	--
Asphalt and Road Oil	--	--	1,899	--	-474	--	-526	--	274	1,677	4,451
Still Gas	--	--	10,563	--	--	--	--	--	--	10,563	--
Miscellaneous Products	--	--	1,587	--	--	--	141	--	2	1,444	635
Total	229,794	3,321	234,863	110,003	-81,632	9,243	7,228	216,635	116,512	165,217	1,340,037

-- = 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 Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-October 2016
(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	1,666,787	--	--	961,557	73,741	7,616	39,657	2,586,675	83,369	0	949,539	
Natural Gas Plant Liquids and Liquefied Refinery Gases	588,961	-183	131,670	3,129	164,900	--	35,407	85,338	235,712	532,020	161,168	
Pentanes Plus	66,460	-183	--	2,878	-29,673	--	5,325	27,105	643	6,409	15,308	
Liquefied Petroleum Gases	522,501	--	131,670	251	194,573	--	30,082	58,233	235,069	525,611	145,860	
Ethane/Ethylene	240,106	--	1,147	--	94,692	--	17,489	--	681	317,775	45,687	
Propane/Propylene	181,943	--	114,392	--	69,035	--	2,852	--	210,352	152,166	63,852	
Normal Butane/Butylene	37,815	--	18,138	251	24,538	--	10,220	22,723	22,133	25,666	31,116	
Isobutane/Isobutylene	62,637	--	-2,007	--	6,308	--	-479	35,510	1,903	30,004	5,205	
Other Liquids	--	35,954	--	170,148	-549,963	7,983	743	-475,798	120,172	19,004	120,273	
Hydrogen/Oxygenates/Renewables/												
Other Hydrocarbons	--	35,954	--	8,054	42,063	39,231	24	89,825	35,453	0	6,326	
Hydrogen	--	--	--	--	--	39,818	--	39,818	--	0	--	
Oxygenates (excluding Fuel Ethanol)	--	22,258	--	3,268	--	-2,417	129	905	22,075	0	1,056	
Renewable Fuels (including Fuel Ethanol)	--	13,696	--	4,702	42,063	1,913	-105	49,102	13,378	0	5,270	
Fuel Ethanol	--	8,126	--	94	41,754	6,551	-760	44,292	12,994	0	3,586	
Renewable Fuels Except Fuel Ethanol	--	5,570	--	4,608	309	-4,638	655	4,810	384	0	1,684	
Other Hydrocarbons	--	--	--	84	--	-84	--	--	--	0	--	
Unfinished Oils	--	--	--	147,911	5,071	--	5,355	78,279	50,295	19,053	45,087	
Motor Gasoline Blend. Comp. (MGBC)	--	--	--	14,183	-597,097	-31,248	-4,641	-643,946	34,425	0	68,847	
Reformulated	--	--	--	638	-132,710	30,750	-873	-100,487	38	0	10,889	
Conventional	--	--	--	13,545	-464,387	-61,999	-3,768	-543,459	34,386	0	57,958	
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	5	44	--	-49	13	
Finished Petroleum Products	--	--	2,252,603	46,274	-529,395	31,291	-12,287	--	736,253	1,076,807	109,057	
Finished Motor Gasoline	--	--	673,453	808	-78,513	24,697	-761	--	158,572	462,634	10,320	
Reformulated	--	--	140,008	--	-44	-37,758	--	--	--	102,206	--	
Conventional	--	--	533,445	808	-78,469	62,455	-761	--	158,572	360,428	10,320	
Finished Aviation Gasoline	--	--	2,194	--	-5,155	--	-59	--	--	-2,902	311	
Kerosene-Type Jet Fuel	--	--	258,163	--	-152,027	--	1,735	--	41,268	63,133	16,050	
Kerosene	--	--	2,707	--	-182	--	50	--	2,414	61	376	
Distillate Fuel Oil	--	--	819,425	2,896	-290,218	6,594	-7,979	--	310,245	236,431	38,258	
15 ppm sulfur and under	--	--	745,060	216	-268,416	6,594	-7,717	--	269,448	221,723	32,032	
Greater than 15 ppm to 500 ppm sulfur	--	--	29,930	313	-3,842	--	-972	--	26,435	938	1,169	
Greater than 500 ppm sulfur	--	--	44,435	2,367	-17,960	--	710	--	14,362	13,770	5,057	
Residual Fuel Oil ⁷	--	--	59,987	22,244	7,334	--	-2,507	--	66,357	25,715	22,541	
Less than 0.31 percent sulfur	--	--	9,211	1,212	245	--	-525	--	NA	NA	1,800	
0.31 to 1.00 percent sulfur	--	--	4,243	4,017	--	--	3,060	--	NA	NA	5,543	
Greater than 1.00 percent sulfur	--	--	46,533	17,015	7,089	--	-5,042	--	NA	NA	15,198	
Petrochemical Feedstocks	--	--	78,213	7,518	976	--	-10	--	--	86,717	2,342	
Naphtha for Petro. Feed. Use	--	--	50,261	6,437	886	--	-20	--	--	57,604	1,311	
Other Oils for Petro. Feed. Use	--	--	27,952	1,081	90	--	10	--	--	29,113	1,031	
Special Naphthas	--	--	9,752	3,730	-366	--	2	--	--	13,114	1,093	
Lubricants	--	--	39,135	7,816	-7,206	--	-1,333	--	17,847	23,231	9,232	
Waxes	--	--	1,049	253	--	--	17	--	143	1,142	247	
Petroleum Coke	--	--	155,072	907	--	--	-361	--	135,293	21,047	3,201	
Marketable	--	--	118,109	907	--	--	-361	--	135,293	-15,916	3,201	
Catalyst	--	--	36,963	--	--	--	--	--	--	36,963	--	
Asphalt and Road Oil	--	--	24,241	102	-3,905	--	-1,177	--	3,858	17,757	4,451	
Still Gas	--	--	112,081	--	--	--	--	--	--	112,081	--	
Miscellaneous Products	--	--	17,131	--	-133	--	96	--	256	16,646	635	
Total	2,255,748	35,771	2,384,273	1,181,108	-840,717	46,889	63,520	2,196,215	1,175,506	1,627,831	1,340,037	

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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 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 information.

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, October 2016
(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 ⁶	5,430	--	--	2,921	305	188	492	8,108	245	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	1,983	-1	333	2	564	--	-36	320	893	1,705
Pentanes Plus	225	-1	--	--	-79	--	19	77	2	48
Liquefied Petroleum Gases	1,758	--	333	2	643	--	-55	243	892	1,656
Ethane/Ethylene	816	--	4	--	336	--	84	--	5	1,067
Propane/Propylene	607	--	358	--	213	--	1	--	778	401
Normal Butane/Butylene	147	--	-21	2	71	--	-147	129	100	117
Isobutane/Isobutylene	188	--	-9	--	23	--	7	114	9	72
Other Liquids	--	108	--	538	-1,756	34	-108	-1,439	368	104
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	108	--	38	133	127	-9	288	126	0
Hydrogen	--	--	--	--	--	117	--	117	--	0
Oxygenates (excluding Fuel Ethanol)	--	61	--	9	--	-19	-14	4	61	0
Renewable Fuels (including Fuel Ethanol)	--	47	--	29	133	29	5	167	65	0
Fuel Ethanol	--	27	--	--	133	45	-5	147	64	0
Renewable Fuels Except Fuel Ethanol	--	20	--	29	0	-17	10	20	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	423	15	--	41	138	154	104
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	78	-1,903	-93	-140	-1,866	88	0
Reformulated	--	--	--	21	-382	84	-11	-266	0	0
Conventional	--	--	--	57	-1,522	-177	-129	-1,600	88	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,244	86	-1,747	76	-114	--	2,252	3,521
Finished Motor Gasoline	--	--	2,290	--	-264	47	7	--	617	1,448
Reformulated	--	--	470	--	--	-99	--	--	--	371
Conventional	--	--	1,820	--	-264	147	7	--	617	1,078
Finished Aviation Gasoline	--	--	9	--	-43	--	2	--	--	-36
Kerosene-Type Jet Fuel	--	--	839	--	-528	--	38	--	107	165
Kerosene	--	--	5	--	--	--	4	--	9	-9
Distillate Fuel Oil	--	--	2,503	--	-905	28	-164	--	855	935
15 ppm sulfur and under	--	--	2,195	--	-823	28	-162	--	698	865
Greater than 15 ppm to 500 ppm sulfur	--	--	66	--	-17	--	-21	--	75	-4
Greater than 500 ppm sulfur	--	--	242	--	-66	--	19	--	83	75
Residual Fuel Oil ⁷	--	--	246	23	31	--	16	--	177	107
Less than 0.31 percent sulfur	--	--	32	--	--	--	-12	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	18	7	--	--	74	--	NA	NA
Greater than 1.00 percent sulfur	--	--	196	16	31	--	-47	--	NA	NA
Petrochemical Feedstocks	--	--	244	27	4	--	-3	--	--	278
Naphtha for Petro. Feed. Use	--	--	141	27	3	--	-3	--	--	173
Other Oils for Petro. Feed. Use	--	--	103	0	2	--	0	--	--	105
Special Naphthas	--	--	33	5	-1	--	1	--	--	36
Lubricants	--	--	139	24	-26	--	-4	--	66	74
Waxes	--	--	3	0	--	--	1	--	0	3
Petroleum Coke	--	--	480	7	--	--	0	--	411	76
Marketable	--	--	362	7	--	--	0	--	411	-42
Catalyst	--	--	118	--	--	--	--	--	--	118
Asphalt and Road Oil	--	--	61	--	-15	--	-17	--	9	54
Still Gas	--	--	341	--	--	--	--	--	--	341
Miscellaneous Products	--	--	51	--	--	--	5	--	0	47
Total	7,413	107	7,576	3,548	-2,633	298	233	6,988	3,758	5,330

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ 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.

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Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-October 2016
(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	5,465	--	--	3,153	242	25	130	8,481	273	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	1,931	-1	432	10	541	--	116	280	773	1,744
Pentanes Plus	218	-1	--	9	-97	--	17	89	2	21
Liquefied Petroleum Gases	1,713	--	432	1	638	--	99	191	771	1,723
Ethane/Ethylene	787	--	4	--	310	--	57	--	2	1,042
Propane/Propylene	597	--	375	--	226	--	9	--	690	499
Normal Butane/Butylene	124	--	59	1	80	--	34	75	73	84
Isobutane/Isobutylene	205	--	-7	--	21	--	-2	116	6	98
Other Liquids	--	118	--	558	-1,803	26	2	-1,560	394	62
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	118	--	26	138	129	0	295	116	0
Hydrogen	--	--	--	--	--	131	--	131	--	0
Oxygenates (excluding Fuel Ethanol)	--	73	--	11	--	-8	0	3	72	0
Renewable Fuels (including Fuel Ethanol)	--	45	--	15	138	6	0	161	44	0
Fuel Ethanol	--	27	--	0	137	21	-2	145	43	0
Renewable Fuels Except Fuel Ethanol	--	18	--	15	1	-15	2	16	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	485	17	--	18	257	165	62
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	47	-1,958	-102	-15	-2,111	113	0
Reformulated	--	--	--	2	-435	101	-3	-329	0	0
Conventional	--	--	--	44	-1,523	-203	-12	-1,782	113	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,386	152	-1,736	103	-40	--	2,414	3,531
Finished Motor Gasoline	--	--	2,208	3	-257	81	-2	--	520	1,517
Reformulated	--	--	459	--	0	-124	--	--	--	335
Conventional	--	--	1,749	3	-257	205	-2	--	520	1,182
Finished Aviation Gasoline	--	--	7	--	-17	--	0	--	--	-10
Kerosene-Type Jet Fuel	--	--	846	--	-498	--	6	--	135	207
Kerosene	--	--	9	--	-1	--	0	--	8	0
Distillate Fuel Oil	--	--	2,687	9	-952	22	-26	--	1,017	775
15 ppm sulfur and under	--	--	2,443	1	-880	22	-25	--	883	727
Greater than 15 ppm to 500 ppm sulfur	--	--	98	1	-13	--	-3	--	87	3
Greater than 500 ppm sulfur	--	--	146	8	-59	--	2	--	47	45
Residual Fuel Oil ⁷	--	--	197	73	24	--	-8	--	218	84
Less than 0.31 percent sulfur	--	--	30	4	1	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	14	13	--	--	10	--	NA	NA
Greater than 1.00 percent sulfur	--	--	153	56	23	--	-17	--	NA	NA
Petrochemical Feedstocks	--	--	256	25	3	--	0	--	--	284
Naphtha for Petro. Feed. Use	--	--	165	21	3	--	0	--	--	189
Other Oils for Petro. Feed. Use	--	--	92	4	0	--	0	--	--	95
Special Naphthas	--	--	32	12	-1	--	0	--	--	43
Lubricants	--	--	128	26	-24	--	-4	--	59	76
Waxes	--	--	3	1	--	--	0	--	0	4
Petroleum Coke	--	--	508	3	--	--	-1	--	444	69
Marketable	--	--	387	3	--	--	-1	--	444	-52
Catalyst	--	--	121	--	--	--	--	--	--	121
Asphalt and Road Oil	--	--	79	0	-13	--	-4	--	13	58
Still Gas	--	--	367	--	--	--	--	--	--	367
Miscellaneous Products	--	--	56	--	0	--	0	--	1	55
Total	7,396	117	7,817	3,872	-2,756	154	208	7,201	3,854	5,337

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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 information.

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, October 2016
(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	20,271	--	--	11,373	-10,271	-522	2,461	18,362	28	0	24,154
Natural Gas Plant Liquids and Liquefied Refinery Gases	11,773	-9	337	321	-9,648	--	-67	675	36	2,130	4,352
Pentanes Plus	1,875	-9	--	--	-1,353	--	-16	224	32	273	301
Liquefied Petroleum Gases	9,898	--	337	321	-8,295	--	-51	451	3	1,858	4,051
Ethane/Ethylene	3,134	--	--	--	-2,812	--	-5	--	--	327	449
Propane/Propylene	4,303	--	296	309	-3,495	--	49	--	--	1,364	1,547
Normal Butane/Butylene	1,708	--	34	2	-1,257	--	-97	299	3	282	1,807
Isobutane/Isobutylene	753	--	7	10	-731	--	2	152	--	-115	248
Other Liquids	--	428	--	19	482	-421	316	130	29	33	8,542
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	428	--	13	440	356	3	1,222	12	0	381
Hydrogen	--	--	--	--	--	227	--	227	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol) ...	--	428	--	13	440	129	3	995	12	0	381
Fuel Ethanol	--	428	--	--	383	135	0	934	12	0	369
Renewable Fuels Except Fuel Ethanol	--	--	--	13	57	-6	3	61	--	0	12
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	17	-67	17	33	2,935
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	6	42	-777	296	-1,025	--	0	5,226
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	42	-777	296	-1,025	--	0	5,226
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	19,812	50	58	648	-388	--	46	20,910	7,759
Finished Motor Gasoline	--	--	9,577	--	-446	642	62	--	--	9,711	2,069
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	9,577	--	-446	642	62	--	--	9,711	2,069
Finished Aviation Gasoline	--	--	3	1	--	--	0	--	--	4	8
Kerosene-Type Jet Fuel	--	--	721	3	656	--	-326	--	--	1,706	651
Kerosene	--	--	--	--	--	--	-1	--	--	1	1
Distillate Fuel Oil	--	--	6,250	--	-152	6	56	--	--	6,048	3,676
15 ppm sulfur and under	--	--	6,265	--	-152	6	85	--	--	6,034	3,473
Greater than 15 ppm to 500 ppm sulfur	--	--	15	--	--	--	1	--	--	14	159
Greater than 500 ppm sulfur	--	--	-30	--	--	--	-30	--	--	0	44
Residual Fuel Oil ⁶	--	--	371	--	--	--	27	--	19	325	199
Less than 0.31 percent sulfur	--	--	211	--	--	--	11	--	NA	NA	17
0.31 to 1.00 percent sulfur	--	--	22	--	--	--	3	--	NA	NA	7
Greater than 1.00 percent sulfur	--	--	138	--	--	--	13	--	NA	NA	175
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	12	-12	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	772	--	--	--	-19	--	0	791	109
Marketable	--	--	538	--	--	--	-19	--	0	557	109
Catalyst	--	--	234	--	--	--	--	--	--	234	--
Asphalt and Road Oil	--	--	1,308	44	--	--	-189	--	15	1,526	1,024
Still Gas	--	--	709	--	--	--	--	--	--	709	--
Miscellaneous Products	--	--	101	2	--	--	2	--	0	101	22
Total	32,044	419	20,149	11,763	-19,379	-295	2,322	19,167	138	23,074	44,807

-- = 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 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-October 2016
(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	202,652	--	--	97,473	-111,315	-436	4,468	181,432	2,475	0	24,154
Natural Gas Plant Liquids and Liquefied Refinery Gases	110,295	-97	4,424	3,068	-96,544	--	730	5,708	1,402	13,306	4,352
Pentanes Plus	17,937	-97	--	--	-13,882	--	-9	1,768	961	1,238	301
Liquefied Petroleum Gases	92,358	--	4,424	3,068	-82,662	--	739	3,940	441	12,068	4,051
Ethane/Ethylene	27,543	--	--	--	-25,668	--	17	--	--	1,858	449
Propane/Propylene	41,244	--	2,796	2,883	-35,911	--	28	--	22	10,962	1,547
Normal Butane/Butylene	16,207	--	1,459	6	-13,208	--	781	1,868	419	1,396	1,807
Isobutane/Isobutylene	7,364	--	169	179	-7,875	--	-87	2,072	--	-2,148	248
Other Liquids	--	4,176	--	806	5,164	-6,444	-747	2,781	468	1,200	8,542
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	4,176	--	186	4,044	3,504	30	11,785	95	0	381
Hydrogen	--	--	--	--	--	2,054	--	2,054	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	4,176	--	132	4,044	1,504	30	9,731	95	0	381
Fuel Ethanol	--	4,176	--	--	3,601	1,457	31	9,189	14	0	369
Renewable Fuels Except Fuel Ethanol	--	--	--	132	443	48	-1	542	81	0	12
Other Hydrocarbons	--	--	--	54	--	-54	--	--	--	0	--
Unfinished Oils	--	--	--	--	--	--	-579	-986	365	1,200	2,935
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	620	1,120	-9,948	-198	-8,018	8	0	5,226
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	1,120	-9,948	-198	-8,018	8	0	5,226
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	194,603	478	320	8,444	-1,332	--	670	204,507	7,759
Finished Motor Gasoline	--	--	95,908	--	-4,118	8,492	-223	--	10	100,495	2,069
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	95,908	--	-4,118	8,492	-223	--	10	100,495	2,069
Finished Aviation Gasoline	--	--	46	8	--	--	2	--	--	52	8
Kerosene-Type Jet Fuel	--	--	10,614	14	5,952	--	56	--	0	16,524	651
Kerosene	--	--	1	--	--	--	-1	--	--	2	1
Distillate Fuel Oil	--	--	58,948	41	-1,514	-48	-640	--	35	58,032	3,676
15 ppm sulfur and under	--	--	58,702	41	-1,514	-48	-570	--	0	57,751	3,473
Greater than 15 ppm to 500 ppm sulfur	--	--	287	--	--	--	-28	--	35	280	159
Greater than 500 ppm sulfur	--	--	-41	--	--	--	-42	--	--	1	44
Residual Fuel Oil ⁶	--	--	3,019	--	--	--	-39	--	449	2,609	199
Less than 0.31 percent sulfur	--	--	1,638	--	--	--	10	--	NA	NA	17
0.31 to 1.00 percent sulfur	--	--	221	--	--	--	0	--	NA	NA	7
Greater than 1.00 percent sulfur	--	--	1,160	--	--	--	-49	--	NA	NA	175
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	105	-105	--
Waxes	--	--	--	--	--	--	--	--	2	-2	--
Petroleum Coke	--	--	7,557	--	--	--	16	--	2	7,539	109
Marketable	--	--	5,202	--	--	--	16	--	2	5,184	109
Catalyst	--	--	2,355	--	--	--	--	--	--	2,355	--
Asphalt and Road Oil	--	--	10,555	404	--	--	-507	--	67	11,399	1,024
Still Gas	--	--	6,998	--	--	--	--	--	--	6,998	--
Miscellaneous Products	--	--	957	11	--	--	4	--	0	964	22
Total	312,947	4,079	199,027	101,825	-202,375	1,564	3,119	189,921	5,015	219,013	44,807

-- = 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 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, October 2016
(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	654	--	--	367	-331	-17	79	592	1	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	380	0	11	10	-311	--	-2	22	1	69
Pentanes Plus	60	0	--	--	-44	--	-1	7	1	9
Liquefied Petroleum Gases	319	--	11	10	-268	--	-2	15	0	60
Ethane/Ethylene	101	--	--	--	-91	--	0	--	--	11
Propane/Propylene	139	--	10	10	-113	--	2	--	--	44
Normal Butane/Butylene	55	--	1	0	-41	--	-3	10	0	9
Isobutane/Isobutylene	24	--	0	0	-24	--	0	5	--	-4
Other Liquids	--	14	--	1	16	-14	10	4	1	1
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	14	--	0	14	11	0	39	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	14	4	0	32	0	0
Fuel Ethanol	--	14	--	--	12	4	0	30	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	2	0	0	2	--	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	1	-2	1	1
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	0	1	-25	10	-33	--	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	1	-25	10	-33	--	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	639	2	2	21	-13	--	1	675
Finished Motor Gasoline	--	--	309	--	-14	21	2	--	--	313
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	309	--	-14	21	2	--	--	313
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	23	0	21	--	-11	--	--	55
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	202	--	-5	0	2	--	--	195
15 ppm sulfur and under	--	--	202	--	-5	0	3	--	--	195
Greater than 15 ppm to 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Greater than 500 ppm sulfur	--	--	-1	--	--	--	-1	--	--	0
Residual Fuel Oil ⁶	--	--	12	--	--	--	1	--	1	10
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	--	--	25	--	--	--	-1	--	0	26
Marketable	--	--	17	--	--	--	-1	--	0	18
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	42	1	--	--	-6	--	0	49
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3
Total	1,034	14	650	379	-625	-10	75	618	4	744

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and PAD 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-October 2016
(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	664	--	--	320	-365	-1	15	595	8	0	
Natural Gas Plant Liquids and Liquefied											
Refinery Gases	362	0	15	10	-317	--	2	19	5	44	
Pentanes Plus	59	0	--	--	-46	--	0	6	3	4	
Liquefied Petroleum Gases	303	--	15	10	-271	--	2	13	1	40	
Ethane/Ethylene	90	--	--	--	-84	--	0	--	--	6	
Propane/Propylene	135	--	9	9	-118	--	0	--	0	36	
Normal Butane/Butylene	53	--	5	0	-43	--	3	6	1	5	
Isobutane/Isobutylene	24	--	1	1	-26	--	0	7	--	-7	
Other Liquids	--	14	--	3	17	-21	-2	9	2	4	
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	1	13	11	0	39	0	0	
Hydrogen	--	--	--	--	--	7	--	7	--	0	
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	13	5	0	32	0	0	
Fuel Ethanol	--	14	--	--	12	5	0	30	0	0	
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	0	0	2	0	0	
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0	
Unfinished Oils	--	--	--	--	--	--	-2	-3	1	4	
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	4	-33	-1	-26	0	0	
Reformulated	--	--	--	--	--	--	--	--	--	--	
Conventional	--	--	--	--	4	-33	-1	-26	0	0	
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	
Finished Petroleum Products	--	--	638	2	1	28	-4	--	2	671	
Finished Motor Gasoline	--	--	314	--	-14	28	-1	--	0	329	
Reformulated	--	--	--	--	--	--	--	--	--	--	
Conventional	--	--	314	--	-14	28	-1	--	0	329	
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0	
Kerosene-Type Jet Fuel	--	--	35	0	20	--	0	--	0	54	
Kerosene	--	--	0	--	--	--	0	--	--	0	
Distillate Fuel Oil	--	--	193	0	-5	0	-2	--	0	190	
15 ppm sulfur and under	--	--	192	0	-5	0	-2	--	0	189	
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	0	1	
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0	
Residual Fuel Oil ⁶	--	--	10	--	--	--	0	--	1	9	
Less than 0.31 percent sulfur	--	--	5	--	--	--	0	--	NA	NA	
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA	
Greater than 1.00 percent sulfur	--	--	4	--	--	--	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	--	--	25	--	--	--	0	--	0	25	
Marketable	--	--	17	--	--	--	0	--	0	17	
Catalyst	--	--	8	--	--	--	--	--	--	8	
Asphalt and Road Oil	--	--	35	1	--	--	-2	--	0	37	
Still Gas	--	--	23	--	--	--	--	--	--	23	
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3	
Total	1,026	13	653	334	-664	5	10	623	16	718	

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- = 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, October 2016
(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	31,449	--	--	26,715	4,098	3,259	855	64,666	--	0	50,779
Natural Gas Plant Liquids and Liquefied Refinery Gases	2,007	-13	1,491	1,042	--	--	-509	2,784	1,022	1,230	7,582
Pentanes Plus	968	-13	--	--	--	--	-4	815	20	124	57
Liquefied Petroleum Gases	1,039	--	1,491	1,042	--	--	-505	1,969	1,001	1,107	7,525
Ethane/Ethylene	1	--	--	--	--	--	--	--	--	1	--
Propane/Propylene	325	--	1,465	884	--	--	-76	--	877	1,873	2,328
Normal Butane/Butylene	382	--	-31	137	--	--	-219	972	124	-389	4,735
Isobutane/Isobutylene	331	--	57	21	--	--	-210	997	0	-378	462
Other Liquids	--	852	--	6,213	9,569	763	694	16,079	1,011	-388	49,165
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	852	--	474	4,596	911	-133	6,616	349	0	3,805
Hydrogen	--	--	--	--	--	1,110	--	1,110	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	852	--	474	4,596	-201	-133	5,506	347	0	3,805
Fuel Ethanol	--	578	--	--	4,303	33	-309	4,884	339	0	2,482
Renewable Fuels Except Fuel Ethanol	--	274	--	474	292	-234	176	622	9	0	1,323
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	5,125	--	--	305	5,138	70	-388	19,539
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	614	4,973	-148	522	4,325	592	0	25,821
Reformulated	--	--	--	--	2,545	-154	-205	2,596	0	0	11,781
Conventional	--	--	--	614	2,428	6	727	1,729	592	0	14,040
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	88,084	5,854	1,771	319	-3,185	--	8,400	90,813	32,308
Finished Motor Gasoline	--	--	49,594	167	298	115	91	--	1,317	48,766	2,390
Reformulated	--	--	34,737	--	--	-736	-3	--	--	34,004	18
Conventional	--	--	14,857	167	298	851	94	--	1,317	14,762	2,372
Finished Aviation Gasoline	--	--	-2	--	--	--	-19	--	--	17	228
Kerosene-Type Jet Fuel	--	--	12,091	3,628	194	--	-307	--	659	15,561	9,351
Kerosene	--	--	22	--	--	--	1	--	3	18	44
Distillate Fuel Oil	--	--	14,527	47	1,283	205	-3,360	--	2,472	16,950	11,762
15 ppm sulfur and under	--	--	13,681	46	1,283	205	-3,296	--	1,991	16,519	10,567
Greater than 15 ppm to 500 ppm sulfur	--	--	142	--	--	--	-35	--	206	-29	218
Greater than 500 ppm sulfur	--	--	704	1	--	--	-29	--	274	460	977
Residual Fuel Oil ⁶	--	--	3,047	1,882	--	--	572	--	655	3,702	4,513
Less than 0.31 percent sulfur	--	--	--	--	--	--	1	--	NA	NA	241
0.31 to 1.00 percent sulfur	--	--	548	--	--	--	20	--	NA	NA	498
Greater than 1.00 percent sulfur	--	--	2,499	1,882	--	--	551	--	NA	NA	3,768
Petrochemical Feedstocks	--	--	4	--	--	--	1	--	--	3	5
Naphtha for Petro. Feed. Use	--	--	4	--	--	--	1	--	--	3	5
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	18	--	--	--	10	--	--	8	59
Lubricants	--	--	82	30	-4	--	-317	--	151	274	959
Waxes	--	--	--	61	--	--	--	--	7	54	--
Petroleum Coke	--	--	4,090	26	--	--	104	--	3,103	909	1,482
Marketable	--	--	2,980	26	--	--	104	--	3,103	-201	1,482
Catalyst	--	--	1,110	--	--	--	--	--	--	1,110	--
Asphalt and Road Oil	--	--	831	13	--	--	37	--	34	773	1,437
Still Gas	--	--	3,466	--	--	--	--	--	--	3,466	--
Miscellaneous Products	--	--	314	--	--	--	2	--	1	311	78
Total	33,456	839	89,575	39,824	15,437	4,341	-2,145	83,529	10,433	91,656	139,834

-- = 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 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-October 2016
(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	310,738	--	--	362,704	39,166	11,890	-3,365	724,552	3,311	0	50,779
Natural Gas Plant Liquids and Liquefied Refinery Gases	19,037	-134	20,516	4,621	--	--	2,649	21,896	12,118	7,377	7,582
Pentanes Plus	8,853	-134	--	--	--	--	13	7,357	140	1,209	57
Liquefied Petroleum Gases	10,184	--	20,516	4,621	--	--	2,636	14,539	11,978	6,168	7,525
Ethane/Ethylene	18	--	--	--	--	--	--	--	--	18	--
Propane/Propylene	3,437	--	14,132	4,279	--	--	836	--	8,055	12,957	2,328
Normal Butane/Butylene	3,283	--	5,228	321	--	--	1,806	7,580	3,923	-4,477	4,735
Isobutane/Isobutylene	3,446	--	1,156	21	--	--	-6	6,959	0	-2,330	462
Other Liquids	--	7,911	--	35,975	96,253	-2,595	-2,121	140,729	6,272	-7,335	49,165
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	7,911	--	5,164	45,591	9,381	377	66,363	1,308	0	3,805
Hydrogen	--	--	--	--	--	12,506	--	12,506	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	15	--	--	15	0	--
Renewable Fuels (including Fuel Ethanol)	--	7,911	--	5,164	45,591	-3,140	377	53,857	1,293	0	3,805
Fuel Ethanol	--	5,552	--	756	42,626	314	3	48,198	1,047	0	2,482
Renewable Fuels Except Fuel Ethanol	--	2,359	--	4,408	2,966	-3,455	374	5,659	246	0	1,323
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	21,662	--	--	-1,490	29,541	946	-7,335	19,539
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	9,149	50,662	-11,976	-1,008	44,825	4,018	0	25,821
Reformulated	--	--	--	727	25,045	-1,987	-1,433	25,216	2	0	11,781
Conventional	--	--	--	8,422	25,617	-9,990	425	19,609	4,015	0	14,040
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	925,211	56,323	18,327	14,817	-429	--	99,780	915,326	32,308
Finished Motor Gasoline	--	--	491,082	975	3,784	11,662	473	--	14,921	492,109	2,390
Reformulated	--	--	341,559	--	--	-1,779	4	--	--	339,776	18
Conventional	--	--	149,523	975	3,784	13,441	469	--	14,921	152,333	2,372
Finished Aviation Gasoline	--	--	488	61	24	--	44	--	--	529	228
Kerosene-Type Jet Fuel	--	--	131,492	26,960	2,315	--	865	--	6,943	152,959	9,351
Kerosene	--	--	97	--	--	--	-10	--	22	85	44
Distillate Fuel Oil	--	--	168,819	4,715	11,710	3,155	-2,080	--	28,666	161,813	11,762
15 ppm sulfur and under	--	--	160,612	4,446	11,710	3,155	-2,136	--	19,182	162,877	10,567
Greater than 15 ppm to 500 ppm sulfur	--	--	3,144	54	--	--	-123	--	3,778	-457	218
Greater than 500 ppm sulfur	--	--	5,063	215	--	--	179	--	5,706	-607	977
Residual Fuel Oil ⁶	--	--	34,301	21,374	599	--	353	--	9,782	46,139	4,513
Less than 0.31 percent sulfur	--	--	80	--	--	--	-43	--	NA	NA	241
0.31 to 1.00 percent sulfur	--	--	6,464	594	--	--	-106	--	NA	NA	498
Greater than 1.00 percent sulfur	--	--	27,757	20,780	--	--	502	--	NA	NA	3,768
Petrochemical Feedstocks	--	--	38	336	--	--	3	--	--	371	5
Naphtha for Petro. Feed. Use	--	--	38	336	--	--	3	--	--	371	5
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	283	--	--	--	-3	--	--	286	59
Lubricants	--	--	4,720	163	-105	--	-51	--	2,090	2,739	959
Waxes	--	--	--	476	--	--	--	--	71	405	--
Petroleum Coke	--	--	45,168	281	--	--	280	--	36,868	8,301	1,482
Marketable	--	--	35,000	281	--	--	280	--	36,868	-1,867	1,482
Catalyst	--	--	10,168	--	--	--	--	--	--	10,168	--
Asphalt and Road Oil	--	--	7,708	982	--	--	-316	--	408	8,598	1,437
Still Gas	--	--	37,146	--	--	--	--	--	--	37,146	--
Miscellaneous Products	--	--	3,869	--	--	--	13	--	10	3,846	78
Total	329,775	7,777	945,727	459,623	153,746	24,111	-3,266	887,177	121,481	915,368	139,834

-- = 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.

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Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, October 2016
(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	1,014	--	--	862	132	105	28	2,086	--	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	65	0	48	34	--	--	-16	90	33	40
Pentanes Plus	31	0	--	--	--	--	0	26	1	4
Liquefied Petroleum Gases	34	--	48	34	--	--	-16	64	32	36
Ethane/Ethylene	0	--	--	--	--	--	--	--	--	0
Propane/Propylene	10	--	47	29	--	--	-2	--	28	60
Normal Butane/Butylene	12	--	-1	4	--	--	-7	31	4	-13
Isobutane/Isobutylene	11	--	2	1	--	--	-7	32	0	-12
Other Liquids	--	27	--	200	309	25	22	519	33	-13
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	27	--	15	148	29	-4	213	11	0
Hydrogen	--	--	--	--	--	36	--	36	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	27	--	15	148	-6	-4	178	11	0
Fuel Ethanol	--	19	--	--	139	1	-10	158	11	0
Renewable Fuels Except Fuel Ethanol	--	9	--	15	9	-8	6	20	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	165	--	--	10	166	2	-13
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	20	160	-5	17	140	19	0
Reformulated	--	--	--	--	82	-5	-7	84	0	0
Conventional	--	--	--	20	78	0	23	56	19	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	2,841	189	57	10	-103	--	271	2,929
Finished Motor Gasoline	--	--	1,600	5	10	4	3	--	42	1,573
Reformulated	--	--	1,121	--	--	-24	0	--	--	1,097
Conventional	--	--	479	5	10	27	3	--	42	476
Finished Aviation Gasoline	--	--	0	--	--	--	-1	--	--	1
Kerosene-Type Jet Fuel	--	--	390	117	6	--	-10	--	21	502
Kerosene	--	--	1	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	469	2	41	7	-108	--	80	547
15 ppm sulfur and under	--	--	441	1	41	7	-106	--	64	533
Greater than 15 ppm to 500 ppm sulfur	--	--	5	--	--	--	-1	--	7	-1
Greater than 500 ppm sulfur	--	--	23	0	--	--	-1	--	9	15
Residual Fuel Oil ⁶	--	--	98	61	--	--	18	--	21	119
Less than 0.31 percent sulfur	--	--	--	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	18	--	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	81	61	--	--	18	--	NA	NA
Petrochemical Feedstocks	--	--	0	--	--	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	0	--	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	0
Lubricants	--	--	3	1	0	--	-10	--	5	9
Waxes	--	--	--	2	--	--	--	--	0	2
Petroleum Coke	--	--	132	1	--	--	3	--	100	29
Marketable	--	--	96	1	--	--	3	--	100	-6
Catalyst	--	--	36	--	--	--	--	--	--	36
Asphalt and Road Oil	--	--	27	0	--	--	1	--	1	25
Still Gas	--	--	112	--	--	--	--	--	--	112
Miscellaneous Products	--	--	10	--	--	--	0	--	0	10
Total	1,079	27	2,890	1,285	498	140	-69	2,694	337	2,957

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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.

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-October 2016
(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	1,019	--	--	1,189	128	39	-11	2,376	11	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	62	0	67	15	--	--	9	72	40	24
Pentanes Plus	29	0	--	--	--	--	0	24	0	4
Liquefied Petroleum Gases	33	--	67	15	--	--	9	48	39	20
Ethane/Ethylene	0	--	--	--	--	--	--	--	--	0
Propane/Propylene	11	--	46	14	--	--	3	--	26	42
Normal Butane/Butylene	11	--	17	1	--	--	6	25	13	-15
Isobutane/Isobutylene	11	--	4	0	--	--	0	23	0	-8
Other Liquids	--	26	--	118	316	-9	-7	461	21	-24
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	26	--	17	149	31	1	218	4	0
Hydrogen	--	--	--	--	--	41	--	41	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	26	--	17	149	-10	1	177	4	0
Fuel Ethanol	--	18	--	2	140	1	0	158	3	0
Renewable Fuels Except Fuel Ethanol	--	8	--	14	10	-11	1	19	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	71	--	--	-5	97	3	-24
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	30	166	-39	-3	147	13	0
Reformulated	--	--	--	2	82	-7	-5	83	0	0
Conventional	--	--	--	28	84	-33	1	64	13	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,033	185	60	49	-1	--	327	3,001
Finished Motor Gasoline	--	--	1,610	3	12	38	2	--	49	1,613
Reformulated	--	--	1,120	--	--	-6	0	--	--	1,114
Conventional	--	--	490	3	12	44	2	--	49	499
Finished Aviation Gasoline	--	--	2	0	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	431	88	8	--	3	--	23	502
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	554	15	38	10	-7	--	94	531
15 ppm sulfur and under	--	--	527	15	38	10	-7	--	63	534
Greater than 15 ppm to 500 ppm sulfur	--	--	10	0	--	--	0	--	12	-1
Greater than 500 ppm sulfur	--	--	17	1	--	--	1	--	19	-2
Residual Fuel Oil ⁶	--	--	112	70	2	--	1	--	32	151
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	2	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	91	68	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	15	1	0	--	0	--	7	9
Waxes	--	--	--	2	--	--	--	--	0	1
Petroleum Coke	--	--	148	1	--	--	1	--	121	27
Marketable	--	--	115	1	--	--	1	--	121	-6
Catalyst	--	--	33	--	--	--	--	--	--	33
Asphalt and Road Oil	--	--	25	3	--	--	-1	--	1	28
Still Gas	--	--	122	--	--	--	--	--	--	122
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	1,081	26	3,101	1,507	504	79	-11	2,909	398	3,001

-- = 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, October 2016
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,306	51,654	168,327	20,271	31,449	273,008	8,807
Alaskan	--	--	--	--	--	15,341	495
Lower 48 States	--	--	--	--	--	257,667	8,312
Imports (PAD District of Entry)	32,713	74,462	90,564	11,373	26,715	235,827	7,607
Commercial	32,713	74,462	90,564	11,373	26,715	235,827	7,607
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	5,019	-8,308	9,462	-10,271	4,098	--	--
Adjustments ¹	3,795	-7,150	5,841	-522	3,259	5,223	168
Disposition							
Stock Change ²	3,206	-2,007	15,242	2,461	855	19,757	637
Commercial	--	--	15,245	--	--	19,760	637
SPR	--	--	-3	--	--	-3	0
Refinery Inputs	33,825	110,888	251,344	18,362	64,666	479,085	15,454
Exports	5,802	1,777	7,609	28	--	15,216	491
Ending Stocks							
Total	17,928	141,510	949,539	24,154	50,779	1,183,910	--
Commercial	17,928	141,510	254,452	24,154	50,779	488,823	--
Refinery	13,733	14,884	47,811	2,794	23,017	102,239	--
Tank Farms and Pipelines	4,195	126,626	206,641	21,360	24,929	383,751	--
Cushing, Oklahoma	--	59,478	--	--	--	59,478	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	2,833	2,833	--
SPR	--	--	695,087	--	--	695,087	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	58.7	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	33.9	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	145	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	32,713	74,462	90,564	11,373	26,715	235,827	7,607
PAD District of Processing	33,131	69,175	96,441	9,471	27,609	235,827	7,607

-- = 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, October 2016
(Thousand Barrels)

PAD District and State	October 2016		January-October 2016	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,306	42	13,795	45
Florida	160	5	1,621	5
New York	24	1	234	1
Pennsylvania	465	15	5,224	17
Virginia	1	0	8	0
West Virginia	657	21	6,708	22
PAD District 2	51,654	1,666	516,993	1,695
Illinois	710	23	7,214	24
Indiana	151	5	1,508	5
Kansas	2,992	97	31,215	102
Kentucky	204	7	1,997	7
Michigan	476	15	4,761	16
Missouri	10	0	105	0
Nebraska	181	6	1,876	6
North Dakota	32,128	1,036	318,412	1,044
Ohio	1,513	49	19,248	63
Oklahoma	13,151	424	129,256	424
South Dakota	113	4	1,185	4
Tennessee	24	1	216	1
PAD District 3	168,327	5,430	1,666,787	5,465
Alabama	734	24	6,894	23
Arkansas	441	14	4,516	15
Louisiana	4,755	153	48,093	158
Mississippi	1,758	57	17,896	59
New Mexico	12,705	410	121,835	399
Texas	98,653	3,182	983,696	3,225
Federal Offshore PAD District 3	49,281	1,590	483,858	1,586
PAD District 4	20,271	654	202,652	664
Colorado	9,807	316	97,094	318
Montana	1,883	61	19,600	64
Utah	2,661	86	25,297	83
Wyoming	5,920	191	60,661	199
PAD District 5	31,449	1,014	310,738	1,019
Alaska	15,341	495	147,687	484
South Alaska	465	15	4,756	16
North Slope	14,876	480	142,931	469
Arizona	1	0	5	0
California	15,659	505	157,404	516
Nevada	22	1	228	1
Federal Offshore PAD District 5	426	14	5,413	18
U.S. Total	273,008	8,807	2,710,965	8,888

- = 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, October 2016
(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
Natural Gas Plant Liquids	13	11,535	11,548	4,748	6,431	11,795	22,974
Pentanes Plus	—	1,110	1,110	455	829	1,680	2,964
Liquefied Petroleum Gases	13	10,425	10,438	4,293	5,602	10,115	20,010
Ethane	—	5,001	5,001	1,373	1,791	3,548	6,712
Propane	4	3,729	3,733	1,996	2,448	4,323	8,767
Normal Butane	9	1,137	1,146	537	1,094	1,261	2,892
Isobutane	—	558	558	387	269	983	1,639

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			
Natural Gas Plant Liquids	43,076	5,815	5,733	1,049	5,794	61,467	11,773	2,007	109,769
Pentanes Plus	4,838	547	674	253	670	6,982	1,875	968	13,899
Liquefied Petroleum Gases	38,238	5,268	5,059	796	5,124	54,485	9,898	1,039	95,870
Ethane	18,034	2,645	2,135	259	2,213	25,286	3,134	1	40,134
Propane	13,080	1,661	1,865	304	1,922	18,832	4,303	325	35,960
Normal Butane	4,438	-1,239	648	131	572	4,550	1,708	382	10,678
Isobutane	2,686	2,201	411	102	417	5,817	753	331	9,098

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
Natural Gas Plant Liquids	5	227	232	1,133	132	405	1,670
Pentanes Plus	—	49	49	62	42	50	154
Liquefied Petroleum Gases	5	178	183	1,071	90	355	1,516
Ethane	—	—	—	73	2	128	203
Propane	2	130	132	697	54	134	885
Normal Butane	3	35	38	151	28	45	224
Isobutane	—	13	13	150	6	48	204

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			
Natural Gas Plant Liquids	180	3,050	740	26	—	3,996	125	545	6,568
Pentanes Plus	28	37	222	5	—	292	32	49	576
Liquefied Petroleum Gases	152	3,013	518	21	—	3,704	93	496	5,992
Ethane	1	726	—	—	—	727	—	—	930
Propane	67	1,648	24	16	—	1,755	55	38	2,865
Normal Butane	79	434	426	5	—	944	28	408	1,642
Isobutane	5	205	68	—	—	278	10	50	555

— = 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, October 2016
(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	30,980	2,845	33,825	70,650	14,965	25,273	110,888
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	1,626	8	1,634	2,695	270	1,558	4,523
Pentanes Plus	244	-	244	289	20	558	867
Liquefied Petroleum Gases	1,382	8	1,390	2,406	250	1,000	3,656
Normal Butane	1,134	8	1,142	1,303	195	534	2,032
Isobutane	248	-	248	1,103	55	466	1,624
Other Liquids	77,546	6,452	83,998	13,735	3,936	2,023	19,694
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	10,128	803	10,931	5,912	1,567	1,884	9,363
Hydrogen	110	1	111	585	276	177	1,038
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	10,018	802	10,820	5,298	1,291	1,707	8,296
Fuel Ethanol	9,688	737	10,425	4,986	1,198	1,575	7,759
Renewable Diesel Fuel	330	65	395	312	93	132	537
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	29	-	-	29
Unfinished Oils (net)	398	-264	134	-158	-13	-346	-517
Naphthas and Lighter	804	-220	584	505	-185	-54	266
Kerosene and Light Gas Oils	-130	-1	-131	-345	173	-217	-389
Heavy Gas Oils	-623	-41	-664	-245	-1	-12	-258
Residuum	347	-2	345	-73	-	-63	-136
Motor Gasoline Blend.Comp. (MGBC)(net)	67,020	5,913	72,933	7,981	2,382	485	10,848
Reformulated - RBOB	17,915	-	17,915	-466	970	715	1,219
Conventional	49,105	5,913	55,018	8,447	1,412	-230	9,629
CBOB	38,771	5,907	44,678	6,347	1,286	-683	6,950
GTAB	2,579	-	2,579	-	-	-	-
Other	7,755	6	7,761	2,100	126	453	2,679
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	110,152	9,305	119,457	87,080	19,171	28,854	135,105

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, October 2016
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,308	123,133	96,126	6,966	3,811	251,344	18,362	64,666	479,085
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	554	4,904	4,180	102	168	9,908	675	2,784	19,524
Pentanes Plus	166	1,372	822	13	-	2,373	224	815	4,523
Liquefied Petroleum Gases	388	3,532	3,358	89	168	7,535	451	1,969	15,001
Normal Butane	215	1,854	1,863	54	11	3,997	299	972	8,442
Isobutane	173	1,678	1,495	35	157	3,538	152	997	6,559
Other Liquids	8,981	-33,869	-27,114	7,559	-174	-44,617	130	16,079	75,284
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,111	2,963	2,387	1,224	251	8,936	1,222	6,616	37,068
Hydrogen	20	1,847	1,637	81	45	3,630	227	1,110	6,116
Oxygenates (excluding Fuel Ethanol)	-	132	-	-	-	132	-	-	132
Methyl Tertiary Butyl Ether (MTBE)	-	132	-	-	-	132	-	-	132
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	2,091	984	750	1,143	206	5,174	995	5,506	30,791
Fuel Ethanol	2,001	869	489	1,034	167	4,560	934	4,884	28,562
Renewable Diesel Fuel	90	114	261	109	39	613	61	612	2,218
Other Renewable Fuels	-	1	-	-	-	1	-	10	11
Other Hydrocarbons	-	-	-	-	-	-	-	-	29
Unfinished Oils (net)	-848	-878	6,104	-40	-47	4,291	-67	5,138	8,979
Naphthas and Lighter	-549	-4,933	-841	28	-34	-6,329	-35	254	-5,260
Kerosene and Light Gas Oils	35	-1,736	1,472	-2	-3	-234	-207	-590	-1,551
Heavy Gas Oils	-160	4,499	4,331	-23	-10	8,637	184	5,117	13,016
Residuum	-174	1,292	1,142	-43	-	2,217	-9	357	2,774
Motor Gasoline Blend.Comp. (MGBC)(net)	7,715	-35,954	-35,609	6,375	-378	-57,851	-1,025	4,325	29,230
Reformulated - RBOB	5,887	-10,662	-2,754	-	-721	-8,250	-	2,596	13,480
Conventional	1,828	-25,292	-32,855	6,375	343	-49,601	-1,025	1,729	15,750
CBOB	1,849	-29,498	-30,979	6,314	266	-52,048	-1,116	1,124	-412
GTAB	-	-	-	-	-	-	-	-	2,579
Other	-21	4,206	-1,876	61	77	2,447	91	605	13,583
Aviation Gasoline Blend. Comp. (net)	3	-	4	-	-	7	-	-	7
Total Input	30,843	94,168	73,192	14,627	3,805	216,635	19,167	83,529	573,893

- = 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, October 2016
(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
Liquefied Refinery Gases	744	-54	690	1,784	-125	267	1,926
Ethane/Ethylene	19	-	19	-	-	-	-
Ethane	-	-	-	-	-	-	-
Ethylene	19	-	19	-	-	-	-
Propane/Propylene	1,030	10	1,040	2,311	402	612	3,325
Propane	699	10	709	1,521	248	403	2,172
Propylene	331	-	331	790	154	209	1,153
Normal Butane/Butylene	-308	-35	-343	-530	-435	-358	-1,323
Normal Butane	-343	-35	-378	-609	-435	-358	-1,402
Butylene	35	-	35	79	-	-	79
Isobutane/Isobutylene	3	-29	-26	3	-92	13	-76
Isobutane	3	-29	-26	3	-92	13	-76
Isobutylene	-	-	-	-	-	-	-
Finished Motor Gasoline	92,956	7,614	100,570	53,425	11,577	16,283	81,285
Reformulated	40,444	-	40,444	8,619	1,523	1,120	11,262
Reformulated Blended with Fuel Ethanol	40,444	-	40,444	8,619	1,523	1,120	11,262
Reformulated Other	-	-	-	-	-	-	-
Conventional	52,512	7,614	60,126	44,806	10,054	15,163	70,023
Conventional Blended with Fuel Ethanol	55,086	7,355	62,441	40,727	10,391	14,411	65,529
Ed55 and Lower	55,053	7,355	62,408	40,716	10,366	14,365	65,447
Greater than Ed55	33	-	33	11	25	46	82
Conventional Other	-2,574	259	-2,315	4,079	-337	752	4,494
Finished Aviation Gasoline	-	-	-	-	50	-	50
Kerosene-Type Jet Fuel	2,577	-	2,577	5,827	880	965	7,672
Kerosene	76	-	76	101	-	18	119
Distillate Fuel Oil	10,433	758	11,191	18,969	5,238	9,635	33,842
15 ppm sulfur and under	9,701	653	10,354	19,281	5,235	9,730	34,246
Greater than 15 ppm to 500 ppm sulfur	124	77	201	-157	12	84	-61
Greater than 500 ppm sulfur	608	28	636	-155	-9	-179	-343
Residual Fuel Oil	1,590	13	1,603	1,129	329	74	1,532
Less than 0.31 percent sulfur	203	13	216	-	113	-	113
0.31 to 1.00 percent sulfur	165	-	165	159	84	-	243
Greater than 1.00 percent sulfur	1,222	-	1,222	970	132	74	1,176
Petrochemical Feedstocks	128	-	128	1,065	-18	29	1,076
Naphtha for Petro. Feed. Use	128	-	128	834	-18	-	816
Other Oils for Petro. Feed. Use	-	-	-	231	-	29	260
Special Naphthas	-	21	21	40	-	15	55
Lubricants	227	206	433	-	-	287	287
Waxes	-	6	6	-	-	32	32
Petroleum Coke	1,105	19	1,124	3,669	984	978	5,631
Marketable	488	-	488	2,655	810	798	4,263
Catalyst	617	19	636	1,014	174	180	1,368
Asphalt and Road Oil	709	587	1,296	2,445	742	426	3,613
Still Gas	1,094	67	1,161	2,568	608	1,074	4,250
Miscellaneous Products	56	28	84	262	111	63	436
Total	111,695	9,265	120,960	91,284	20,376	30,146	141,806
Processing Gain(-) or Loss(+) ¹	-1,543	40	-1,503	-4,204	-1,205	-1,292	-6,701

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, October 2016
(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			
Liquefied Refinery Gases	469	5,057	4,777	6	2	10,311	337	1,491	14,755
Ethane/Ethylene	1	119	1	-	-	121	-	-	140
Ethane	1	107	1	-	-	109	-	-	109
Ethylene	-	12	-	-	-	12	-	-	31
Propane/Propylene	710	5,666	4,651	45	39	11,111	296	1,465	17,237
Propane	301	2,424	1,987	23	39	4,774	294	1,067	9,016
Propylene	409	3,242	2,664	22	-	6,337	2	398	8,221
Normal Butane/Butylene	-241	-363	30	-39	-35	-648	34	-31	-2,311
Normal Butane	-240	-300	-208	-39	-41	-828	47	-14	-2,575
Butylene	-1	-63	238	-	6	180	-13	-17	264
Isobutane/Isobutylene	-1	-365	95	-	-2	-273	7	57	-311
Isobutane	-1	-349	95	-	-2	-257	7	57	-295
Isobutylene	-	-16	-	-	-	-16	-	-	-16
Finished Motor Gasoline	21,223	25,867	12,296	9,756	1,838	70,980	9,577	49,594	312,006
Reformulated	7,784	6,781	-	-	-	14,565	-	34,737	101,008
Reformulated Blended with Fuel Ethanol	7,784	6,781	-	-	-	14,565	-	34,737	101,008
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	13,439	19,086	12,296	9,756	1,838	56,415	9,577	14,857	210,998
Conventional Blended with Fuel Ethanol	12,002	1,795	4,825	10,525	1,658	30,805	9,300	13,791	181,866
Ed55 and Lower	11,995	1,795	4,825	10,514	1,658	30,787	9,290	13,786	181,718
Greater than Ed55	7	-	-	11	-	18	10	5	148
Conventional Other	1,437	17,291	7,471	-769	180	25,610	277	1,066	29,132
Finished Aviation Gasoline	71	100	96	-	-	267	3	-2	318
Kerosene-Type Jet Fuel	1,356	11,792	12,659	191	-	25,998	721	12,091	49,059
Kerosene	-1	93	36	17	-	145	-	22	362
Distillate Fuel Oil	6,414	35,572	31,547	2,382	1,677	77,592	6,250	14,527	143,402
15 ppm sulfur and under	6,412	32,134	25,510	2,307	1,677	68,040	6,265	13,681	132,586
Greater than 15 ppm to 500 ppm sulfur	2	856	1,145	45	-	2,048	15	142	2,345
Greater than 500 ppm sulfur	-	2,582	4,892	30	-	7,504	-30	704	8,471
Residual Fuel Oil	291	2,553	4,671	-42	151	7,624	371	3,047	14,177
Less than 0.31 percent sulfur	236	-6	759	-	-	989	211	-	1,529
0.31 to 1.00 percent sulfur	-	182	408	-42	16	564	22	548	1,542
Greater than 1.00 percent sulfur	55	2,377	3,504	-	135	6,071	138	2,499	11,106
Petrochemical Feedstocks	146	5,571	1,835	14	-	7,566	-	4	8,774
Naphtha for Petro. Feed. Use	119	3,499	748	14	-	4,380	-	4	5,328
Other Oils for Petro. Feed. Use	27	2,072	1,087	-	-	3,186	-	-	3,446
Special Naphthas	64	758	-	211	-	1,033	-	18	1,127
Lubricants	28	1,885	1,509	882	-	4,304	-	82	5,106
Waxes	-	33	36	38	-	107	-	-	145
Petroleum Coke	505	7,967	6,093	243	79	14,887	772	4,090	26,504
Marketable	252	5,942	4,804	228	-	11,226	538	2,980	19,495
Catalyst	253	2,025	1,289	15	79	3,661	234	1,110	7,009
Asphalt and Road Oil	232	302	403	944	18	1,899	1,308	831	8,947
Still Gas	810	5,502	4,003	166	82	10,563	709	3,466	20,149
Miscellaneous Products	116	878	555	12	26	1,587	101	314	2,522
Total	31,724	103,930	80,516	14,820	3,873	234,863	20,149	89,575	607,353
Processing Gain(-) or Loss(+) ¹	-881	-9,762	-7,324	-193	-68	-18,228	-982	-6,046	-33,460

- = No Data Reported.

¹ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

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, October 2016
(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	30,980	2,845	33,825	70,650	14,965	25,273	110,888
Natural Gas Plant Liquids	353	-	353	2,474	114	961	3,549
Pentanes Plus	-	-	-	289	-	474	763
Liquefied Petroleum Gases	353	-	353	2,185	114	487	2,786
Normal Butane	105	-	105	1,082	59	21	1,162
Isobutane	248	-	248	1,103	55	466	1,624
Other Liquids	-13,701	-55	-13,756	-32,569	-5,465	-11,700	-49,734
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	187	108	295	859	451	282	1,592
Hydrogen	110	1	111	585	276	177	1,038
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	77	107	184	245	175	105	525
Fuel Ethanol	77	87	164	147	152	99	398
Renewable Diesel Fuel	-	20	20	98	23	6	127
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	29	-	-	29
Unfinished Oils (net)	396	-263	133	-187	-13	-346	-546
Naphthas and Lighter	804	-220	584	505	-185	-54	266
Kerosene and Light Gas Oils	-130	-	-130	-278	173	-217	-322
Heavy Gas Oils	-625	-41	-666	-249	-1	-12	-262
Residuum	347	-2	345	-165	-	-63	-228
Motor Gasoline Blend.Comp. (MGBC)(net)	-14,284	100	-14,184	-33,241	-5,903	-11,636	-50,780
Reformulated - RBOB	-9,237	-	-9,237	-7,910	-401	-293	-8,604
Conventional	-5,047	100	-4,947	-25,331	-5,502	-11,343	-42,176
CBOB	-4,909	94	-4,815	-26,228	-5,576	-11,796	-43,600
GTAB	-	-	-	-	-	-	-
Other	-138	6	-132	897	74	453	1,424
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	17,632	2,790	20,422	40,555	9,614	14,534	64,703
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	988	92	1,080	2,278	483	816	3,577
Operable Capacity (daily average)	1,179	98	1,278	2,575	510	872	3,957
Operable Utilization Rate (percent) ²	83.8	93.9	84.6	88.5	94.7	93.6	90.4
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	162	13	175	457	60	147	664
Catalytic Cracking	359	15	374	683	142	210	1,035
Catalytic Hydrocracking	34	-	34	199	51	48	298
Delayed and Fluid Coking	59	-	59	303	66	96	465
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.86	1.54	0.91	1.55	1.97	0.78	1.43
API Gravity, Weighted Average (degrees)	32.92	32.45	32.88	31.72	29.48	36.62	32.49
Operable Capacity (daily average)	1,179	98	1,278	2,575	510	872	3,957
Operating	1,147	98	1,246	2,553	510	872	3,935
Idle	32	-	32	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, October 2016
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,308	123,133	96,126	6,966	3,811	251,344	18,362	64,666	479,085
Natural Gas Plant Liquids	471	4,368	4,039	48	168	9,094	559	2,766	16,321
Pentanes Plus	149	1,280	822	13	—	2,264	166	815	4,008
Liquefied Petroleum Gases	322	3,088	3,217	35	168	6,830	393	1,951	12,313
Normal Butane	149	1,410	1,722	—	11	3,292	241	954	5,754
Isobutane	173	1,678	1,495	35	157	3,538	152	997	6,559
Other Liquids	-8,569	-45,630	-30,274	-1,673	-1,422	-87,568	-4,448	-30,110	-185,616
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	250	2,069	1,975	141	95	4,530	573	1,358	8,348
Hydrogen	20	1,847	1,637	81	45	3,630	227	1,110	6,116
Oxygenates (excluding Fuel Ethanol)	—	132	—	—	—	132	—	—	132
Methyl Tertiary Butyl Ether (MTBE)	—	132	—	—	—	132	—	—	132
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	230	90	338	60	50	768	346	248	2,071
Fuel Ethanol	196	46	172	26	43	483	304	96	1,445
Renewable Diesel Fuel	34	43	166	34	7	284	42	142	615
Other Renewable Fuels	—	1	—	—	—	1	—	10	11
Other Hydrocarbons	—	—	—	—	—	—	—	—	29
Unfinished Oils (net)	-848	-878	6,038	-40	-47	4,225	-67	5,138	8,883
Naphthas and Lighter	-549	-4,933	-841	28	-34	-6,329	-35	254	-5,260
Kerosene and Light Gas Oils	35	-1,736	1,409	-2	-3	-297	-207	-590	-1,546
Heavy Gas Oils	-160	4,499	4,328	-23	-10	8,634	184	5,117	13,007
Residuum	-174	1,292	1,142	-43	—	2,217	-9	357	2,682
Motor Gasoline Blend.Comp. (MGBC)(net)	-7,974	-46,821	-38,291	-1,774	-1,470	-96,330	-4,954	-36,606	-202,854
Reformulated - RBOB	-1,058	-14,928	-2,754	—	-721	-19,461	—	-28,028	-65,330
Conventional	-6,916	-31,893	-35,537	-1,774	-749	-76,869	-4,954	-8,578	-137,524
CBOB	-6,895	-28,165	-32,845	-1,800	-826	-70,531	-5,038	-9,184	-133,168
GTAB	—	—	—	—	—	—	—	—	—
Other	-21	-3,728	-2,692	26	77	-6,338	84	606	-4,356
Aviation Gasoline Blend. Comp. (net)	3	—	4	—	—	7	—	—	7
Total Input to Refineries	13,210	81,871	69,891	5,341	2,557	172,870	14,473	37,322	309,790
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	677	4,036	3,245	200	123	8,281	582	2,262	15,783
Operable Capacity (daily average)	704	4,838	3,707	243	128	9,620	696	2,924	18,474
Operable Utilization Rate (percent) ²	96.2	83.4	87.6	82.4	96.4	86.1	83.7	77.4	85.4
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	145	643	486	33	26	1,333	93	377	2,642
Catalytic Cracking	175	1,340	962	19	35	2,530	165	754	4,859
Catalytic Hydrocracking	49	391	386	20	—	846	23	439	1,640
Delayed and Fluid Coking	29	694	517	26	—	1,267	63	397	2,251
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.68	1.55	1.57	1.59	0.72	1.47	1.45	1.21	1.38
API Gravity, Weighted Average (degrees)	38.90	31.28	29.64	31.10	38.39	31.43	32.78	28.00	31.35
Operable Capacity (daily average)	704	4,838	3,707	243	128	9,620	696	2,924	18,474
Operating	704	4,838	3,707	243	128	9,620	683	2,701	18,183
Idle	—	—	—	—	—	—	13	224	291
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	14,647	14,647

— = 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, October 2016
(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
Liquefied Refinery Gases	744	-54	690	1,784	-125	267	1,926
Ethane/Ethylene	19	-	19	-	-	-	-
Ethane	-	-	-	-	-	-	-
Ethylene	19	-	19	-	-	-	-
Propane/Propylene	1,030	10	1,040	2,311	402	612	3,325
Propane	699	10	709	1,521	248	403	2,172
Propylene	331	-	331	790	154	209	1,153
Normal Butane/Butylene	-308	-35	-343	-530	-435	-358	-1,323
Normal Butane	-343	-35	-378	-609	-435	-358	-1,402
Butylene	35	-	35	79	-	-	79
Isobutane/Isobutylene	3	-29	-26	3	-92	13	-76
Isobutane	3	-29	-26	3	-92	13	-76
Isobutylene	-	-	-	-	-	-	-
Finished Motor Gasoline	768	1,144	1,912	7,158	2,089	2,090	11,337
Reformulated	768	-	768	-	-	-	-
Reformulated Blended with Fuel Ethanol	768	-	768	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,144	1,144	7,158	2,089	2,090	11,337
Conventional Blended with Fuel Ethanol	-	873	873	1,508	1,535	1,030	4,073
Ed55 and Lower	-	873	873	1,508	1,535	1,030	4,073
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	271	271	5,650	554	1,060	7,264
Finished Aviation Gasoline	-	-	-	-	50	-	50
Kerosene-Type Jet Fuel	2,577	-	2,577	6,132	880	965	7,977
Commercial	2,577	-	2,577	6,132	871	852	7,855
Military	-	-	-	-	9	113	122
Kerosene	76	-	76	101	-	18	119
Distillate Fuel Oil	10,167	714	10,881	18,503	5,170	9,511	33,184
15 ppm sulfur and under	9,633	609	10,242	18,815	5,167	9,606	33,588
Greater than 15 ppm to 500 ppm sulfur	60	77	137	-157	12	-8	-153
Greater than 500 ppm sulfur	474	28	502	-155	-9	-87	-251
Residual Fuel Oil	1,529	13	1,542	1,129	329	122	1,580
Less than 0.31 percent sulfur	167	13	180	-	113	-	113
0.31 to 1.00 percent sulfur	161	-	161	159	84	-	244
Greater than 1.00 percent sulfur	1,201	-	1,201	970	132	122	1,224
Petrochemical Feedstocks	128	-	128	1,065	-18	29	1,076
Naphtha for Petro. Feed. Use	128	-	128	834	-18	-	816
Other Oils for Petro. Feed. Use	-	-	-	231	-	29	260
Special Naphthas	-	21	21	40	-	15	55
Lubricants	227	206	433	-	-	287	287
Naphthenic	-	-	-	-	-	-	-
Paraffinic	227	206	433	-	-	287	287
Waxes	-	6	6	-	-	32	32
Petroleum Coke	1,105	19	1,124	3,669	984	978	5,631
Marketable	488	-	488	2,655	810	798	4,263
Catalyst	617	19	636	1,014	174	180	1,368
Asphalt and Road Oil	707	587	1,294	2,349	742	377	3,468
Still Gas	1,094	67	1,161	2,568	608	1,074	4,250
Miscellaneous Products	56	28	84	262	111	63	436
Fuel Use	-	-	-	-	-	-	-
Nonfuel Use	56	28	84	262	111	63	436
Total	19,178	2,751	21,929	44,760	10,820	15,828	71,408
Processing Gain(-) or Loss(+) ¹	-1,546	39	-1,507	-4,205	-1,206	-1,294	-6,705

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, October 2016
(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					
Liquefied Refinery Gases	469	5,057	4,777	6	2	10,311	337	1,491	14,755	
Ethane/Ethylene	1	119	1	-	-	121	-	-	140	
Ethane	1	107	1	-	-	109	-	-	109	
Ethylene	-	12	-	-	-	12	-	-	31	
Propane/Propylene	710	5,666	4,651	45	39	11,111	296	1,465	17,237	
Propane	301	2,424	1,987	23	39	4,774	294	1,067	9,016	
Propylene	409	3,242	2,664	22	-	6,337	2	398	8,221	
Normal Butane/Butylene	-241	-363	30	-39	-35	-648	34	-31	-2,311	
Normal Butane	-240	-300	-208	-39	-41	-828	47	-14	-2,575	
Butylene	-1	-63	238	-	6	180	-13	-17	264	
Isobutane/Isobutylene	-1	-365	95	-	-2	-273	7	57	-311	
Isobutane	-1	-349	95	-	-2	-257	7	57	-295	
Isobutylene	-	-16	-	-	-	-16	-	-	-16	
Finished Motor Gasoline	3,645	13,649	9,155	547	622	27,618	4,905	3,854	49,626	
Reformulated	-	-	-	-	-	-	-	686	1,454	
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	686	1,454	
Reformulated Other	-	-	-	-	-	-	-	-	-	
Conventional	3,645	13,649	9,155	547	622	27,618	4,905	3,168	48,172	
Conventional Blended with Fuel Ethanol	1,931	458	1,673	520	401	4,983	3,053	260	13,242	
Ed55 and Lower	1,927	458	1,673	520	401	4,979	3,053	260	13,238	
Greater than Ed55	4	-	-	-	-	4	-	-	4	
Conventional Other	1,714	13,191	7,482	27	221	22,635	1,852	2,908	34,930	
Finished Aviation Gasoline	71	100	96	-	-	267	3	-1	319	
Kerosene-Type Jet Fuel	1,356	11,754	12,647	191	-	25,948	690	12,118	49,310	
Commercial	1,072	10,405	12,499	117	-	24,093	645	11,456	46,626	
Military	284	1,349	148	74	-	1,855	45	662	2,684	
Kerosene	-1	133	35	17	-	184	-	1	380	
Distillate Fuel Oil	6,360	35,495	31,489	2,307	1,646	77,297	6,262	14,050	141,674	
15 ppm sulfur and under	6,358	32,087	25,452	2,232	1,646	67,775	6,277	13,219	131,101	
Greater than 15 ppm to 500 ppm sulfur	2	837	1,145	45	-	2,029	15	142	2,170	
Greater than 500 ppm sulfur	-	2,571	4,892	30	-	7,493	-30	689	8,403	
Residual Fuel Oil	291	2,553	4,527	-42	151	7,480	371	3,047	14,020	
Less than 0.31 percent sulfur	236	-	759	-	-	995	211	-	1,499	
0.31 to 1.00 percent sulfur	-	197	408	-42	16	579	22	548	1,553	
Greater than 1.00 percent sulfur	55	2,356	3,360	-	135	5,906	138	2,499	10,968	
Petrochemical Feedstocks	146	5,571	1,835	14	-	7,566	-	4	8,774	
Naphtha for Petro. Feed. Use	119	3,499	748	14	-	4,380	-	4	5,328	
Other Oils for Petro. Feed. Use	27	2,072	1,087	-	-	3,186	-	-	3,446	
Special Naphthas	64	758	-	211	-	1,033	-	18	1,127	
Lubricants	28	1,885	1,509	882	-	4,304	-	82	5,106	
Naphthenic	28	33	-	645	-	706	-	78	784	
Paraffinic	-	1,852	1,509	237	-	3,598	-	4	4,322	
Waxes	-	33	36	38	-	107	-	-	145	
Petroleum Coke	505	7,967	6,093	243	79	14,887	772	4,090	26,504	
Marketable	252	5,942	4,804	228	-	11,226	538	2,980	19,495	
Catalyst	253	2,025	1,289	15	79	3,661	234	1,110	7,009	
Asphalt and Road Oil	232	302	457	944	18	1,953	1,308	831	8,854	
Still Gas	810	5,502	4,003	166	82	10,563	709	3,466	20,149	
Miscellaneous Products	116	878	555	12	26	1,587	101	314	2,522	
Fuel Use	-	-	-	-	-	-	-	14	14	
Nonfuel Use	116	878	555	12	26	1,587	101	300	2,508	
Total	14,092	91,637	77,214	5,536	2,626	191,105	15,458	43,365	343,265	
Processing Gain(-) or Loss(+) ¹	-882	-9,766	-7,323	-195	-69	-18,235	-985	-6,043	-33,475	

- = No Data Reported.

¹ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

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, October 2016
(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
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	1,273	8	1,281	221	156	597	974
Pentanes Plus	244	-	244	-	20	84	104
Liquefied Petroleum Gases	1,029	8	1,037	221	136	513	870
Normal Butane	1,029	8	1,037	221	136	513	870
Isobutane	-	-	-	-	-	-	-
Other Liquids	91,247	6,507	97,754	46,304	9,401	13,723	69,428
Oxygenates/Renewables	9,941	695	10,636	5,053	1,116	1,602	7,771
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,941	695	10,636	5,053	1,116	1,602	7,771
Fuel Ethanol	9,611	650	10,261	4,839	1,046	1,476	7,361
Renewable Diesel Fuel	330	45	375	214	70	126	410
Other Renewable Fuels	-	-	-	-	-	-	-
Unfinished Oils (net)	2	-1	1	29	-	-	29
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-1	-1	-67	-	-	-67
Heavy Gas Oils	2	-	2	4	-	-	4
Residuum	-	-	-	92	-	-	92
Motor Gasoline Blend.Comp. (MGBC)(net)	81,304	5,813	87,117	41,222	8,285	12,121	61,628
Reformulated - RBOB	27,152	-	27,152	7,444	1,371	1,008	9,823
Conventional	54,152	5,813	59,965	33,778	6,914	11,113	51,805
CBOB	43,680	5,813	49,493	32,575	6,862	11,113	50,550
GTAB	2,579	-	2,579	-	-	-	-
Other	7,893	-	7,893	1,203	52	-	1,255
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	92,520	6,515	99,035	46,525	9,557	14,320	70,402

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			
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	83	536	141	54	-	814	116	18	3,203
Pentanes Plus	17	92	-	-	-	109	58	-	515
Liquefied Petroleum Gases	66	444	141	54	-	705	58	18	2,688
Normal Butane	66	444	141	54	-	705	58	18	2,688
Isobutane	-	-	-	-	-	-	-	-	-
Other Liquids	17,550	11,761	3,160	9,232	1,248	42,951	4,578	46,189	260,900
Oxygenates/Renewables	1,861	894	412	1,083	156	4,406	649	5,258	28,720
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	1,861	894	412	1,083	156	4,406	649	5,258	28,720
Fuel Ethanol	1,805	823	317	1,008	124	4,077	630	4,788	27,117
Renewable Diesel Fuel	56	71	95	75	32	329	19	470	1,603
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Unfinished Oils (net)	-	-	66	-	-	66	-	-	96
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	63	-	-	63	-	-	-5
Heavy Gas Oils	-	-	3	-	-	3	-	-	9
Residuum	-	-	-	-	-	-	-	-	92
Motor Gasoline Blend.Comp. (MGBC)(net)	15,689	10,867	2,682	8,149	1,092	38,479	3,929	40,931	232,084
Reformulated - RBOB	6,945	4,266	-	-	-	11,211	-	30,624	78,810
Conventional	8,744	6,601	2,682	8,149	1,092	27,268	3,929	10,307	153,274
CBOB	8,744	-1,333	1,866	8,114	1,092	18,483	3,922	10,308	132,756
GTAB	-	-	-	-	-	-	-	-	2,579
Other	-	7,934	816	35	-	8,785	7	-1	17,939
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	17,633	12,297	3,301	9,286	1,248	43,765	4,694	46,207	264,103

- = 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, October 2016
(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	92,188	6,470	98,658	46,267	9,488	14,193	69,948
Reformulated	39,676	-	39,676	8,619	1,523	1,120	11,262
Reformulated Blended with Fuel Ethanol	39,676	-	39,676	8,619	1,523	1,120	11,262
Reformulated Other	-	-	-	-	-	-	-
Conventional	52,512	6,470	58,982	37,648	7,965	13,073	58,686
Conventional Blended with Fuel Ethanol	55,086	6,482	61,568	39,219	8,856	13,381	61,456
Ed55 and Lower	55,053	6,482	61,535	39,208	8,831	13,335	61,374
Greater than Ed55	33	-	33	11	25	46	82
Conventional Other	-2,574	-12	-2,586	-1,571	-891	-308	-2,770
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	-	-	-305	-	-	-305
Kerosene	-	-	-	-	-	-	-
Distillate Fuel Oil	266	44	310	466	68	124	658
15 ppm sulfur and under	68	44	112	466	68	124	658
Greater than 15 ppm to 500 ppm sulfur	64	0	64	-	-	92	92
Greater than 500 ppm sulfur	134	-	134	-	-	-92	-92
Residual Fuel Oil	61	-	61	-	-	-48	-48
Less than 0.31 percent sulfur	36	-	36	-	-	-	-
0.31 to 1.00 percent sulfur	4	-	4	-	-	-	-
Greater than 1.00 percent sulfur	21	-	21	-	-	-48	-48
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	2	-	2	96	-	49	145
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	92,517	6,514	99,031	46,524	9,556	14,318	70,398
Processing Gain(-) or Loss(+) ¹	3	1	4	1	1	2	4

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	17,578	12,218	3,141	9,209	1,216	43,362	4,672	45,740	262,380
Reformulated	7,784	6,781	-	-	-	14,565	-	34,051	99,554
Reformulated Blended with Fuel Ethanol	7,784	6,781	-	-	-	14,565	-	34,051	99,554
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	9,794	5,437	3,141	9,209	1,216	28,797	4,672	11,689	162,826
Conventional Blended with Fuel Ethanol	10,071	1,337	3,152	10,005	1,257	25,822	6,247	13,531	168,624
Ed55 and Lower	10,068	1,337	3,152	9,994	1,257	25,808	6,237	13,526	168,480
Greater than Ed55	3	-	-	11	-	14	10	5	144
Conventional Other	-277	4,100	-11	-796	-41	2,975	-1,575	-1,842	-5,798
Finished Aviation Gasoline	-	-	-	-	-	-	-	-1	-1
Kerosene-Type Jet Fuel	-	38	12	-	-	50	31	-27	-251
Kerosene	-	-40	1	-	-	-39	-	21	-18
Distillate Fuel Oil	54	77	58	75	31	295	-12	477	1,728
15 ppm sulfur and under	54	47	58	75	31	265	-12	462	1,485
Greater than 15 ppm to 500 ppm sulfur	-	19	-	-	-	19	-	-	175
Greater than 500 ppm sulfur	-	11	-	-	-	11	-	15	68
Residual Fuel Oil	-	0	144	-	-	144	-	-	157
Less than 0.31 percent sulfur	-	-6	-	-	-	-6	-	-	30
0.31 to 1.00 percent sulfur	-	-15	-	-	-	-15	-	-	-11
Greater than 1.00 percent sulfur	-	21	144	-	-	165	-	-	138
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-54	-	-	-54	-	-	93
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	17,632	12,293	3,302	9,284	1,247	43,758	4,691	46,210	264,088
Processing Gain(-) or Loss(+) ¹	1	4	-1	2	1	7	3	-3	15

- = No Data Reported.

¹ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

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, October 2016
(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	12,973	760	13,733	11,087	2,136	1,661	14,884
Petroleum Products	16,521	2,038	18,559	30,251	7,493	11,089	48,833
Pentanes Plus	—	—	—	44	—	252	296
Liquefied Petroleum Gases	919	55	974	3,814	574	1,580	5,968
Ethane/Ethylene	—	—	—	—	—	—	—
Propane/Propylene	264	1	265	1,313	59	1,084	2,456
Normal Butane/Butylene	441	39	480	2,252	433	239	2,924
Isobutane/Isobutylene	214	15	229	249	82	257	588
Oxygenates/Renewable Fuels/Other Hydrocarbons	92	95	187	64	36	31	131
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	92	95	187	48	36	31	115
Fuel Ethanol	92	88	180	26	25	27	78
Renewable Diesel Fuel	—	7	7	22	11	4	37
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	16	—	—	16
Unfinished Oils	5,097	616	5,713	7,120	952	3,908	11,980
Naphthas and Lighter	873	444	1,317	1,709	192	1,001	2,902
Kerosene and Light Gas Oils	640	—	640	1,781	437	607	2,825
Heavy Gas Oils	2,622	156	2,778	2,436	323	1,623	4,382
Residuum	962	16	978	1,194	—	677	1,871
Motor Gasoline Blending Components (MGBC)	5,393	182	5,575	8,216	1,913	2,342	12,471
Reformulated - RBOB	1,780	—	1,780	1,332	94	—	1,426
Conventional	3,613	182	3,795	6,884	1,819	2,342	11,045
CBOB	577	144	721	2,450	1,179	1,567	5,196
GTAB	—	—	—	—	—	—	—
Other	3,036	38	3,074	4,434	640	775	5,849
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	25	25	1,211	200	295	1,706
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	25	25	1,211	200	295	1,706
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	25	25	1,211	200	295	1,706
Finished Aviation Gasoline	—	—	—	—	87	—	87
Kerosene-Type Jet Fuel	698	—	698	1,623	303	223	2,149
Kerosene	131	2	133	80	—	29	109
Distillate Fuel Oil	2,560	189	2,749	4,236	1,536	1,526	7,298
15 ppm sulfur and under	1,804	60	1,864	4,087	1,072	1,302	6,461
Greater than 15 ppm to 500 ppm sulfur	90	98	188	—	55	68	123
Greater than 500 ppm sulfur	666	31	697	149	409	156	714
Residual Fuel Oil	661	20	681	837	174	51	1,062
Less than 0.31 percent sulfur	35	18	53	—	22	—	22
0.31 to 1.00 percent sulfur	58	2	60	80	18	—	98
Greater than 1.00 percent sulfur	568	—	568	757	134	51	942
Petrochemical Feedstocks	171	—	171	594	42	—	636
Naphtha for Petro. Feed. Use	171	—	171	476	42	—	518
Other Oils for Petro. Feed. Use	—	—	—	118	—	—	118
Special Naphthas	—	7	7	66	—	16	82
Lubricants	412	274	686	—	—	248	248
Waxes	—	302	302	—	—	46	46
Petroleum Coke	—	—	—	264	562	95	921
Marketable	—	—	—	264	562	95	921
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	375	250	625	2,006	1,095	440	3,541
Miscellaneous Products	12	21	33	76	19	7	102
Total Stocks, All Oils	29,494	2,798	32,292	41,338	9,629	12,750	63,717

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, October 2016
(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	1,822	26,511	18,069	1,103	306	47,811	2,794	23,017	102,239
Petroleum Products	10,271	54,905	50,945	3,805	1,372	121,298	10,056	50,115	248,861
Pentanes Plus	—	53	434	—	7	494	13	3	806
Liquefied Petroleum Gases	2,592	1,155	6,006	10	70	9,833	370	1,860	19,005
Ethane/Ethylene	64	—	—	—	—	64	—	—	64
Propane/Propylene	1,265	80	1,438	3	3	2,789	36	130	5,676
Normal Butane/Butylene	1,162	856	3,673	2	55	5,748	242	1,318	10,712
Isobutane/Isobutylene	101	219	895	5	12	1,232	92	412	2,553
Oxygenates/Renewable Fuels/Other Hydrocarbons	47	137	209	86	11	490	140	324	1,272
Oxygenates (excluding Fuel Ethanol)	—	59	—	—	—	59	—	—	59
Methyl Tertiary Butyl Ether (MTBE)	—	59	—	—	—	59	—	—	59
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	47	78	209	86	11	431	140	324	1,197
Fuel Ethanol	41	52	55	28	8	184	132	32	606
Renewable Diesel Fuel	6	26	154	58	3	247	8	258	557
Other Renewable Fuels	—	—	—	—	—	—	—	34	34
Other Hydrocarbons	—	—	—	—	—	—	—	—	16
Unfinished Oils	2,862	20,877	15,294	850	609	40,492	2,935	18,804	79,924
Naphthas and Lighter	1,265	5,980	2,866	182	180	10,473	623	2,951	18,266
Kerosene and Light Gas Oils	554	3,647	2,510	176	226	7,113	635	3,433	14,646
Heavy Gas Oils	405	9,118	7,495	436	203	17,657	1,304	9,864	35,985
Residuum	638	2,132	2,423	56	—	5,249	373	2,556	11,027
Motor Gasoline Blending Components (MGBC)	2,109	11,360	11,901	314	274	25,958	2,901	13,650	60,555
Reformulated - RBOB	199	894	150	—	—	1,243	—	4,976	9,425
Conventional	1,910	10,466	11,751	314	274	24,715	2,901	8,674	51,130
CBOB	986	3,070	5,704	195	96	10,051	1,429	2,086	19,483
GTAB	—	—	—	—	—	—	—	—	—
Other	924	7,396	6,047	119	178	14,664	1,472	6,588	31,647
Aviation Gasoline Blending Components	13	—	—	—	—	13	—	—	13
Finished Motor Gasoline	476	2,046	1,955	—	56	4,533	948	1,035	8,247
Reformulated	—	—	—	—	—	—	—	18	18
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	18	18
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	476	2,046	1,955	—	56	4,533	948	1,017	8,229
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	65	—	65
Ed55 and Lower	—	—	—	—	—	—	65	—	65
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	476	2,046	1,955	—	56	4,533	883	1,017	8,164
Finished Aviation Gasoline	22	138	111	—	—	271	8	148	514
Kerosene-Type Jet Fuel	416	2,848	2,277	48	—	5,589	349	3,971	12,756
Kerosene	49	6	94	5	—	154	1	6	403
Distillate Fuel Oil	860	6,965	6,130	418	122	14,495	1,505	4,813	30,860
15 ppm sulfur and under	724	6,132	4,456	329	122	11,763	1,349	3,836	25,273
Greater than 15 ppm to 500 ppm sulfur	16	81	436	34	—	567	112	215	1,205
Greater than 500 ppm sulfur	120	752	1,238	55	—	2,165	44	762	4,382
Residual Fuel Oil	78	2,223	1,545	25	76	3,947	199	2,547	8,436
Less than 0.31 percent sulfur	3	—	205	—	—	208	17	—	300
0.31 to 1.00 percent sulfur	—	141	126	25	6	298	7	242	705
Greater than 1.00 percent sulfur	75	2,082	1,214	—	70	3,441	175	2,305	7,431
Petrochemical Feedstocks	156	1,643	534	9	—	2,342	—	5	3,154
Naphtha for Petro. Feed. Use	30	991	281	9	—	1,311	—	5	2,005
Other Oils for Petro. Feed. Use	126	652	253	—	—	1,031	—	—	1,149
Special Naphthas	78	805	—	76	—	959	—	59	1,107
Lubricants	44	2,524	2,370	784	—	5,722	—	679	7,335
Waxes	—	64	111	72	—	247	—	—	595
Petroleum Coke	23	1,703	1,475	—	—	3,201	109	1,482	5,713
Marketable	23	1,703	1,475	—	—	3,201	109	1,482	5,713
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	326	109	390	1,107	127	2,059	556	651	7,432
Miscellaneous Products	120	249	109	1	20	499	22	78	734
Total Stocks, All Oils	12,093	81,416	69,014	4,908	1,678	169,109	12,850	73,132	351,100

— = 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, October 2016

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
Liquefied Refinery Gases	2.4	-2.1	2.0	2.5	-0.8	1.1	1.7
Finished Motor Gasoline ¹	46.4	37.1	45.7	53.2	50.7	50.5	52.2
Finished Aviation Gasoline ²	-	-	-	-	0.3	-	0.0
Kerosene-Type Jet Fuel	8.2	-	7.6	8.6	5.8	3.8	7.2
Kerosene	0.2	-	0.2	0.1	-	0.1	0.1
Distillate Fuel Oil ³	32.3	26.9	31.9	25.9	33.8	37.9	29.7
Residual Fuel Oil	4.9	0.5	4.5	1.6	2.2	0.5	1.4
Naphtha for Petro. Feed. Use	0.4	-	0.4	1.2	0.0	-	0.7
Other Oils for Petro. Feed. Use	-	-	-	0.3	-	0.1	0.2
Special Naphthas	-	0.8	0.1	0.1	-	0.1	0.1
Lubricants	0.7	8.0	1.3	-	-	1.1	0.3
Waxes	-	0.2	0.0	-	-	0.1	0.0
Petroleum Coke	3.5	0.7	3.3	5.2	6.5	3.9	5.1
Asphalt and Road Oil	2.3	22.7	3.8	3.3	4.9	1.5	3.1
Still Gas	3.5	2.6	3.4	3.6	4.0	4.3	3.8
Miscellaneous Products	0.2	1.1	0.3	0.4	0.7	0.3	0.4
Processing Gain(-) or Loss(+) ⁴	-4.9	1.6	-4.4	-5.9	-7.9	-5.2	-6.0

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			
Liquefied Refinery Gases	2.3	4.1	4.6	0.1	0.1	4.0	1.8	2.1	3.0
Finished Motor Gasoline ¹	53.5	45.1	41.7	32.1	49.4	44.1	48.6	53.0	47.5
Finished Aviation Gasoline ²	0.3	0.1	0.1	-	-	0.1	0.0	0.0	0.1
Kerosene-Type Jet Fuel	6.6	9.5	12.2	2.7	-	10.0	3.7	17.1	10.0
Kerosene	0.0	0.1	0.0	0.2	-	0.1	-	0.0	0.1
Distillate Fuel Oil ³	30.9	28.6	30.2	32.4	43.0	29.7	33.6	19.6	28.6
Residual Fuel Oil	1.4	2.1	4.4	-0.6	4.0	2.9	2.0	4.3	2.8
Naphtha for Petro. Feed. Use	0.6	2.8	0.7	0.2	-	1.7	-	0.0	1.1
Other Oils for Petro. Feed. Use	0.1	1.7	1.1	-	-	1.2	-	-	0.7
Special Naphthas	0.3	0.6	-	3.0	-	0.4	-	0.0	0.2
Lubricants	0.1	1.5	1.5	12.6	-	1.7	-	0.1	1.0
Waxes	-	0.0	0.0	0.5	-	0.0	-	-	0.0
Petroleum Coke	2.5	6.4	5.9	3.5	2.1	5.7	4.2	5.8	5.4
Asphalt and Road Oil	1.1	0.2	0.4	13.5	0.5	0.8	7.1	1.2	1.8
Still Gas	4.0	4.4	3.9	2.4	2.2	4.1	3.8	4.9	4.1
Miscellaneous Products	0.6	0.7	0.5	0.0	1.0	0.6	0.6	0.4	0.5
Processing Gain(-) or Loss(+) ⁴	-4.3	-7.9	-7.1	-2.8	-1.8	-7.0	-5.3	-8.5	-6.8

- = 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 refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

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, October 2016
(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	203	366	1,623	2,192
Connecticut	-	-	-	-
Delaware	-	-	-	-
Florida	-	-	390	390
Georgia	-	-	-	-
Maine	-	-	-	-
Maryland	-	-	-	-
Massachusetts	-	-	-	-
New Hampshire	-	-	-	-
New Jersey	203	366	723	1,292
New York	-	-	322	322
North Carolina	-	-	-	-
Pennsylvania	-	-	-	-
Rhode Island	-	-	-	-
South Carolina	-	-	186	186
Vermont	-	-	2	2
Virginia	-	-	-	-
West Virginia	-	-	-	-
PAD District 2	-	125	9	134
Illinois	-	-	-	-
Indiana	-	-	-	-
Michigan	-	-	9	9
Minnesota	-	80	-	80
North Dakota	-	45	-	45
Ohio	-	-	-	-
Wisconsin	-	-	-	-
PAD District 3	-	220	506	726
Alabama	-	-	-	-
Louisiana	-	-	-	-
Mississippi	-	-	-	-
New Mexico	-	-	-	-
Texas	-	220	506	726
PAD District 4	-	-	-	-
Idaho	-	-	-	-
Montana	-	-	-	-
PAD District 5	-	-	1,882	1,882
Alaska	-	-	-	-
California	-	-	1,111	1,111
Hawaii	-	-	96	96
Oregon	-	-	-	-
Washington	-	-	675	675
U.S. Total	203	711	4,020	4,934

- = 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, October 2016
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	33,131	69,175	96,441	9,471	27,609	235,827	7,607
Natural Gas Plant Liquids and Liquefied Refinery Gases	1,009	2,575	77	321	1,042	5,024	162
Pentanes Plus	—	2	—	—	—	2	0
Liquefied Petroleum Gases	1,009	2,573	77	321	1,042	5,022	162
Ethane	—	—	—	—	—	—	—
Ethylene	—	—	—	—	—	—	—
Propane	766	1,729	—	309	883	3,687	119
Propylene	122	412	—	—	1	535	17
Normal Butane	69	217	—	2	137	425	14
Butylene	—	67	77	—	—	144	5
Isobutane	52	148	—	10	21	231	7
Isobutylene	—	—	—	—	—	—	—
Other Liquids	19,962	121	13,690	19	9,215	43,007	1,387
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	908	118	1,165	13	474	2,678	86
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	274	—	—	274	9
Methyl Tertiary Butyl Ether (MTBE)	—	—	230	—	—	230	7
Other Oxygenates ³	—	—	44	—	—	44	1
Renewable Fuels (including Fuel Ethanol)	907	99	885	13	474	2,378	77
Fuel Ethanol	—	—	—	—	—	—	—
Biomass-Based Diesel Fuel	766	99	885	13	61	1,824	59
Other Renewable Diesel Fuel	141	—	—	—	413	554	18
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	1	19	6	—	—	26	1
Unfinished Oils ¹	1,474	—	10,114	—	8,127	19,715	636
Naphthas and Lighter	422	—	—	—	157	579	19
Kerosene and Lighter Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	1,052	—	8,174	—	7,970	17,196	555
Residuum	—	—	1,940	—	—	1,940	63
Motor Gasoline Blend.Comp. (MGBC)	17,580	3	2,411	6	614	20,614	665
Reformulated - RBOB	3,772	—	638	—	—	4,410	142
Conventional	13,808	3	1,773	6	614	16,204	523
CBOB	364	—	—	—	385	749	24
GTAB	3,998	—	60	—	—	4,058	131
Other	9,446	3	1,713	6	229	11,397	368
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	8,040	942	2,670	50	5,854	17,556	566
Finished Motor Gasoline	1,196	—	—	—	167	1,363	44
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	1,196	—	—	—	167	1,363	44
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	1,196	—	—	—	167	1,363	44
Finished Aviation Gasoline	1	—	—	1	—	2	0
Kerosene-Type Jet Fuel	1,173	5	—	3	3,628	4,809	155
Bonded Aircraft Fuel	153	—	—	—	722	875	28
Other	1,020	5	—	3	2,906	3,934	127
Kerosene	464	—	—	—	—	464	15
Distillate Fuel Oil	2,209	63	—	—	47	2,319	75
15 ppm sulfur and under	1,390	63	—	—	46	1,499	48
Bonded	—	—	—	—	—	—	—
Other	1,390	63	—	—	46	1,499	48
Greater than 15 ppm to 500 ppm sulfur	40	—	—	—	—	40	1
Bonded	—	—	—	—	—	—	—
Other	40	—	—	—	—	40	1
Greater than 500 ppm to 2000 ppm sulfur	486	—	—	—	1	487	16
Bonded	—	—	—	—	—	—	—
Other	486	—	—	—	1	487	16
Greater than 2000 ppm	293	—	—	—	—	293	9
Bonded	—	—	—	—	—	—	—
Other	293	—	—	—	—	293	9
Residual Fuel Oil	2,192	134	726	—	1,882	4,934	159
Less than 0.31 percent sulfur	203	—	—	—	—	203	7
0.31 to 1.00 percent sulfur	366	125	220	—	—	711	23
Greater than 1.00 percent sulfur	1,623	9	506	—	1,882	4,020	130
Petrochemical Feedstocks	—	161	846	—	—	1,007	32
Naphtha for Petro. Feed. Use	—	86	836	—	—	922	30
Other Oils for Petro. Feed. Use	—	75	10	—	—	85	3
Special Naphthas	—	37	155	—	—	192	6
Lubricants	179	203	733	—	30	1,145	37
Waxes	79	4	6	—	61	150	5
Petroleum Coke (Marketable)	1	23	204	—	26	254	8
Asphalt and Road Oil	546	312	—	44	13	915	30
Miscellaneous Products	—	—	—	2	—	2	0
Total	62,142	72,813	112,878	9,861	43,720	301,414	9,723

— = 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-October 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	268,560	662,577	1,021,776	81,486	363,448	2,397,847	7,862
Natural Gas Plant Liquids and Liquefied Refinery Gases	12,944	23,707	3,129	3,068	4,621	47,469	156
Pentanes Plus	—	322	2,878	—	—	3,200	10
Liquefied Petroleum Gases	12,944	23,385	251	3,068	4,621	44,269	145
Ethane	43	—	—	—	—	43	0
Ethylene	—	—	—	—	—	—	—
Propane	8,361	15,091	—	2,883	4,241	30,576	100
Propylene	3,268	3,780	—	—	38	7,086	23
Normal Butane	388	1,698	—	6	321	2,413	8
Butylene	—	725	251	—	—	976	3
Isobutane	884	2,091	—	179	21	3,175	10
Isobutylene	—	—	—	—	—	—	—
Other Liquids	194,321	2,395	167,263	806	38,737	403,522	1,323
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	6,214	630	8,054	186	5,164	20,248	66
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	3,268	—	—	3,268	11
Methyl Tertiary Butyl Ether (MTBE)	—	—	2,478	—	—	2,478	8
Other Oxygenates ³	—	—	790	—	—	790	3
Renewable Fuels (including Fuel Ethanol)	6,208	537	4,702	132	5,164	16,743	55
Fuel Ethanol	12	—	94	—	756	862	3
Biomass-Based Diesel Fuel	5,652	537	4,608	132	716	11,645	38
Other Renewable Diesel Fuel	544	—	—	—	3,692	4,236	14
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	6	93	84	54	—	237	1
Unfinished Oils ¹	11,598	—	145,026	—	24,424	181,048	594
Naphthas and Lighter	422	—	670	—	914	2,006	7
Kerosene and Lighter Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	7,679	—	100,259	—	23,305	131,243	430
Residuum	3,497	—	44,097	—	205	47,799	157
Motor Gasoline Blend.Comp. (MGBC)	176,509	1,765	14,183	620	9,149	202,226	663
Reformulated - RBOB	55,566	—	638	—	727	56,931	187
Conventional	120,943	1,765	13,545	620	8,422	145,295	476
CBOB	10,214	278	219	—	3,880	14,591	48
GTAB	37,372	—	584	—	—	37,956	124
Other	73,357	1,487	12,742	620	4,542	92,748	304
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	107,546	8,317	46,274	478	56,323	218,938	718
Finished Motor Gasoline	17,019	65	808	—	975	18,867	62
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	17,019	65	808	—	975	18,867	62
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	17,019	65	808	—	975	18,867	62
Finished Aviation Gasoline	9	2	—	8	61	80	0
Kerosene-Type Jet Fuel	18,080	5	—	14	26,960	45,059	148
Bonded Aircraft Fuel	1,724	—	—	—	7,946	9,670	32
Other	16,356	5	—	14	19,014	35,389	116
Kerosene	563	1	—	—	—	564	2
Distillate Fuel Oil	35,917	674	2,896	41	4,715	44,243	145
15 ppm sulfur and under	24,517	389	216	41	4,446	29,609	97
Bonded	—	—	—	—	44	44	0
Other	24,517	389	216	41	4,402	29,565	97
Greater than 15 ppm to 500 ppm sulfur	886	—	313	—	54	1,253	4
Bonded	—	—	—	—	—	—	—
Other	886	—	313	—	54	1,253	4
Greater than 500 ppm to 2000 ppm sulfur	10,121	163	1,879	—	215	12,378	41
Bonded	—	—	—	—	—	—	—
Other	10,121	163	1,879	—	215	12,378	41
Greater than 2000 ppm	393	122	488	—	—	1,003	3
Bonded	—	—	—	—	—	—	—
Other	393	122	488	—	—	1,003	3
Residual Fuel Oil	23,720	1,014	22,244	—	21,374	68,352	224
Less than 0.31 percent sulfur	1,689	—	1,212	—	—	2,901	10
0.31 to 1.00 percent sulfur	3,378	589	4,017	—	594	8,578	28
Greater than 1.00 percent sulfur	18,653	425	17,015	—	20,780	56,873	186
Petrochemical Feedstocks	36	1,476	7,518	—	336	9,366	31
Naphtha for Petro. Feed. Use	23	826	6,437	—	336	7,622	25
Other Oils for Petro. Feed. Use	13	650	1,081	—	—	1,744	6
Special Naphthas	—	492	3,730	—	—	4,222	14
Lubricants	1,977	2,114	7,816	—	163	12,070	40
Waxes	735	54	253	—	476	1,518	5
Petroleum Coke (Marketable)	1,703	166	907	—	281	3,057	10
Asphalt and Road Oil	7,787	2,254	102	404	982	11,529	38
Miscellaneous Products	—	—	—	11	—	11	0
Total	583,371	696,996	1,238,442	85,838	463,129	3,067,776	10,058

— = 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, October 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	96,404	-	-	4,046	-	-	-	-	986	986
Algeria	4,823	-	-	4,046	-	-	-	-	-	-
Angola	3,777	-	-	-	-	-	-	-	-	-
Ecuador	6,099	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	652	-	-	-	-	-	-	-	255	255
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	15,733	-	-	-	-	-	-	-	-	-
Kuwait	4,767	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	6,413	-	-	-	-	-	-	-	422	422
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	31,705	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	22,435	-	-	-	-	-	-	-	309	309
Non-OPEC	139,423	2	5,022	15,669	-	1,363	1,363	4,410	15,218	19,628
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	59	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	679	-	24	24	26	507	533
Brazil	5,371	-	-	-	-	-	-	-	378	378
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	100,308	2	4,886	-	-	915	915	940	946	1,886
Chad	1,901	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	471	471
Colombia	9,804	-	-	-	-	-	-	-	353	353
Congo (Brazzaville)	-	-	-	-	-	-	-	-	7	7
Denmark	-	-	-	37	-	4	4	-	-	-
Egypt	263	-	-	-	-	-	-	-	-	-
Equatorial Guinea	216	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	50	50	-	458	458
France	-	-	-	341	-	-	-	863	360	1,223
Germany	-	-	-	-	-	-	-	10	13	23
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	21	21	-	1,845	1,845
Italy	-	-	45	393	-	-	-	-	29	29
Korea, South	-	-	-	-	-	-	-	-	55	55
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	298	-	-	608	-	-	-	-	315	315
Mexico	17,196	-	32	-	-	-	-	-	615	615
Netherlands	-	-	-	595	-	39	39	872	1,490	2,362
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	2,099	-	-	-	-	30	30	-	116	116
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	140	717	857
Russia	1,413	-	-	10,873	-	-	-	341	1,812	2,153
Spain	-	-	-	125	-	217	217	-	1,950	1,950
Sweden	-	-	-	579	-	-	-	-	410	410
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	233	233
United Kingdom	-	-	-	377	-	42	42	1,218	965	2,183
Vietnam	297	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	257	0	0	1,062	-	21	21	0	1,173	1,173
Total	235,827	2	5,022	19,715	-	1,363	1,363	4,410	16,204	20,614
Persian Gulf³	52,205	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, October 2016
(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	-	-	-	238	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	238	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	230	44	-	1,586	554	-	1,499	40	487	293	2,319
Argentina	50	-	-	1,295	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	79	-	-	-	-	-	-	-	-	-	-
Brazil	79	44	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	168	-	-	1,304	40	487	-	1,831
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	17	-	-	66	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	293	293
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	57	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	5	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	195	-	-	-	195
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	554	-	0	0	0	0	0
Total	230	44	-	1,824	554	-	1,499	40	487	293	2,319
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, October 2016
(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	—	—	—	8	74	—	366	180	546
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	5	—	—	—	180	180
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	366	—	366
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	3	74	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	464	2	—	4,801	118	203	345	3,840	4,388
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	52	—	220	21	241
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	2	—	16	37	—	125	670	795
Chad	—	—	—	—	—	—	—	—	—
China	267	—	—	302	—	—	—	—	—
Colombia	—	—	—	1	—	—	—	583	583
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	837	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	2,699	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	846	846
Netherlands	—	—	—	—	29	—	—	279	279
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	530	530
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	320	320
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	197	0	—	946	0	203	0	591	794
Total	464	2	—	4,809	192	203	711	4,020	4,934
Persian Gulf³	—	—	—	3	74	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, October 2016
(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	320	—	—	—	232	357	—	6,807	103,211	3,110	220	3,329
Algeria	320	—	—	—	—	—	—	4,366	9,189	156	141	296
Angola	—	—	—	—	—	—	—	—	3,777	122	—	122
Ecuador	—	—	—	—	—	—	—	185	6,284	197	6	203
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	57	—	550	1,202	21	18	39
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	15,733	508	—	508
Kuwait	—	—	—	—	—	—	—	—	4,767	154	—	154
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	788	7,201	207	25	232
Qatar	—	—	—	—	—	300	—	300	300	—	10	10
Saudi Arabia	—	—	—	—	—	—	—	77	31,782	1,023	2	1,025
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	232	—	—	541	22,976	724	17	741
Non-OPEC	602	85	150	254	683	788	2	58,780	198,203	4,498	1,896	6,394
Argentina	—	—	—	112	—	1	—	1,458	1,458	—	47	47
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	59	59	—	2	2
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	69	—	69	69	—	2	2
Belgium	—	—	—	—	—	9	—	1,324	1,324	—	43	43
Brazil	—	—	—	—	—	—	—	794	6,165	173	26	199
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	86	75	134	49	619	317	2	11,839	112,147	3,236	382	3,618
Chad	—	—	—	—	—	—	—	—	1,901	61	—	61
China	—	—	7	—	—	—	—	1,047	1,047	—	34	34
Colombia	—	—	—	—	—	—	—	937	10,741	316	30	346
Congo (Brazzaville)	—	—	—	—	—	7	—	7	7	—	0	0
Denmark	—	—	—	—	—	—	—	41	41	—	1	1
Egypt	—	—	—	—	—	—	—	—	263	8	—	8
Equatorial Guinea	—	—	—	—	—	—	—	—	216	7	—	7
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	508	508	—	16	16
France	—	10	—	—	—	6	—	1,580	1,580	—	51	51
Germany	—	—	—	—	—	16	—	123	123	—	4	4
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	2,996	2,996	—	97	97
Italy	—	—	—	—	—	20	—	488	488	—	16	16
Korea, South	—	—	—	—	—	293	—	3,104	3,104	—	100	100
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	6	—	—	—	—	929	1,227	10	30	40
Mexico	345	—	—	—	—	—	—	1,838	19,034	555	59	614
Netherlands	18	—	—	—	—	—	—	3,327	3,327	—	107	107
Netherlands Antilles	—	—	—	—	64	—	—	64	64	—	2	2
Norway	—	—	—	92	—	—	—	238	2,337	68	8	75
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	1,052	1,052	—	34	34
Russia	—	—	—	—	—	16	—	13,573	14,986	46	438	483
Spain	—	—	—	—	—	—	—	2,292	2,292	—	74	74
Sweden	—	—	—	1	—	—	—	990	990	—	32	32
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	553	553	—	18	18
United Kingdom	111	—	—	—	—	39	—	2,752	2,752	—	89	89
Vietnam	—	—	—	—	—	—	—	—	297	10	—	10
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	42	0	3	0	0	2	0	4,798	5,055	8	154	164
Total	922	85	150	254	915	1,145	2	65,587	301,414	7,607	2,116	9,723
Persian Gulf³	—	—	—	—	—	369	—	446	52,651	1,684	14	1,698

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-October 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	964,653	-	577	44,118	-	2	2	5	13,249	13,254
Algeria	11,160	-	577	37,455	-	-	-	-	515	515
Angola	50,136	-	-	2,660	-	-	-	-	323	323
Ecuador	72,028	-	-	-	-	-	-	-	521	521
Gabon	439	-	-	397	-	-	-	-	-	-
Indonesia	12,312	-	-	-	-	-	-	-	255	255
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	122,324	-	-	323	-	-	-	-	-	-
Kuwait	61,729	-	-	-	-	-	-	-	-	-
Libya	2,461	-	-	1,277	-	-	-	-	-	-
Nigeria	63,772	-	-	-	-	2	2	-	7,202	7,202
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	340,156	-	-	1,351	-	-	-	-	-	-
United Arab Emirates	2,938	-	-	531	-	-	-	-	-	-
Venezuela	225,198	-	-	521	-	-	-	5	4,433	4,438
Non-OPEC	1,433,194	3,200	43,692	136,930	-	18,865	18,865	56,926	132,046	188,972
Argentina	3,532	-	170	166	-	-	-	-	219	219
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	1,473	-	59	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	20	20
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	13,569	-	1,288	1,288	479	4,094	4,573
Brazil	44,536	-	-	296	-	323	323	-	2,349	2,349
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	647	-	-	-	-	-	-
Canada	978,321	322	42,124	1,296	-	10,080	10,080	26,892	18,194	45,086
Chad	21,492	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	96	96	-	543	543
Colombia	141,049	-	-	1,284	-	-	-	-	4,421	4,421
Congo (Brazzaville)	1,147	-	-	45	-	-	-	-	7	7
Denmark	627	-	-	110	-	4	4	110	77	187
Egypt	3,309	-	-	332	-	-	-	-	245	245
Equatorial Guinea	1,818	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	190	-	67	67	131	6,174	6,305
France	-	-	-	4,381	-	296	296	5,752	1,187	6,939
Germany	-	-	-	783	-	-	-	113	32	145
Guatemala	2,156	-	-	-	-	-	-	-	-	-
India	-	-	-	1,762	-	23	23	474	18,908	19,382
Italy	-	-	45	2,268	-	299	299	151	2,359	2,510
Korea, South	-	-	119	214	-	236	236	-	1,504	1,504
Latvia	-	-	-	-	-	-	-	-	317	317
Lithuania	-	-	-	-	-	20	20	-	614	614
Malaysia	1,657	-	-	2,114	-	-	-	-	341	341
Mexico	178,452	1,960	163	497	-	-	-	-	4,357	4,357
Netherlands	314	-	43	2,606	-	1,692	1,692	3,710	5,251	8,961
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	12,937	-	43	3,532	-	365	365	124	8,589	8,713
Oman	9,936	-	-	-	-	-	-	-	36	36
Portugal	-	-	-	-	-	820	820	2,669	4,306	6,975
Russia	13,229	-	-	91,219	-	1	1	493	13,907	14,400
Spain	-	-	-	494	-	628	628	-	13,242	13,242
Sweden	-	-	668	1,121	-	308	308	98	545	643
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	2,204	-	78	-	-	313	313	-	1,640	1,640
United Kingdom	5,734	-	-	1,908	-	1,594	1,594	15,477	11,398	26,875
Vietnam	1,403	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	21	21
Yemen	-	-	-	-	-	-	-	-	-	-
Other	7,868	918	180	6,096	-	412	412	253	7,149	7,402
Total	2,397,847	3,200	44,269	181,048	-	18,867	18,867	56,931	145,295	202,226
Persian Gulf³	527,147	-	-	2,205	-	-	-	-	-	-

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-October 2016
(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	262	—	—	1,700	—	—	325	—	328	—	653
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	1,700	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	325	—	328	—	653
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	262	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	2,216	790	862	9,945	4,236	—	29,284	1,253	12,050	1,003	43,590
Argentina	134	—	—	7,545	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	45	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	259	—	—	—	—	—	270	—	—	—	270
Brazil	637	790	850	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	162
Canada	—	—	12	1,786	—	—	21,977	585	9,483	222	32,267
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	412	—	—	—	412
Colombia	—	—	—	—	—	—	—	301	156	—	457
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	50	—	50
Germany	129	—	—	199	—	—	—	—	102	—	113
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	717	—	—	293	1,010
Italy	—	—	—	—	—	—	—	—	—	—	220
Korea, South	—	—	—	370	—	—	1,168	54	—	—	1,222
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	220	—	220
Netherlands	787	—	—	—	—	—	350	—	24	115	489
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	195	—	—	—	195
Russia	270	—	—	—	—	—	2,955	—	492	—	3,447
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	674	—	874
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	481	—	481
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	4,236	—	1,240	313	368	373	1,701
Total	2,478	790	862	11,645	4,236	—	29,609	1,253	12,378	1,003	44,243
Persian Gulf³	262	—	—	—	—	—	325	—	328	—	653

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-October 2016
(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	—	—	—	3,740	456	1,256	1,767	5,160	8,183
Algeria	—	—	—	—	—	1,244	—	—	1,244
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	5	—	—	—	180	180
Gabon	—	—	—	—	—	—	156	—	156
Indonesia	—	—	—	49	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	342	670
Kuwait	—	—	—	90	—	—	—	—	—
Libya	—	—	—	—	—	—	292	—	292
Nigeria	—	—	—	—	—	12	1,012	—	1,024
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	238	456	—	5	155	160
United Arab Emirates	—	—	—	—	—	—	—	1	1
Venezuela	—	—	—	3,358	—	—	130	4,482	4,612
Non-OPEC	564	80	—	41,319	3,766	1,645	6,811	51,713	60,169
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	425	425
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	40	—	143	183
Brazil	—	—	—	—	92	—	1,037	179	1,216
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	242	—	—	242
Canada	1	19	—	3,166	1,278	126	2,346	9,467	11,939
Chad	—	—	—	—	—	—	—	—	—
China	267	—	—	4,539	—	—	—	—	—
Colombia	—	—	—	4	—	—	256	5,805	6,061
Congo (Brazzaville)	—	—	—	—	—	—	477	—	477
Denmark	—	—	—	—	—	—	—	18	18
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	37	6	43
France	—	—	—	—	—	—	182	58	240
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	6,004	—	—	—	—	—
Italy	—	—	—	—	42	—	—	295	295
Korea, South	—	—	—	23,215	1,305	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	72	—	—	—	—	—
Mexico	—	—	—	—	—	—	58	15,336	15,394
Netherlands	—	61	—	—	29	—	—	2,616	2,616
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	340	225	—	565
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	20	—	378	1,008	11,834	13,220
Spain	—	—	—	—	—	—	—	362	362
Sweden	—	—	—	—	—	—	—	407	407
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	2,963	2,963
United Kingdom	—	—	—	—	—	—	—	62	62
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	296	0	—	4,299	1,020	519	1,185	1,737	3,441
Total	564	80	—	45,059	4,222	2,901	8,578	56,873	68,352
Persian Gulf³	—	—	—	328	456	—	333	498	831

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-October 2016
(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	700	210	2	1,637	1,908	3,373	-	80,775	1,045,428	3,163	265	3,428
Algeria	320	-	-	-	-	-	-	40,111	51,271	37	132	168
Angola	-	-	-	-	-	-	-	2,983	53,119	164	10	174
Ecuador	-	-	-	-	-	-	-	706	72,734	236	2	238
Gabon	-	-	-	-	-	-	-	553	-	1	2	-
Indonesia	-	-	2	-	-	566	-	2,572	14,884	40	8	49
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	993	123,317	401	3	404
Kuwait	-	-	-	138	-	-	-	228	61,957	202	1	203
Libya	-	-	-	-	-	-	-	1,569	4,030	8	5	13
Nigeria	-	210	-	-	-	-	-	8,438	72,210	209	28	237
Qatar	-	-	-	-	-	2,807	-	3,460	3,460	-	11	11
Saudi Arabia	380	-	-	-	-	-	-	2,585	342,741	1,115	8	1,124
United Arab Emirates	-	-	-	-	-	-	-	794	3,732	10	3	12
Venezuela	-	-	-	1,499	1,908	-	-	16,336	241,534	738	54	792
Non-OPEC	6,922	1,534	1,516	1,420	9,621	8,697	11	589,154	2,022,348	4,699	1,932	6,631
Argentina	17	377	-	397	-	25	-	9,050	12,582	12	30	41
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	104	1,577	5	0	5
Bahamas	-	-	-	-	-	-	-	445	445	-	1	1
Bahrain	-	-	-	-	-	629	-	629	629	-	2	2
Belgium	1	-	-	-	-	166	-	20,309	20,309	-	67	67
Brazil	61	-	40	-	-	24	-	6,695	51,231	146	22	168
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	1,051	1,051	-	3	3
Canada	882	802	528	455	8,685	3,392	11	164,278	1,142,599	3,208	539	3,746
Chad	-	-	-	-	-	-	-	-	21,492	70	-	70
China	-	-	596	-	-	-	-	6,453	6,453	-	21	21
Colombia	-	-	-	192	64	-	-	12,483	153,532	462	41	503
Congo (Brazzaville)	-	-	-	-	-	-	-	529	1,676	4	2	5
Denmark	-	-	-	-	-	-	-	319	946	2	1	3
Egypt	-	-	-	-	-	1	-	578	3,887	11	2	13
Equatorial Guinea	-	-	-	-	-	-	-	-	1,818	6	-	6
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	6,605	6,605	-	22	22
France	-	229	-	-	-	87	-	12,222	12,222	-	40	40
Germany	-	-	22	-	-	137	-	1,534	1,534	-	5	5
Guatemala	-	-	-	-	-	-	-	-	2,156	7	-	7
India	-	-	1	-	-	-	-	28,182	28,182	-	92	92
Italy	-	-	-	-	-	210	-	5,901	5,901	-	19	19
Korea, South	881	-	-	-	43	3,183	-	32,306	32,306	-	106	106
Latvia	-	-	-	-	-	-	-	317	317	-	1	1
Lithuania	-	-	-	-	-	-	-	634	634	-	2	2
Malaysia	-	-	115	-	-	-	-	2,642	4,299	5	9	14
Mexico	4,152	-	-	-	-	-	-	26,743	205,195	585	88	673
Netherlands	177	-	1	-	-	12	-	17,485	17,799	1	57	58
Netherlands Antilles	-	-	-	-	64	-	-	64	64	-	0	0
Norway	-	-	-	176	-	-	-	13,394	26,331	42	44	86
Oman	-	-	-	-	-	-	-	36	9,972	33	0	33
Portugal	-	-	-	-	-	-	-	7,990	7,990	-	26	26
Russia	-	-	-	-	-	331	-	122,915	136,144	43	403	446
Spain	-	-	1	-	505	149	-	15,381	15,381	-	50	50
Sweden	-	-	-	4	-	-	-	4,025	4,025	-	13	13
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	5,475	7,679	7	18	25
United Kingdom	265	-	-	158	-	146	-	31,008	36,742	19	102	120
Vietnam	-	-	-	-	-	-	-	-	1,403	5	-	5
Virgin Islands, U.S.	-	-	-	-	-	-	-	21	21	-	0	0
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	486	126	212	38	260	205	0	31,351	39,219	26	104	134
Total	7,622	1,744	1,518	3,057	11,529	12,070	11	669,929	3,067,776	7,862	2,196	10,058
Persian Gulf³	380	-	-	138	-	3,436	-	8,689	535,836	1,728	28	1,757

- = 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 PAD District of processing; all other products are reported by PAD District of Entry.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	18,734	-	-	-	-	-	-	-	986	986
Algeria	4,823	-	-	-	-	-	-	-	-	-
Angola	2,342	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	255	255
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	1,005	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	5,916	-	-	-	-	-	-	-	422	422
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	2,674	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	1,974	-	-	-	-	-	-	-	309	309
Non-OPEC	14,397	-	1,009	1,474	-	1,196	1,196	3,772	12,822	16,594
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	26	475	501
Brazil	542	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	6,830	-	1,009	-	-	887	887	940	515	1,455
Chad	1,901	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	243	243
Colombia	1,790	-	-	-	-	-	-	-	161	161
Congo (Brazzaville)	-	-	-	-	-	-	-	-	7	7
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	263	-	-	-	-	-	-	-	-	-
Equatorial Guinea	216	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	50	50	-	428	428
France	-	-	-	-	-	-	-	863	360	1,223
Germany	-	-	-	-	-	-	-	10	13	23
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	21	21	-	1,454	1,454
Italy	-	-	-	297	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	499	-	-	-	-	-	-	-	300	300
Netherlands	-	-	-	-	-	-	-	872	1,490	2,362
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	2,099	-	-	-	-	-	-	-	116	116
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	140	717	857
Russia	-	-	-	305	-	-	-	341	1,812	2,153
Spain	-	-	-	125	-	217	217	-	1,950	1,950
Sweden	-	-	-	-	-	-	-	-	410	410
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	233	233
United Kingdom	-	-	-	377	-	-	-	580	965	1,545
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	257	-	0	370	-	21	21	0	1,173	1,173
Total	33,131	-	1,009	1,474	-	1,196	1,196	3,772	13,808	17,580
Persian Gulf³	3,679	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	766	141	-	1,390	40	486	293	2,209
Argentina	-	-	-	648	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	52	-	-	1,195	40	486	-	1,721
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	66	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	293	293
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	195	-	-	-	195
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	141	-	0	0	0	0	0
Total	-	-	-	766	141	-	1,390	40	486	293	2,209
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	1	-	-	366	-	366
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	366	-	366
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	1	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	464	1	-	1,172	-	203	-	1,623	1,826
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	21	21
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	1	-	16	-	-	-	420	420
Chad	-	-	-	-	-	-	-	-	-
China	267	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	583	583
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	837	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	319	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	279	279
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	320	320
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	197	0	-	0	-	203	0	0	203
Total	464	1	-	1,173	-	203	366	1,623	2,192
Persian Gulf³	-	-	-	1	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	-	232	-	-	1,585	20,319	604	51	655
Algeria	-	-	-	-	-	-	-	-	4,823	156	-	156
Angola	-	-	-	-	-	-	-	-	2,342	76	-	76
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	255	255	-	8	8
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	1,005	32	-	32
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	788	6,704	191	25	216
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	1	2,675	86	0	86
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	232	-	-	541	2,515	64	17	81
Non-OPEC	-	-	79	1	314	179	-	27,426	41,823	464	885	1,349
Argentina	-	-	-	-	-	-	-	648	648	-	21	21
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	2	-	503	503	-	16	16
Brazil	-	-	-	-	-	-	-	21	563	17	1	18
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	75	1	250	107	-	5,994	12,824	220	193	414
Chad	-	-	-	-	-	-	-	-	1,901	61	-	61
China	-	-	1	-	-	-	-	511	511	-	16	16
Colombia	-	-	-	-	-	-	-	744	2,534	58	24	82
Congo (Brazzaville)	-	-	-	-	-	-	-	7	7	-	0	0
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	263	8	-	8
Equatorial Guinea	-	-	-	-	-	-	-	-	216	7	-	7
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	478	478	-	15	15
France	-	-	-	-	-	6	-	1,229	1,229	-	40	40
Germany	-	-	-	-	-	9	-	98	98	-	3	3
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	2,605	2,605	-	84	84
Italy	-	-	-	-	-	12	-	309	309	-	10	10
Korea, South	-	-	-	-	-	27	-	346	346	-	11	11
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	300	799	16	10	26
Netherlands	-	-	-	-	-	-	-	2,641	2,641	-	85	85
Netherlands Antilles	-	-	-	-	64	-	-	64	64	-	2	2
Norway	-	-	-	-	-	-	-	116	2,215	68	4	71
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	1,052	1,052	-	34	34
Russia	-	-	-	-	-	16	-	2,475	2,475	-	80	80
Spain	-	-	-	-	-	-	-	2,292	2,292	-	74	74
Sweden	-	-	-	-	-	-	-	410	410	-	13	13
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	553	553	-	18	18
United Kingdom	-	-	-	-	-	-	-	1,922	1,922	-	62	62
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	3	0	0	0	-	2,108	2,365	9	69	78
Total	-	-	79	1	546	179	-	29,011	62,142	1,069	936	2,005
Persian Gulf³	-	-	-	-	-	-	-	1	3,680	119	0	119

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,465	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	1,465	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	67,710	2	2,573	-	-	-	-	-	3	3
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	67,710	2	2,573	-	-	-	-	-	3	3
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
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	69,175	2	2,573	-	-	-	-	-	3	3
Persian Gulf³	1,465	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	99	-	-	63	-	-	-	63
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	99	-	-	63	-	-	-	63
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
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
Total	-	-	-	99	-	-	63	-	-	-	63
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	5	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	37	-	125	9	134
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	37	-	125	9	134
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
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	-	-	-	5	37	-	125	9	134
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	-	-	-	-	5	1,470	47	0	47
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	5	5	-	0	0
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	1,465	47	-	47
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	86	75	4	23	312	203	-	3,633	71,343	2,184	117	2,301
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	86	75	4	22	312	203	-	3,632	71,342	2,184	117	2,301
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	1	-	-	-	1	1	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	0	0	0
Total	86	75	4	23	312	203	-	3,638	72,813	2,231	117	2,349
Persian Gulf³	-	-	-	-	-	-	-	-	1,465	47	-	47

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	61,701	-	-	1,258	-	-	-	-	-	-
Algeria	-	-	-	1,258	-	-	-	-	-	-
Angola	473	-	-	-	-	-	-	-	-	-
Ecuador	1,612	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	12,659	-	-	-	-	-	-	-	-	-
Kuwait	2,528	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	497	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	23,471	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	20,461	-	-	-	-	-	-	-	-	-
Non-OPEC	34,740	-	77	8,856	-	-	-	638	1,773	2,411
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	307	-	-	-	-	32	32
Brazil	3,848	-	-	-	-	-	-	-	378	378
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	10,157	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	228	228
Colombia	4,038	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	37	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	30	30
France	-	-	-	341	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	391	391
Italy	-	-	45	96	-	-	-	-	29	29
Korea, South	-	-	-	-	-	-	-	-	55	55
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	315	315
Mexico	16,697	-	32	-	-	-	-	-	315	315
Netherlands	-	-	-	225	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	7,249	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	579	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	638	-	638
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	22	-	-	-	0	0	0
Total	96,441	-	77	10,114	-	-	-	638	1,773	2,411
Persian Gulf³	38,658	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	238	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	238	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	230	44	-	647	-	-	-	-	-	-	-
Argentina	50	-	-	647	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	79	-	-	-	-	-	-	-	-	-	-
Brazil	79	44	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	17	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	5	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	-	-	-	-	-
Total	230	44	-	885	-	-	-	-	-	-	-
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	-	74	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	74	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	81	-	220	506	726
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	52	-	220	-	220
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	506	506
Netherlands	-	-	-	-	29	-	-	-	-
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	-	-	-	-	155	-	220	506	726
Persian Gulf³	-	-	-	-	74	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	320	—	—	—	—	357	—	2,247	63,948	1,990	72	2,063
Algeria	320	—	—	—	—	—	—	1,578	1,578	—	51	51
Angola	—	—	—	—	—	—	—	—	473	15	—	15
Ecuador	—	—	—	—	—	—	—	—	1,612	52	—	52
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	57	—	295	295	—	10	10
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	12,659	408	—	408
Kuwait	—	—	—	—	—	—	—	—	2,528	82	—	82
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	497	16	—	16
Qatar	—	—	—	—	—	300	—	300	300	—	10	10
Saudi Arabia	—	—	—	—	—	—	—	74	23,545	757	2	760
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	20,461	660	—	660
Non-OPEC	516	10	6	204	—	376	—	14,190	48,930	1,121	458	1,578
Argentina	—	—	—	112	—	1	—	810	810	—	26	26
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	69	—	69	69	—	2	2
Belgium	—	—	—	—	—	7	—	425	425	—	14	14
Brazil	—	—	—	—	—	—	—	773	4,621	124	25	149
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	10,157	328	—	328
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	228	228	—	7	7
Colombia	—	—	—	—	—	—	—	—	4,038	130	—	130
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	37	37	—	1	1
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	30	30	—	1	1
France	—	10	—	—	—	—	—	351	351	—	11	11
Germany	—	—	—	—	—	7	—	25	25	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	391	391	—	13	13
Italy	—	—	—	—	—	8	—	179	179	—	6	6
Korea, South	—	—	—	—	—	243	—	298	298	—	10	10
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	6	—	—	—	321	321	—	10	10
Mexico	345	—	—	—	—	—	—	1,198	17,895	539	39	577
Netherlands	18	—	—	—	—	—	—	277	277	—	9	9
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	92	—	—	—	92	92	—	3	3
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	7,249	7,249	—	234	234
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	579	579	—	19	19
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	111	—	—	—	—	39	—	788	788	—	25	25
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	42	0	0	0	—	2	—	70	70	0	2	2
Total	836	10	6	204	—	733	—	16,437	112,878	3,111	530	3,641
Persian Gulf³	—	—	—	—	—	369	—	443	39,101	1,247	14	1,261

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	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	9,471	-	321	-	-	-	-	-	6	6
Canada	9,471	-	321	-	-	-	-	-	6	6
Other	0	-	0	-	-	-	-	-	0	0
Total	9,471	-	321	-	-	-	-	-	6	6
PAD District 5										
OPEC	14,504	-	-	2,788	-	-	-	-	-	-
Algeria	-	-	-	2,788	-	-	-	-	-	-
Angola	962	-	-	-	-	-	-	-	-	-
Ecuador	4,487	-	-	-	-	-	-	-	-	-
Indonesia	652	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	2,069	-	-	-	-	-	-	-	-	-
Kuwait	2,239	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	4,095	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	13,105	-	1,042	5,339	-	167	167	-	614	614
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	59	-	-	-	-	-	-	-
Brazil	981	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	6,140	-	983	-	-	28	28	-	422	422
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,976	-	-	-	-	-	-	-	192	192
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Malaysia	298	-	-	608	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	370	-	39	39	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	305	-	-	-	-	-	-
Singapore	-	-	-	365	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	42	42	-	-	-
Vietnam	297	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	1,413	-	0	3,691	-	58	58	-	0	0
Total	27,609	-	1,042	8,127	-	167	167	-	614	614
Persian Gulf³	8,403	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	13	-	-	-	-	-	-	-
Canada	-	-	-	13	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	-	-	-	-	-
Total	-	-	-	13	-	-	-	-	-	-	-
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	61	413	-	46	-	1	-	47
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	4	-	-	46	-	1	-	47
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	57	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	413	-	0	-	0	-	0
Total	-	-	-	61	413	-	46	-	1	-	47
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	2	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	1	-	-	-	-	-
Canada	-	1	-	-	-	-	-	-	-
Other	-	0	-	1	-	-	-	-	-
Total	-	1	-	3	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	-	-	180	180
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	180	180
Indonesia	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	3,628	-	-	-	1,702	1,702
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	241	241
China	-	-	-	302	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Japan	-	-	-	946	-	-	-	-	-
Korea, South	-	-	-	2,380	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	340	340
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	415	415
Singapore	-	-	-	-	-	-	-	176	176
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	-	530	530
Total	-	-	-	3,628	-	-	-	1,882	1,882
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, October 2016
(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	-	-	-	-	-	-	-	2	2	-	0	0
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	44	-	2	388	9,859	306	13	318
Canada	-	-	-	-	44	-	2	387	9,858	306	12	318
Other	-	-	-	-	0	-	0	1	1	0	1	0
Total	-	-	-	-	44	-	2	390	9,861	306	13	318
PAD District 5												
OPEC	-	-	-	-	-	-	-	2,968	17,472	468	96	564
Algeria	-	-	-	-	-	-	-	2,788	2,788	-	90	90
Angola	-	-	-	-	-	-	-	-	962	31	-	31
Ecuador	-	-	-	-	-	-	-	180	4,667	145	6	151
Indonesia	-	-	-	-	-	-	-	-	652	21	-	21
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	2,069	67	-	67
Kuwait	-	-	-	-	-	-	-	-	2,239	72	-	72
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	4,095	132	-	132
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	61	26	13	30	-	13,143	26,248	423	424	847
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	59	59	-	2	2
Brazil	-	-	-	-	-	-	-	-	981	32	-	32
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	55	26	13	7	-	1,826	7,966	198	59	257
China	-	-	6	-	-	-	-	308	308	-	10	10
Colombia	-	-	-	-	-	-	-	192	4,168	128	6	134
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	946	946	-	31	31
Korea, South	-	-	-	-	-	23	-	2,460	2,460	-	79	79
Malaysia	-	-	-	-	-	-	-	608	906	10	20	29
Mexico	-	-	-	-	-	-	-	340	340	-	11	11
Netherlands	-	-	-	-	-	-	-	409	409	-	13	13
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	720	720	-	23	23
Singapore	-	-	-	-	-	-	-	954	954	-	31	31
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	42	42	-	1	1
Vietnam	-	-	-	-	-	-	-	-	297	10	-	10
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	0	0	-	4,279	5,692	45	138	184
Total	-	-	61	26	13	30	-	16,111	43,720	891	520	1,410
Persian Gulf ³	-	-	-	-	-	-	-	-	8,403	271	-	271

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-October 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	128,336	-	577	885	-	2	2	-	10,898	10,898
Algeria	6,449	-	577	885	-	-	-	-	-	-
Angola	22,751	-	-	-	-	-	-	-	323	323
Ecuador	-	-	-	-	-	-	-	-	521	521
Gabon	439	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	255	255
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	15,103	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	54,875	-	-	-	-	2	2	-	6,635	6,635
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	17,944	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	10,775	-	-	-	-	-	-	-	3,164	3,164
Non-OPEC	140,224	-	12,367	10,713	-	17,017	17,017	55,566	110,045	165,611
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	20	20
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	35	-	1,264	1,264	452	3,736	4,188
Brazil	4,931	-	-	-	-	258	258	-	1,500	1,500
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	73,562	-	11,656	108	-	8,779	8,779	26,892	11,085	37,977
Chad	8,561	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	243	243
Colombia	26,884	-	-	294	-	-	-	-	3,627	3,627
Congo (Brazzaville)	1,147	-	-	-	-	-	-	-	7	7
Denmark	-	-	-	73	-	-	-	110	77	187
Egypt	995	-	-	-	-	-	-	-	245	245
Equatorial Guinea	866	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	57	-	67	67	131	6,144	6,275
France	-	-	-	241	-	296	296	5,752	1,162	6,914
Germany	-	-	-	-	-	-	-	109	32	141
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	23	23	301	16,564	16,865
Italy	-	-	-	677	-	299	299	151	2,080	2,231
Korea, South	-	-	-	-	-	63	63	-	606	606
Latvia	-	-	-	-	-	-	-	-	317	317
Lithuania	-	-	-	-	-	20	20	-	614	614
Malaysia	-	-	-	-	-	-	-	-	26	26
Mexico	4,548	-	-	-	-	-	-	-	601	601
Netherlands	-	-	-	86	-	1,596	1,596	3,665	5,022	8,687
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	11,713	-	43	-	-	335	335	89	8,080	8,169
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	820	820	2,669	4,020	6,689
Russia	-	-	-	6,569	-	1	1	462	13,370	13,832
Spain	-	-	-	125	-	611	611	-	12,452	12,452
Sweden	-	-	668	268	-	308	308	98	545	643
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	313	313	-	1,640	1,640
United Kingdom	1,370	-	-	1,382	-	1,552	1,552	14,671	10,575	25,246
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	21	21
Yemen	-	-	-	-	-	-	-	-	-	-
Other	5,208	-	0	798	-	412	412	14	5,634	5,648
Total	268,560	-	12,944	11,598	-	17,019	17,019	55,566	120,943	176,509
Persian Gulf³	33,047	-	-	-	-	-	-	-	-	-

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-October 2016
(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	-	-	-	555	-	-	325	-	328	-	653
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	555	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	325	-	328	-	653
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	12	5,097	544	-	24,192	886	9,793	393	35,264
Argentina	-	-	-	4,167	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	270	-	-	-	270
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	12	731	-	-	19,261	585	8,953	100	28,899
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	73	-	374
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	199	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	717	-	-	293	1,010
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	400	-	-	-	400
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	350	-	-	-	350
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	195	-	-	-	195
Russia	-	-	-	-	-	-	2,739	-	-	-	2,739
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	286	-	286
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	481	-	481
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	544	-	260	301	0	0	260
Total	-	-	12	5,652	544	-	24,517	886	10,121	393	35,917
Persian Gulf³	-	-	-	-	-	-	325	-	328	-	653

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-October 2016
(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	—	—	—	3,676	—	1,244	374	304	1,922
Algeria	—	—	—	—	—	1,244	—	—	1,244
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	156	—	156
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	90	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	374	—	374
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	228	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	3,358	—	—	—	304	304
Non-OPEC	563	9	—	14,404	—	445	3,004	18,349	21,798
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	78	78
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	348	179	527
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	242	—	—	242
Canada	—	9	—	3,126	—	—	1,580	7,173	8,753
Chad	—	—	—	—	—	—	—	—	—
China	267	—	—	842	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	4,552	4,552
Congo (Brazzaville)	—	—	—	—	—	—	477	—	477
Denmark	—	—	—	—	—	—	—	4	4
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	37	—	37
France	—	—	—	—	—	—	6	—	6
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	6,004	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	3,956	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	58	605	663
Netherlands	—	—	—	—	—	—	—	1,577	1,577
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	342	1,068	1,410
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	266	266
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	2,614	2,614
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	296	0	—	476	—	203	0	233	436
Total	563	9	—	18,080	—	1,689	3,378	18,653	23,720
Persian Gulf³	—	—	—	318	—	—	—	—	—

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-October 2016
(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	—	—	—	1,499	1,836	68	—	22,572	150,908	421	74	495
Algeria	—	—	—	—	—	—	—	2,706	9,155	21	9	30
Angola	—	—	—	—	—	—	—	323	23,074	75	1	76
Ecuador	—	—	—	—	—	—	—	521	521	—	2	2
Gabon	—	—	—	—	—	—	—	156	—	1	1	—
Indonesia	—	—	1	—	—	—	—	811	811	—	3	3
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	15,103	50	—	50
Kuwait	—	—	—	—	—	—	—	90	90	—	0	0
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	7,011	61,886	180	23	203
Qatar	—	—	—	—	—	68	—	721	721	—	2	2
Saudi Arabia	—	—	—	—	—	—	—	228	18,172	59	1	60
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	1,499	1,836	—	—	10,161	20,936	35	33	69
Non-OPEC	23	13	734	204	5,951	1,909	—	292,239	432,463	460	958	1,418
Argentina	—	—	—	—	—	5	—	4,172	4,172	—	14	14
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	98	98	—	0	0
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	1	—	—	—	—	53	—	5,811	5,811	—	19	19
Brazil	—	—	40	—	—	24	—	2,349	7,280	16	8	24
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	242	242	—	1	1
Canada	16	13	418	12	5,286	1,215	—	107,010	180,572	241	351	592
Chad	—	—	—	—	—	—	—	—	8,561	28	—	28
China	—	—	153	—	—	—	—	1,505	1,505	—	5	5
Colombia	—	—	—	192	64	—	—	9,103	35,987	88	30	118
Congo (Brazzaville)	—	—	—	—	—	—	—	484	1,631	4	2	5
Denmark	—	—	—	—	—	—	—	264	264	—	1	1
Egypt	—	—	—	—	—	—	—	245	1,240	3	1	4
Equatorial Guinea	—	—	—	—	—	—	—	—	866	3	—	3
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	6,436	6,436	—	21	21
France	—	—	—	—	—	68	—	7,525	7,525	—	25	25
Germany	—	—	20	—	—	64	—	424	424	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	23,902	23,902	—	78	78
Italy	—	—	—	—	—	23	—	3,230	3,230	—	11	11
Korea, South	—	—	—	—	—	105	—	5,130	5,130	—	17	17
Latvia	—	—	—	—	—	—	—	317	317	—	1	1
Lithuania	—	—	—	—	—	—	—	634	634	—	2	2
Malaysia	—	—	3	—	—	—	—	29	29	—	0	0
Mexico	—	—	—	—	—	—	—	1,264	5,812	15	4	19
Netherlands	6	—	1	—	—	—	—	12,303	12,303	—	40	40
Netherlands Antilles	—	—	—	—	64	—	—	64	64	—	0	0
Norway	—	—	—	—	—	—	—	8,547	20,260	38	28	66
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	7,704	7,704	—	25	25
Russia	—	—	—	—	—	331	—	24,888	24,888	—	82	82
Spain	—	—	—	—	307	19	—	13,514	13,514	—	44	44
Sweden	—	—	—	—	—	—	—	2,439	2,439	—	8	8
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	5,048	5,048	—	17	17
United Kingdom	—	—	—	—	—	—	—	28,180	29,550	4	92	97
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	21	21	—	0	0
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	99	0	230	2	—	9,201	15,004	19	29	50
Total	23	13	735	1,703	7,787	1,977	—	314,811	583,371	881	1,032	1,913
Persian Gulf³	—	—	—	—	—	68	—	1,039	34,086	108	3	112

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-October 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	12,134	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	12,134	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	650,443	322	23,385	-	-	65	65	-	1,765	1,765
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	649,933	322	23,385	-	-	65	65	-	1,765	1,765
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	510	-	-	-	-	-	-	-	-	-
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
Total	662,577	322	23,385	-	-	65	65	-	1,765	1,765
Persian Gulf³	12,134	-	-	-	-	-	-	-	-	-

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-October 2016
(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	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	537	-	-	389	-	163	122	674
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	537	-	-	389	-	163	122	674
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	537	-	-	389	-	163	122	674
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-October 2016
(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	-	-	-	5	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	1	2	-	-	492	-	589	425	1,014
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	1	2	-	-	492	-	589	425	1,014
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
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	0
Total	1	2	-	5	492	-	589	425	1,014
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-October 2016
(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	-	-	-	-	-	3	-	8	12,142	40	0	40
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	5	5	-	0	0
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	3	-	3	3	-	0	0
Saudi Arabia	-	-	-	-	-	-	-	-	12,134	40	-	40
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	826	650	54	166	2,254	2,111	-	34,411	684,854	2,133	113	2,245
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	826	650	54	162	2,254	2,104	-	34,400	684,333	2,131	113	2,244
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	7	-	7	7	-	0	0
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	510	2	-	2
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	4	-	-	-	4	4	-	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	-1
Total	826	650	54	166	2,254	2,114	-	34,419	696,996	2,172	113	2,285
Persian Gulf³	-	-	-	-	-	3	-	3	12,137	40	0	40

- = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-October 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	604,965	-	-	37,008	-	-	-	-	2,351	2,351
Algeria	4,711	-	-	30,656	-	-	-	-	515	515
Angola	18,287	-	-	2,660	-	-	-	-	-	-
Ecuador	11,904	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	397	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	94,201	-	-	323	-	-	-	-	-	-
Kuwait	39,802	-	-	-	-	-	-	-	-	-
Libya	-	-	-	966	-	-	-	-	-	-
Nigeria	8,617	-	-	-	-	-	-	-	567	567
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	213,366	-	-	1,351	-	-	-	-	-	-
United Arab Emirates	-	-	-	531	-	-	-	-	-	-
Venezuela	214,077	-	-	521	-	-	-	-	1,269	1,269
Non-OPEC	416,811	2,878	251	108,018	-	808	808	638	11,194	11,832
Argentina	1,136	-	-	166	-	-	-	-	219	219
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	656	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	12,407	-	-	-	-	358	358
Brazil	30,381	-	-	296	-	65	65	-	849	849
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	525	-	-	-	-	-	-
Canada	105,207	-	-	921	-	569	569	-	498	498
Chad	12,931	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	96	96	-	300	300
Colombia	75,919	-	-	990	-	-	-	-	602	602
Congo (Brazzaville)	-	-	-	45	-	-	-	-	-	-
Denmark	627	-	-	37	-	-	-	-	-	-
Egypt	2,314	-	-	199	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	30	30
France	-	-	-	4,031	-	-	-	-	25	25
Germany	-	-	-	450	-	-	-	-	-	-
Guatemala	2,156	-	-	-	-	-	-	-	-	-
India	-	-	-	753	-	-	-	-	830	830
Italy	-	-	45	1,106	-	-	-	-	279	279
Korea, South	-	-	-	214	-	4	4	-	82	82
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	315	315
Mexico	173,394	1,960	163	497	-	-	-	-	3,756	3,756
Netherlands	-	-	43	1,621	-	57	57	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	1,224	-	-	3,532	-	-	-	-	194	194
Oman	-	-	-	-	-	-	-	-	36	36
Portugal	-	-	-	-	-	-	-	-	286	286
Russia	2,545	-	-	74,954	-	-	-	-	537	537
Spain	-	-	-	369	-	17	17	-	790	790
Sweden	-	-	-	807	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	2,204	-	-	-	-	-	-	-	-	-
United Kingdom	4,364	-	-	104	-	-	-	638	520	1,158
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	1,753	918	0	3,597	-	0	0	0	688	688
Total	1,021,776	2,878	251	145,026	-	808	808	638	13,545	14,183
Persian Gulf³	347,369	-	-	2,205	-	-	-	-	-	-

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-October 2016
(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	262	—	—	1,145	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	1,145	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	262	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	2,216	790	94	3,463	—	—	216	313	1,879	488	2,896
Argentina	134	—	—	3,378	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	45	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	259	—	—	—	—	—	—	—	—	—	—
Brazil	637	790	94	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	162
Canada	—	—	—	40	—	—	—	—	300	—	300
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	83	—	83
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	50	—	50
Germany	129	—	—	—	—	—	—	—	102	—	113
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	220
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	220	—	220
Netherlands	787	—	—	—	—	—	—	—	24	—	139
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	270	—	—	—	—	—	216	—	492	—	708
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	388	—	588
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	—	—	0	313	220	488	313
Total	2,478	790	94	4,608	—	—	216	313	1,879	488	2,896
Persian Gulf³	262	—	—	—	—	—	—	—	—	—	—

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-October 2016
(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	-	-	-	-	456	12	1,064	4,676	5,752
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	342	670
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	292	-	292
Nigeria	-	-	-	-	-	12	309	-	321
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	456	-	5	155	160
United Arab Emirates	-	-	-	-	-	-	-	1	1
Venezuela	-	-	-	-	-	-	130	4,178	4,308
Non-OPEC	-	-	-	-	3,274	1,200	2,953	12,339	16,492
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	40	-	143	183
Brazil	-	-	-	-	92	-	689	-	689
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	786	126	137	-	263
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	256	1,253	1,509
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	14	14
Egypt	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	6	6
France	-	-	-	-	-	-	176	58	234
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	42	-	-	295	295
Korea, South	-	-	-	-	1,305	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	5,204	5,204
Netherlands	-	-	-	-	29	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	340	225	-	565
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	378	441	4,099	4,918
Spain	-	-	-	-	-	-	-	362	362
Sweden	-	-	-	-	-	-	-	141	141
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	349	349
United Kingdom	-	-	-	-	-	-	-	62	62
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	1,020	316	1,029	353	1,698
Total	-	-	-	-	3,730	1,212	4,017	17,015	22,244
Persian Gulf³	-	-	-	-	456	-	333	498	831

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-October 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	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	81,486	-	3,068	-	-	-	-	-	620	620
Canada	81,486	-	3,068	-	-	-	-	-	620	620
Other	0	-	0	-	-	-	-	-	0	0
Total	81,486	-	3,068	-	-	-	-	-	620	620
PAD District 5										
OPEC	219,218	-	-	6,225	-	-	-	5	-	5
Algeria	-	-	-	5,914	-	-	-	-	-	-
Angola	9,098	-	-	-	-	-	-	-	-	-
Ecuador	60,124	-	-	-	-	-	-	-	-	-
Indonesia	12,312	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	13,020	-	-	-	-	-	-	-	-	-
Kuwait	21,927	-	-	-	-	-	-	-	-	-
Libya	2,461	-	-	311	-	-	-	-	-	-
Nigeria	280	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	96,712	-	-	-	-	-	-	-	-	-
United Arab Emirates	2,938	-	-	-	-	-	-	-	-	-
Venezuela	346	-	-	-	-	-	-	-	-	5
Non-OPEC	144,230	-	4,621	18,199	-	975	975	722	8,422	9,144
Argentina	2,396	-	170	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	817	-	59	-	-	-	-	-	-	-
Brazil	9,224	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	68,133	-	4,015	267	-	667	667	-	4,226	4,226
China	-	-	-	-	-	-	-	-	-	-
Colombia	38,246	-	-	-	-	-	-	-	192	192
Finland	-	-	-	133	-	-	-	-	-	-
Germany	-	-	-	333	-	-	-	4	-	4
Japan	-	-	-	210	-	-	-	-	300	300
Korea, South	-	-	119	-	-	169	169	-	816	816
Malaysia	1,657	-	-	2,114	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	314	-	-	899	-	39	39	45	229	274
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	9,936	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	468	-	120	305	-	-	-	-	-	-
Singapore	-	-	-	602	-	-	-	239	97	336
Sweden	-	-	-	46	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	430	430
United Kingdom	-	-	-	422	-	42	42	168	303	471
Vietnam	1,403	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	11,636	-	138	12,868	-	58	58	266	1,829	2,095
Total	363,448	-	4,621	24,424	-	975	975	727	8,422	9,149
Persian Gulf³	134,597	-	-	-	-	-	-	-	-	-

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-October 2016
(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	-	-	-	132	-	-	41	-	-	-	41
Canada	-	-	-	132	-	-	41	-	-	-	41
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	132	-	-	41	-	-	-	41
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	756	716	3,692	-	4,446	54	215	-	4,715
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	756	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	346	-	-	2,286	-	67	-	2,353
China	-	-	-	-	-	-	412	-	-	-	412
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	980	-	-	-	980
Korea, South	-	-	-	370	-	-	768	54	-	-	822
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	148	-	148
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	3,692	-	0	0	0	-	0
Total	-	-	756	716	3,692	-	4,446	54	215	-	4,715
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-October 2016
(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	-	-	-	10	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	8	-	4	-	-	-	-	-
Canada	-	8	-	-	-	-	-	-	-
Other	-	0	-	4	-	-	-	-	-
Total	-	8	-	14	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	49	-	-	329	180	509
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	180	180
Indonesia	-	-	-	49	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	329
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	61	-	26,911	-	-	265	20,600	20,865
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	-	-	40	-	-	40	1,869	1,909
China	-	-	-	3,697	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Japan	-	-	-	3,189	-	-	-	-	-
Korea, South	-	-	-	19,259	-	-	-	-	-
Malaysia	-	-	-	72	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	9,527	9,527
Netherlands	-	61	-	-	-	-	-	1,039	1,039
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	635	635
Singapore	-	-	-	-	-	-	-	176	176
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	634	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	20	-	-	225	7,354	7,579
Total	-	61	-	26,960	-	-	594	20,780	21,374
Persian Gulf ³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, October 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	5,802	1,777	7,609	28	-	15,216	491
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	2,181	6,806	27,691	36	1,022	37,735	1,217
Pentanes Plus	79	4,334	48	32	20	4,514	146
Liquefied Petroleum Gases	2,102	2,471	27,643	3	1,001	33,221	1,072
Ethane/Ethylene	481	2,172	157	-	-	2,810	91
Propane/Propylene	1,599	119	24,114	-	877	26,709	862
Normal Butane/Butylene	22	180	3,093	3	124	3,423	110
Isobutane/Isobutylene	1	-	279	-	0	279	9
Other Liquids	2,456	1,539	11,408	29	1,011	16,442	530
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	106	738	3,917	12	349	5,123	165
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	1	0	1,890	0	2	1,893	61
Methyl Tertiary Butyl Ether (MTBE)	0	0	1,216	-	0	1,216	39
Other Oxygenates	1	0	674	0	2	677	22
Renewable Fuels (including Fuel Ethanol) ...	105	738	2,028	12	347	3,230	104
Fuel Ethanol	82	716	1,986	12	339	3,135	101
Biomass-Based Diesel	22	22	42	-	9	95	3
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	2,115	123	4,774	17	70	7,099	229
Naphthas and Lighter	1,781	117	3,969	17	66	5,950	192
Kerosene and Light Gas Oils	335	5	805	0	4	1,149	37
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	234	678	2,716	-	592	4,220	136
Reformulated	0	0	1	-	0	1	0
Conventional	234	678	2,715	-	592	4,219	136
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	3,690	1,874	69,805	46	8,400	83,814	2,704
Finished Motor Gasoline	40	43	19,141	-	1,317	20,541	663
Reformulated	-	-	-	-	-	-	-
Conventional	40	43	19,141	-	1,317	20,541	663
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	12	350	3,313	-	659	4,333	140
Kerosene	3	0	290	-	3	297	10
Distillate Fuel Oil	1,209	402	26,516	-	2,472	30,599	987
15 ppm sulfur and under	1,011	0	21,633	-	1,991	24,636	795
Greater than 15 ppm to 500 ppm sulfur	198	297	2,312	-	206	3,013	97
Greater than 500 ppm sulfur	-	104	2,571	-	274	2,950	95
Residual Fuel Oil	1,570	215	5,485	19	655	7,944	256
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	172	214	2,041	12	151	2,589	84
Waxes	65	23	11	0	7	105	3
Petroleum Coke	523	491	12,732	0	3,103	16,849	544
Asphalt and Road Oil	79	137	274	15	34	539	17
Miscellaneous Products	16	-	2	0	1	19	1
Total	14,129	11,995	116,512	138	10,433	153,208	4,942

- = 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-October 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	49,596	19,895	83,369	2,475	3,311	158,644	520
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	21,344	86,006	235,712	1,402	12,118	356,583	1,169
Pentanes Plus	952	59,518	643	961	140	62,215	204
Liquefied Petroleum Gases	20,392	26,488	235,069	441	11,978	294,368	965
Ethane/Ethylene	6,170	20,836	681	-	-	27,687	91
Propane/Propylene	12,675	2,157	210,352	22	8,055	233,261	765
Normal Butane/Butylene	1,537	3,493	22,133	419	3,923	31,505	103
Isobutane/Isobutylene	9	2	1,903	-	0	1,914	6
Other Liquids	18,653	8,783	120,172	468	6,272	154,348	506
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	1,281	5,507	35,453	95	1,308	43,644	143
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	17	3	22,075	0	15	22,111	72
Methyl Tertiary Butyl Ether (MTBE)	1	0	13,469	-	0	13,471	44
Other Oxygenates	16	3	8,606	0	15	8,640	28
Renewable Fuels (including Fuel Ethanol) ...	1,264	5,503	13,378	95	1,293	21,533	71
Fuel Ethanol	1,236	4,382	12,994	14	1,047	19,673	65
Biomass-Based Diesel	28	1,121	384	81	246	1,860	6
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	15,562	1,501	50,295	365	946	68,668	225
Naphthas and Lighter	13,029	1,439	35,633	364	909	51,374	168
Kerosene and Light Gas Oils	2,533	62	14,662	1	37	17,294	57
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	1,810	1,776	34,425	8	4,018	42,036	138
Reformulated	5	1	38	-	2	46	0
Conventional	1,805	1,776	34,386	8	4,015	41,990	138
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	43,231	18,187	736,253	670	99,780	898,121	2,945
Finished Motor Gasoline	810	3,126	158,572	10	14,921	177,439	582
Reformulated	-	-	-	-	-	-	-
Conventional	810	3,126	158,572	10	14,921	177,439	582
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	401	3,895	41,268	0	6,943	52,507	172
Kerosene	324	254	2,414	-	22	3,015	10
Distillate Fuel Oil	22,105	2,395	310,245	35	28,666	363,445	1,192
15 ppm sulfur and under	17,802	687	269,448	0	19,182	307,119	1,007
Greater than 15 ppm to 500 ppm sulfur	3,536	1,273	26,435	35	3,778	35,056	115
Greater than 500 ppm sulfur	767	435	14,362	-	5,706	21,270	70
Residual Fuel Oil	9,966	2,570	66,357	449	9,782	89,123	292
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	2,002	1,746	17,847	105	2,090	23,791	78
Waxes	518	302	143	2	71	1,036	3
Petroleum Coke	6,140	2,592	135,293	2	36,868	180,895	593
Asphalt and Road Oil	828	1,304	3,858	67	408	6,465	21
Miscellaneous Products	137	3	256	0	10	406	1
Total	132,824	132,871	1,175,506	5,015	121,481	1,567,696	5,140

- = 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, October 2016
(Thousand Barrels)

Destination	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	—	—	87	—	94	94	—	—	—
Australia	—	0	0	2	—	1	1	—	0	0
Bahamas	—	0	26	—	—	1	1	—	0	0
Bahrain	—	—	—	—	—	0	0	—	—	—
Belgium	—	0	25	0	—	—	—	—	0	0
Belize	—	—	—	—	—	—	—	—	0	0
Brazil	—	1	1,101	285	—	655	655	—	—	—
Canada	9,710	4,461	2,574	1,919	—	546	546	0	1,605	1,605
Cayman Islands	—	—	—	—	—	32	32	—	—	—
Chile	—	0	549	116	—	960	960	—	0	0
China	542	3	5,245	655	—	4	4	—	190	190
Colombia	499	0	0	1,347	—	295	295	—	—	—
Costa Rica	—	0	124	2	—	415	415	—	100	100
Denmark	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	1	695	20	—	451	451	—	0	0
Ecuador	—	—	652	8	—	776	776	—	8	8
Egypt	—	—	—	—	—	—	—	—	—	—
El Salvador	—	0	438	0	—	397	397	—	0	0
Finland	—	—	—	0	—	—	—	—	—	—
France	—	9	1,603	717	—	—	—	—	—	—
Germany	—	—	—	3	—	—	—	—	—	—
Ghana	—	—	398	—	—	—	—	—	—	—
Gibraltar	—	—	550	—	—	—	—	—	300	300
Greece	—	—	—	0	—	—	—	—	—	—
Guatemala	—	3	—	5	—	537	537	—	17	17
Honduras	—	0	168	0	—	250	250	—	29	29
Hong Kong	—	0	—	1	—	—	—	—	—	—
India	—	1	0	0	—	—	—	—	—	—
Indonesia	—	—	0	17	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—
Israel	—	—	0	1	—	0	0	—	—	—
Italy	674	—	—	4	—	0	0	—	—	—
Jamaica	—	0	41	—	—	2	2	—	—	—
Japan	307	0	4,594	3	—	0	0	—	—	—
Korea, South	873	—	2,063	22	—	0	0	0	—	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	19	3,806	316	—	12,077	12,077	1	1,692	1,693
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	85	6	—	—	—	—	—	—
Mozambique	—	—	142	—	—	—	—	—	—	—
Netherlands	1,447	12	599	621	—	280	280	—	71	71
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	0	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	0	—	1	1	—	—	—
Norway	—	—	4	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	—	—	473	0	—	631	631	—	—	—
Peru	418	—	—	218	—	557	557	—	52	52
Philippines	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	1	1	—	3	3	0	1	1
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	—	5	—	497	497	—	0	0
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	1,741	30	—	0	0	—	—	—
South Africa	592	—	—	0	—	—	—	—	—	—
Spain	—	—	928	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—	—	—
Taiwan	—	2	579	—	—	—	—	—	—	—
Thailand	153	—	—	0	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	0	—	0	0	—	—	—
Turkey	—	—	1,084	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	0	—	501	501	—	—	—
United Kingdom	—	—	954	0	—	0	0	—	—	—
Venezuela	—	0	—	383	—	444	444	—	150	150
Other	1	2	1,979	305	—	134	134	—	4	4
Total	15,216	4,514	33,221	7,099	—	20,541	20,541	1	4,219	4,220

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, October 2016
(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	—	—	—	—	—	—	362	—	—	—	362
Australia	—	0	0	—	—	—	0	—	—	—	0
Bahamas	—	1	0	—	—	—	1	—	195	—	196
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	0	—	—	—	277	393	—	—	670
Belize	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	0	1,016	0	—	—	3,250	195	136	—	3,580
Canada	—	0	834	31	—	—	0	923	167	—	1,091
Cayman Islands	—	—	0	—	—	—	17	—	—	—	17
Chile	200	—	0	—	—	—	1,869	—	—	—	1,869
China	0	0	252	0	—	—	3	—	—	—	3
Colombia	—	0	0	—	—	—	1,619	—	—	—	1,619
Costa Rica	22	0	0	—	—	—	595	—	—	—	595
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	0	—	—	—	240	—	362	—	602
Ecuador	—	0	—	—	—	—	1,056	—	255	—	1,311
Egypt	—	—	—	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	—	147	—	—	147
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	0	—	—	—	—	575	—	—	—	575
Germany	—	0	—	—	—	—	0	—	—	—	0
Ghana	—	—	0	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	340	—	—	—	340
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	0	—	—	—	—	349	313	—	—	662
Honduras	—	—	—	—	—	—	382	—	0	—	382
Hong Kong	—	0	0	—	—	—	—	—	—	—	—
India	0	0	393	—	—	—	0	—	—	—	0
Indonesia	—	0	—	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—	—
Israel	0	0	—	—	—	—	—	—	—	—	—
Italy	—	—	0	—	—	—	98	—	—	—	98
Jamaica	—	—	41	—	—	—	98	—	40	—	138
Japan	—	674	1	—	—	—	2	—	—	—	2
Korea, South	—	0	74	1	—	—	1	—	—	—	1
Lebanon	—	—	—	—	—	—	—	—	—	—	—
Mexico	880	1	91	26	—	—	6,599	243	13	—	6,854
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	0	22	—	—	1,630	40	1,101	—	2,772
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—	—	—	—
Nicaragua	—	—	0	0	—	—	—	—	—	—	—
Nigeria	—	—	82	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	1	—	—	—	1
Pakistan	—	0	—	—	—	—	—	—	—	—	—
Panama	—	—	—	—	—	—	1,053	677	—	—	1,730
Peru	—	0	114	14	—	—	1,465	—	—	—	1,465
Philippines	—	0	151	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	1	—	—	—	0	—	—	—	0
Romania	—	—	—	—	—	—	260	—	—	—	260
Saudi Arabia	0	—	58	—	—	—	0	—	—	—	0
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	1	23	0	—	—	0	—	126	—	126
South Africa	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	0	—	—	—	0
Switzerland	—	—	—	2	—	—	461	—	—	—	461
Taiwan	0	0	0	—	—	—	—	—	—	—	—
Thailand	—	0	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	0	—	—	—	—	—	—	—	—
Turkey	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	0	—	—	—	—	—	0	—	0
United Kingdom	—	0	—	—	—	—	284	—	—	—	284
Venezuela	99	—	—	—	—	—	787	—	—	—	787
Other	15	—	4	0	—	—	962	82	555	—	1,599
Total	1,216	677	3,135	95	—	—	24,636	3,013	2,950	—	30,599

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, October 2016
(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	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	0	—	—	2	—	906	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	—	—
Brazil	—	—	—	1	—	—	—	—
Canada	293	—	—	1,007	—	882	—	—
Cayman Islands	—	—	—	—	—	—	—	—
Chile	0	—	—	149	—	—	—	—
China	0	—	—	1	—	0	—	—
Colombia	—	—	—	100	—	—	—	—
Costa Rica	0	—	—	80	—	—	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	0	—	—	102	—	—	—	—
Ecuador	—	—	—	—	—	211	—	—
Egypt	—	—	—	—	—	548	—	—
El Salvador	—	—	—	10	—	200	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	1	—	—	—	—
Gibraltar	—	—	—	—	—	436	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	—	—	—	184	—	147	—	—
Honduras	0	—	—	32	—	489	—	—
Hong Kong	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	333	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	—	—	—	—	—
Japan	—	—	—	1	—	0	—	—
Korea, South	0	—	—	—	—	0	—	—
Lebanon	—	—	—	—	—	808	—	—
Mexico	0	—	—	951	—	598	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	0	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	0	—	—	—	—	432	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	0	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	1	—	—	485	—	150	—	—
Peru	0	—	—	416	—	—	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	—	—	—	—	—	—	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	0	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	0	—	1,232	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	0	—	0	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	—	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	—	—	—
United Kingdom	—	—	—	315	—	400	—	—
Venezuela	—	—	—	—	—	—	—	—
Other	2	—	—	163	—	505	—	—
Total	297	—	—	4,333	—	7,944	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, October 2016
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	0	0	0	50	0	594	594	—	19	19
Australia	1	144	0	8	1	157	157	—	5	5
Bahamas	—	—	1	4	—	1,137	1,137	—	37	37
Bahrain	—	—	—	1	—	1	1	—	0	0
Belgium	0	132	—	272	1	1,100	1,100	—	35	35
Belize	—	—	—	2	—	2	2	—	0	0
Brazil	0	1,320	0	218	1	8,178	8,178	—	264	264
Canada	78	1,164	231	307	4	17,026	26,736	313	549	862
Cayman Islands	—	—	0	2	—	52	52	—	2	2
Chile	0	83	68	74	—	4,069	4,069	—	131	131
China	5	1,149	3	64	1	7,574	8,117	17	244	262
Colombia	0	—	0	116	0	3,479	3,978	16	112	128
Costa Rica	0	201	0	21	—	1,561	1,561	—	50	50
Denmark	—	—	—	0	—	0	0	—	0	0
Dominican Republic	0	391	—	31	0	2,293	2,293	—	74	74
Ecuador	0	0	0	47	—	3,013	3,013	—	97	97
Egypt	—	500	—	36	—	1,084	1,084	—	35	35
El Salvador	—	—	—	10	—	1,203	1,203	—	39	39
Finland	—	—	—	0	—	1	1	—	0	0
France	0	25	—	59	0	2,988	2,988	—	96	96
Germany	1	0	2	107	—	113	113	—	4	4
Ghana	—	—	—	0	—	399	399	—	13	13
Gibraltar	—	—	—	—	—	1,626	1,626	—	52	52
Greece	0	—	—	0	—	0	0	—	0	0
Guatemala	0	—	—	24	—	1,579	1,579	—	51	51
Honduras	0	—	31	10	—	1,392	1,392	—	45	45
Hong Kong	0	—	—	2	0	4	4	—	0	0
India	1	3,696	2	21	0	4,114	4,114	—	133	133
Indonesia	0	0	2	2	0	20	20	—	1	1
Ireland	—	165	—	0	—	165	165	—	5	5
Israel	0	277	—	2	0	615	615	—	20	20
Italy	0	596	—	0	0	699	1,373	22	23	44
Jamaica	—	—	—	10	0	232	232	—	7	7
Japan	0	1,296	1	6	4	6,581	6,887	10	212	222
Korea, South	1	1	4	26	0	2,193	3,066	28	71	99
Lebanon	—	129	—	1	—	938	938	—	30	30
Mexico	11	1,530	186	483	2	29,525	29,525	—	952	952
Montenegro	—	—	—	—	0	0	0	—	0	0
Morocco	—	—	—	0	—	91	91	—	3	3
Mozambique	—	99	—	—	—	241	241	—	8	8
Netherlands	3	594	0	58	2	5,467	6,914	47	176	223
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	55	0	1	—	57	57	—	2	2
Nicaragua	—	—	—	4	—	4	4	—	0	0
Nigeria	—	—	0	2	—	85	85	—	3	3
Norway	0	97	0	1	—	103	103	—	3	3
Pakistan	0	303	—	0	—	303	303	—	10	10
Panama	—	—	—	12	—	3,481	3,481	—	112	112
Peru	0	165	0	100	—	3,101	3,519	13	100	114
Philippines	0	—	—	3	0	154	154	—	5	5
Portugal	—	—	—	—	—	—	—	—	—	—
Puerto Rico	0	—	0	13	—	21	21	—	1	1
Romania	—	—	—	0	—	260	260	—	8	8
Saudi Arabia	0	19	—	4	—	584	584	—	19	19
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	—	63	—	3,216	3,216	—	104	104
South Africa	—	99	—	86	—	185	777	19	6	25
Spain	0	818	—	1	—	1,747	1,747	—	56	56
Switzerland	0	—	—	0	—	463	463	—	15	15
Taiwan	0	—	0	4	0	586	586	—	19	19
Thailand	0	—	1	7	0	8	161	5	0	5
Trinidad and Tobago	—	—	—	6	—	6	6	—	0	0
Turkey	0	1,351	—	1	—	2,435	2,435	—	79	79
United Arab Emirates	0	1	—	5	—	508	508	—	16	16
United Kingdom	0	358	1	2	2	2,316	2,316	—	75	75
Venezuela	—	61	—	127	—	2,050	2,050	—	66	66
Other	4	30	6	73	1	4,813	4,814	1	157	157
Total	105	16,849	539	2,589	19	137,992	153,208	491	4,451	4,942

— = 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-October 2016
(Thousand Barrels)

Destination	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	279	0	462	459	—	913	913	—	124	124
Australia	—	3	2,111	6	—	7	7	—	0	0
Bahamas	1,501	1	415	276	—	1,104	1,104	0	5	5
Bahrain	—	—	—	0	—	2	2	—	—	—
Belgium	—	5	1,327	143	—	0	0	0	269	269
Belize	—	0	—	—	—	175	175	—	32	32
Brazil	193	17	13,587	3,442	—	6,293	6,293	—	20	20
Canada	93,566	61,334	28,000	14,849	—	8,799	8,799	1	8,078	8,079
Cayman Islands	—	0	603	0	—	212	212	—	0	0
Chile	—	0	7,767	1,146	—	2,012	2,012	0	174	174
China	4,029	8	34,374	2,091	—	356	356	0	503	504
Colombia	3,014	8	2	13,586	—	6,942	6,942	0	419	419
Costa Rica	—	1	1,294	187	—	3,693	3,693	0	2,223	2,224
Denmark	—	0	—	—	—	—	—	—	0	0
Dominican Republic	298	2	7,863	191	—	4,229	4,229	0	100	100
Ecuador	—	0	6,846	19	—	7,025	7,025	0	1,295	1,295
Egypt	—	—	0	0	—	—	—	—	—	—
El Salvador	—	1	2,422	3	—	3,517	3,517	0	54	54
Finland	—	—	—	0	—	0	0	—	—	—
France	2,375	123	4,496	4,023	—	1	1	26	251	277
Germany	—	0	—	33	—	2	2	0	1	1
Ghana	—	—	1,688	0	—	—	—	—	—	—
Gibraltar	—	—	550	—	—	—	—	—	300	300
Greece	—	—	1	15	—	1	1	—	—	—
Guatemala	—	14	3,959	119	—	9,300	9,300	0	467	467
Honduras	—	4	2,387	8	—	3,430	3,430	—	98	98
Hong Kong	—	0	7	5	—	8	8	—	0	0
India	—	1	1	104	—	—	—	—	0	0
Indonesia	—	0	550	37	—	—	—	—	0	0
Ireland	—	—	—	—	—	1	1	—	0	0
Israel	770	0	3	12	—	13	13	—	0	0
Italy	6,505	—	—	2,271	—	0	0	—	—	—
Jamaica	—	1	624	1	—	12	12	—	—	—
Japan	2,885	0	43,594	1,086	—	7	7	2	2	4
Korea, South	2,640	1	25,126	1,192	—	4	4	0	0	0
Lebanon	—	—	—	—	—	—	—	—	—	0
Mexico	—	290	33,461	2,821	—	93,288	93,288	12	24,350	24,362
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	2,735	52	—	0	0	—	—	—
Mozambique	—	—	693	—	—	—	—	—	—	—
Netherlands	11,925	348	19,773	6,055	—	2,320	2,320	—	1,310	1,310
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	3	0	—	1	1	1	—	1
Nicaragua	1,160	2	—	162	—	186	186	—	—	—
Nigeria	—	0	—	0	—	324	324	—	—	—
Norway	—	0	5,823	—	—	1	1	0	—	0
Pakistan	—	—	—	0	—	1	1	—	—	—
Panama	1,150	0	2,568	323	—	7,326	7,326	—	132	132
Peru	1,540	3	639	939	—	2,357	2,357	—	1,037	1,037
Philippines	—	—	—	4	—	0	0	—	0	0
Portugal	—	—	2,308	—	—	0	0	—	—	—
Puerto Rico	—	2	6	5	—	32	32	0	3	3
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	9	39	—	500	500	0	0	0
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	3,628	3	11,762	1,352	—	2,678	2,678	—	0	0
South Africa	1,003	—	122	0	—	0	0	—	—	—
Spain	1,631	0	4,414	2,105	—	1,031	1,031	—	0	0
Switzerland	1,738	0	1,088	920	—	—	—	—	—	—
Taiwan	—	16	579	21	—	0	0	—	0	0
Thailand	403	0	0	10	—	—	—	—	0	0
Trinidad and Tobago	—	2	0	37	—	1	1	—	0	0
Turkey	—	2	2,742	267	—	0	0	—	—	—
United Arab Emirates	—	1	0	3	—	940	940	—	0	0
United Kingdom	4,162	0	4,518	321	—	12	12	0	0	0
Venezuela	—	0	154	7,414	—	3,239	3,239	—	616	616
Other	12,249	22	10,912	514	—	5,144	5,144	4	127	129
Total	158,644	62,215	294,368	68,668	—	177,439	177,439	46	41,990	42,036

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-October 2016
(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	0	—	—	—	14,363	378	300	—	15,041
Australia	0	0	1	0	—	—	319	315	—	—	634
Bahamas	55	5	10	—	—	—	1,847	193	1,998	—	4,039
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	47	0	1	—	—	—	2,520	1,418	305	—	4,244
Belize	—	—	0	—	—	—	0	—	—	—	0
Brazil	0	0	4,135	0	—	—	32,012	1,839	913	—	34,765
Canada	—	3	4,935	1,512	—	—	3,343	5,915	1,544	—	10,802
Cayman Islands	34	—	0	—	—	—	553	—	—	—	553
Chile	2,102	0	10	0	—	—	28,059	1,853	—	—	29,911
China	45	1	3,794	0	—	—	9	0	—	—	9
Colombia	—	0	43	—	—	—	20,084	92	—	—	20,176
Costa Rica	22	0	1	—	—	—	6,889	—	0	—	6,889
Denmark	—	—	—	—	—	—	142	50	131	—	323
Dominican Republic	—	—	3	—	—	—	5,168	322	734	—	6,224
Ecuador	—	0	1	76	—	—	8,027	2,305	2,450	—	12,782
Egypt	—	—	1	—	—	—	0	—	—	—	0
El Salvador	—	—	0	—	—	—	258	1,580	464	—	2,302
Finland	—	—	—	—	—	—	—	—	—	—	—
France	11	2	0	—	—	—	17,540	—	—	—	17,540
Germany	0	0	1	—	—	—	1,328	—	—	—	1,328
Ghana	—	—	0	0	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	11,797	1,104	653	—	13,554
Greece	—	—	0	—	—	—	0	—	—	—	0
Guatemala	—	0	0	—	—	—	5,453	4,745	96	—	10,294
Honduras	—	—	—	—	—	—	1,790	2,507	60	—	4,357
Hong Kong	—	0	0	—	—	—	1	—	—	—	1
India	0	1	1,669	—	—	—	1	0	0	—	1
Indonesia	—	0	0	0	—	—	2	—	—	—	2
Ireland	0	0	2	—	—	—	—	—	—	—	—
Israel	0	0	1	—	—	—	174	—	—	—	174
Italy	—	0	0	—	—	—	1,273	—	—	—	1,273
Jamaica	—	—	338	—	—	—	1,361	—	379	—	1,740
Japan	—	8,604	4	—	—	—	4	—	—	—	4
Korea, South	33	1	763	1	—	—	486	—	—	—	486
Lebanon	—	0	1	—	—	—	0	—	—	—	0
Mexico	7,653	10	581	109	—	—	51,053	1,048	43	—	52,145
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	0	—	—	—	1,469	—	—	—	1,469
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	27	0	173	43	—	—	29,316	2,663	4,102	—	36,081
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	0	0	—	—	—	0	—	—	—	0
Nicaragua	—	—	0	4	—	—	375	—	0	—	375
Nigeria	—	0	330	0	—	—	—	—	—	—	—
Norway	—	0	30	—	—	—	889	308	—	—	1,196
Pakistan	—	0	—	—	—	—	—	—	—	—	—
Panama	—	0	0	—	—	—	10,131	3,431	503	—	14,065
Peru	—	0	737	111	—	—	17,902	—	—	—	17,902
Philippines	—	0	1,203	—	—	—	—	1	—	—	1
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	0	2	13	—	—	—	3	1	—	—	4
Romania	—	—	0	—	—	—	569	—	—	—	569
Saudi Arabia	0	0	97	—	—	—	0	—	—	—	0
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	6	221	0	—	—	1,221	88	1,727	—	3,036
South Africa	—	0	—	—	—	—	—	—	—	—	—
Spain	—	0	0	—	—	—	1,311	315	—	—	1,625
Switzerland	—	—	—	2	—	—	1,177	324	—	—	1,501
Taiwan	133	0	7	—	—	—	0	—	—	—	0
Thailand	—	0	—	—	—	—	0	—	—	—	0
Trinidad and Tobago	—	0	1	0	—	—	0	—	—	—	0
Turkey	—	0	0	—	—	—	0	—	—	—	0
United Arab Emirates	—	0	479	0	—	—	0	—	0	—	0
United Kingdom	—	1	10	—	—	—	13,784	350	—	—	14,134
Venezuela	3,203	—	—	—	—	—	3,652	—	275	—	3,927
Other	106	4	77	2	—	—	9,464	1,911	4,593	—	15,967
Total	13,471	8,640	19,673	1,860	—	—	307,119	35,056	21,270	—	363,445

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-October 2016
(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	4	—	—	917	—	0	—	—
Australia	0	—	—	0	—	0	—	—
Bahamas	0	—	—	791	—	3,478	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	0	—	—	—	—	309	—	—
Belize	0	—	—	—	—	—	—	—
Brazil	0	—	—	909	—	—	—	—
Canada	2,426	—	—	11,319	—	9,236	—	—
Cayman Islands	0	—	—	144	—	0	—	—
Chile	4	—	—	2,016	—	—	—	—
China	4	—	—	1	—	386	—	—
Colombia	2	—	—	647	—	0	—	—
Costa Rica	1	—	—	1,315	—	216	—	—
Denmark	—	—	—	660	—	173	—	—
Dominican Republic	13	—	—	1,184	—	563	—	—
Ecuador	—	—	—	25	—	1,931	—	—
Egypt	0	—	—	—	—	4,539	—	—
El Salvador	0	—	—	153	—	500	—	—
Finland	—	—	—	1,136	—	—	—	—
France	—	—	—	30	—	—	—	—
Germany	0	—	—	1	—	2	—	—
Ghana	—	—	—	1	—	—	—	—
Gibraltar	—	—	—	1,676	—	2,731	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	138	—	—	1,070	—	921	—	—
Honduras	1	—	—	592	—	3,620	—	—
Hong Kong	0	—	—	0	—	0	—	—
India	0	—	—	—	—	155	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	1,828	—	—	—	—
Italy	—	—	—	—	—	0	—	—
Jamaica	0	—	—	205	—	2,984	—	—
Japan	0	—	—	2	—	0	—	—
Korea, South	2	—	—	0	—	0	—	—
Lebanon	—	—	—	—	—	4,430	—	—
Mexico	95	—	—	9,653	—	9,038	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	0	—	917	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	3	—	—	2,021	—	7,676	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	0	—	—	—	—	0	—	—
Nicaragua	0	—	—	0	—	170	—	—
Nigeria	306	—	—	181	—	—	—	—
Norway	—	—	—	300	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	1	—	—	4,583	—	4,057	—	—
Peru	0	—	—	926	—	330	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	1	—	—	0	—	90	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	1	—	—	0	—	0	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	1	—	—	0	—	19,699	—	—
South Africa	1	—	—	10	—	331	—	—
Spain	—	—	—	550	—	664	—	—
Switzerland	—	—	—	0	—	—	—	—
Taiwan	—	—	—	0	—	0	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	1	—	0	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	2	—	—	0	—	2,312	—	—
United Kingdom	—	—	—	3,479	—	1,527	—	—
Venezuela	0	—	—	1	—	—	—	—
Other	8	—	—	4,180	—	6,138	—	—
Total	3,015	—	—	52,507	—	89,123	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-October 2016
(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	1	1	2	376	3	18,304	18,583	1	60	61
Australia	4	2,015	124	161	4	5,072	5,072	-	17	17
Bahamas	0	-	19	31	0	10,230	11,731	5	34	38
Bahrain	0	-	-	5	-	7	7	-	0	0
Belgium	7	1,432	1	2,694	3	10,481	10,481	-	34	34
Belize	0	-	43	12	-	263	263	-	1	1
Brazil	2	9,928	1	2,185	7	75,292	75,484	1	247	247
Canada	759	7,081	2,108	2,548	39	173,828	267,395	307	570	877
Cayman Islands	-	-	6	20	-	1,573	1,573	-	5	5
Chile	4	729	419	688	1	46,984	46,984	-	154	154
China	33	12,876	90	753	5	55,331	59,360	13	181	195
Colombia	4	1	31	1,049	4	42,912	45,926	10	141	151
Costa Rica	1	559	154	180	0	16,735	16,735	-	55	55
Denmark	0	726	-	1	-	1,884	1,884	-	6	6
Dominican Republic	1	1,293	512	231	1	22,410	22,708	1	73	74
Ecuador	2	1,021	1	391	0	31,416	31,416	-	103	103
Egypt	1	3,980	-	41	0	8,563	8,563	-	28	28
El Salvador	1	147	-	245	0	9,344	9,344	-	31	31
Finland	-	-	0	15	-	1,152	1,152	-	4	4
France	14	999	0	554	0	28,071	30,447	8	92	100
Germany	16	2	10	705	4	2,105	2,105	-	7	7
Ghana	0	-	-	2	-	1,691	1,691	-	6	6
Gibraltar	-	-	-	-	-	18,812	18,812	-	62	62
Greece	0	2,831	-	3	-	2,851	2,851	-	9	9
Guatemala	0	868	26	178	-	27,355	27,355	-	90	90
Honduras	0	945	118	109	-	15,669	15,669	-	51	51
Hong Kong	4	0	0	26	2	52	52	-	0	0
India	11	43,212	9	298	2	45,463	45,463	-	149	149
Indonesia	1	0	9	39	1	638	638	-	2	2
Ireland	-	897	-	0	-	900	900	-	3	3
Israel	0	1,166	-	29	0	3,230	4,000	3	11	13
Italy	2	5,457	1	155	2	9,162	15,667	21	30	51
Jamaica	-	-	1	151	1	6,058	6,058	-	20	20
Japan	13	17,463	6	136	35	70,959	73,843	9	233	242
Korea, South	4	1,425	22	91	6	29,155	31,795	9	96	104
Lebanon	0	1,160	0	11	-	5,603	5,603	-	18	18
Mexico	95	14,937	1,532	4,328	249	254,647	254,647	-	835	835
Montenegro	-	-	-	-	0	0	0	-	0	0
Morocco	0	4,470	-	0	-	9,643	9,643	-	32	32
Mozambique	-	676	-	0	-	1,369	1,369	-	4	4
Netherlands	22	3,388	40	605	17	79,899	91,824	39	262	301
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
New Zealand	0	467	1	9	-	483	483	-	2	2
Nicaragua	-	0	23	179	-	1,100	2,261	4	4	7
Nigeria	-	209	0	378	-	1,729	1,729	-	6	6
Norway	1	810	3	4	-	8,169	8,169	-	27	27
Pakistan	0	439	2	9	0	451	451	-	1	1
Panama	0	645	242	195	0	34,137	35,287	4	112	116
Peru	1	695	0	668	1	26,348	27,888	5	86	91
Philippines	1	0	-	27	2	1,239	1,239	-	4	4
Portugal	0	413	-	1	-	2,723	2,723	-	9	9
Puerto Rico	1	-	2	127	0	289	289	-	1	1
Romania	0	784	-	1	-	1,355	1,355	-	4	4
Saudi Arabia	1	493	0	79	0	1,220	1,220	-	4	4
Serbia	-	-	-	-	-	-	-	-	-	-
Singapore	1	275	1	225	0	39,261	42,889	12	129	141
South Africa	1	371	1	418	0	1,255	2,258	3	4	7
Spain	3	8,978	215	11	0	19,595	21,227	5	64	70
Switzerland	0	-	1	1	0	3,512	5,250	6	12	17
Taiwan	12	533	5	43	2	1,351	1,351	-	4	4
Thailand	8	606	12	39	2	680	1,083	1	2	4
Trinidad and Tobago	0	5	0	113	0	160	160	-	1	1
Turkey	0	16,436	1	63	0	19,513	19,513	-	64	64
United Arab Emirates	0	427	1	249	0	4,417	4,417	-	14	14
United Kingdom	2	1,591	4	46	3	25,648	29,810	14	84	98
Venezuela	0	246	0	669	0	19,471	19,471	-	64	64
Other	2	4,787	666	1,191	10	49,833	62,080	39	162	204
Total	1,036	180,895	6,465	23,791	406	1,409,052	1,567,696	520	4,620	5,140

- = 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, October 2016
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	3,110	0	-21	117	-	-72	-72	-	27	27
Algeria	156	-	-	131	-	-	-	-	-	-
Angola	122	-	-	-	-	-	-	-	-	-
Ecuador	197	-	-21	0	-	-25	-25	-	0	0
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	21	-	0	-1	-	-	-	-	8	8
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	508	-	-	-	-	-	-	-	-	-
Kuwait	154	-	-	0	-	0	0	-	0	0
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	207	-	-	0	-	0	0	-	14	14
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	1,023	0	-	0	-	-16	-16	-	0	0
United Arab Emirates	-	-	-	0	-	-16	-16	-	-	-
Venezuela	724	0	-	-12	-	-14	-14	-	5	5
Non-OPEC	4,007	-146	-889	290	-	-547	-547	142	360	502
Argentina	-	-	-	-3	-	-3	-3	-	-	-
Aruba	-	-	-45	-	-	-2	-2	-	-	-
Australia	-	0	2	0	-	0	0	-	0	0
Bahamas	-	0	-1	-	-	0	0	-	0	0
Bahrain	-	-	-	-	-	0	0	-	-	-
Belgium	-	0	-1	22	-	1	1	1	16	17
Brazil	173	0	-36	-9	-	-21	-21	-	12	12
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	2,923	-144	75	-62	-	12	12	30	-21	9
Chad	61	-	-	-	-	-	-	-	-	-
China	-17	0	-169	-21	-	0	0	-	9	9
Colombia	300	0	0	-43	-	-10	-10	-	11	11
Denmark	-	-	-	1	-	0	0	-	-	-
Dominican Republic	-	0	-22	-1	-	-15	-15	-	0	0
Equatorial Guinea	7	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	0	0
Finland	-	-	-	0	-	2	2	-	15	15
France	-	0	-52	-12	-	-	-	28	12	39
Germany	-	-	-	0	-	-	-	0	0	1
Guatemala	-	0	-	0	-	-17	-17	-	-1	-1
Honduras	-	0	-5	0	-	-8	-8	-	-1	-1
India	-	0	0	0	-	1	1	-	60	60
Italy	-22	-	1	13	-	0	0	-	1	1
Japan	-10	0	-148	0	-	0	0	-	-	-
Korea, South	-28	-	-67	-1	-	0	0	0	2	2
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	10	-	-	20	-	-	-	-	10	10
Mexico	555	-1	-122	-10	-	-390	-390	0	-35	-35
Netherlands	-47	0	-19	-1	-	-8	-8	28	46	74
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	68	-	0	-	-	1	1	-	4	4
Oman	-	-	-	-	-	-	-	-	-	-
Panama	-	-	-15	0	-	-20	-20	-	6	6
Portugal	-	-	-	-	-	-	-	5	23	28
Puerto Rico	-	0	0	0	-	0	0	0	0	0
Russia	46	-	-	351	-	0	0	11	58	69
Spain	-	-	-30	4	-	7	7	-	63	63
Sweden	-	-	-	19	-	-	-	-	13	13
Trinidad and Tobago	-	0	-	0	-	0	0	-	8	8
United Kingdom	-	-	-31	12	-	1	1	39	31	70
Vietnam	10	0	-	-	-	-	-	-	0	0
Virgin Islands, U.S.	-	0	-	-	-	0	0	-	0	0
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-22	-1	-204	11	-	-78	-78	0	18	18
Total	7,116	-146	-910	407	-	-619	-619	142	387	529
Persian Gulf²	1,684	0	-	0	-	-32	-32	-	0	0

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, October 2016
(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	-3	0	-5	8	-	-	-59	-	-23	-	-83
Algeria	-	-	-	-	-	-	-	-	-15	-	-15
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	-	-	-	-	-34	-	-8	-	-42
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	0	-	8	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	0	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-3	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	0	-	-2	-	-	-	0	-	-	-	0
United Arab Emirates	-	-	0	-	-	-	-	-	0	-	0
Venezuela	-3	-	-	-	-	-	-25	-	-	-	-25
Non-OPEC	-29	-20	-97	48	18	-	-687	-96	-56	9	-829
Argentina	2	-	-	42	-	-	-12	-	-	-	-12
Aruba	-	-	-	-	-	-	-2	-	-	-	-2
Australia	-	0	0	-	-	-	0	-	-	-	0
Bahamas	-	0	0	-	-	-	0	-	-6	-	-6
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	3	-	0	-	-	-	-9	-13	-	-	-22
Brazil	3	1	-33	0	-	-	-105	-6	-4	-	-115
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-27	4	-	-	42	-28	10	-	24
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-8	0	-	-	0	-	-	-	0
Colombia	-	0	0	-	-	-	-52	-	-	-	-52
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-8	-	-12	-	-19
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	-	-	-	-	-19	-	-	-	-19
Germany	1	0	-	2	-	-	0	-	-	-	0
Guatemala	-	0	-	-	-	-	-11	-10	-	-	-21
Honduras	-	-	-	-	-	-	-12	-	0	-	-12
India	0	0	-13	-	-	-	0	-	-	9	9
Italy	-	-	0	-	-	-	-3	-	-	-	-3
Japan	-	-22	0	-	-	-	0	-	-	-	0
Korea, South	-	0	-2	2	-	-	0	-	-	-	0
Latvia	-	-	-	-	-	-	0	-	-	-	0
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	0	-	-3	-	-3
Mexico	-28	0	-3	-1	-	-	-213	-8	0	-	-221
Netherlands	0	0	0	-1	-	-	-53	-1	-36	-	-89
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	0	-	-	-	0
Oman	-	-	-	-	-	-	-	-	-	-	-
Panama	-	-	-	-	-	-	-34	-22	-	-	-56
Portugal	-	-	-	-	-	-	6	-	-	-	6
Puerto Rico	-	0	0	-	-	-	0	-	-	-	0
Russia	-	-	-	0	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	0	-	-	-	0
Sweden	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	0	-	-	-	-	-	-	-	-
United Kingdom	-	0	-	-	-	-	-9	-	-	-	-9
Vietnam	-	-	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-18	-	-	-	-18
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-10	1	-11	0	18	-	-175	-8	-5	0	-189
Total	-32	-20	-101	56	18	-	-746	-96	-79	9	-912
Persian Gulf²	0	0	-2	-	-	-	0	-	0	-	0

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, October 2016
(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	-	-	0	2	11	10	-
Algeria	-	-	-	-	-	-	10	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-1	-	-
Gabon	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	12	-	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	0	2	-	-	-
United Arab Emirates	0	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-
Non-OPEC	5	0	-	15	4	-108	19	3
Argentina	0	-	-	-	-	-	-	-
Aruba	0	-	-	-2	-	-8	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	0	-	-	0	-	-29	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	-	-	-	0	2	8	-	-
Brunei	-	-	-	0	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-9	0	-	-32	1	-3	3	2
Chad	-	-	-	-	-	-	-	-
China	9	-	-	10	-	0	-	-
Colombia	-	-	-	-3	-	19	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-3	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	0
Germany	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-6	-	-5	-	-
Honduras	0	-	-	-1	-	-16	-	-
India	-	-	-	27	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	6	-	-	30	-	0	1	-
Korea, South	0	-	-	87	-	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-31	-	8	11	-
Netherlands	0	-	-	-	1	-5	1	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-16	-	-5	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	-
Russia	0	-	-	-	-	17	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Trinidad and Tobago	0	-	-	-	-	10	-	-
United Kingdom	-	-	-	-10	-	-13	4	-
Vietnam	-	-	-	0	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-8	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	0	-	-35	0	-78	-1	1
Total	5	0	-	15	6	-97	30	3
Persian Gulf²	0	-	-	0	2	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, October 2016
(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	-3	7	5	0	2	3,112
Algeria	-	-	-	-	-	126	281
Angola	-	-	-	0	-	0	122
Ecuador	0	0	0	-2	-	-91	106
Gabon	-	-	-	-	-	-	-
Indonesia	0	0	0	2	0	17	38
Iran	-	-	-	-	-	-	-
Iraq	-	-	-	0	-	0	507
Kuwait	0	0	0	0	-	0	154
Libya	-	-	-	0	-	0	0
Nigeria	-	-	0	0	-	23	230
Qatar	-	-	-	10	-	10	10
Saudi Arabia	0	-1	-	0	-	-16	1,006
United Arab Emirates	0	0	-	0	-	-16	-16
Venezuela	-	-2	7	-4	-	-49	675
Non-OPEC	1	-533	5	-52	-1	-2,338	1,669
Argentina	0	4	0	-2	0	28	28
Aruba	-	-	0	0	-	-59	-59
Australia	0	-5	0	0	0	-3	-3
Bahamas	-	-	0	0	-	-37	-37
Bahrain	-	-	-	2	-	2	2
Belgium	0	-4	-	-8	0	7	7
Brazil	0	-43	0	-7	0	-238	-65
Brunei	-	-	-	-	-	0	0
Cameroon	-	-	-	0	-	0	0
Canada	2	-36	13	0	0	-167	2,755
Chad	-	-	-	-	-	-	61
China	0	-37	0	-2	0	-211	-228
Colombia	0	-	0	-4	0	-82	218
Denmark	-	-	-	0	-	1	1
Dominican Republic	0	-13	-	-1	0	-74	-74
Equatorial Guinea	-	-	-	0	-	0	7
Estonia	0	-	-	-	-	0	0
Finland	-	-	-	0	-	16	16
France	0	-1	-	-2	0	-45	-45
Germany	0	0	0	-3	-	0	0
Guatemala	0	-	-	-1	-	-51	-51
Honduras	0	-	-1	0	-	-45	-45
India	0	-119	0	-1	0	-36	-36
Italy	0	-19	-	1	0	-7	-29
Japan	0	-42	0	0	0	-174	-184
Korea, South	0	0	0	9	0	29	1
Latvia	-	-	-	0	0	0	0
Lithuania	-	-	-	0	-	0	0
Malaysia	0	-	0	0	0	27	36
Mexico	0	-49	-6	-16	0	-893	-338
Netherlands	0	-19	0	-2	0	-69	-116
Netherlands Antilles	-	-	2	-	-	2	2
Norway	0	0	0	0	-	4	72
Oman	-	0	-	0	-	0	0
Panama	-	-	-	0	-	-106	-106
Portugal	-	-	-	-	-	34	34
Puerto Rico	0	-	0	0	-	-1	-1
Russia	-	0	0	0	-	438	483
Spain	0	-26	-	0	-	18	18
Sweden	0	0	-	0	-	32	32
Trinidad and Tobago	-	-	-	0	-	18	18
United Kingdom	0	-12	0	1	0	14	14
Vietnam	0	0	-	0	0	0	10
Virgin Islands, U.S.	-	-	0	0	-	-26	-26
Yemen	-	-	-	0	-	0	0
Other	-1	-112	-3	-16	-1	-684	-703
Total	1	-535	12	-47	-1	-2,336	4,781
Persian Gulf²	0	-1	0	11	-	-21	1,663

- = 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-October 2016
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	3,163	0	-23	120	-	-44	-44	0	37	37
Algeria	37	-	2	123	-	-5	-5	-	2	2
Angola	164	-	-	9	-	-	-	-	1	1
Ecuador	236	0	-22	0	-	-23	-23	0	-3	-3
Gabon	1	-	-	1	-	-	-	-	-	-
Indonesia	40	0	-2	0	-	-	-	-	1	1
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	401	0	-	1	-	-	-	-	0	0
Kuwait	202	-	-	0	-	0	0	-	0	0
Libya	8	-	-	4	-	-	-	-	-	-
Nigeria	209	0	-	0	-	-1	-1	-	24	24
Qatar	-	-	-	0	-	-	-	-	-	-
Saudi Arabia	1,115	0	0	4	-	-2	-2	0	0	0
United Arab Emirates	10	0	0	2	-	-3	-3	-	0	0
Venezuela	738	0	-1	-23	-	-11	-11	0	13	13
Non-OPEC	4,179	-193	-797	248	-	-475	-475	186	302	488
Argentina	11	0	-1	-1	-	-3	-3	-	0	0
Aruba	-	0	-27	0	-	-3	-3	-	0	0
Australia	5	0	-7	0	-	0	0	-	0	0
Bahamas	-5	0	-1	-1	-	-4	-4	0	0	0
Bahrain	-	-	-	0	-	0	0	-	-	-
Belgium	-	0	-4	44	-	4	4	2	13	14
Brazil	145	0	-45	-10	-	-20	-20	-	8	8
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	0	-	2	-	0	0	-	-	-
Canada	2,901	-200	46	-44	-	4	4	88	33	121
Chad	70	0	-	-	-	-	-	-	-	-
China	-13	0	-113	-7	-	-1	-1	0	0	0
Colombia	453	0	0	-40	-	-23	-23	0	13	13
Denmark	2	0	-	0	-	0	0	0	0	1
Dominican Republic	-1	0	-26	-1	-	-14	-14	0	0	0
Equatorial Guinea	6	-	-	0	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	0	0
Finland	-	-	-	1	-	0	0	0	20	21
France	-8	0	-15	1	-	1	1	19	3	22
Germany	-	0	-	2	-	0	0	0	0	0
Guatemala	7	0	-13	0	-	-30	-30	0	-2	-2
Honduras	-	0	-8	0	-	-11	-11	-	0	0
India	-	0	0	5	-	0	0	2	62	64
Italy	-21	-	0	0	-	1	1	0	8	8
Japan	-9	0	-143	-3	-	0	0	0	2	2
Korea, South	-9	0	-82	-3	-	1	1	0	5	5
Latvia	-	-	-	-	-	-	-	-	1	1
Lithuania	-	-	-	-	-	0	0	-	2	2
Malaysia	5	0	-	7	-	-1	-1	-	1	1
Mexico	585	5	-109	-8	-	-306	-306	0	-66	-66
Netherlands	-38	-1	-65	-11	-	-2	-2	12	13	25
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	42	0	-19	12	-	1	1	0	28	29
Oman	33	0	-	0	-	-	-	0	0	0
Panama	-4	0	-8	-1	-	-24	-24	-	0	0
Portugal	-	-	-8	-	-	3	3	9	14	23
Puerto Rico	-	0	0	0	-	0	0	0	0	0
Russia	43	-	-	299	-	0	0	2	46	47
Spain	-5	0	-14	-5	-	-1	-1	-	43	43
Sweden	-	-	0	4	-	1	1	0	2	2
Trinidad and Tobago	7	0	0	0	-	1	1	-	5	5
United Kingdom	5	0	-15	5	-	5	5	51	37	88
Vietnam	5	0	-	0	-	0	0	-	0	0
Virgin Islands, U.S.	-	0	0	0	-	0	0	0	0	0
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-33	3	-120	1	-	-54	-54	1	11	11
Total	7,342	-193	-820	368	-	-520	-520	187	339	525
Persian Gulf²	1,728	0	0	7	-	-5	-5	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-October 2016
(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	-10	0	-3	5	-	-	-38	-9	-11	-	-58
Algeria	-	-	-	-	-	-	-1	-1	-2	-	-4
Angola	-	0	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	0	-	-	-26	-8	-8	-	-42
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	0	0	6	-	-	0	-	-	-	0
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	0	0	-	-	-	-	-	-	-	-
Kuwait	-	-	0	-	-	-	-	-	-	-	-
Libya	-	0	-	-	-	-	-	-	-1	-	-1
Nigeria	-	0	-1	0	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	1	-	1	-	2
Saudi Arabia	0	0	0	-	-	-	0	-	-	-	0
United Arab Emirates	1	0	-2	0	-	-	0	-	0	-	0
Venezuela	-11	-	-	-	-	-	-12	-	-1	-	-13
Non-OPEC	-26	-26	-59	27	14	-	-872	-102	-18	3	-989
Argentina	0	0	0	25	-	-	-47	-1	-1	-	-49
Aruba	-	-	0	-	-	-	-2	-	-	-	-2
Australia	0	0	0	0	-	-	-1	-1	-	-	-2
Bahamas	0	0	0	-	-	-	-6	-1	-7	-	-13
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	1	0	0	-	-	-	-7	-5	-1	-	-13
Brazil	2	3	-11	0	-	-	-105	-6	-3	-	-114
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	0	-	-	-	-	-	-	-	1
Canada	-	0	-16	1	-	-	61	-17	26	1	70
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-12	0	-	-	1	0	-	-	1
Colombia	-	0	0	-	-	-	-66	1	1	-	-65
Denmark	-	-	-	-	-	-	0	0	0	-	-1
Dominican Republic	-	-	0	-	-	-	-17	-1	-2	-	-20
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	0	0	0	-	-	-	-58	-	0	-	-57
Germany	0	0	0	1	-	-	-4	-	0	-	-4
Guatemala	-	0	0	-	-	-	-18	-16	0	-	-34
Honduras	-	-	-	-	-	-	-6	-8	0	-	-14
India	0	0	-5	-	-	-	2	0	0	1	3
Italy	-	0	0	-	-	-	-4	-	1	-	-3
Japan	-	-28	0	-	-	-	3	-	-	-	3
Korea, South	0	0	-3	1	-	-	2	0	-	-	2
Latvia	-	-	-	-	-	-	0	-	-	-	0
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	0	0	-	-	-	-	0	-	-9	-	-9
Mexico	-25	0	-2	0	-	-	-167	-3	1	-	-170
Netherlands	2	0	-1	0	-	-	-95	-9	-13	0	-117
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	0	0	-	-	-	-3	-1	-	-	-4
Oman	-	-	0	-	-	-	0	-	-	-	0
Panama	-	0	0	-	-	-	-33	-11	-2	-	-46
Portugal	-	-	-	-	-	-	1	-	-	-	1
Puerto Rico	0	0	0	-	-	-	0	0	-	-	0
Russia	1	-	-	0	-	-	10	0	2	-	11
Spain	-	0	0	-	-	-	-4	-1	-	-	-5
Sweden	-	-	0	-	-	-	0	-	2	-	3
Trinidad and Tobago	-	0	0	0	-	-	0	-	2	-	2
United Kingdom	-	0	0	-	-	-	-45	-1	-	-	-46
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	0	-	-	-	-8	-	-	-	-8
Yemen	-	-	0	-	-	-	-	-	-	-	-
Other	-7	-1	-9	-1	14	-	-256	-21	-15	1	-290
Total	-36	-26	-62	32	14	-	-910	-111	-29	3	-1,047
Persian Gulf²	1	0	-2	0	-	-	1	-	1	-	2

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-October 2016
(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	-1	-	-	12	1	13	2	1
Algeria	-	-	-	-	-	4	1	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-6	-	-
Gabon	-	-	-	-	-	1	-	-
Indonesia	-	-	-	0	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	-	-	2	-	-
Kuwait	-	-	-	0	-	-	-	-
Libya	-	-	-	-	-	1	-	-
Nigeria	-1	-	-	-1	-	3	-	1
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	0	-	-	1	1	1	1	-
United Arab Emirates	0	-	-	0	-	-8	-	-
Venezuela	0	-	-	11	-	15	-	-
Non-OPEC	-7	0	-	-36	12	-81	23	5
Argentina	0	-	-	-3	-	0	0	1
Aruba	0	-	-	-2	-	-2	-	-
Australia	0	-	-	0	-	0	-	-
Bahamas	0	-	-	-3	-	-10	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	0	-	-	-	-	0	0	-
Brazil	0	-	-	-3	0	4	0	-
Brunei	0	-	-	0	-	-	-	-
Cameroon	-	-	-	-	-	1	-	-
Canada	-8	0	-	-27	4	9	3	3
Chad	-	-	-	-	-	-	-	-
China	1	-	-	15	-	-1	-	-
Colombia	0	-	-	-2	-	20	-	-
Denmark	-	-	-	-2	-	-1	-	-
Dominican Republic	0	-	-	-4	-	-2	-	-
Equatorial Guinea	-	-	-	-	-	0	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-4	-	0	-	-
France	-	-	-	0	-	1	-	1
Germany	0	-	-	0	-	0	-	-
Guatemala	0	-	-	-4	-	-3	-	-
Honduras	0	-	-	-2	-	-12	-	-
India	0	-	-	20	-	-1	-	-
Italy	-	-	-	-	0	1	-	-
Japan	1	-	-	11	3	0	1	-
Korea, South	0	-	-	76	4	0	3	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	0	-	-	0	-	-1	-	-
Mexico	0	-	-	-32	-	21	14	-
Netherlands	0	0	-	-7	0	-17	1	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	-1	-	2	-	-
Oman	-	-	-	-	-	0	-	-
Panama	0	-	-	-15	-	-13	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Russia	0	-	-	0	-	43	-	-
Spain	-	-	-	-2	-	-1	-	-
Sweden	-	-	-	-3	-	1	-	-
Trinidad and Tobago	0	-	-	0	-	10	-	-
United Kingdom	-	-	-	-11	-	-5	1	-
Vietnam	0	-	-	0	-	-	-	-
Virgin Islands, U.S.	0	-	-	0	-	-5	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	0	-	-31	1	-120	0	0
Total	-8	0	-	-24	14	-68	25	6
Persian Gulf²	0	-	-	1	1	-5	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-October 2016
(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	-4	6	5	0	60	3,223
Algeria	-	-	0	0	-	122	159
Angola	-	-1	0	0	-	9	173
Ecuador	0	-3	0	-1	0	-101	135
Gabon	-	0	-	0	-	-	-
Indonesia	0	0	0	2	0	6	47
Iran	-	-	-	-	-	-	-
Iraq	-	-	-	0	0	3	404
Kuwait	0	0	0	0	-	1	203
Libya	-	-	-	0	-	4	12
Nigeria	-	-1	0	-1	-	22	231
Qatar	-	0	-	9	-	11	11
Saudi Arabia	0	-2	0	0	0	4	1,120
United Arab Emirates	0	-1	0	-1	0	-12	-2
Venezuela	0	4	6	-2	0	-10	728
Non-OPEC	2	-579	10	-43	-1	-2,483	1,695
Argentina	0	1	0	-1	0	-30	-20
Aruba	-	-	0	-	-	-36	-36
Australia	0	-7	0	-1	0	-16	-11
Bahamas	0	-	0	0	0	-32	-37
Bahrain	0	-	-	2	-	2	2
Belgium	0	-5	0	-8	0	32	32
Brazil	0	-33	0	-7	0	-225	-80
Brunei	-	0	-	0	-	0	0
Cameroon	0	-	-	0	-	3	3
Canada	-1	-22	22	3	0	-31	2,870
Chad	-	-	-	0	-	0	70
China	2	-42	0	-2	0	-160	-173
Colombia	0	1	0	-3	0	-100	353
Denmark	0	-2	-	0	-	-5	-3
Dominican Republic	0	-4	-2	-1	0	-73	-74
Equatorial Guinea	-	-	-	0	-	0	6
Estonia	0	-	-	0	-	0	0
Finland	-	-	0	0	-	18	18
France	0	-3	0	-2	0	-52	-60
Germany	0	0	0	-2	0	-2	-2
Guatemala	0	-3	0	-1	-	-90	-83
Honduras	0	-3	0	0	-	-51	-51
India	0	-142	0	-1	0	-57	-57
Italy	0	-18	0	0	0	-11	-32
Japan	0	-57	0	0	0	-210	-220
Korea, South	0	-5	0	10	0	10	2
Latvia	0	-	-	0	0	1	1
Lithuania	0	-	-	0	-	2	2
Malaysia	0	0	0	0	0	-2	3
Mexico	0	-49	-5	-14	-1	-747	-162
Netherlands	0	-11	0	-2	0	-205	-243
Netherlands Antilles	-	-	0	-	-	0	0
Norway	0	-2	0	0	-	17	60
Oman	-	-1	0	0	-	-1	31
Panama	0	-2	-1	-1	0	-111	-115
Portugal	0	-1	-	0	-	17	17
Puerto Rico	0	-	0	0	0	-1	-1
Russia	0	0	0	1	-	403	446
Spain	0	-29	1	0	0	-14	-19
Sweden	0	0	-	0	0	7	7
Trinidad and Tobago	0	0	0	0	0	17	25
United Kingdom	0	-5	0	0	0	18	23
Vietnam	0	0	0	0	0	-1	4
Virgin Islands, U.S.	-	-	0	-2	-	-15	-15
Yemen	-	-	-	0	-	0	0
Other	1	-135	-5	-11	0	-752	-786
Total	2	-583	17	-38	-1	-2,423	4,918
Persian Gulf²	0	-3	0	10	0	9	1,738

- = 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, October 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	17,928	141,510	949,539	24,154	50,779	1,183,910
Refinery	13,733	14,884	47,811	2,794	23,017	102,239
Tank Farms and Pipelines (Includes Cushing, OK)	4,195	126,626	206,641	21,360	24,929	383,751
Cushing, Oklahoma	-	59,478	-	-	-	59,478
Leases ¹	-	-	-	-	-	-
Strategic Petroleum Reserve ²	-	-	695,087	-	-	695,087
Alaskan In Transit	-	-	-	-	2,833	2,833
Total Stocks, All Oils (excluding Crude Oil)³	181,423	184,716	390,498	20,653	89,055	866,345
Refinery	18,559	48,833	121,298	10,056	50,115	248,861
Bulk Terminal	135,140	99,757	215,781	6,625	33,634	490,937
Pipeline	27,492	34,456	49,423	3,847	4,761	119,979
Natural Gas Processing Plant	232	1,670	3,996	125	545	6,568
Pentanes Plus	231	9,227	15,308	301	57	25,124
Refinery	-	296	494	13	3	806
Bulk Terminal	171	1,458	12,689	5	5	14,328
Pipeline	11	7,319	1,833	251	-	9,414
Natural Gas Processing Plant	49	154	292	32	49	576
Liquefied Petroleum Gases	9,290	52,648	145,860	4,051	7,525	219,374
Refinery	974	5,968	9,833	370	1,860	19,005
Bulk Terminal	7,409	36,997	119,947	1,983	5,169	171,505
Pipeline	724	8,167	12,376	1,605	-	22,872
Natural Gas Processing Plant	183	1,516	3,704	93	496	5,992
Ethane/Ethylene	530	5,135	45,687	449	-	51,801
Refinery	-	-	64	-	-	64
Bulk Terminal	362	2,480	39,990	-	-	42,832
Ethylene	-	-	-	-	-	-
Pipeline	168	2,452	4,906	449	-	7,975
Natural Gas Processing Plant	-	203	727	-	-	930
Propane/Propylene	6,745	27,621	63,852	1,547	2,328	102,093
Refinery	265	2,456	2,789	36	130	5,676
Bulk Terminal	5,809	20,391	54,162	723	2,160	83,245
Nonfuel Use	-	-	3,773	-	-	3,773
Pipeline	539	3,889	5,146	733	-	10,307
Natural Gas Processing Plant	132	885	1,755	55	38	2,865
Normal Butane/Butylene	1,762	17,822	31,116	1,807	4,735	57,242
Refinery	480	2,924	5,748	242	1,318	10,712
Bulk Terminal	1,238	13,520	22,860	1,259	3,009	41,886
Refinery Grade Butane	16	6,134	7,438	579	-	14,167
Pipeline	6	1,154	1,564	278	-	3,002
Natural Gas Processing Plant	38	224	944	28	408	1,642
Isobutane/Isobutylene	253	2,070	5,205	248	462	8,238
Refinery	229	588	1,232	92	412	2,553
Bulk Terminal	-	606	2,935	1	-	3,542
Pipeline	11	672	760	145	-	1,588
Natural Gas Processing Plant	13	204	278	10	50	555
Other Hydrocarbons	-	16	-	-	-	16
Refinery	-	16	-	-	-	16
Oxygenates (excluding Fuel Ethanol)	-	-	1,056	-	-	1,056
Refinery	-	-	59	-	-	59
Bulk Terminal	-	-	997	-	-	997
Pipeline	-	-	-	-	-	-
MTBE	-	-	767	-	-	767
Refinery	-	-	59	-	-	59
Bulk Terminal ⁴	-	-	708	-	-	708
Pipeline	-	-	-	-	-	-
Other Oxygenates⁵	-	-	289	-	-	289
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	289	-	-	289
Pipeline	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	8,249	7,761	5,270	381	3,805	25,466
Refinery	187	115	431	140	324	1,197
Bulk Terminal	8,062	7,646	4,839	241	3,481	24,269
Pipeline	-	-	-	-	-	-
Fuel Ethanol³	6,584	6,984	3,586	369	2,482	20,005
Refinery	180	78	184	132	32	606
Bulk Terminal	6,404	6,906	3,402	237	2,450	19,399
Pipeline	-	-	-	-	-	-
Renewable Diesel Fuel	1,665	777	1,682	12	1,289	5,425
Refinery	7	37	247	8	258	557
Bulk Terminal	1,658	740	1,435	4	1,031	4,868
Pipeline	-	-	-	-	-	-
Other Renewable Fuels	-	-	2	-	34	36
Refinery	-	-	-	-	34	34
Bulk Terminal	-	-	2	-	-	2
Pipeline	-	-	-	-	-	-

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, October 2016
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Unfinished Oils	5,723	12,366	45,087	2,935	19,539	85,650
Naphthas and Lighter	1,317	2,928	12,493	623	3,278	20,639
Refinery	1,317	2,902	10,473	623	2,951	18,266
Bulk Terminal	—	26	2,020	—	327	2,373
Kerosene and Light Gas Oils	640	2,945	7,197	635	3,619	15,036
Refinery	640	2,825	7,113	635	3,433	14,646
Bulk Terminal	—	120	84	—	186	390
Heavy Gas Oils	2,788	4,392	20,148	1,304	10,086	38,718
Refinery	2,778	4,382	17,657	1,304	9,864	35,985
Bulk Terminal	10	10	2,491	—	222	2,733
Residuum	978	2,101	5,249	373	2,556	11,257
Refinery	978	1,871	5,249	373	2,556	11,027
Bulk Terminal	—	230	—	—	—	230
Motor Gasoline Blending Components³	55,901	43,179	68,847	5,226	25,821	198,974
Refinery	5,575	12,471	25,958	2,901	13,650	60,555
Bulk Terminal	40,528	22,820	26,815	1,503	9,692	101,358
Pipeline	9,798	7,888	16,074	822	2,479	37,061
Reformulated - RBOB	16,874	6,583	10,889	—	11,781	46,127
Refinery	1,780	1,426	1,243	—	4,976	9,425
Bulk Terminal	12,219	3,888	5,008	—	5,436	26,551
Pipeline	2,875	1,269	4,638	—	1,369	10,151
Conventional	39,027	36,596	57,958	5,226	14,040	152,847
Refinery	3,795	11,045	24,715	2,901	8,674	51,130
Bulk Terminal	28,309	18,932	21,807	1,503	4,256	74,807
Pipeline	6,923	6,619	11,436	822	1,110	26,910
CBOB	26,984	29,094	30,920	3,753	6,800	97,553
Refinery	721	5,196	10,051	1,429	2,086	19,483
Bulk Terminal	19,340	17,514	9,619	1,502	3,607	51,582
Pipeline	6,923	6,386	11,250	822	1,107	26,488
GTAB	962	—	—	—	—	962
Refinery	—	—	—	—	—	—
Bulk Terminal	962	—	—	—	—	962
Pipeline	—	—	—	—	—	—
Other	11,081	7,500	27,038	1,473	7,240	54,332
Refinery	3,074	5,849	14,664	1,472	6,588	31,647
Bulk Terminal	8,007	1,418	12,188	1	649	22,263
Pipeline	—	233	186	—	3	422
Aviation Gasoline Blending Components	—	—	13	—	—	13
Refinery	—	—	13	—	—	13
Bulk Terminal	—	—	—	—	—	—
Finished Motor Gasoline	4,897	6,216	10,320	2,069	2,390	25,892
Refinery	25	1,706	4,533	948	1,035	8,247
Bulk Terminal	1,420	2,380	2,186	849	1,232	8,067
Pipeline	3,452	2,130	3,601	272	123	9,578
Reformulated	25	—	—	—	18	43
Refinery	—	—	—	—	18	18
Bulk Terminal	25	—	—	—	—	25
Pipeline	—	—	—	—	—	—
Reformulated (Blended with Fuel Ethanol)	25	—	—	—	18	43
Refinery	—	—	—	—	18	18
Bulk Terminal	25	—	—	—	—	25
Pipeline	—	—	—	—	—	—
Reformulated (Other)	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional	4,872	6,216	10,320	2,069	2,372	25,849
Refinery	25	1,706	4,533	948	1,017	8,229
Bulk Terminal	1,395	2,380	2,186	849	1,232	8,042
Pipeline	3,452	2,130	3,601	272	123	9,578
Conventional (Blended with Fuel Ethanol)	47	96	—	68	—	211
Refinery	—	—	—	65	—	65
Bulk Terminal	47	96	—	3	—	146
Pipeline	—	—	—	—	—	—
Ed55 and Lower	47	96	—	68	—	211
Refinery	—	—	—	65	—	65
Bulk Terminal	47	96	—	3	—	146
Pipeline	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional (Other)	4,825	6,120	10,320	2,001	2,372	25,638
Refinery	25	1,706	4,533	883	1,017	8,164
Bulk Terminal	1,348	2,284	2,186	846	1,232	7,896
Pipeline	3,452	2,130	3,601	272	123	9,578

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, October 2016
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Finished Aviation Gasoline	155	167	311	8	228	869
Refinery	—	87	271	8	148	514
Bulk Terminal	155	80	40	—	80	355
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	11,032	7,456	16,050	651	9,351	44,540
Refinery	698	2,149	5,589	349	3,971	12,756
Bulk Terminal	6,150	3,530	4,781	281	4,469	19,211
Pipeline	4,184	1,777	5,680	21	911	12,573
Kerosene	1,899	129	376	1	44	2,449
Refinery	133	109	154	1	6	403
Bulk Terminal	1,744	20	215	—	38	2,017
Pipeline	22	—	7	—	—	29
Distillate Fuel Oil⁵	67,303	32,885	38,258	3,676	11,762	153,884
Refinery	2,749	7,298	14,495	1,505	4,813	30,860
Bulk Terminal	55,253	18,412	13,921	1,295	5,707	94,588
Pipeline	9,301	7,175	9,842	876	1,242	28,436
15 ppm sulfur and Under	53,173	31,858	32,032	3,473	10,567	131,103
Refinery	1,864	6,461	11,763	1,349	3,836	25,273
Bulk Terminal	43,139	18,338	11,406	1,250	5,525	79,658
Pipeline	8,170	7,059	8,863	874	1,206	26,172
Greater than 15 ppm to 500 ppm sulfur	7,350	289	1,169	159	218	9,185
Refinery	188	123	567	112	215	1,205
Bulk Terminal	7,028	66	453	45	3	7,595
Pipeline	134	100	149	2	—	385
Greater than 500 ppm sulfur	6,780	738	5,057	44	977	13,596
Refinery	697	714	2,165	44	762	4,382
Bulk Terminal	5,086	8	2,062	—	179	7,335
Pipeline	997	16	830	—	36	1,879
Residual Fuel Oil⁶	10,739	1,295	22,541	199	4,513	39,287
Refinery	681	1,062	3,947	199	2,547	8,436
Bulk Terminal	10,058	233	18,594	—	1,960	30,845
Pipeline	—	—	—	—	6	6
Less than 0.31% Sulfur	952	28	1,800	17	241	3,038
Refinery	53	22	208	17	—	300
Bulk Terminal	899	6	1,592	—	241	2,738
0.31% to 1.00% Sulfur	2,468	192	5,543	7	498	8,708
Refinery	60	98	298	7	242	705
Bulk Terminal	2,408	94	5,245	—	256	8,003
Greater than 1.00% Percent Sulfur	7,319	1,075	15,198	175	3,768	27,535
Refinery	568	942	3,441	175	2,305	7,431
Bulk Terminal	6,751	133	11,757	—	1,463	20,104
Petrochemical Feedstocks	171	636	2,342	—	5	3,154
Refinery	171	636	2,342	—	5	3,154
Naphtha for Petrochemical Feedstock Use	—	518	1,311	—	5	2,005
Other Oils for Petrochemical Feedstock Use	—	118	1,031	—	—	1,149
Special Naphthas	21	154	1,093	—	59	1,327
Refinery	7	82	959	—	59	1,107
Bulk Terminal	14	72	134	—	—	220
Lubricants	1,262	655	9,232	—	959	12,108
Refinery	686	248	5,722	—	679	7,335
Bulk Terminal	576	407	3,510	—	280	4,773
Waxes	302	46	247	—	—	595
Refinery	302	46	247	—	—	595
Petroleum Coke	—	921	3,201	109	1,482	5,713
Refinery	—	921	3,201	109	1,482	5,713
Asphalt and Road Oil	4,215	8,857	4,451	1,024	1,437	19,984
Refinery	625	3,541	2,059	556	651	7,432
Bulk Terminal	3,590	5,316	2,392	468	786	12,552
Miscellaneous Products	33	102	635	22	78	870
Refinery	33	102	499	22	78	734
Bulk Terminal	—	—	126	—	—	126
Pipeline	—	—	10	—	—	10
Total Stocks, All Oils	199,351	326,226	1,340,037	44,807	139,834	2,050,255

— = No Data Reported.

¹ Lease stocks were excluded from crude oil stocks beginning with data for July 2016 (see explanatory notes).

² Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

³ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Includes stocks held at fuel ethanol production facilities.

⁴ Includes stocks held by merchant producers.

⁵ 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).

⁶ Sulfur content not available for stocks held by pipelines.

Note: Stocks are reported as of the last day of the month.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, October 2016
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	25	1,420	1,445	13,999	32,104	46,103	1,877
Connecticut	—	—	—	1,187	—	1,187	55
Delaware	—	—	—	690	574	1,264	118
District of Columbia	—	—	—	—	—	—	—
Florida	—	660	660	—	6,562	6,562	—
Georgia	—	261	261	—	3,076	3,076	—
Maine	—	—	—	330	300	630	168
Maryland	—	—	—	1,400	63	1,463	108
Massachusetts	4	—	4	1,564	19	1,583	24
New Hampshire	—	—	—	—	—	—	5
New Jersey	—	53	53	4,834	9,294	14,128	136
New York	21	—	21	585	1,731	2,316	669
North Carolina	—	154	154	—	2,478	2,478	341
Pennsylvania	—	17	17	1,051	4,663	5,714	154
Rhode Island	—	—	—	748	—	748	—
South Carolina	—	113	113	—	1,501	1,501	21
Vermont	—	47	47	—	—	—	4
Virginia	—	95	95	1,610	1,706	3,316	74
West Virginia	—	20	20	—	137	137	—
PAD District 2	—	4,086	4,086	5,314	29,977	35,291	129
Illinois	—	451	451	2,590	4,339	6,929	95
Indiana	—	202	202	1,136	3,832	4,968	—
Iowa	—	144	144	—	1,415	1,415	—
Kansas	—	288	288	—	3,107	3,107	24
Kentucky	—	325	325	520	1,122	1,642	5
Michigan	—	206	206	69	2,661	2,730	—
Minnesota	—	439	439	94	2,083	2,177	—
Missouri	—	179	179	286	640	926	—
Nebraska	—	84	84	—	539	539	—
North Dakota	—	167	167	—	623	623	—
Ohio	—	873	873	13	3,762	3,775	—
Oklahoma	—	291	291	91	2,143	2,234	5
South Dakota	—	65	65	—	326	326	—
Tennessee	—	191	191	—	2,008	2,008	—
Wisconsin	—	181	181	515	1,377	1,892	—
PAD District 3	—	6,719	6,719	6,251	46,522	52,773	369
Alabama	—	104	104	—	1,411	1,411	5
Arkansas	—	102	102	—	914	914	—
Louisiana	—	1,713	1,713	150	11,956	12,106	94
Mississippi	—	847	847	1	2,001	2,002	—
New Mexico	—	81	81	—	540	540	—
Texas	—	3,872	3,872	6,100	29,700	35,800	270
PAD District 4	—	1,797	1,797	—	4,404	4,404	1
Colorado	—	460	460	—	980	980	—
Idaho	—	331	331	—	101	101	—
Montana	—	506	506	—	1,275	1,275	—
Utah	—	105	105	—	1,277	1,277	1
Wyoming	—	395	395	—	771	771	—
PAD District 5	18	2,249	2,267	10,412	12,930	23,342	44
Alaska	—	833	833	—	—	—	38
Arizona	—	79	79	659	356	1,015	—
California	18	411	429	9,676	6,640	16,316	6
Hawaii	—	1	1	—	858	858	—
Nevada	—	148	148	10	319	329	—
Oregon	—	78	78	—	1,117	1,117	—
Washington	—	699	699	67	3,640	3,707	—
U.S. Total	43	16,271	16,314	35,976	125,937	161,913	2,420

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, October 2016
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane/Propylene
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	45,003	7,216	5,783	58,002	10,739	6,206
Connecticut	2,902	2,678	131	5,711	33	—
Delaware	427	84	17	528	557	29
District of Columbia	—	—	—	—	—	—
Florida	2,009	21	—	2,030	1,522	618
Georgia	1,370	—	—	1,370	352	11
Maine	1,267	3	885	2,155	125	—
Maryland	3,758	285	—	4,043	856	3
Massachusetts	874	998	712	2,584	175	—
New Hampshire	408	—	454	862	54	586
New Jersey	16,187	627	1,105	17,919	3,678	216
New York	6,133	966	829	7,928	2,002	1,768
North Carolina	1,205	—	6	1,211	—	467
Pennsylvania	4,475	340	996	5,811	593	1,308
Rhode Island	602	995	82	1,679	64	—
South Carolina	738	—	—	738	317	1,126
Vermont	53	—	38	91	—	—
Virginia	2,486	203	528	3,217	411	5
West Virginia	109	16	—	125	—	69
PAD District 2	24,799	189	722	25,710	1,295	23,732
Illinois	3,659	—	—	3,659	390	973
Indiana	3,584	—	72	3,656	82	233
Iowa	1,903	—	—	1,903	2	582
Kansas	2,502	—	—	2,502	31	13,093
Kentucky	1,014	—	4	1,018	275	427
Michigan	1,362	54	—	1,416	93	6,474
Minnesota	1,748	5	362	2,115	82	333
Missouri	674	7	4	685	88	251
Nebraska	837	—	—	837	—	398
North Dakota	1,140	1	—	1,141	51	58
Ohio	2,227	—	73	2,300	84	755
Oklahoma	1,457	68	160	1,685	26	78
South Dakota	505	—	—	505	—	22
Tennessee	1,005	—	—	1,005	50	5
Wisconsin	1,182	54	47	1,283	41	50
PAD District 3	23,169	1,020	4,227	28,416	22,541	58,706
Alabama	1,407	15	42	1,464	512	25
Arkansas	945	—	44	989	—	51
Louisiana	4,594	567	1,725	6,886	10,393	4,270
Mississippi	812	289	118	1,219	89	7,336
New Mexico	278	—	—	278	76	17
Texas	15,133	149	2,298	17,580	11,471	47,007
PAD District 4	2,599	157	44	2,800	199	814
Colorado	523	—	—	523	7	16
Idaho	241	—	—	241	—	—
Montana	911	59	—	970	69	24
Utah	401	21	44	466	29	733
Wyoming	523	77	—	600	94	41
PAD District 5	9,361	218	941	10,520	4,507	2,328
Alaska	917	—	110	1,027	377	6
Arizona	465	3	—	468	—	1,512
California	4,967	207	323	5,497	2,472	602
Hawaii	164	—	503	667	598	67
Nevada	308	—	5	313	—	—
Oregon	717	—	—	717	7	—
Washington	1,823	8	—	1,831	1,053	141
U.S. Total	104,931	8,800	11,717	125,448	39,281	91,786

— = 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, October 2016
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	227	73	0	4,474	32,975	7,408	4,098	845	23,772
Petroleum Products	14,729	10	0	13,033	28,798	6,965	4,038	99,764	21,247
Pentanes Plus	11	0	-	0	1,570	314	-	0	4,979
Liquefied Petroleum Gases	4,443	0	-	612	17,339	3,513	-	1,245	2,039
Unfinished Oils	59	0	0	0	517	-	0	0	55
Motor Gasoline Blending Components	7,012	0	0	2,152	1,775	1,167	0	50,387	6,332
Reformulated - RBOB	0	0	0	0	340	-	0	7,251	2,383
Conventional	7,012	0	0	2,152	1,435	1,167	0	43,136	3,949
CBOB	7,012	0	0	2,152	1,227	1,167	0	43,085	3,181
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	208	-	-	51	768
Renewable Fuels	0	0	0	8,809	4,932	-	0	200	54
Fuel Ethanol	0	0	0	8,704	4,755	383	3,881	200	0
Renewable Diesel Fuel ²	0	0	0	106	178	57	157	0	54
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	250	0	0	78	193	239	0	7,450	926
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	250	0	0	78	193	239	0	7,450	926
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	250	0	0	78	193	239	0	7,450	926
Finished Aviation Gasoline	0	0	-	0	257	-	-	1,308	272
Kerosene-Type Jet Fuel	222	0	0	132	18	668	0	15,100	1,100
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,732	0	0	1,159	1,122	624	0	23,221	5,029
15 ppm sulfur and under	2,732	0	0	1,159	1,122	624	0	20,726	4,973
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-	-	458	56
Greater than 500 ppm sulfur	-	0	-	0	0	-	-	2,037	-
Residual Fuel Oil	0	0	-	-	946	-	-	-	0
Petrochemical Feedstocks	0	0	-	-	129	-	-	-	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	82	-	-	-	0
Other Oils for Petrochemical Feedstock Use	0	0	-	-	47	-	-	-	0
Special Naphthas	0	0	-	-	0	-	-	-	24
Lubricants	0	10	0	8	0	-	0	545	271
Waxes	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	0	0	-	83	0	-	-	308	166
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	14,956	83	0	17,507	61,773	14,373	8,136	100,609	45,019

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, October 2016
(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	0	0	16,648	1,031	0	0	0	0
Petroleum Products	0	5,735	0	7,663	6,839	1,571	0	4	0
Pentanes Plus	0	—	0	720	947	—	0	0	0
Liquefied Petroleum Gases	0	—	0	5,916	5,892	—	0	0	0
Unfinished Oils	—	0	0	0	0	0	0	0	—
Motor Gasoline Blending Components	0	4,062	0	214	0	911	0	0	0
Reformulated - RBOB	—	2,545	0	0	0	0	0	0	—
Conventional	0	1,517	0	214	0	911	0	0	0
CBOB	0	1,517	0	214	0	911	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	—	558	0	0	0	0	0	0	—
Fuel Ethanol	0	422	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	136	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	387	0	298	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	387	0	298	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	387	0	298	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	194	0	12	0	0	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	921	0	414	0	362	0	0	0
15 ppm sulfur and under	0	921	0	414	0	362	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	—	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	4	—
Waxes	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	—	—	0	0	0	—	0	0	—
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	0	5,735	0	24,311	7,870	1,571	0	4	0

— = 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.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, October 2016
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	125	73	216	31,911	7,408	198	23,772	0	-
Petroleum Products	14,645	0	3,338	21,711	6,525	82,000	19,422	0	5,177
Pentanes Plus	11	0	0	1,570	314	0	4,979	0	-
Liquefied Petroleum Gases	4,443	0	612	17,339	3,513	1,216	2,039	0	-
Motor Gasoline Blending Components	7,012	0	1,674	1,567	1,167	42,197	5,917	0	4,062
Reformulated - RBOB	0	0	0	340	-	7,251	2,383	-	2,545
Conventional	7,012	0	1,674	1,227	1,167	34,946	3,534	0	1,517
CBOB	7,012	0	1,674	1,227	1,167	34,946	2,997	0	1,517
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	537	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	250	0	28	95	239	3,979	670	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	250	0	28	95	239	3,979	670	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	250	0	28	95	239	3,979	670	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	222	0	132	18	668	14,079	1,100	0	194
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,707	0	892	1,122	624	20,529	4,717	0	921
15 ppm sulfur and under	2,707	0	892	1,122	624	18,034	4,661	0	921
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	458	56	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	2,037	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	14,770	73	3,554	53,622	13,933	82,198	43,194	0	5,177

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, October 2016
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	16,648	374	—	0	0
Petroleum Products	0	7,663	6,839	1,571	0	0
Pentanes Plus	0	720	947	—	0	0
Liquefied Petroleum Gases	0	5,916	5,892	—	0	0
Motor Gasoline Blending Components	0	214	0	911	0	0
Reformulated - RBOB	0	0	0	0	0	—
Conventional	0	214	0	911	0	0
CBOB	0	214	0	911	0	0
GTAB	—	—	—	—	—	—
Other	—	0	0	—	0	—
Renewable Fuels	—	—	—	—	—	—
Fuel Ethanol	—	—	—	—	—	—
Renewable Diesel Fuel ¹	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	387	0	298	0	0
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	387	0	298	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	387	0	298	0	0
Finished Aviation Gasoline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	0	12	0	0	0	0
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	414	0	362	0	0
15 ppm sulfur and under	0	414	0	362	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	24,311	7,213	1,571	0	0

— = No Data Reported.

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

¹ 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, October 2016
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	102	0	-	373	709	-
Petroleum Products	84	10	0	886	2,884	0
Liquefied Petroleum Gases	-	0	-	0	0	-
Unfinished Oils	59	0	-	0	517	-
Motor Gasoline Blending Components	0	0	-	478	208	-
Reformulated - RBOB	-	-	-	-	-	-
Conventional	0	0	-	478	208	-
CBOB	0	0	-	478	0	-
GTAB	-	-	-	-	-	-
Other	0	0	-	0	208	-
Renewable Fuels	0	0	-	0	729	-
Fuel Ethanol	0	0	-	0	729	-
Renewable Diesel Fuel ¹	0	0	-	-	0	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	0	-	50	98	-
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	0	-	50	98	-
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	0	-	50	98	-
Finished Aviation Gasoline	0	0	-	0	257	-
Kerosene-Type Jet Fuel	-	0	-	0	0	-
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	25	0	-	267	0	-
15 ppm sulfur and under	25	0	-	267	0	-
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-
Greater than 500 ppm sulfur	-	-	-	-	-	-
Residual Fuel Oil	0	0	-	-	946	-
Less than 0.31 percent sulfur	-	-	-	-	-	-
0.31 to 1.00 percent sulfur	-	-	-	-	-	-
Greater than 1.00 percent sulfur	0	0	-	-	946	-
Petrochemical Feedstocks	0	0	-	-	129	-
Naphtha for Petrochemical Feedstock Use	0	0	-	-	82	-
Other Oils for Petrochemical Feedstock Use	0	0	-	-	47	-
Special Naphthas	0	0	-	-	0	-
Lubricants	0	10	0	8	0	0
Waxes	-	-	-	-	-	-
Asphalt and Road Oil	0	0	-	83	0	-
Miscellaneous Products	-	-	-	-	-	-
Total	186	10	0	1,259	3,593	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, October 2016
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	647	—	647	—	0	—	0	0	0
Petroleum Products	17,764	—	351	17,413	1,791	0	0	0	4
Liquefied Petroleum Gases	29	—	—	29	—	—	0	—	0
Unfinished Oils	0	—	—	—	55	—	0	0	0
Motor Gasoline Blending Components	8,190	—	—	8,190	415	—	0	0	0
Reformulated - RBOB	—	—	—	—	—	—	—	—	—
Conventional	8,190	—	—	8,190	415	—	0	0	0
CBOB	8,139	—	—	8,139	184	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	51	—	—	51	231	—	0	0	0
Renewable Fuels	200	—	—	200	20	—	0	0	0
Fuel Ethanol	200	—	—	200	0	—	0	0	0
Renewable Diesel Fuel ¹	—	—	—	—	20	—	—	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	3,471	—	—	3,471	256	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	3,471	—	—	3,471	256	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	3,471	—	—	3,471	256	—	0	0	0
Finished Aviation Gasoline	1,308	—	47	1,261	272	—	0	0	0
Kerosene-Type Jet Fuel	1,021	—	—	1,021	—	—	0	—	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,692	—	—	2,692	312	—	0	0	0
15 ppm sulfur and under	2,692	—	—	2,692	312	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	—	—	—	—	—	—	—	—	—
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	—	—	—	—	0	—	—	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Special Naphthas	—	—	—	—	24	—	—	0	0
Lubricants	545	—	304	241	271	0	0	0	4
Waxes	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	308	—	—	308	166	—	0	0	0
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	18,411	—	998	17,413	1,791	0	0	0	4

— = No Data Reported.

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

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, October 2016
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	3,885	355	0	4,098
Fuel Ethanol	0	0	0	0	8,704	4,026	383	3,881
Biodiesel	0	0	0	0	106	178	57	157

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	0	0	0	657	0
Fuel Ethanol	0	0	0	422	0	0	0	0
Biodiesel	0	34	0	136	0	0	0	0

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	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, October 2016
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	125	102	0	227
3	73	0	0	73
4	0	-	0	0
5	-	-	0	0
From 2 to				
1	216	373	3,885	4,474
3	31,911	709	355	32,975
4	7,408	-	0	7,408
5	-	-	4,098	4,098
From 3 to				
1	198	647	0	845
2	23,772	0	0	23,772
4	0	-	0	0
5	-	-	0	0
From 4 to				
1	0	0	0	0
2	16,648	0	0	16,648
3	374	0	657	1,031
5	-	-	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	-	0	0

- = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail Between PAD Districts, October 2016
(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	5,319	300	5,019	40,647	48,955	-8,308	34,079	24,617	9,462
Petroleum Products	112,797	14,739	98,058	43,639	52,834	-9,196	35,651	126,746	-91,094
Pentanes Plus	0	11	-11	5,710	1,884	3,826	2,517	4,979	-2,462
Liquefied Petroleum Gases	1,857	4,443	-2,586	12,398	21,464	-9,066	23,231	3,284	19,947
Ethane/Ethylene	45	4,380	-4,335	6,308	9,585	-3,277	10,689	265	10,424
Propane/Propylene	1,812	45	1,767	3,418	8,303	-4,885	8,524	1,911	6,613
Normal Butane/Butylene	0	5	-5	1,534	2,461	-927	2,651	462	2,189
Isobutane/Isobutylene	0	13	-13	1,138	1,115	23	1,367	646	721
Unfinished Oils	0	59	-59	114	517	-403	517	55	462
Motor Gasoline Blending Components	52,539	7,012	45,527	13,558	5,094	8,464	1,775	60,781	-59,006
Reformulated - RBOB	7,251	0	7,251	2,383	340	2,043	340	12,179	-11,839
Conventional	45,288	7,012	38,276	11,175	4,754	6,421	1,435	48,602	-47,167
CBOB	45,237	7,012	38,225	10,407	4,546	5,861	1,227	47,783	-46,556
GTAB	0	0	-	-	-	-	0	0	-
Other	51	0	51	768	208	560	208	819	-611
Renewable Fuels	9,009	0	9,009	54	18,219	-18,166	4,932	812	4,121
Fuel Ethanol	8,904	0	8,904	0	17,722	-17,722	4,755	622	4,133
Renewable Diesel Fuel ¹	106	0	106	54	497	-443	178	190	-12
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	7,528	250	7,278	1,563	510	1,053	193	8,376	-8,183
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	7,528	250	7,278	1,563	510	1,053	193	8,376	-8,183
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	7,528	250	7,278	1,563	510	1,053	193	8,376	-8,183
Finished Aviation Gasoline	1,308	0	1,308	272	257	15	257	1,580	-1,323
Kerosene-Type Jet Fuel	15,232	222	15,010	1,334	818	516	18	16,394	-16,376
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	24,380	2,732	21,648	8,175	2,905	5,270	1,122	29,171	-28,049
15 ppm sulfur and under	21,885	2,732	19,153	8,119	2,905	5,214	1,122	26,620	-25,498
Greater than 15 ppm to 500 ppm sulfur	458	0	458	56	0	56	0	514	-514
Greater than 500 ppm sulfur	2,037	0	2,037	0	0	-	0	2,037	-2,037
Residual Fuel Oil	0	0	-	0	946	-946	946	0	946
Petrochemical Feedstocks	0	0	-	0	129	-129	129	0	129
Naphtha for Petrochemical Feedstock Use	0	0	-	0	82	-82	82	0	82
Other Oils for Petrochemical Feedstock Use	-	-	-	0	47	-47	47	0	47
Special Naphthas	0	0	-	24	0	24	0	24	-24
Lubricants	553	10	543	271	8	263	14	816	-802
Waxes	0	0	-	0	0	-	0	0	-
Asphalt and Road Oil	391	0	391	166	83	83	0	474	-474
Miscellaneous Products	0	0	-	0	0	-	0	0	-
Total	118,116	15,039	103,077	84,286	101,789	-17,503	69,731	151,363	-81,632

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, October 2016
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	7,408	17,679	-10,271	4,098	0	4,098
Petroleum Products	6,965	16,073	-9,108	11,344	4	11,340
Pentanes Plus	314	1,667	-1,353	0	0	-
Liquefied Petroleum Gases	3,513	11,808	-8,295	0	0	-
Ethane/Ethylene	1,006	3,818	-2,812	0	0	-
Propane/Propylene	1,622	5,117	-3,495	0	0	-
Normal Butane/Butylene	652	1,909	-1,257	0	0	-
Isobutane/Isobutylene	233	964	-731	0	0	-
Unfinished Oils	0	0	-	0	0	-
Motor Gasoline Blending Components	1,167	1,125	42	4,973	0	4,973
Reformulated - RBOB	-	-	-	2,545	0	2,545
Conventional	1,167	1,125	42	2,428	0	2,428
CBOB	1,167	1,125	42	2,428	0	2,428
GTAB	-	-	-	-	-	-
Other	0	0	-	0	0	-
Renewable Fuels	440	0	440	4,596	0	4,596
Fuel Ethanol	383	0	383	4,303	0	4,303
Renewable Diesel Fuel ¹	57	0	57	292	0	292
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	239	685	-446	298	0	298
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	239	685	-446	298	0	298
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	239	685	-446	298	0	298
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	668	12	656	194	0	194
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	624	776	-152	1,283	0	1,283
15 ppm sulfur and under	624	776	-152	1,283	0	1,283
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	4	-4
Waxes	0	0	-	0	0	-
Asphalt and Road Oil	0	0	-	0	0	-
Miscellaneous Products	0	0	-	0	0	-
Total	14,373	33,752	-19,379	15,441	4	15,437

- = 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.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

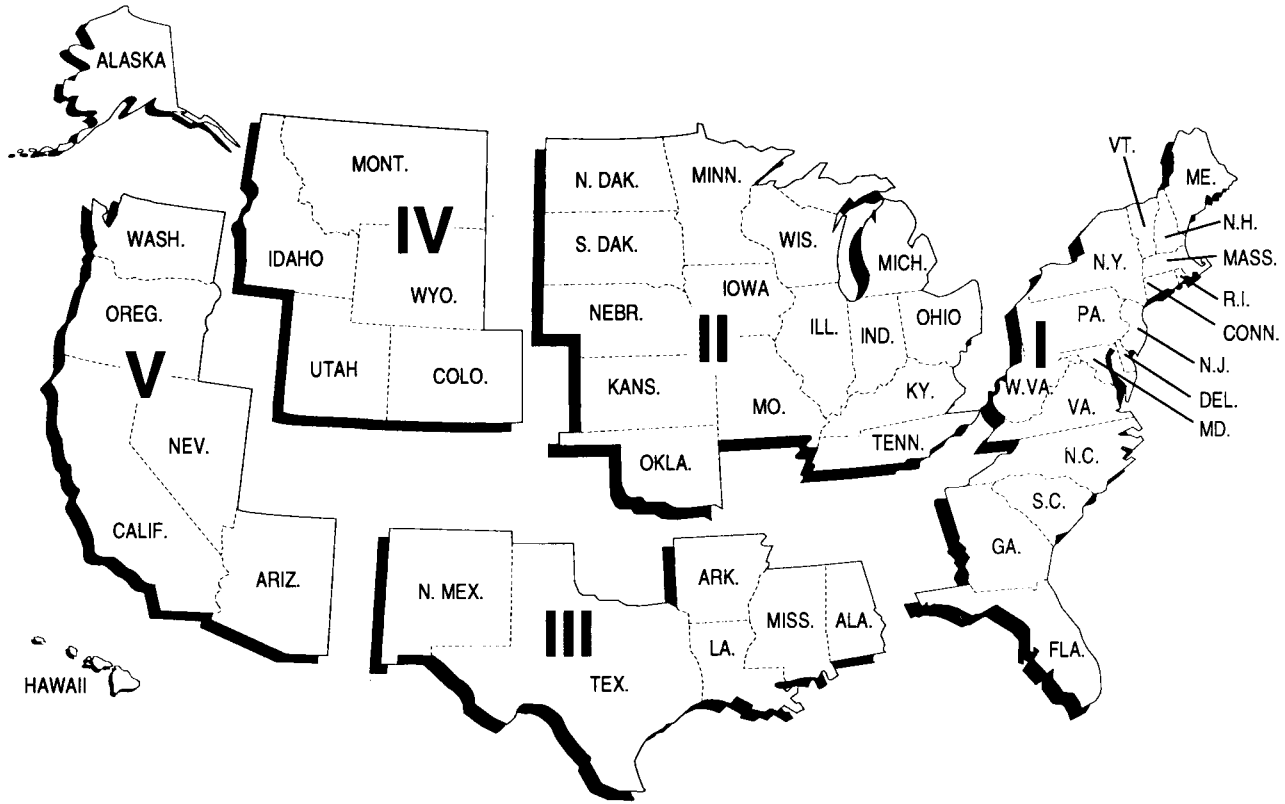
PAD District IV

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

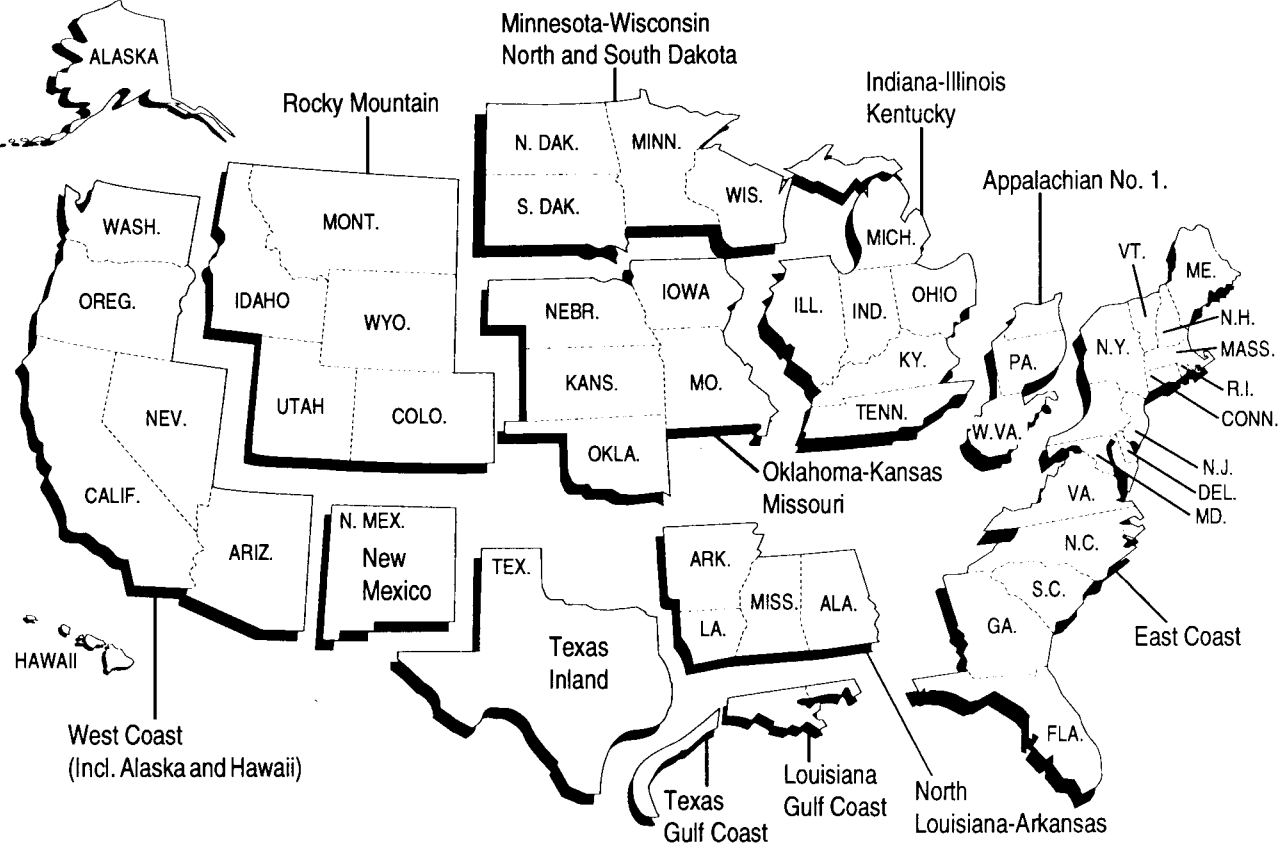
PAD District V

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

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 six 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, 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, and biodiesel moving by railroad is calculated using several data sources including Waybill sample data from the Surface Transportation Board, data from the National Energy Board of Canada, data in EIA’s Oil and Gas Supply Module within the National Energy Modeling system 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, and biodiesel by rail are based on EIA analysis of carload data from the U.S. Surface Transportation Board (STB) Carload Waybill Sample (CWS). Additional data from the National Energy Board of Canada, the Oil and Gas Supply Module of the EIA National Energy Modeling System, and EIA-915 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol and biodiesel 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, crude oil, ethanol, and biodiesel movements by rail reported by EIA in the Petroleum Supply Monthly and Petroleum Navigator are modeled by predicting recent-month rail movements based on historical correlations of rail movements derived from actual carload data with other regional supply data either collected by EIA or from other sources including field production, imports, refinery and blender inputs, movements other than rail, exports and supply adjustments.

Estimates of crude oil movements by rail 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	87
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 2016-present), Indonesia (1962-2008 and 2016-present), 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.