



U.S. Energy Information
Administration

Petroleum Supply Monthly

with data for July 2017

September 2017



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Preface

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

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

Scope of data

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

Sections

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

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

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	286,366	--	--	242,580	17,290	-18,310	536,855	27,691	0	1,161,277
Hydrocarbon Gas Liquids	116,413	-655	27,192	4,564	--	16,357	13,818	39,482	77,857	206,947
Natural Gas Liquids	116,413	-655	17,575	3,524	--	15,388	13,818	39,482	68,169	200,038
Ethane	42,827	--	147	--	--	-1,626	--	6,218	38,382	50,095
Propane	38,132	--	9,421	2,608	--	7,089	--	23,939	19,133	64,137
Normal Butane	8,912	--	8,362	362	--	8,267	2,080	3,665	3,624	54,591
Isobutane	11,730	--	-355	281	--	-415	6,944	91	5,036	8,589
Natural Gasoline	14,812	-655	--	273	--	2,073	4,794	5,570	1,993	22,626
Refinery Olefins	--	--	9,617	1,040	--	969	--	--	9,688	6,909
Ethylene	--	--	23	--	--	0	--	--	23	0
Propylene	--	--	9,389	795	--	763	--	--	9,421	4,791
Butylene	--	--	199	245	--	175	--	--	269	2,048
Isobutylene	--	--	6	--	--	31	--	--	-25	70
Other Liquids	--	37,382	--	39,610	-455	-6,524	69,965	13,730	-635	326,955
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	37,386	--	2,517	2,729	-226	37,994	4,864	0	29,110
Hydrogen	--	--	--	--	7,007	--	7,007	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,613	--	179	-688	476	--	1,628	0	2,155
Renewable Fuels (including Fuel Ethanol) ...	--	34,773	--	2,335	-3,630	-699	30,940	3,236	0	26,937
Fuel Ethanol ⁵	--	31,221	--	269	-339	-616	28,986	2,781	0	21,147
Renewable Fuels Except Fuel Ethanol	--	3,552	--	2,066	-3,292	-83	1,954	455	0	5,790
Other Hydrocarbons	--	--	--	3	41	-3	47	--	0	18
Unfinished Oils	--	--	--	16,839	--	-735	11,491	6,716	-633	87,938
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	20,254	-3,184	-5,563	20,478	2,151	0	209,900
Reformulated	--	--	--	7,281	882	-2,785	10,941	7	0	49,917
Conventional	--	-4	--	12,973	-4,066	-2,778	9,537	2,144	0	159,983
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	2	--	-2	7
Finished Petroleum Products	--	108	627,263	18,582	6,912	-2,822	--	112,287	543,400	302,695
Finished Motor Gasoline	--	108	314,942	719	3,523	677	--	21,856	296,758	23,157
Reformulated	--	--	101,516	--	3	3	--	--	101,516	53
Conventional	--	108	213,426	719	3,520	674	--	21,856	195,242	23,104
Finished Aviation Gasoline	--	--	303	14	--	-75	--	--	392	756
Kerosene-Type Jet Fuel	--	--	56,309	4,327	--	-38	--	7,099	53,575	41,009
Kerosene	--	--	110	55	--	-96	--	245	16	1,704
Distillate Fuel Oil ⁵	--	--	160,292	3,456	3,390	-540	--	52,756	114,922	151,068
15 ppm sulfur and under	--	--	148,891	2,277	3,390	-1,103	--	45,882	109,778	134,525
Greater than 15 ppm to 500 ppm sulfur	--	--	3,332	32	--	503	--	2,681	180	7,121
Greater than 500 ppm sulfur	--	--	8,069	1,147	--	60	--	4,192	4,964	9,422
Residual Fuel Oil ⁶	--	--	12,287	5,392	--	-1,581	--	10,840	8,420	33,607
Less than 0.31 percent sulfur	--	--	1,606	431	--	333	--	NA	NA	3,717
0.31 to 1.00 percent sulfur	--	--	1,444	916	--	-255	--	NA	NA	6,069
Greater than 1.00 percent sulfur	--	--	9,237	4,045	--	-1,659	--	NA	NA	23,815
Petrochemical Feedstocks	--	--	9,738	1,154	--	-25	--	--	10,917	3,150
Naphtha for Petro. Feed. Use	--	--	6,105	729	--	0	--	--	6,834	2,060
Other Oils for Petro. Feed. Use	--	--	3,633	425	--	-25	--	--	4,083	1,090
Special Naphthas	--	--	1,353	248	--	67	--	--	1,534	1,061
Lubricants	--	--	6,002	1,431	--	220	--	4,162	3,051	9,459
Waxes	--	--	162	147	--	40	--	110	159	777
Petroleum Coke	--	--	29,113	375	--	605	--	14,606	14,277	7,817
Marketable	--	--	21,726	375	--	605	--	14,606	6,890	7,817
Catalyst	--	--	7,387	--	--	--	--	--	7,387	--
Asphalt and Road Oil	--	--	10,897	1,263	--	-2,109	--	594	13,675	28,437
Still Gas	--	--	22,673	--	--	--	--	--	22,673	--
Miscellaneous Products	--	--	3,082	1	--	33	--	20	3,030	693
Total	402,779	36,835	654,455	305,336	23,748	-11,299	620,638	193,191	620,622	1,997,874

-- = 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-July 2017
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	1,928,265	--	--	1,719,036	55,668	-18,137	3,527,864	193,242	0	1,161,277
Hydrocarbon Gas Liquids	771,503	-4,544	152,024	40,750	--	6,799	109,958	290,494	552,482	206,947
Natural Gas Liquids	771,503	-4,544	92,225	34,236	--	9,235	109,958	290,494	483,733	200,038
Ethane	289,097	--	1,034	--	--	-592	--	34,043	256,680	50,095
Propane	252,709	--	64,646	27,364	--	-12,983	--	189,118	168,584	64,137
Normal Butane	62,636	--	27,084	2,413	--	24,752	30,247	26,430	10,704	54,591
Isobutane	74,010	--	-539	2,101	--	464	44,529	973	29,606	8,589
Natural Gasoline	93,051	-4,544	--	2,358	--	-2,406	35,182	39,930	18,159	22,626
Refinery Olefins	--	--	59,799	6,514	--	-2,436	--	--	68,749	6,909
Ethylene	--	--	149	--	--	0	--	--	149	0
Propylene	--	--	60,805	5,249	--	-2,185	--	--	68,239	4,791
Butylene	--	--	-1,339	1,265	--	-321	--	--	247	2,048
Isobutylene	--	--	184	--	--	70	--	--	114	70
Other Liquids	--	252,235	--	274,005	21,962	8,849	434,558	102,409	2,385	326,955
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	252,264	--	12,562	25,302	708	254,803	34,617	0	29,110
Hydrogen	--	--	--	--	46,717	--	46,717	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	15,053	--	2,529	-2,714	678	318	13,872	0	2,155
Renewable Fuels (including Fuel Ethanol) ...	--	237,211	--	9,917	-18,825	29	207,529	20,745	0	26,937
Fuel Ethanol ⁵	--	216,878	--	749	-2,965	1,616	193,741	19,305	0	21,147
Renewable Fuels Except Fuel Ethanol	--	20,333	--	9,168	-15,860	-1,587	13,788	1,440	0	5,790
Other Hydrocarbons	--	--	--	116	124	1	239	--	0	18
Unfinished Oils	--	--	--	126,674	--	7,356	64,682	52,184	2,452	87,938
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-29	--	134,769	-3,340	787	115,004	15,609	0	209,900
Reformulated	--	-1	--	48,729	33,172	-2,232	84,079	53	0	49,917
Conventional	--	-28	--	86,040	-36,512	3,019	30,925	15,556	0	159,983
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-2	69	--	-67	7
Finished Petroleum Products	--	654	4,155,900	139,691	22,873	-26,976	--	703,128	3,642,966	302,695
Finished Motor Gasoline	--	654	2,094,906	7,420	6,306	-5,453	--	145,208	1,969,531	23,157
Reformulated	--	--	686,291	--	-29,188	6	--	--	657,097	53
Conventional	--	654	1,408,615	7,420	35,494	-5,459	--	145,208	1,312,434	23,104
Finished Aviation Gasoline	--	--	2,111	57	--	-238	--	--	2,406	756
Kerosene-Type Jet Fuel	--	--	361,318	29,591	--	-1,767	--	42,100	350,576	41,009
Kerosene	--	--	1,096	223	--	-557	--	853	1,023	1,704
Distillate Fuel Oil ⁶	--	--	1,059,455	29,079	16,568	-14,388	--	293,413	826,077	151,068
15 ppm sulfur and under	--	--	988,098	19,601	16,568	-8,495	--	247,009	785,753	134,525
Greater than 15 ppm to 500 ppm sulfur	--	--	24,757	278	--	-1,701	--	25,429	1,307	7,121
Greater than 500 ppm sulfur	--	--	46,600	9,200	--	-4,192	--	20,976	39,016	9,422
Residual Fuel Oil ⁶	--	--	91,442	41,035	--	-7,936	--	65,421	74,992	33,607
Less than 0.31 percent sulfur	--	--	12,191	2,146	--	246	--	NA	NA	3,717
0.31 to 1.00 percent sulfur	--	--	11,078	4,496	--	-3,003	--	NA	NA	6,069
Greater than 1.00 percent sulfur	--	--	68,173	34,393	--	-5,179	--	NA	NA	23,815
Petrochemical Feedstocks	--	--	68,699	9,555	--	-90	--	--	78,344	3,150
Naphtha for Petro. Feed. Use	--	--	44,026	6,480	--	49	--	--	50,457	2,060
Other Oils for Petro. Feed. Use	--	--	24,673	3,075	--	-139	--	--	27,887	1,090
Special Naphthas	--	--	7,971	2,680	--	-157	--	--	10,808	1,061
Lubricants	--	--	36,769	9,016	--	-2,916	--	25,089	23,612	9,459
Waxes	--	--	1,090	944	--	106	--	854	1,074	777
Petroleum Coke	--	--	193,913	1,734	--	834	--	126,697	68,116	7,817
Marketable	--	--	145,416	1,734	--	834	--	126,697	19,619	7,817
Catalyst	--	--	48,497	--	--	--	--	--	48,497	--
Asphalt and Road Oil	--	--	70,202	8,348	--	5,571	--	3,229	69,750	28,437
Still Gas	--	--	146,588	--	--	--	--	--	146,588	--
Miscellaneous Products	--	--	20,340	9	--	15	--	264	20,070	693
Total	2,699,768	248,345	4,307,924	2,173,482	100,503	-29,465	4,072,380	1,289,274	4,197,833	1,997,874

-- = 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, July 2017
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	9,238	--	--	7,825	558	-591	17,318	893	0
Hydrocarbon Gas Liquids	3,755	-21	877	147	--	528	446	1,274	2,512
Natural Gas Liquids	3,755	-21	567	114	--	496	446	1,274	2,199
Ethane	1,382	--	5	--	--	-52	--	201	1,238
Propane	1,230	--	304	84	--	229	--	772	617
Normal Butane	287	--	270	12	--	267	67	118	117
Isobutane	378	--	-11	9	--	-13	224	3	162
Natural Gasoline	478	-21	--	9	--	67	155	180	64
Refinery Olefins	--	--	310	34	--	31	--	--	313
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	303	26	--	25	--	--	304
Butylene	--	--	6	8	--	6	--	--	9
Isobutylene	--	--	0	--	--	1	--	--	-1
Other Liquids	--	1,206	--	1,278	-15	-210	2,257	443	-20
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	1,206	--	81	88	-7	1,226	157	0
Hydrogen	--	--	--	--	226	--	226	--	0
Oxygenates (excluding Fuel Ethanol)	--	84	--	6	-22	15	--	53	0
Renewable Fuels (including Fuel Ethanol) ...	--	1,122	--	75	-117	-23	998	104	0
Fuel Ethanol ⁵	--	1,007	--	9	-11	-20	935	90	0
Renewable Fuels Except Fuel Ethanol	--	115	--	67	-106	-3	63	15	0
Other Hydrocarbons	--	--	--	0	1	0	2	--	0
Unfinished Oils	--	--	--	543	--	-24	371	217	-20
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	653	-103	-179	661	69	0
Reformulated	--	--	--	235	28	-90	353	0	0
Conventional	--	0	--	418	-131	-90	308	69	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	20,234	599	223	-91	--	3,622	17,529
Finished Motor Gasoline	--	3	10,159	23	114	22	--	705	9,573
Reformulated	--	--	3,275	--	0	0	--	--	3,275
Conventional	--	3	6,885	23	114	22	--	705	6,298
Finished Aviation Gasoline	--	--	10	0	--	-2	--	--	13
Kerosene-Type Jet Fuel	--	--	1,816	140	--	-1	--	229	1,728
Kerosene	--	--	4	2	--	-3	--	8	1
Distillate Fuel Oil ⁵	--	--	5,171	111	109	-17	--	1,702	3,707
15 ppm sulfur and under	--	--	4,803	73	109	-36	--	1,480	3,541
Greater than 15 ppm to 500 ppm sulfur	--	--	107	1	--	16	--	86	6
Greater than 500 ppm sulfur	--	--	260	37	--	2	--	135	160
Residual Fuel Oil ⁶	--	--	396	174	--	-51	--	350	272
Less than 0.31 percent sulfur	--	--	52	14	--	11	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	47	30	--	-8	--	NA	NA
Greater than 1.00 percent sulfur	--	--	298	130	--	-54	--	NA	NA
Petrochemical Feedstocks	--	--	314	37	--	-1	--	--	352
Naphtha for Petro. Feed. Use	--	--	197	24	--	0	--	--	220
Other Oils for Petro. Feed. Use	--	--	117	14	--	-1	--	--	132
Special Naphthas	--	--	44	8	--	2	--	--	49
Lubricants	--	--	194	46	--	7	--	134	98
Waxes	--	--	5	5	--	1	--	4	5
Petroleum Coke	--	--	939	12	--	20	--	471	461
Marketable	--	--	701	12	--	20	--	471	222
Catalyst	--	--	238	--	--	--	--	--	238
Asphalt and Road Oil	--	--	352	41	--	-68	--	19	441
Still Gas	--	--	731	--	--	--	--	--	731
Miscellaneous Products	--	--	99	0	--	1	--	1	98
Total	12,993	1,188	21,111	9,850	766	-364	20,021	6,232	20,020

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

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

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

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

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2017
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	9,096	--	--	8,109	263	-86	16,641	912	0
Hydrocarbon Gas Liquids	3,639	-21	717	192	--	32	519	1,370	2,606
Natural Gas Liquids	3,639	-21	435	161	--	44	519	1,370	2,282
Ethane	1,364	--	--	--	--	-3	--	161	1,211
Propane	1,192	--	305	129	--	-61	--	892	795
Normal Butane	295	--	128	11	--	117	143	125	50
Isobutane	349	--	-230	10	--	2	210	5	140
Natural Gasoline	439	-21	--	11	--	-11	166	188	86
Refinery Olefins	--	--	282	31	--	-11	--	--	324
Ethylene	--	--	1	--	--	0	--	--	1
Propylene	--	--	287	25	--	-10	--	--	322
Butylene	--	--	-6	6	--	-2	--	--	1
Isobutylene	--	--	345	--	--	0	--	--	1
Other Liquids	--	1,190	--	1,292	104	42	2,050	483	11
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,190	--	59	119	3	1,202	163	0
Hydrogen	--	--	--	--	220	--	220	--	0
Oxygenates (excluding Fuel Ethanol)	--	71	--	12	-13	3	2	65	0
Renewable Fuels (including Fuel Ethanol)	--	1,119	--	47	-89	0	979	98	0
Fuel Ethanol ⁵	--	1,023	--	4	-14	8	914	91	0
Renewable Fuels Except Fuel Ethanol	--	96	--	43	-75	-7	65	7	0
Other Hydrocarbons	--	--	--	1	1	0	1	--	0
Unfinished Oils	--	--	--	598	--	35	305	246	12
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	636	-16	4	542	74	0
Reformulated	--	0	--	230	156	-11	397	0	0
Conventional	--	0	--	406	-172	14	146	73	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	19,603	659	108	-127	--	3,317	17,184
Finished Motor Gasoline	--	3	9,882	35	30	-26	--	685	9,290
Reformulated	--	--	3,237	--	-138	0	--	--	3,100
Conventional	--	3	6,644	35	167	-26	--	685	6,191
Finished Aviation Gasoline	--	--	10	0	--	-1	--	--	11
Kerosene-Type Jet Fuel	--	--	1,704	140	--	-8	--	199	1,654
Kerosene	--	--	5	1	--	-3	--	4	5
Distillate Fuel Oil ⁵	--	--	4,997	137	78	-68	--	1,384	3,897
15 ppm sulfur and under	--	--	4,661	92	78	-40	--	1,165	3,706
Greater than 15 ppm to 500 ppm sulfur	--	--	117	1	--	-8	--	120	6
Greater than 500 ppm sulfur	--	--	220	43	--	-20	--	99	184
Residual Fuel Oil ⁶	--	--	431	194	--	-37	--	309	354
Less than 0.31 percent sulfur	--	--	58	10	--	1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	52	21	--	-14	--	NA	NA
Greater than 1.00 percent sulfur	--	--	322	162	--	-24	--	NA	NA
Petrochemical Feedstocks	--	--	324	45	--	0	--	--	370
Naphtha for Petro. Feed. Use	--	--	208	31	--	0	--	--	238
Other Oils for Petro. Feed. Use	--	--	116	15	--	-1	--	--	132
Special Naphthas	--	--	38	13	--	-1	--	--	51
Lubricants	--	--	173	43	--	-14	--	118	111
Waxes	--	--	5	4	--	1	--	4	5
Petroleum Coke	--	--	915	8	--	4	--	598	321
Marketable	--	--	686	8	--	4	--	598	93
Catalyst	--	--	229	--	--	--	--	--	229
Asphalt and Road Oil	--	--	331	39	--	26	--	15	329
Still Gas	--	--	691	--	--	--	--	--	691
Miscellaneous Products	--	--	96	0	--	0	--	1	95
Total	12,735	1,171	20,320	10,252	474	-139	19,209	6,081	19,801

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

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

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

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

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	1,573	--	--	29,160	1,713	1,356	382	33,420	0	0	16,155
Hydrocarbon Gas Liquids	13,518	-14	1,677	1,068	-2,454	--	856	464	3,143	9,332	8,605
Natural Gas Liquids	13,518	-14	1,257	736	-2,756	--	815	464	3,143	8,319	8,407
Ethane	5,814	--	--	--	--	--	-118	--	1,312	-15	408
Propane	4,410	--	683	580	1,787	--	565	--	1,571	5,324	4,948
Normal Butane	1,331	--	591	86	-27	--	300	80	176	1,425	2,625
Isobutane	662	--	-17	70	130	--	-12	384	1	472	123
Natural Gasoline	1,301	-14	--	--	-11	--	80	--	84	1,112	303
Refinery Olefins	--	--	420	332	--	--	41	--	--	1,013	198
Ethylene	--	--	15	--	--	--	--	--	--	15	--
Propylene	--	--	410	325	--	--	4	--	--	1,033	106
Butylene	--	--	-65	7	--	--	7	--	--	-65	23
Isobutylene	--	--	60	--	--	--	30	--	--	30	69
Other Liquids	--	942	--	20,470	59,443	2,158	-3,812	87,446	126	-747	74,202
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	945	--	1,004	10,822	-2,308	-447	10,889	21	0	9,393
Hydrogen	--	--	--	--	--	100	--	100	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	945	--	1,004	10,822	-2,409	-447	10,789	20	0	9,393
Fuel Ethanol	--	767	--	--	10,776	-1,476	-464	10,521	10	0	7,185
Renewable Fuels Except Fuel Ethanol	--	178	--	1,004	45	-933	17	268	9	0	2,208
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,225	-26	--	246	1,692	8	-747	5,299
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	18,241	48,647	4,466	-3,611	74,865	97	0	59,510
Reformulated	--	--	--	7,013	10,181	1,852	-2,421	21,467	0	0	18,674
Conventional	--	-3	--	11,228	38,466	2,614	-1,190	53,398	97	0	40,836
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	120,976	7,290	45,508	-2,058	-1,032	--	6,774	165,974	87,193
Finished Motor Gasoline	--	--	102,388	316	5,038	-2,990	532	--	28	104,192	4,634
Reformulated	--	--	40,825	--	--	-775	4	--	--	40,046	34
Conventional	--	--	61,563	316	5,038	-2,215	528	--	28	64,146	4,600
Finished Aviation Gasoline	--	--	--	1	1,857	--	24	--	--	1,834	170
Kerosene-Type Jet Fuel	--	--	2,916	902	14,486	--	1,049	--	114	17,141	10,240
Kerosene	--	--	101	--	--	--	-71	--	189	-17	1,505
Distillate Fuel Oil ⁶	--	--	10,237	2,179	21,905	932	-1,066	--	4,274	32,045	53,806
15 ppm sulfur and under	--	--	8,946	1,557	20,344	932	-1,534	--	3,996	29,317	45,061
Greater than 15 ppm to 500 ppm sulfur	--	--	76	32	253	--	395	--	277	-311	4,535
Greater than 500 ppm sulfur	--	--	1,215	590	1,308	--	73	--	0	3,040	4,210
Residual Fuel Oil ⁷	--	--	1,395	2,742	--	--	-675	--	1,529	3,283	7,970
Less than 0.31 percent sulfur	--	--	408	256	--	--	-7	--	NA	NA	1,901
0.31 to 1.00 percent sulfur	--	--	408	411	--	--	266	--	NA	NA	1,314
Greater than 1.00 percent sulfur	--	--	579	2,075	--	--	-934	--	NA	NA	4,755
Petrochemical Feedstocks	--	--	127	--	-27	--	10	--	--	90	121
Naphtha for Petro. Feed. Use	--	--	127	--	--	--	10	--	--	117	121
Other Oils for Petro. Feed. Use	--	--	--	--	-27	--	--	--	--	-27	--
Special Naphthas	--	--	21	--	--	--	1	--	--	20	19
Lubricants	--	--	395	140	503	--	-22	--	171	889	1,034
Waxes	--	--	11	88	--	--	29	--	52	18	443
Petroleum Coke	--	--	1,056	3	714	--	--	--	339	1,435	--
Marketable	--	--	362	3	714	--	--	--	339	741	--
Catalyst	--	--	694	--	--	--	--	--	--	694	--
Asphalt and Road Oil	--	--	984	919	1,032	--	-846	--	69	3,711	7,219
Still Gas	--	--	1,255	--	--	--	--	--	--	1,255	--
Miscellaneous Products	--	--	90	--	--	--	3	--	9	78	32
Total	15,091	928	122,653	57,988	104,210	1,455	-3,606	121,330	10,043	174,559	186,155

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	9,790	--	--	187,813	23,420	6,240	3,910	219,350	4,003	0	16,155
Hydrocarbon Gas Liquids	86,700	-105	8,096	10,721	-5,439	--	838	5,663	26,448	67,024	8,605
Natural Gas Liquids	86,700	-105	5,056	8,147	-7,374	--	899	5,663	26,448	59,414	--
Ethane	36,687	--	--	--	--	--	-32	--	8,011	334	--
Propane	28,748	--	4,439	7,438	18,797	--	-907	--	9,292	51,037	--
Normal Butane	8,657	--	847	258	1,203	--	1,753	2,395	786	6,031	--
Isobutane	4,318	--	-230	451	1,071	--	-35	2,667	5	2,973	--
Natural Gasoline	8,290	-105	--	--	-71	--	120	601	8,353	-960	--
Refinery Olefins	--	--	3,040	2,574	--	--	-61	--	--	7,610	--
Ethylene	--	--	98	--	--	--	--	--	--	98	--
Propylene	--	--	2,926	2,567	--	--	-53	--	--	7,481	--
Butylene	--	--	-329	7	--	--	-77	--	--	-245	--
Isobutylene	--	--	345	--	--	--	69	--	--	276	--
Other Liquids	--	6,561	--	133,642	401,612	38,748	1,093	581,038	11,432	-12,999	74,202
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	6,582	--	4,391	66,632	-3,245	283	73,726	351	0	9,393
Hydrogen	--	--	--	--	--	709	--	709	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	8	--	--	8	0	--
Renewable Fuels (including Fuel Ethanol)	--	6,582	--	4,389	66,632	-3,960	283	73,017	344	0	9,393
Fuel Ethanol	--	5,567	--	31	65,872	322	899	70,603	290	0	7,185
Renewable Fuels Except Fuel Ethanol	--	1,015	--	4,358	760	-4,282	-616	2,414	54	0	2,208
Other Hydrocarbons	--	--	--	2	--	-2	--	--	--	0	--
Unfinished Oils	--	--	--	13,853	-260	--	827	14,998	10,767	-12,999	5,299
Motor Gasoline Blend.Comp. (MGBC)	--	-21	--	115,398	335,240	41,994	-17	492,314	314	0	59,510
Reformulated	--	--	--	48,203	59,376	19,646	-949	128,170	4	0	18,674
Conventional	--	-21	--	67,195	275,864	22,348	932	364,144	310	0	40,836
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	808,262	65,202	328,308	-38,035	-15,566	--	36,089	1,143,214	87,193
Finished Motor Gasoline	--	--	681,344	6,105	52,330	-42,316	-858	--	2,201	696,121	4,634
Reformulated	--	--	272,202	--	--	-15,569	3	--	--	256,630	34
Conventional	--	--	409,142	6,105	52,330	-26,747	-861	--	2,201	439,490	4,600
Finished Aviation Gasoline	--	--	--	27	7,464	--	6	--	--	7,485	170
Kerosene-Type Jet Fuel	--	--	18,022	10,205	96,649	--	-838	--	1,113	124,601	10,240
Kerosene	--	--	659	168	--	--	-266	--	349	744	1,505
Distillate Fuel Oil ⁶	--	--	69,315	24,265	159,741	4,281	-13,145	--	16,887	253,860	53,806
15 ppm sulfur and under	--	--	57,684	16,703	146,892	4,281	-8,396	--	13,913	220,042	45,061
Greater than 15 ppm to 500 ppm sulfur	--	--	1,480	278	1,776	--	-1,853	--	2,872	2,515	4,535
Greater than 500 ppm sulfur	--	--	10,151	7,284	11,073	--	-2,896	--	102	31,302	4,210
Residual Fuel Oil ⁷	--	--	9,612	16,207	9	--	-3,026	--	9,058	19,796	7,970
Less than 0.31 percent sulfur	--	--	2,705	688	-103	--	901	--	NA	NA	1,901
0.31 to 1.00 percent sulfur	--	--	2,656	2,165	-17	--	-1,329	--	NA	NA	1,314
Greater than 1.00 percent sulfur	--	--	4,251	13,354	129	--	-2,598	--	NA	NA	4,755
Petrochemical Feedstocks	--	--	789	6	-158	--	-38	--	--	675	121
Naphtha for Petro. Feed. Use	--	--	789	6	--	--	-38	--	--	833	121
Other Oils for Petro. Feed. Use	--	--	--	--	-158	--	--	--	--	-158	--
Special Naphthas	--	--	138	--	--	--	-3	--	--	141	19
Lubricants	--	--	2,676	1,717	3,658	--	-174	--	1,431	6,794	1,034
Waxes	--	--	34	501	9	--	66	--	482	-4	443
Petroleum Coke	--	--	7,438	208	3,210	--	--	--	3,937	6,919	--
Marketable	--	--	2,711	208	3,210	--	--	--	3,937	2,192	--
Catalyst	--	--	4,727	--	--	--	--	--	--	4,727	--
Asphalt and Road Oil	--	--	8,470	5,793	5,396	--	2,715	--	546	16,397	7,219
Still Gas	--	--	9,086	--	--	--	--	--	--	9,086	--
Miscellaneous Products	--	--	679	--	--	--	-5	--	84	600	32
Total	96,490	6,456	816,358	397,378	747,901	6,954	-9,725	806,051	77,972	1,197,239	186,155

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	51	--	--	941	55	44	12	1,078	0	0
Hydrocarbon Gas Liquids	436	0	54	34	-79	--	28	15	101	301
Natural Gas Liquids	436	0	41	24	-89	--	26	15	101	268
Ethane	188	--	--	--	--	--	-4	--	42	0
Propane	142	--	22	19	58	--	18	--	--	172
Normal Butane	43	--	19	3	-1	--	10	3	6	46
Isobutane	21	--	-1	2	4	--	0	12	0	15
Natural Gasoline	42	0	--	--	0	--	3	--	3	36
Refinery Olefins	--	--	14	11	--	--	1	--	--	33
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	13	10	10	--	0	--	--	33
Butylene	--	--	-2	0	--	--	0	--	--	-2
Isobutylene	--	--	2	--	--	--	1	--	--	1
Other Liquids	--	30	--	660	1,918	70	-123	2,821	4	-24
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	32	349	-74	-14	351	1	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	30	--	32	349	-78	-14	348	1	0
Fuel Ethanol ⁶	--	25	--	--	348	-48	-15	339	0	0
Renewable Fuels Except Fuel Ethanol	--	6	--	32	1	-30	1	9	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	40	-1	--	8	55	0	-24
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	588	1,569	144	-116	2,415	3	0
Reformulated	--	--	--	226	328	60	-78	692	0	0
Conventional	--	0	--	362	1,241	84	-38	1,723	3	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,902	235	1,468	-66	-33	--	219	5,354
Finished Motor Gasoline	--	--	3,303	10	163	-96	17	--	1	3,361
Reformulated	--	--	1,317	--	--	-25	0	--	--	1,292
Conventional	--	--	1,986	10	163	-71	17	--	1	2,069
Finished Aviation Gasoline	--	--	--	0	60	--	1	--	--	59
Kerosene-Type Jet Fuel	--	--	94	29	467	--	34	--	4	553
Kerosene	--	--	3	--	--	--	-2	--	6	-1
Distillate Fuel Oil ⁶	--	--	330	70	707	30	-34	--	138	1,034
15 ppm sulfur and under	--	--	289	50	656	30	-49	--	129	946
Greater than 15 ppm to 500 ppm sulfur	--	--	2	1	8	--	13	--	9	-10
Greater than 500 ppm sulfur	--	--	39	19	42	--	2	--	0	98
Residual Fuel Oil ⁷	--	--	45	88	--	--	-22	--	49	106
Less than 0.31 percent sulfur	--	--	13	8	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	13	--	--	9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	19	67	--	--	-30	--	NA	NA
Petrochemical Feedstocks	--	--	4	--	-1	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	4	--	--	--	0	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	--	-1	--	--	--	--	-1
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	5	16	--	-1	--	6	29
Waxes	--	--	0	3	--	--	1	--	2	1
Petroleum Coke	--	--	34	0	23	--	--	--	11	46
Marketable	--	--	12	0	23	--	--	--	11	24
Catalyst	--	--	22	--	--	--	--	--	--	22
Asphalt and Road Oil	--	--	32	30	33	--	-27	--	2	120
Still Gas	--	--	40	--	--	--	--	--	--	40
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	487	30	3,957	1,871	3,362	47	-116	3,914	324	5,631

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report" and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	46	--	--	886	110	29	18	1,035	19	0
Hydrocarbon Gas Liquids	409	0	38	51	-26	--	4	27	125	316
Natural Gas Liquids	409	0	24	38	-35	--	4	27	125	280
Ethane	173	--	--	--	--	--	0	--	38	2
Propane	136	--	21	35	89	--	-4	--	--	241
Normal Butane	41	--	4	1	6	--	8	11	4	28
Isobutane	20	--	-1	2	5	--	0	13	0	14
Natural Gasoline	39	0	--	--	0	--	1	3	39	-5
Refinery Olefins	--	--	14	12	--	--	0	--	--	36
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	14	12	9	--	0	--	--	35
Butylene	--	--	-2	0	--	--	0	--	--	-1
Isobutylene	--	--	2	--	--	--	0	--	--	1
Other Liquids	--	31	--	630	1,894	183	5	2,741	54	-61
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	31	--	21	314	-15	1	348	2	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	21	314	-19	1	344	2	0
Fuel Ethanol ⁶	--	26	--	0	311	2	4	333	1	0
Renewable Fuels Except Fuel Ethanol	--	5	--	21	4	-20	-3	11	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	65	-1	--	4	71	51	-61
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	544	1,581	198	0	2,322	1	0
Reformulated	--	--	--	227	280	93	-4	605	0	0
Conventional	--	0	--	317	1,301	105	4	1,718	1	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,813	308	1,549	-179	-73	--	170	5,393
Finished Motor Gasoline	--	--	3,214	29	247	-200	-4	--	10	3,284
Reformulated	--	--	1,284	--	--	-73	0	--	--	1,211
Conventional	--	--	1,930	29	247	-126	-4	--	10	2,073
Finished Aviation Gasoline	--	--	--	0	35	--	0	--	--	35
Kerosene-Type Jet Fuel	--	--	85	48	456	--	-4	--	5	588
Kerosene	--	--	3	1	--	--	-1	--	2	4
Distillate Fuel Oil ⁶	--	--	327	114	753	20	-62	--	80	1,197
15 ppm sulfur and under	--	--	272	79	693	20	-40	--	66	1,038
Greater than 15 ppm to 500 ppm sulfur	--	--	7	1	8	--	-9	--	14	12
Greater than 500 ppm sulfur	--	--	48	34	52	--	-14	--	0	148
Residual Fuel Oil ⁷	--	--	45	76	0	--	-14	--	43	93
Less than 0.31 percent sulfur	--	--	13	3	0	--	4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	10	0	--	-6	--	NA	NA
Greater than 1.00 percent sulfur	--	--	20	63	1	--	-12	--	NA	NA
Petrochemical Feedstocks	--	--	4	0	-1	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	4	0	--	--	0	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	--	-1	--	--	--	--	-1
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	8	17	--	-1	--	7	32
Waxes	--	--	0	2	0	--	0	--	2	0
Petroleum Coke	--	--	35	1	15	--	--	--	19	33
Marketable	--	--	13	1	15	--	--	--	19	10
Catalyst	--	--	22	--	--	--	--	--	--	22
Asphalt and Road Oil	--	--	40	27	25	--	13	--	3	77
Still Gas	--	--	43	--	--	--	--	--	--	43
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	455	30	3,851	1,874	3,528	33	-46	3,802	368	5,647

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report" and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	52,177	--	--	75,679	-5,580	-560	-4,364	119,644	6,437	0	144,453
Hydrocarbon Gas Liquids	26,431	-596	5,828	2,100	-8,876	--	6,607	2,613	8,356	7,311	55,393
Natural Gas Liquids	26,431	-596	4,586	1,571	-8,245	--	6,464	2,613	8,356	6,314	54,571
Ethane	8,309	--	--	--	--	--	-477	--	2,314	2,841	5,287
Propane	9,767	--	2,354	1,147	-7,350	--	3,196	--	280	2,442	21,203
Normal Butane	3,110	--	2,353	251	-1,705	--	3,556	72	345	36	16,789
Isobutane	1,825	--	-121	170	-154	--	263	1,563	--	-106	2,295
Natural Gasoline	3,420	-596	--	3	4,595	--	-74	978	5,416	1,102	8,997
Refinery Olefins	--	--	1,242	529	--	--	143	--	--	997	822
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,110	470	--	--	224	--	--	725	759
Butylene	--	--	132	59	--	--	-81	--	--	272	63
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	30,880	--	270	-10,443	-146	153	19,538	3,028	-2,158	69,852
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	30,881	--	24	-21,066	943	293	9,409	1,081	0	8,324
Hydrogen	--	--	--	--	--	1,056	--	1,056	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0	6
Renewable Fuels (including Fuel Ethanol)	--	30,881	--	24	-21,066	-157	296	8,306	1,081	0	8,300
Fuel Ethanol	--	28,526	--	--	-20,654	1,080	245	7,846	861	0	7,328
Renewable Fuels Except Fuel Ethanol	--	2,355	--	24	-412	-1,237	51	460	219	0	972
Other Hydrocarbons	--	--	--	--	--	44	-3	47	--	0	18
Unfinished Oils	--	--	--	--	-156	--	590	-534	1,946	-2,158	14,751
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	246	10,779	-1,089	-730	10,663	2	0	46,777
Reformulated	--	--	--	--	2,918	-2,379	-198	737	--	0	6,459
Conventional	--	-1	--	246	7,861	1,290	-532	9,926	2	0	40,318
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	108	142,989	652	2,423	1,246	712	--	1,476	145,231	63,053
Finished Motor Gasoline	--	108	82,125	--	863	9	274	--	347	82,484	6,346
Reformulated	--	--	11,190	--	--	2,776	--	--	--	13,966	--
Conventional	--	108	70,935	--	863	-2,766	274	--	347	68,519	6,346
Finished Aviation Gasoline	--	--	49	6	69	--	-49	--	--	173	138
Kerosene-Type Jet Fuel	--	--	8,548	--	700	--	63	--	37	9,148	7,299
Kerosene	--	--	1	--	--	--	-10	--	1	10	103
Distillate Fuel Oil	--	--	33,145	12	2,775	1,237	952	--	182	36,035	33,067
15 ppm sulfur and under	--	--	33,101	10	2,670	1,237	759	--	0	36,258	32,117
Greater than 15 ppm to 500 ppm sulfur	--	--	-78	--	105	--	69	--	35	-77	479
Greater than 500 ppm sulfur	--	--	122	2	--	--	124	--	147	-147	471
Residual Fuel Oil ⁶	--	--	1,513	10	-722	--	-121	--	221	701	1,207
Less than 0.31 percent sulfur	--	--	68	--	-93	--	-27	--	NA	NA	76
0.31 to 1.00 percent sulfur	--	--	168	10	--	--	23	--	NA	NA	207
Greater than 1.00 percent sulfur	--	--	1,277	--	-629	--	-117	--	NA	NA	924
Petrochemical Feedstocks	--	--	936	166	-179	--	30	--	--	893	631
Naphtha for Petro. Feed. Use	--	--	710	89	-136	--	17	--	--	646	466
Other Oils for Petro. Feed. Use	--	--	226	77	-43	--	13	--	--	247	165
Special Naphthas	--	--	61	39	35	--	14	--	--	121	136
Lubricants	--	--	280	189	288	--	125	--	205	427	690
Waxes	--	--	44	3	--	--	8	--	24	15	64
Petroleum Coke	--	--	5,938	14	-903	--	239	--	298	4,512	936
Marketable	--	--	4,386	14	-903	--	239	--	298	2,960	936
Catalyst	--	--	1,552	--	--	--	--	--	--	1,552	--
Asphalt and Road Oil	--	--	5,261	213	-525	--	-832	--	161	5,620	12,327
Still Gas	--	--	4,599	--	--	--	--	--	--	4,599	--
Miscellaneous Products	--	--	489	--	23	--	19	--	0	493	109
Total	78,608	30,392	148,817	78,701	-22,475	540	3,108	141,795	19,296	150,384	332,751

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	351,439	--	--	546,342	-31,111	-29,475	-6,826	800,979	43,043	0	144,453
Hydrocarbon Gas Liquids	171,027	-4,156	29,597	17,638	-65,658	--	7,466	19,771	45,404	75,807	55,393
Natural Gas Liquids	171,027	-4,156	19,720	14,510	-60,270	--	7,334	19,771	45,404	68,322	--
Ethane	55,335	--	--	--	--	--	-394	--	12,227	18,803	--
Propane	64,108	--	15,863	11,997	-59,159	--	-298	--	1,799	31,308	--
Normal Butane	20,755	--	23	1,143	-9,702	--	7,928	4,864	2,329	1,874	--
Isobutane	11,118	--	-937	1,340	-75	--	393	10,168	1	884	--
Natural Gasoline	19,711	-4,156	--	30	33,365	--	-295	4,739	29,052	15,454	--
Refinery Olefins	--	--	9,877	3,128	--	--	132	--	--	7,485	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9,221	2,682	--	--	126	--	--	6,389	--
Butylene	--	--	656	446	--	--	6	--	--	1,096	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	212,319	--	2,161	-82,217	-6,995	3,314	118,527	10,825	-7,399	69,852
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	212,327	--	302	-143,013	-410	523	63,630	5,053	0	8,324
Hydrogen	--	--	--	--	--	8,067	--	8,067	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	8	--	--	--	2	6	--	4	0	6
Renewable Fuels (including Fuel Ethanol)	--	212,319	--	270	-143,013	-8,687	516	55,324	5,049	0	8,300
Fuel Ethanol	--	198,549	--	--	-139,071	-2,820	234	52,216	4,208	0	7,328
Renewable Fuels Except Fuel Ethanol	--	13,770	--	270	-3,942	-5,867	282	3,108	841	0	972
Other Hydrocarbons	--	--	--	32	--	208	1	239	--	0	18
Unfinished Oils	--	--	--	--	-1,125	--	1,614	-717	5,377	-7,399	14,751
Motor Gasoline Blend.Comp. (MGBC)	--	-8	--	1,859	61,921	-6,586	1,177	55,614	395	0	46,777
Reformulated	--	-1	--	258	14,025	-8,668	-88	5,702	0	0	6,459
Conventional	--	-7	--	1,601	47,896	2,082	1,265	49,912	395	0	40,318
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	654	958,265	5,188	14,034	15,314	1,620	--	9,560	982,274	63,053
Finished Motor Gasoline	--	654	546,008	--	3,519	9,406	-901	--	1,075	559,412	6,346
Reformulated	--	--	76,886	--	--	10,191	--	--	--	87,077	--
Conventional	--	654	469,122	--	3,519	-785	-901	--	1,075	472,336	6,346
Finished Aviation Gasoline	--	--	335	14	400	--	-73	--	--	822	138
Kerosene-Type Jet Fuel	--	--	53,986	5	5,326	--	470	--	1,418	57,429	7,299
Kerosene	--	--	211	--	--	--	-93	--	12	292	103
Distillate Fuel Oil	--	--	231,876	187	18,702	5,908	505	--	1,658	254,510	33,067
15 ppm sulfur and under	--	--	232,472	170	17,774	5,908	829	--	8	255,487	32,117
Greater than 15 ppm to 500 ppm sulfur	--	--	285	--	619	--	29	--	938	-63	479
Greater than 500 ppm sulfur	--	--	-881	17	309	--	-353	--	711	-913	471
Residual Fuel Oil ⁶	--	--	10,732	574	-5,602	--	-282	--	1,863	4,123	1,207
Less than 0.31 percent sulfur	--	--	738	--	-305	--	44	--	NA	NA	76
0.31 to 1.00 percent sulfur	--	--	1,623	294	-95	--	-80	--	NA	NA	207
Greater than 1.00 percent sulfur	--	--	8,371	280	-5,202	--	-246	--	NA	NA	924
Petrochemical Feedstocks	--	--	6,926	980	-837	--	98	--	--	6,971	631
Naphtha for Petro. Feed. Use	--	--	5,041	514	-674	--	75	--	--	4,806	466
Other Oils for Petro. Feed. Use	--	--	1,885	466	-163	--	23	--	--	2,165	165
Special Naphthas	--	--	370	300	142	--	-25	--	--	837	136
Lubricants	--	--	1,728	1,409	1,652	--	-50	--	1,256	3,583	690
Waxes	--	--	254	33	--	--	20	--	170	97	64
Petroleum Coke	--	--	40,617	163	-5,509	--	-142	--	1,431	33,982	936
Marketable	--	--	30,430	163	-5,509	--	-142	--	1,431	23,795	936
Catalyst	--	--	10,187	--	--	--	--	--	--	10,187	--
Asphalt and Road Oil	--	--	32,020	1,523	-3,885	--	2,107	--	673	26,878	12,327
Still Gas	--	--	29,789	--	--	--	--	--	--	29,789	--
Miscellaneous Products	--	--	3,413	--	125	--	-14	--	3	3,549	109
Total	522,466	208,817	987,862	571,329	-164,952	-21,157	5,574	939,277	108,833	1,050,682	332,751

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,683	--	--	2,441	-180	-18	-141	3,859	208	0
Hydrocarbon Gas Liquids	853	-19	188	68	-286	--	213	84	270	236
Natural Gas Liquids	853	-19	148	51	-266	--	209	84	270	204
Ethane	268	--	--	--	--	--	-15	--	75	92
Propane	315	--	76	37	-237	--	103	--	9	79
Normal Butane	100	--	4,171	8	-55	--	115	2	11	1
Isobutane	59	--	-4	5	-5	--	8	50	--	-3
Natural Gasoline	110	-19	--	0	148	--	-2	32	175	36
Refinery Olefins	--	--	40	17	--	--	5	--	--	32
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	36	15	-20	--	7	--	--	23
Butylene	--	--	4	2	--	--	-3	--	--	9
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	996	--	9	-337	-5	5	630	98	-70
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	996	--	1	-680	30	9	304	35	0
Hydrogen	--	--	--	--	--	34	--	34	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	996	--	1	-680	-5	10	268	35	0
Fuel Ethanol	--	920	--	--	-666	35	8	253	28	0
Renewable Fuels Except Fuel Ethanol	--	76	--	1	-13	-40	2	15	7	0
Other Hydrocarbons	--	--	--	--	--	1	0	2	--	0
Unfinished Oils	--	--	--	--	-5	--	19	-17	63	-70
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	8	348	-35	-24	344	0	0
Reformulated	--	--	--	--	94	-77	-6	24	--	0
Conventional	--	0	--	8	254	42	-17	320	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,613	21	78	40	23	--	48	4,685
Finished Motor Gasoline	--	3	2,649	--	28	0	9	--	11	2,661
Reformulated	--	--	361	--	--	90	--	--	--	451
Conventional	--	3	2,288	--	28	-89	9	--	11	2,210
Finished Aviation Gasoline	--	--	2	0	2	--	-2	--	--	6
Kerosene-Type Jet Fuel	--	--	276	--	23	--	2	--	1	295
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	1,069	0	90	40	31	--	6	1,162
15 ppm sulfur and under	--	--	1,068	0	86	40	24	--	0	1,170
Greater than 15 ppm to 500 ppm sulfur	--	--	-3	--	3	--	2	--	1	-2
Greater than 500 ppm sulfur	--	--	4	0	--	--	4	--	5	-5
Residual Fuel Oil ⁶	--	--	49	0	-23	--	-4	--	7	23
Less than 0.31 percent sulfur	--	--	2	--	-3	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	5	0	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	41	--	-20	--	-4	--	NA	NA
Petrochemical Feedstocks	--	--	30	5	-6	--	1	--	--	29
Naptha for Petro. Feed. Use	--	--	23	3	-4	--	1	--	--	21
Other Oils for Petro. Feed. Use	--	--	7	2	-1	--	0	--	--	8
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	9	6	9	--	4	--	7	14
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	192	0	-29	--	8	--	10	146
Marketable	--	--	141	0	-29	--	8	--	10	95
Catalyst	--	--	50	--	--	--	--	--	--	50
Asphalt and Road Oil	--	--	170	7	-17	--	-27	--	5	181
Still Gas	--	--	148	--	--	--	--	--	--	148
Miscellaneous Products	--	--	16	--	1	--	1	--	0	16
Total	2,536	980	4,801	2,539	-725	17	100	4,574	622	4,851

-- = 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-July 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,658	--	--	2,577	-147	-139	-32	3,778	203	0
Hydrocarbon Gas Liquids	807	-20	140	83	-310	--	35	93	214	358
Natural Gas Liquids	807	-20	93	68	-284	--	35	93	214	322
Ethane	261	--	--	--	--	--	-2	--	58	89
Propane	302	--	75	57	-279	--	-1	--	8	148
Normal Butane	98	--	23	5	-46	--	37	23	11	9
Isobutane	52	--	-4	6	0	--	2	48	0	4
Natural Gasoline	93	-20	--	0	157	--	-1	22	137	73
Refinery Olefins	--	--	47	15	--	--	1	--	--	35
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	43	13	-25	--	1	--	--	30
Butylene	--	--	3	2	--	--	0	--	--	5
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	1,002	--	10	-388	-33	16	559	51	-35
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,002	--	1	-675	-2	2	300	24	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,002	--	1	-675	-41	2	261	24	0
Fuel Ethanol	--	937	--	--	-656	-13	1	246	20	0
Renewable Fuels Except Fuel Ethanol	--	65	--	1	-19	-28	1	15	4	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	--	-5	--	8	-3	25	-35
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	9	292	-31	6	262	2	0
Reformulated	--	0	--	1	66	-41	0	27	0	0
Conventional	--	0	--	8	226	10	6	235	2	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,520	24	66	72	8	--	45	4,633
Finished Motor Gasoline	--	3	2,576	--	17	44	-4	--	5	2,639
Reformulated	--	--	363	--	--	48	--	--	--	411
Conventional	--	3	2,213	--	17	-4	-4	--	5	2,228
Finished Aviation Gasoline	--	--	2	0	2	--	0	--	--	4
Kerosene-Type Jet Fuel	--	--	255	0	25	--	2	--	7	271
Kerosene	--	--	1	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	1,094	1	88	28	2	--	8	1,201
15 ppm sulfur and under	--	--	1,097	1	84	28	4	--	0	1,205
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	3	--	0	--	4	0
Greater than 500 ppm sulfur	--	--	-4	0	1	--	-2	--	3	-4
Residual Fuel Oil ⁶	--	--	51	3	-26	--	-1	--	9	19
Less than 0.31 percent sulfur	--	--	3	--	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	8	1	0	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	39	1	-25	--	-1	--	NA	NA
Petrochemical Feedstocks	--	--	33	5	-4	--	0	--	--	33
Naphtha for Petro. Feed. Use	--	--	24	2	-3	--	0	--	--	23
Other Oils for Petro. Feed. Use	--	--	9	2	-1	--	0	--	--	10
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	8	7	8	--	0	--	6	17
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	192	1	-26	--	-1	--	7	160
Marketable	--	--	144	1	-26	--	-1	--	7	112
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	151	7	-18	--	10	--	3	127
Still Gas	--	--	141	--	--	--	--	--	--	141
Miscellaneous Products	--	--	16	--	1	--	0	--	0	17
Total	2,464	985	4,660	2,695	-778	-100	26	4,431	513	4,956

-- = 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, July 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	182,964	--	--	90,922	12,452	10,488	-9,843	286,060	20,609	0	928,331
Hydrocarbon Gas Liquids	62,943	-21	16,447	449	21,692	--	7,757	8,430	26,578	58,745	133,733
Natural Gas Liquids	62,943	-21	8,865	270	21,363	--	7,018	8,430	26,578	51,394	128,092
Ethane	25,298	--	147	--	--	--	-1,017	--	2,591	35,323	43,967
Propane	19,388	--	4,884	--	9,208	--	2,800	--	21,229	9,451	34,988
Normal Butane	2,705	--	4,171	--	3,018	--	3,762	1,301	2,638	2,193	30,744
Isobutane	8,041	--	-337	--	767	--	-646	4,051	90	4,976	5,442
Natural Gasoline	7,511	-21	--	270	-3,082	--	2,119	3,078	30	-549	12,951
Refinery Olefins	--	--	7,582	179	--	--	739	--	--	7,351	5,641
Ethylene	--	--	8	--	--	--	0	--	--	8	0
Propylene	--	--	7,611	--	--	--	527	--	--	7,413	3,904
Butylene	--	--	17	179	--	--	211	--	--	-15	1,736
Isobutylene	--	--	-54	--	--	--	1	--	--	-55	1
Other Liquids	--	4,199	--	15,165	-59,875	-58	-375	-51,906	10,033	1,678	125,055
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	4,199	--	736	4,614	3,508	135	9,369	3,552	0	7,672
Hydrogen	--	--	--	--	--	4,381	--	4,381	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,613	--	179	--	-691	476	--	1,625	0	2,149
Renewable Fuels (including Fuel Ethanol)	--	1,586	--	554	4,614	-179	-341	4,988	1,927	0	5,523
Fuel Ethanol	--	882	--	--	4,582	601	-259	4,587	1,737	0	3,919
Renewable Fuels Except Fuel Ethanol	--	704	--	554	32	-780	-82	401	191	0	1,604
Other Hydrocarbons	--	--	--	3	--	-3	--	--	--	0	--
Unfinished Oils	--	--	--	13,869	182	--	68	7,569	4,734	1,680	44,206
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	560	-64,671	-3,566	-578	-68,846	1,747	0	73,170
Reformulated	--	--	--	--	-15,670	1,226	-982	-13,469	7	0	12,218
Conventional	--	--	--	560	-49,001	-4,792	404	-55,377	1,740	0	60,952
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	2	--	-2	7
Finished Petroleum Products	--	--	245,274	4,961	-50,151	3,938	-2,132	--	94,109	112,045	112,279
Finished Motor Gasoline	--	--	69,554	360	-5,775	2,965	-24	--	20,677	46,451	8,644
Reformulated	--	--	14,311	--	--	-1,429	--	--	--	12,882	--
Conventional	--	--	55,243	360	-5,775	4,394	-24	--	20,677	33,569	8,644
Finished Aviation Gasoline	--	--	245	--	-1,926	--	-27	--	--	-1,654	247
Kerosene-Type Jet Fuel	--	--	28,391	--	-16,242	--	-1,536	--	5,620	8,065	13,780
Kerosene	--	--	6	--	--	--	-14	--	50	-30	86
Distillate Fuel Oil	--	--	93,443	555	-26,157	973	-207	--	45,145	23,876	48,266
15 ppm sulfur and under	--	--	84,300	--	-24,491	973	107	--	39,482	21,193	42,876
Greater than 15 ppm to 500 ppm sulfur	--	--	2,959	--	-358	--	29	--	2,179	393	1,646
Greater than 500 ppm sulfur	--	--	6,184	555	-1,308	--	-343	--	3,483	2,291	3,744
Residual Fuel Oil ⁷	--	--	5,763	1,826	722	--	-780	--	8,390	701	19,650
Less than 0.31 percent sulfur	--	--	911	175	93	--	392	--	NA	NA	1,553
0.31 to 1.00 percent sulfur	--	--	169	311	--	--	-629	--	NA	NA	3,999
Greater than 1.00 percent sulfur	--	--	4,683	1,340	629	--	-543	--	NA	NA	14,098
Petrochemical Feedstocks	--	--	8,671	950	206	--	-65	--	--	9,892	2,393
Naphtha for Petro. Feed. Use	--	--	5,264	602	136	--	-27	--	--	6,029	1,468
Other Oils for Petro. Feed. Use	--	--	3,407	348	70	--	-38	--	--	3,863	925
Special Naphthas	--	--	1,228	209	-35	--	60	--	--	1,342	863
Lubricants	--	--	4,804	707	-791	--	120	--	3,447	1,153	6,903
Waxes	--	--	107	30	--	--	3	--	26	108	270
Petroleum Coke	--	--	16,480	324	322	--	430	--	10,424	6,272	5,277
Marketable	--	--	12,648	324	322	--	430	--	10,424	2,440	5,277
Catalyst	--	--	3,832	--	--	--	--	--	--	3,832	--
Asphalt and Road Oil	--	--	2,515	--	-452	--	-84	--	320	1,827	5,493
Still Gas	--	--	12,119	--	--	--	--	--	--	12,119	--
Miscellaneous Products	--	--	1,948	--	-23	--	-8	--	10	1,923	407
Total	245,907	4,178	261,721	111,497	-75,882	14,368	-4,593	242,584	151,329	172,468	1,299,398

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	1,217,752	--	--	664,496	63,427	54,576	-12,534	1,871,046	141,739	0	928,331
Hydrocarbon Gas Liquids	419,670	-124	97,153	3,184	136,903	--	-2,978	62,835	207,116	389,813	133,733
Natural Gas Liquids	419,670	-124	52,608	2,372	133,450	--	-284	62,835	207,116	338,309	--
Ethane	174,696	--	1,034	--	--	--	-163	--	13,805	235,912	--
Propane	128,679	--	34,325	14	63,947	--	-11,860	--	171,528	67,297	--
Normal Butane	19,851	--	17,426	--	15,917	--	13,899	15,304	20,541	3,450	--
Isobutane	50,410	--	-177	30	3,574	--	107	24,760	967	28,003	--
Natural Gasoline	46,034	-124	--	2,328	-23,812	--	-2,267	22,771	275	3,647	--
Refinery Olefins	--	--	44,545	812	--	--	-2,694	--	--	51,504	--
Ethylene	--	--	51	--	--	--	0	--	--	51	--
Propylene	--	--	46,738	--	--	--	-2,268	--	--	52,459	--
Butylene	--	--	-2,083	812	--	--	-427	--	--	-844	--
Isobutylene	--	--	-161	--	--	--	1	--	--	-162	--
Other Liquids	--	24,577	--	104,216	-388,719	1,390	5,203	-360,463	75,568	21,156	125,055
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	24,577	--	4,114	39,671	23,067	599	63,246	27,584	0	7,672
Hydrogen	--	--	--	--	--	28,650	--	28,650	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	15,045	--	2,529	--	-2,736	672	318	13,848	0	2,149
Renewable Fuels (including Fuel Ethanol)	--	9,532	--	1,503	39,671	-2,765	-73	34,278	13,736	0	5,523
Fuel Ethanol	--	5,664	--	--	39,203	184	594	31,098	13,359	0	3,919
Renewable Fuels Except Fuel Ethanol	--	3,868	--	1,503	469	-2,949	-667	3,180	378	0	1,604
Other Hydrocarbons	--	--	--	82	--	-82	--	--	--	0	--
Unfinished Oils	--	--	--	90,673	1,385	--	2,634	33,311	34,890	21,223	44,206
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	9,429	-429,775	-21,678	1,972	-457,089	13,093	0	73,170
Reformulated	--	--	--	--	-90,355	22,029	563	-68,933	44	0	12,218
Conventional	--	--	--	9,429	-339,420	-43,706	1,409	-388,156	13,050	0	60,952
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-2	69	--	-67	7
Finished Petroleum Products	--	--	1,606,761	34,437	-351,970	25,739	-11,513	--	585,597	740,884	112,279
Finished Motor Gasoline	--	--	460,347	360	-54,371	21,493	-2,830	--	132,116	298,543	8,644
Reformulated	--	--	98,258	--	--	-23,882	--	--	--	74,376	--
Conventional	--	--	362,089	360	-54,371	45,376	-2,830	--	132,116	224,167	8,644
Finished Aviation Gasoline	--	--	1,648	--	-8,004	--	-170	--	--	-6,186	247
Kerosene-Type Jet Fuel	--	--	186,717	--	-108,601	--	-1,286	--	33,248	46,154	13,780
Kerosene	--	--	146	--	--	--	-160	--	470	-164	86
Distillate Fuel Oil	--	--	600,893	1,804	-184,467	4,246	-526	--	253,230	169,772	48,266
15 ppm sulfur and under	--	--	546,077	--	-170,954	4,246	493	--	219,373	159,503	42,876
Greater than 15 ppm to 500 ppm sulfur	--	--	20,635	--	-2,395	--	149	--	20,136	-2,045	1,646
Greater than 500 ppm sulfur	--	--	34,181	1,804	-11,118	--	-1,168	--	13,721	12,314	3,744
Residual Fuel Oil ⁷	--	--	44,294	14,890	5,593	--	-4,706	--	50,086	19,397	19,650
Less than 0.31 percent sulfur	--	--	7,241	1,458	408	--	-718	--	NA	NA	1,553
0.31 to 1.00 percent sulfur	--	--	2,368	1,363	112	--	-1,290	--	NA	NA	3,999
Greater than 1.00 percent sulfur	--	--	34,685	12,069	5,073	--	-2,698	--	NA	NA	14,098
Petrochemical Feedstocks	--	--	60,962	8,302	995	--	-154	--	--	70,413	2,393
Naphtha for Petro. Feed. Use	--	--	38,174	5,725	674	--	8	--	--	44,565	1,468
Other Oils for Petro. Feed. Use	--	--	22,788	2,577	321	--	-162	--	--	25,848	925
Special Naphthas	--	--	7,261	2,335	-142	--	-143	--	--	9,597	863
Lubricants	--	--	28,574	5,406	-5,099	--	-2,926	--	20,666	11,141	6,903
Waxes	--	--	802	188	-9	--	20	--	157	804	270
Petroleum Coke	--	--	108,497	1,152	4,006	--	729	--	93,708	19,217	5,277
Marketable	--	--	83,806	1,152	4,006	--	729	--	93,708	-5,474	5,277
Catalyst	--	--	24,691	--	--	--	--	--	--	24,691	--
Asphalt and Road Oil	--	--	16,784	--	-1,746	--	656	--	1,741	12,641	5,493
Still Gas	--	--	77,238	--	--	--	--	--	--	77,238	--
Miscellaneous Products	--	--	12,598	--	-125	--	-17	--	175	12,315	407
Total	1,637,422	24,453	1,703,914	806,333	-540,359	81,705	-21,822	1,573,418	1,010,019	1,151,853	1,299,398

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	5,902	--	--	2,933	402	338	-318	9,228	665	0
Hydrocarbon Gas Liquids	2,030	-1	531	14	700	--	250	272	857	1,895
Natural Gas Liquids	2,030	-1	286	9	689	--	226	272	857	1,658
Ethane	816	--	5	--	--	--	-33	--	84	1,139
Propane	625	--	158	--	297	--	90	--	685	305
Normal Butane	87	--	135	--	97	--	121	42	85	71
Isobutane	259	--	-11	--	25	--	-21	131	3	161
Natural Gasoline	242	-1	--	9	-99	--	68	99	1	-18
Refinery Olefins	--	--	245	6	--	--	24	--	--	237
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	246	--	11	--	17	--	--	239
Butylene	--	--	1	6	--	--	7	--	--	0
Isobutylene	--	--	-2	--	--	--	0	--	--	-2
Other Liquids	--	135	--	489	-1,931	-2	-12	-1,674	324	54
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	135	--	24	149	113	4	302	115	0
Hydrogen	--	--	--	--	--	141	--	141	--	0
Oxygenates (excluding Fuel Ethanol)	--	84	--	6	--	-22	15	--	52	0
Renewable Fuels (including Fuel Ethanol)	--	51	--	18	149	-6	-11	161	62	0
Fuel Ethanol	--	28	--	--	148	19	-8	148	56	0
Renewable Fuels Except Fuel Ethanol	--	23	--	18	1	-25	-3	13	6	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	447	6	--	2	244	153	54
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	18	-2,086	-115	-19	-2,221	56	0
Reformulated	--	--	--	--	-505	40	-32	-434	0	0
Conventional	--	--	--	18	-1,581	-155	13	-1,786	56	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,912	160	-1,618	127	-69	--	3,036	3,614
Finished Motor Gasoline	--	--	2,244	12	-186	96	-1	--	667	1,498
Reformulated	--	--	462	--	--	-46	--	--	--	416
Conventional	--	--	1,782	12	-186	142	-1	--	667	1,083
Finished Aviation Gasoline	--	--	8	--	-62	--	-1	--	--	-53
Kerosene-Type Jet Fuel	--	--	916	--	-524	--	-50	--	181	260
Kerosene	--	--	0	--	--	--	0	--	2	-1
Distillate Fuel Oil	--	--	3,014	18	-844	31	-7	--	1,456	770
15 ppm sulfur and under	--	--	2,719	--	-790	31	3	--	1,274	684
Greater than 15 ppm to 500 ppm sulfur	--	--	95	--	-12	--	1	--	70	13
Greater than 500 ppm sulfur	--	--	199	18	-42	--	-11	--	112	74
Residual Fuel Oil ⁷	--	--	186	59	23	--	-25	--	271	23
Less than 0.31 percent sulfur	--	--	29	6	3	--	13	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	5	10	--	--	-20	--	NA	NA
Greater than 1.00 percent sulfur	--	--	151	43	20	--	-18	--	NA	NA
Petrochemical Feedstocks	--	--	280	31	7	--	-2	--	--	319
Naphtha for Petro. Feed. Use	--	--	170	19	4	--	-1	--	--	194
Other Oils for Petro. Feed. Use	--	--	110	11	2	--	-1	--	--	125
Special Naphthas	--	--	40	7	-1	--	2	--	--	43
Lubricants	--	--	155	23	-26	--	4	--	111	37
Waxes	--	--	3	1	--	--	0	--	1	3
Petroleum Coke	--	--	532	10	10	--	14	--	336	202
Marketable	--	--	408	10	10	--	14	--	336	79
Catalyst	--	--	124	--	--	--	--	--	--	124
Asphalt and Road Oil	--	--	81	--	-15	--	-3	--	10	59
Still Gas	--	--	391	--	--	--	--	--	--	391
Miscellaneous Products	--	--	63	--	-1	--	0	--	0	62
Total	7,932	135	8,443	3,597	-2,448	463	-148	7,825	4,882	5,563

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other sources.

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	5,744	--	--	3,134	299	257	-59	8,826	669	0
Hydrocarbon Gas Liquids	1,980	-1	458	15	646	--	-14	296	977	1,839
Natural Gas Liquids	1,980	-1	248	11	629	--	-1	296	977	1,596
Ethane	824	--	5	--	--	--	-1	--	65	1,113
Propane	607	--	162	0	302	--	-56	--	809	317
Normal Butane	94	--	793	--	75	--	66	72	97	16
Isobutane	238	--	-1	0	17	--	1	117	5	132
Natural Gasoline	217	-1	--	11	-112	--	-11	107	1	17
Refinery Olefins	--	--	210	4	--	--	-13	--	--	243
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	220	--	16	--	-11	--	--	247
Butylene	--	--	-10	4	--	--	-2	--	--	-4
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	116	--	492	-1,834	7	25	-1,700	356	100
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	116	--	19	187	109	3	298	130	0
Hydrogen	--	--	--	--	--	135	--	135	--	0
Oxygenates (excluding Fuel Ethanol)	--	71	--	12	--	-13	3	2	65	0
Renewable Fuels (including Fuel Ethanol)	--	45	--	7	187	-13	0	162	65	0
Fuel Ethanol	--	27	--	--	185	1	3	147	63	0
Renewable Fuels Except Fuel Ethanol	--	18	--	7	2	-14	-3	15	2	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	428	7	--	12	157	165	100
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	44	-2,027	-102	9	-2,156	62	0
Reformulated	--	--	--	--	-426	104	3	-325	0	0
Conventional	--	--	--	44	-1,601	-206	7	-1,831	62	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,579	162	-1,660	121	-54	--	2,762	3,495
Finished Motor Gasoline	--	--	2,171	2	-256	101	-13	--	623	1,408
Reformulated	--	--	463	--	--	-113	--	--	--	351
Conventional	--	--	1,708	2	-256	214	-13	--	623	1,057
Finished Aviation Gasoline	--	--	8	--	-38	--	-1	--	--	-29
Kerosene-Type Jet Fuel	--	--	881	--	-512	--	-6	--	157	218
Kerosene	--	--	1	--	--	--	-1	--	2	-1
Distillate Fuel Oil	--	--	2,834	9	-870	20	-2	--	1,194	801
15 ppm sulfur and under	--	--	2,576	--	-806	20	2	--	1,035	752
Greater than 15 ppm to 500 ppm sulfur	--	--	97	--	-11	--	1	--	95	-10
Greater than 500 ppm sulfur	--	--	161	9	-52	--	-6	--	65	58
Residual Fuel Oil ⁷	--	--	209	70	26	--	-22	--	236	91
Less than 0.31 percent sulfur	--	--	34	7	2	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	11	6	1	--	-6	--	NA	NA
Greater than 1.00 percent sulfur	--	--	164	57	24	--	-13	--	NA	NA
Petrochemical Feedstocks	--	--	288	39	5	--	-1	--	--	332
Naphtha for Petro. Feed. Use	--	--	180	27	3	--	0	--	--	210
Other Oils for Petro. Feed. Use	--	--	107	12	2	--	-1	--	--	122
Special Naphthas	--	--	34	11	-1	--	-1	--	--	45
Lubricants	--	--	135	26	-24	--	-14	--	97	53
Waxes	--	--	4	1	0	--	0	--	1	4
Petroleum Coke	--	--	512	5	19	--	3	--	442	91
Marketable	--	--	395	5	19	--	3	--	442	-26
Catalyst	--	--	116	--	--	--	--	--	--	116
Asphalt and Road Oil	--	--	79	--	-8	--	3	--	8	60
Still Gas	--	--	364	--	--	--	--	--	--	364
Miscellaneous Products	--	--	59	--	-1	--	0	--	1	58
Total	7,724	115	8,037	3,803	-2,549	385	-103	7,422	4,764	5,433

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	21,356	--	--	9,547	-12,746	1,018	-1,068	20,123	120	0	21,618
Hydrocarbon Gas Liquids	11,996	-10	683	220	-10,898	--	300	537	69	1,085	3,954
Natural Gas Liquids	11,996	-10	579	220	-10,898	--	267	537	69	1,014	3,877
Ethane	3,404	--	--	--	--	--	-14	--	--	232	433
Propane	4,243	--	301	175	-3,923	--	102	--	0	694	1,308
Normal Butane	1,678	--	262	9	-1,468	--	174	109	39	159	1,546
Isobutane	758	--	16	36	-819	--	12	226	--	-247	258
Natural Gasoline	1,913	-10	--	--	-1,502	--	-7	202	30	176	332
Refinery Olefins	--	--	104	--	--	--	33	--	--	71	77
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	23	--	--	--	6	--	--	17	8
Butylene	--	--	81	--	--	--	27	--	--	54	69
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	434	--	69	685	-945	-232	326	2	147	8,575
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	434	--	2	445	378	-21	1,278	1	0	325
Hydrogen	--	--	--	--	--	204	--	204	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	434	--	2	445	174	-21	1,074	1	0	325
Fuel Ethanol	--	434	--	--	377	177	-21	1,009	--	0	309
Renewable Fuels Except Fuel Ethanol	--	--	--	2	68	-3	0	65	1	0	16
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	38	-185	--	147	3,020
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	67	240	-1,323	-249	-767	0	0	5,230
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	240	-1,323	-249	-767	0	0	5,230
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	21,288	34	-105	1,149	-483	--	37	22,812	7,617
Finished Motor Gasoline	--	--	10,436	--	-391	1,146	-76	--	1	11,266	1,466
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	10,436	--	-391	1,146	-76	--	1	11,266	1,466
Finished Aviation Gasoline	--	--	7	3	--	--	0	--	--	10	9
Kerosene-Type Jet Fuel	--	--	1,292	--	732	--	5	--	--	2,019	694
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	6,191	8	192	3	-160	--	--	6,554	3,487
15 ppm sulfur and under	--	--	6,144	8	192	3	-124	--	--	6,471	3,194
Greater than 15 ppm to 500 ppm sulfur	--	--	60	--	--	--	-13	--	--	73	199
Greater than 500 ppm sulfur	--	--	-13	--	--	--	-23	--	--	10	94
Residual Fuel Oil ⁶	--	--	404	--	--	--	1	--	16	387	240
Less than 0.31 percent sulfur	--	--	219	--	--	--	-1	--	NA	NA	32
0.31 to 1.00 percent sulfur	--	--	33	--	--	--	0	--	NA	NA	25
Greater than 1.00 percent sulfur	--	--	152	--	--	--	2	--	NA	NA	183
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	14	-14	--
Waxes	--	--	--	--	--	--	--	--	--	--	--
Petroleum Coke	--	--	820	--	-162	--	-11	--	--	669	75
Marketable	--	--	561	--	-162	--	-11	--	--	410	75
Catalyst	--	--	259	--	--	--	--	--	--	259	--
Asphalt and Road Oil	--	--	1,224	22	-475	--	-245	--	6	1,009	1,625
Still Gas	--	--	780	--	--	--	--	--	--	780	--
Miscellaneous Products	--	--	134	1	--	--	3	--	0	132	20
Total	33,352	424	21,971	9,870	-23,063	1,222	-1,483	20,986	228	24,045	41,764

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	139,259	--	--	72,658	-85,923	4,255	-1,702	131,327	625	0	21,618
Hydrocarbon Gas Liquids	79,987	-66	3,341	2,273	-71,150	--	609	3,938	2,342	7,496	3,954
Natural Gas Liquids	79,987	-66	2,970	2,273	-71,150	--	571	3,938	2,342	7,163	--
Ethane	22,366	--	--	--	--	--	-3	--	--	1,618	--
Propane	28,930	--	2,046	2,019	-25,757	--	-45	--	1	7,282	--
Normal Butane	11,208	--	793	64	-9,673	--	591	1,290	194	317	--
Isobutane	5,244	--	131	190	-5,487	--	0	1,517	--	-1,439	--
Natural Gasoline	12,239	-66	--	--	-9,482	--	28	1,131	2,147	-615	--
Refinery Olefins	--	--	371	--	--	--	38	--	--	333	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	106	--	--	--	8	--	--	98	--
Butylene	--	--	265	--	--	--	30	--	--	235	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	2,997	--	278	574	-2,974	-293	595	97	477	8,575
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	2,997	--	28	2,482	2,447	-42	7,973	23	0	325
Hydrogen	--	--	--	--	--	1,430	--	1,430	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	2,997	--	28	2,482	1,017	-42	6,543	23	0	325
Fuel Ethanol	--	2,997	--	--	2,208	938	-44	6,187	0	0	309
Renewable Fuels Except Fuel Ethanol	--	--	--	28	274	79	2	356	23	0	16
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	191	-741	73	477	3,020
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	250	-1,908	-5,421	-442	-6,637	0	0	5,230
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-1,908	-5,421	-442	-6,637	0	0	5,230
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	138,866	670	-4,176	4,404	-1,376	--	257	140,884	7,617
Finished Motor Gasoline	--	--	66,465	--	-3,640	4,482	-772	--	7	68,073	1,466
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	66,465	--	-3,640	4,482	-772	--	7	68,073	1,466
Finished Aviation Gasoline	--	--	27	7	--	--	0	--	--	34	9
Kerosene-Type Jet Fuel	--	--	7,480	20	4,738	--	94	--	--	12,144	694
Kerosene	--	--	2	--	--	--	0	--	--	2	1
Distillate Fuel Oil	--	--	43,234	306	-1,133	-79	-829	--	--	43,157	3,487
15 ppm sulfur and under	--	--	42,854	306	-869	-79	-848	--	--	43,060	3,194
Greater than 15 ppm to 500 ppm sulfur	--	--	290	--	--	--	-21	--	--	311	199
Greater than 500 ppm sulfur	--	--	90	--	-264	--	40	--	--	-214	94
Residual Fuel Oil ⁶	--	--	2,540	--	--	--	16	--	130	2,394	240
Less than 0.31 percent sulfur	--	--	1,470	--	--	--	-2	--	NA	NA	32
0.31 to 1.00 percent sulfur	--	--	154	--	--	--	21	--	NA	NA	25
Greater than 1.00 percent sulfur	--	--	916	--	--	--	-3	--	NA	NA	183
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	75	-75	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	5,471	--	-2,063	--	-69	--	0	3,477	75
Marketable	--	--	3,725	--	-2,063	--	-69	--	0	1,731	75
Catalyst	--	--	1,746	--	--	--	--	--	--	1,746	--
Asphalt and Road Oil	--	--	7,786	329	-2,078	--	181	--	43	5,813	1,625
Still Gas	--	--	5,073	--	--	--	--	--	--	5,073	--
Miscellaneous Products	--	--	788	8	--	--	3	--	0	793	20
Total	219,246	2,931	142,207	75,879	-160,674	5,685	-2,762	135,860	3,321	148,856	41,764

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

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.
² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	689	--	--	308	-411	33	-34	649	4	0
Hydrocarbon Gas Liquids	387	0	22	7	-352	--	10	17	2	35
Natural Gas Liquids	387	0	19	7	-352	--	9	17	2	33
Ethane	110	--	--	--	--	--	0	--	--	7
Propane	137	--	10	6	-127	--	3	--	0	22
Normal Butane	54	--	8	0	-47	--	6	4	1	5
Isobutane	24	--	1	1	-26	--	0	7	--	-8
Natural Gasoline	62	0	--	--	-48	--	0	7	1	6
Refinery Olefins	--	--	3	--	--	--	1	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	1
Butylene	--	--	3	--	--	--	1	--	--	2
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	2	22	-30	-7	11	0	5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	14	12	-1	41	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	14	6	-1	35	0	0
Fuel Ethanol	--	14	--	--	12	6	-1	33	--	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	2	0	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	1	-6	--	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	8	-43	-8	-25	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	8	-43	-8	-25	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	687	1	-3	37	-16	--	1	736
Finished Motor Gasoline	--	--	337	--	-13	37	-2	--	0	363
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	337	--	-13	37	-2	--	0	363
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	42	--	24	--	0	--	--	65
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	200	0	6	0	-5	--	--	211
15 ppm sulfur and under	--	--	198	0	6	0	-4	--	--	209
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	--	2
Greater than 500 ppm sulfur	--	--	0	--	--	--	-1	--	--	0
Residual Fuel Oil ⁶	--	--	13	--	--	--	0	--	1	12
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	--	--
Petroleum Coke	--	--	26	--	-5	--	0	--	--	22
Marketable	--	--	18	--	-5	--	0	--	--	13
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	39	1	-15	--	-8	--	0	33
Still Gas	--	--	25	--	--	--	--	--	--	25
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,076	14	709	318	-744	39	-48	677	7	776

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	657	--	--	343	-405	20	-8	619	3	0
Hydrocarbon Gas Liquids	377	0	16	11	-336	--	3	19	11	35
Natural Gas Liquids	377	0	14	11	-336	--	3	19	11	34
Ethane	106	--	--	--	--	--	0	--	--	8
Propane	136	--	10	10	-121	--	0	--	0	34
Normal Butane	53	--	4	0	-46	--	3	6	1	1
Isobutane	25	--	1	1	-26	--	0	7	--	-7
Natural Gasoline	58	0	--	--	-45	--	0	5	10	-3
Refinery Olefins	--	--	2	--	--	--	0	--	--	2
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1	--	--	--	0	--	--	0
Butylene	--	--	1	--	--	--	0	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	1	3	-14	-1	3	0	2
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	12	12	0	38	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	12	5	0	31	0	0
Fuel Ethanol	--	14	--	--	10	4	0	29	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	0	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	1	-3	0	2
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1	-9	-26	-2	-31	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-9	-26	-2	-31	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	655	3	-20	21	-6	--	1	665
Finished Motor Gasoline	--	--	314	--	-17	21	-4	--	0	321
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	314	--	-17	21	-4	--	0	321
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	35	0	22	--	0	--	--	57
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	204	1	-5	0	-4	--	--	204
15 ppm sulfur and under	--	--	202	1	-4	0	-4	--	--	203
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	-1	--	0	--	--	-1
Residual Fuel Oil ⁶	--	--	12	--	--	--	0	--	1	11
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	26	--	-10	--	0	--	0	16
Marketable	--	--	18	--	-10	--	0	--	0	8
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	37	2	-10	--	1	--	0	27
Still Gas	--	--	24	--	--	--	--	--	--	24
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,034	14	671	358	-758	27	-13	641	16	702

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, July 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	28,296	--	--	37,272	4,160	4,989	-3,417	77,608	525	0	50,720
Hydrocarbon Gas Liquids	1,525	-14	2,557	727	536	--	837	1,774	1,336	1,384	5,262
Natural Gas Liquids	1,525	-14	2,288	727	536	--	824	1,774	1,336	1,128	5,091
Ethane	2	--	--	--	--	--	--	--	--	2	--
Propane	324	--	1,199	706	278	--	426	--	859	1,222	1,690
Normal Butane	88	--	985	16	182	--	475	518	467	-189	2,887
Isobutane	444	--	104	5	76	--	-32	720	0	-59	471
Natural Gasoline	667	-14	--	--	--	--	-45	536	10	152	43
Refinery Olefins	--	--	269	--	--	--	13	--	--	256	171
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	235	--	--	--	2	--	--	233	14
Butylene	--	--	34	--	--	--	11	--	--	23	157
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	927	--	3,636	10,190	-1,463	-2,257	14,561	542	445	49,270
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	927	--	751	5,185	209	-185	7,049	209	0	3,395
Hydrogen	--	--	--	--	--	1,266	--	1,266	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	927	--	751	5,185	-1,059	-185	5,783	207	0	3,395
Fuel Ethanol	--	612	--	269	4,918	-720	-117	5,023	173	0	2,406
Renewable Fuels Except Fuel Ethanol	--	315	--	482	267	-338	-68	760	34	0	989
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,745	--	--	-1,677	2,949	28	445	20,662
Motor Gasoline Blend Comp. (MGBC)	--	--	--	1,140	5,005	-1,672	-395	4,563	305	0	25,213
Reformulated	--	--	--	268	2,571	184	816	2,206	1	0	12,566
Conventional	--	--	--	872	2,434	-1,856	-1,211	2,357	304	0	12,647
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	96,736	5,645	2,324	2,636	113	--	9,891	97,337	32,553
Finished Motor Gasoline	--	--	50,439	43	265	2,392	-29	--	803	52,365	2,067
Reformulated	--	--	35,190	--	--	-569	-1	--	--	34,622	19
Conventional	--	--	15,249	43	265	2,961	-28	--	803	17,743	2,048
Finished Aviation Gasoline	--	--	2	4	--	--	-23	--	--	29	192
Kerosene-Type Jet Fuel	--	--	15,162	3,425	324	--	381	--	1,328	17,202	8,996
Kerosene	--	--	2	55	--	--	-1	--	5	53	9
Distillate Fuel Oil	--	--	17,276	702	1,285	244	-59	--	3,155	16,411	12,442
15 ppm sulfur and under	--	--	16,400	702	1,285	244	-311	--	2,403	16,539	11,277
Greater than 15 ppm to 500 ppm sulfur	--	--	315	--	--	--	23	--	190	102	262
Greater than 500 ppm sulfur	--	--	561	--	--	--	229	--	562	-230	903
Residual Fuel Oil ⁶	--	--	3,212	814	--	--	-6	--	684	3,348	4,540
Less than 0.31 percent sulfur	--	--	--	--	--	--	-24	--	NA	NA	155
0.31 to 1.00 percent sulfur	--	--	666	184	--	--	85	--	NA	NA	524
Greater than 1.00 percent sulfur	--	--	2,546	630	--	--	-67	--	NA	NA	3,855
Petrochemical Feedstocks	--	--	4	38	--	--	0	--	--	42	5
Naphtha for Petro. Feed. Use	--	--	4	38	--	--	0	--	--	42	5
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	43	--	--	--	-8	--	--	51	43
Lubricants	--	--	523	395	--	--	-3	--	325	596	832
Waxes	--	--	--	26	--	--	--	--	7	19	--
Petroleum Coke	--	--	4,819	34	29	--	-53	--	3,546	1,389	1,529
Marketable	--	--	3,769	34	29	--	-53	--	3,546	339	1,529
Catalyst	--	--	1,050	--	--	--	--	--	--	1,050	--
Asphalt and Road Oil	--	--	913	109	421	--	-102	--	37	1,507	1,773
Still Gas	--	--	3,920	--	--	--	--	--	--	3,920	--
Miscellaneous Products	--	--	421	--	--	--	16	--	0	405	125
Total	29,821	913	99,293	47,280	17,210	6,162	-4,724	93,943	12,295	99,166	137,805

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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

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-July 2017
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	210,025	--	--	247,727	30,186	20,072	-985	505,162	3,833	0	50,720
Hydrocarbon Gas Liquids	14,119	-93	13,837	6,934	5,344	--	864	17,751	9,185	12,341	5,262
Natural Gas Liquids	14,119	-93	11,871	6,934	5,344	--	715	17,751	9,185	10,524	--
Ethane	13	--	--	--	--	--	--	--	0	13	--
Propane	2,244	--	7,973	5,896	2,172	--	127	--	6,497	11,661	--
Normal Butane	2,165	--	3,224	948	2,255	--	581	6,394	2,585	-968	--
Isobutane	2,920	--	674	90	917	--	-1	5,417	0	-815	--
Natural Gasoline	6,777	-93	--	--	--	--	8	5,940	102	634	--
Refinery Olefins	--	--	1,966	--	--	--	149	--	--	1,817	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,814	--	--	--	2	--	--	1,812	--
Butylene	--	--	152	--	--	--	147	--	--	5	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	5,781	--	33,708	68,749	-8,207	-468	94,861	4,487	1,151	49,270
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	5,781	--	3,727	34,227	3,443	-655	46,228	1,605	0	3,395
Hydrogen	--	--	--	--	--	7,861	--	7,861	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	12	--	--	12	0	--
Renewable Fuels (including Fuel Ethanol)	--	5,781	--	3,727	34,227	-4,430	-655	38,367	1,593	0	3,395
Fuel Ethanol	--	4,101	--	718	31,789	-1,590	-67	33,637	1,448	0	2,406
Renewable Fuels Except Fuel Ethanol	--	1,680	--	3,009	2,439	-2,841	-588	4,730	145	0	989
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	22,148	--	--	2,090	17,831	1,076	1,151	20,662
Motor Gasoline Blend Comp. (MGBC)	--	--	--	7,833	34,522	-11,650	-1,903	30,802	1,806	0	25,213
Reformulated	--	--	--	268	16,954	165	-1,758	19,140	5	0	12,566
Conventional	--	--	--	7,565	17,568	-11,815	-145	11,662	1,801	0	12,647
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	643,746	34,194	13,804	15,451	-141	--	71,625	635,711	32,553
Finished Motor Gasoline	--	--	340,742	955	2,162	13,240	-92	--	9,809	347,382	2,067
Reformulated	--	--	238,945	--	--	72	3	--	--	239,014	19
Conventional	--	--	101,797	955	2,162	13,167	-95	--	9,809	108,368	2,048
Finished Aviation Gasoline	--	--	101	9	140	--	-1	--	--	251	192
Kerosene-Type Jet Fuel	--	--	95,113	19,361	1,888	--	-207	--	6,321	110,248	8,996
Kerosene	--	--	78	55	--	--	-38	--	22	149	9
Distillate Fuel Oil	--	--	114,137	2,517	7,157	2,212	-393	--	21,639	104,777	12,442
15 ppm sulfur and under	--	--	109,011	2,422	7,157	2,212	-573	--	13,715	107,660	11,277
Greater than 15 ppm to 500 ppm sulfur	--	--	2,067	--	--	--	-5	--	1,482	590	262
Greater than 500 ppm sulfur	--	--	3,059	95	--	--	185	--	6,442	-3,473	903
Residual Fuel Oil ⁶	--	--	24,264	9,364	--	--	62	--	4,284	29,282	4,540
Less than 0.31 percent sulfur	--	--	37	--	--	--	21	--	NA	NA	155
0.31 to 1.00 percent sulfur	--	--	4,277	674	--	--	-325	--	NA	NA	524
Greater than 1.00 percent sulfur	--	--	19,950	8,690	--	--	366	--	NA	NA	3,855
Petrochemical Feedstocks	--	--	22	267	--	--	4	--	--	285	5
Naphtha for Petro. Feed. Use	--	--	22	235	--	--	4	--	--	253	5
Other Oils for Petro. Feed. Use	--	--	--	32	--	--	--	--	--	32	--
Special Naphthas	--	--	202	45	--	--	14	--	--	233	43
Lubricants	--	--	3,791	484	-211	--	234	--	1,660	2,170	832
Waxes	--	--	--	222	--	--	--	--	43	179	--
Petroleum Coke	--	--	31,890	211	356	--	316	--	27,619	4,522	1,529
Marketable	--	--	24,744	211	356	--	316	--	27,619	-2,624	1,529
Catalyst	--	--	7,146	--	--	--	--	--	--	7,146	--
Asphalt and Road Oil	--	--	5,142	703	2,312	--	-88	--	225	8,020	1,773
Still Gas	--	--	25,402	--	--	--	--	--	--	25,402	--
Miscellaneous Products	--	--	2,862	1	--	--	48	--	2	2,813	125
Total	224,144	5,688	657,583	322,563	118,084	27,316	-730	617,774	89,129	649,204	137,805

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

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² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.
⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
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⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.
Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.
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Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, July 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	913	--	--	1,202	134	161	-110	2,503	17	0
Hydrocarbon Gas Liquids	49	0	82	23	17	--	27	57	43	45
Natural Gas Liquids	49	0	74	23	17	--	27	57	43	36
Ethane	0	--	--	--	--	--	--	--	--	0
Propane	10	--	39	23	9	--	14	--	28	39
Normal Butane	3	--	32	1	6	--	15	17	15	-6
Isobutane	14	--	3	0	2	--	-1	23	0	-2
Natural Gasoline	22	0	--	--	--	--	-1	17	0	5
Refinery Olefins	--	--	9	--	--	--	0	--	--	8
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	8	--	--	--	0	--	--	8
Butylene	--	--	1	--	--	--	0	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	30	--	117	329	-47	-73	470	17	14
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	24	167	7	-6	227	7	0
Hydrogen	--	--	--	--	--	41	--	41	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	30	--	24	167	-34	-6	187	7	0
Fuel Ethanol	--	20	--	9	159	-23	-4	162	6	0
Renewable Fuels Except Fuel Ethanol	--	10	--	16	9	-11	-2	25	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	56	--	--	-54	95	1	14
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	37	161	-54	-13	147	10	0
Reformulated	--	--	--	9	83	6	26	71	0	0
Conventional	--	--	--	28	79	-60	-39	76	10	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,121	182	75	85	4	--	319	3,140
Finished Motor Gasoline	--	--	1,627	1	9	77	-1	--	26	1,689
Reformulated	--	--	1,135	--	--	-18	0	--	--	1,117
Conventional	--	--	492	1	9	96	-1	--	26	572
Finished Aviation Gasoline	--	--	0	0	--	--	-1	--	--	1
Kerosene-Type Jet Fuel	--	--	489	110	10	--	12	--	43	555
Kerosene	--	--	0	2	--	--	0	--	0	2
Distillate Fuel Oil	--	--	557	23	41	8	-2	--	102	529
15 ppm sulfur and under	--	--	529	23	41	8	-10	--	78	534
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	1	--	6	3
Greater than 500 ppm sulfur	--	--	18	--	--	--	7	--	18	-7
Residual Fuel Oil ⁶	--	--	104	26	--	--	0	--	22	108
Less than 0.31 percent sulfur	--	--	--	--	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	6	--	--	3	--	NA	NA
Greater than 1.00 percent sulfur	--	--	82	20	--	--	-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	--	--	2
Lubricants	--	--	17	13	--	--	0	--	10	19
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	155	1	1	--	-2	--	114	45
Marketable	--	--	122	1	1	--	-2	--	114	11
Catalyst	--	--	34	--	--	--	--	--	--	34
Asphalt and Road Oil	--	--	29	4	14	--	-3	--	1	49
Still Gas	--	--	126	--	--	--	--	--	--	126
Miscellaneous Products	--	--	14	--	--	--	1	--	0	13
Total	962	29	3,203	1,525	555	199	-152	3,030	397	3,199

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

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

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

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-July 2017
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	991	--	--	1,169	142	95	-5	2,383	18	0
Hydrocarbon Gas Liquids	67	0	65	33	25	--	4	84	43	58
Natural Gas Liquids	67	0	56	33	25	--	3	84	43	50
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	11	--	38	28	10	--	1	--	31	55
Normal Butane	10	--	15	4	11	--	3	30	12	-5
Isobutane	14	--	3	0	4	--	0	26	0	-4
Natural Gasoline	32	0	--	--	--	--	0	28	0	3
Refinery Olefins	--	--	9	--	--	--	1	--	--	9
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9	--	--	--	0	--	--	9
Butylene	--	--	1	--	--	--	1	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	27	--	159	324	-39	-2	447	21	5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	27	--	18	161	16	-3	218	8	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	27	--	18	161	-21	-3	181	8	0
Fuel Ethanol	--	19	--	3	150	-7	0	159	7	0
Renewable Fuels Except Fuel Ethanol	--	8	--	14	12	-13	-3	22	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	104	--	--	10	84	5	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	37	163	-55	-9	145	9	0
Reformulated	--	--	--	1	80	1	-8	90	0	0
Conventional	--	--	--	36	83	-56	-1	55	8	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,037	161	65	73	-1	--	338	2,999
Finished Motor Gasoline	--	--	1,607	5	10	62	0	--	46	1,639
Reformulated	--	--	1,127	--	--	0	0	--	--	1,127
Conventional	--	--	480	5	10	62	0	--	46	511
Finished Aviation Gasoline	--	--	0	0	1	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	449	91	9	--	-1	--	30	520
Kerosene	--	--	0	0	--	--	0	--	0	1
Distillate Fuel Oil	--	--	538	12	34	10	-2	--	102	494
15 ppm sulfur and under	--	--	514	11	34	10	-3	--	65	508
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	0	--	7	3
Greater than 500 ppm sulfur	--	--	14	0	--	--	1	--	30	-16
Residual Fuel Oil ⁶	--	--	114	44	--	--	0	--	20	138
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	20	3	--	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	94	41	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	18	2	-1	--	1	--	8	10
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	150	1	2	--	1	--	130	21
Marketable	--	--	117	1	2	--	1	--	130	-12
Catalyst	--	--	34	--	--	--	--	--	--	34
Asphalt and Road Oil	--	--	24	3	11	--	0	--	1	38
Still Gas	--	--	120	--	--	--	--	--	--	120
Miscellaneous Products	--	--	14	0	--	--	0	--	0	13
Total	1,057	27	3,102	1,522	557	129	-3	2,914	420	3,062

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

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,573	52,177	182,964	21,356	28,296	286,366	9,238
Alaskan	--	--	--	--	--	13,103	423
Lower 48 States	--	--	--	--	--	273,264	8,815
Imports (PAD District of Entry)	29,160	75,679	90,922	9,547	37,272	242,580	7,825
Commercial	29,160	75,679	90,922	9,547	37,272	242,580	7,825
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	1,713	-5,580	12,452	-12,746	4,160	--	--
Adjustments ¹	1,356	-560	10,488	1,018	4,989	17,290	558
Disposition							
Stock Change ²	382	-4,364	-9,843	-1,068	-3,417	-18,310	-591
Commercial	--	--	-9,552	--	--	-18,019	-581
SPR	--	--	-291	--	--	-291	-9
Refinery Inputs	33,420	119,644	286,060	20,123	77,608	536,855	17,318
Exports	0	6,437	20,609	120	525	27,691	893
Ending Stocks							
Total	16,155	144,453	928,331	21,618	50,720	1,161,277	--
Commercial	16,155	144,453	249,448	21,618	50,720	482,394	--
Refinery	12,263	14,146	47,681	2,699	23,202	99,991	--
Tank Farms and Pipelines	3,892	130,307	201,767	18,919	24,287	379,172	--
Cushing, Oklahoma	--	57,268	--	--	--	57,268	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	3,231	3,231	--
SPR	--	--	678,883	--	--	678,883	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	58.5	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	34.0	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	188	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	29,160	75,679	90,922	9,547	37,272	242,580	7,825
PAD District of Processing	29,063	68,238	99,628	7,865	37,786	242,580	7,825

-- = 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, July 2017
(Thousand Barrels)

PAD District and State	July 2017		January-July 2017	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,573	51	9,790	46
Florida	172	6	1,154	5
New York	19	1	128	1
Pennsylvania	599	19	3,495	16
Virginia	0	0	2	0
West Virginia	783	25	5,010	24
PAD District 2	52,177	1,683	351,439	1,658
Illinois	674	22	4,805	23
Indiana	143	5	1,040	5
Kansas	3,040	98	20,995	99
Kentucky	261	8	1,495	7
Michigan	381	12	3,145	15
Missouri	9	0	67	0
Nebraska	208	7	1,372	6
North Dakota	31,996	1,032	215,693	1,017
Ohio	1,586	51	10,580	50
Oklahoma	13,749	444	91,333	431
South Dakota	109	4	766	4
Tennessee	21	1	149	1
PAD District 3	182,964	5,902	1,217,752	5,744
Alabama	550	18	4,053	19
Arkansas	435	14	2,978	14
Louisiana	4,298	139	29,924	141
Mississippi	1,551	50	10,684	50
New Mexico	13,853	447	93,753	442
Texas	107,686	3,474	713,579	3,366
Federal Offshore PAD District 3	54,591	1,761	362,780	1,711
PAD District 4	21,356	689	139,259	657
Colorado	10,605	342	66,297	313
Idaho	7	0	68	0
Montana	1,687	54	12,025	57
Utah	2,777	90	18,786	89
Wyoming	6,280	203	42,083	199
PAD District 5	28,296	913	210,025	991
Alaska	13,103	423	105,146	496
South Alaska	475	15	2,858	13
North Slope	12,628	407	102,288	482
Arizona	2	0	7	0
California	14,663	473	101,330	478
Nevada	23	1	163	1
Federal Offshore PAD District 5	505	16	3,379	16
U.S. Total	286,366	9,238	1,928,265	9,096

– = 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, July 2017
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	15	13,503	13,518	5,924	7,442	13,065	26,431
Natural Gas Liquids	15	13,503	13,518	5,924	7,442	13,065	26,431
Ethane	-	5,814	5,814	1,982	2,075	4,252	8,309
Propane	5	4,405	4,410	2,464	2,720	4,583	9,767
Normal Butane	10	1,321	1,331	468	1,220	1,422	3,110
Isobutane	-	662	662	560	298	967	1,825
Natural Gasoline	-	1,301	1,301	450	1,129	1,841	3,420

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	44,230	5,669	6,074	1,038	5,932	62,943	11,996	1,525	116,413
Natural Gas Liquids	44,230	5,669	6,074	1,038	5,932	62,943	11,996	1,525	116,413
Ethane	17,776	2,550	2,357	383	2,232	25,298	3,404	2	42,827
Propane	13,679	1,607	1,931	233	1,938	19,388	4,243	324	38,132
Normal Butane	4,677	-3,322	674	105	571	2,705	1,678	88	8,912
Isobutane	2,824	4,270	398	81	468	8,041	758	444	11,730
Natural Gasoline	5,274	564	714	236	723	7,511	1,913	667	14,812

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	6	269	275	1,049	131	664	1,844
Natural Gas Liquids	6	269	275	1,049	131	664	1,844
Ethane	-	-	-	85	2	170	257
Propane	3	147	150	653	46	199	898
Normal Butane	3	37	40	105	27	123	255
Isobutane	-	16	16	115	5	74	194
Natural Gasoline	-	69	69	91	51	98	240

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	171	2,494	1,361	27	-	4,053	143	530	6,845
Natural Gas Liquids	171	2,494	1,361	27	-	4,053	143	530	6,845
Ethane	1	434	-	-	-	435	-	-	692
Propane	129	1,045	15	18	-	1,207	60	29	2,344
Normal Butane	9	507	994	5	-	1,515	29	423	2,262
Isobutane	5	477	57	-	-	539	10	43	802
Natural Gasoline	27	31	295	4	-	357	44	35	745

- = 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, July 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	31,292	2,128	33,420	76,818	15,283	27,543	119,644
Hydrocarbon Gas Liquids	464	-	464	1,644	60	909	2,613
Natural Gas Liquids	464	-	464	1,644	60	909	2,613
Normal Butane	80	-	80	15	4	53	72
Isobutane	384	-	384	1,120	53	390	1,563
Natural Gasoline	-	-	-	509	3	466	978
Other Liquids	80,589	6,857	87,446	11,947	4,198	3,393	19,538
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	10,111	778	10,889	5,996	1,536	1,877	9,409
Hydrogen	98	2	100	675	201	180	1,056
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	10,013	776	10,789	5,274	1,335	1,697	8,306
Fuel Ethanol	9,790	731	10,521	5,011	1,207	1,628	7,846
Renewable Diesel Fuel	223	45	268	263	128	69	460
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	47	-	-	47
Unfinished Oils (net)	1,744	-52	1,692	-63	-359	-112	-534
Naphthas and Lighter	811	-22	789	621	-143	-41	437
Kerosene and Light Gas Oils	-107	-	-107	41	-88	67	20
Heavy Gas Oils	910	-28	882	-378	-129	-147	-654
Residuum	130	-2	128	-347	1	9	-337
Motor Gasoline Blend.Comp. (MGBC)(net)	68,734	6,131	74,865	6,014	3,021	1,628	10,663
Reformulated - RBOB	21,201	266	21,467	-1,543	1,271	1,009	737
Conventional	47,533	5,865	53,398	7,557	1,750	619	9,926
CBOB	39,268	5,860	45,128	7,515	1,843	736	10,094
GTAB	2,205	-	2,205	-	-	-	-
Other	6,060	5	6,065	42	-93	-117	-168
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	112,345	8,985	121,330	90,409	19,541	31,845	141,795

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2017
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,972	143,878	109,002	6,988	4,220	286,060	20,123	77,608	536,855
Hydrocarbon Gas Liquids	337	5,040	2,820	45	188	8,430	537	1,774	13,818
Natural Gas Liquids	337	5,040	2,820	45	188	8,430	537	1,774	13,818
Normal Butane	90	940	268	3	—	1,301	109	518	2,080
Isobutane	103	1,944	1,775	41	188	4,051	226	720	6,944
Natural Gasoline	144	2,156	777	1	—	3,078	202	536	4,794
Other Liquids	9,719	-40,828	-28,494	8,064	-367	-51,906	326	14,561	69,965
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,147	3,368	2,421	1,200	233	9,369	1,278	7,049	37,994
Hydrogen	17	2,396	1,859	64	45	4,381	204	1,266	7,007
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,130	972	562	1,136	188	4,988	1,074	5,783	30,940
Fuel Ethanol	2,024	855	464	1,065	179	4,587	1,009	5,023	28,986
Renewable Diesel Fuel	106	117	98	71	9	401	65	755	1,949
Other Renewable Fuels	—	—	—	—	—	—	—	5	5
Other Hydrocarbons	—	—	—	—	—	—	—	—	47
Unfinished Oils (net)	56	-955	8,452	-20	36	7,569	-185	2,949	11,491
Naphthas and Lighter	-204	-5,050	-733	17	18	-5,952	-125	639	-4,212
Kerosene and Light Gas Oils	170	-2,829	937	-24	16	-1,730	-394	-447	-2,658
Heavy Gas Oils	38	5,996	7,165	-4	2	13,197	263	2,003	15,691
Residuum	52	928	1,083	-9	—	2,054	71	754	2,670
Motor Gasoline Blend.Comp. (MGBC)(net)	7,516	-43,241	-39,369	6,884	-636	-68,846	-767	4,563	20,478
Reformulated - RBOB	5,679	-11,233	-6,961	—	-954	-13,469	—	2,206	10,941
Conventional	1,837	-32,008	-32,408	6,884	318	-55,377	-767	2,357	9,537
CBOB	1,806	-33,262	-30,628	6,914	288	-54,882	-781	756	315
GTAB	—	—	—	—	—	—	—	—	2,205
Other	31	1,254	-1,780	-30	30	-495	14	1,601	7,017
Aviation Gasoline Blend. Comp. (net)	—	—	2	—	—	2	—	—	2
Total Input	32,028	108,090	83,328	15,097	4,041	242,584	20,986	93,943	620,638

— = 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, July 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,646	31	1,677	4,652	495	681	5,828
Natural Gas Liquids	1,226	31	1,257	3,724	336	526	4,586
Ethane	-	-	-	-	-	-	-
Propane	666	17	683	1,665	233	456	2,354
Normal Butane	561	30	591	2,108	140	105	2,353
Isobutane	-1	-16	-17	-49	-37	-35	-121
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	420	-	420	928	159	155	1,242
Ethylene	15	-	15	-	-	-	-
Propylene	410	-	410	797	159	154	1,110
Butylene	-65	-	-65	131	-	1	132
Isobutylene	60	-	60	-	-	-	-
Finished Motor Gasoline	94,828	7,560	102,388	52,798	11,744	17,583	82,125
Reformulated	40,529	296	40,825	8,512	1,502	1,176	11,190
Reformulated Blended with Fuel Ethanol	40,529	296	40,825	8,512	1,502	1,176	11,190
Reformulated Other	-	-	-	-	-	-	-
Conventional	54,299	7,264	61,563	44,286	10,242	16,407	70,935
Conventional Blended with Fuel Ethanol	56,558	7,047	63,605	41,095	10,446	14,681	66,222
Ed55 and Lower	56,520	7,047	63,567	41,086	10,422	14,628	66,136
Greater than Ed55	38	-	38	9	24	53	86
Conventional Other	-2,259	217	-2,042	3,191	-204	1,726	4,713
Finished Aviation Gasoline	-	-	-	-	49	-	49
Kerosene-Type Jet Fuel	2,916	-	2,916	6,496	1,051	1,001	8,548
Kerosene	101	-	101	-	-	1	1
Distillate Fuel Oil	9,631	606	10,237	18,559	4,013	10,573	33,145
15 ppm sulfur and under	8,406	540	8,946	18,537	4,015	10,549	33,101
Greater than 15 ppm to 500 ppm sulfur	18	58	76	-176	-16	114	-78
Greater than 500 ppm sulfur	1,207	8	1,215	198	14	-90	122
Residual Fuel Oil	1,389	6	1,395	1,225	261	27	1,513
Less than 0.31 percent sulfur	402	6	408	68	-	-	68
0.31 to 1.00 percent sulfur	408	-	408	111	57	-	168
Greater than 1.00 percent sulfur	579	-	579	1,046	204	27	1,277
Petrochemical Feedstocks	127	-	127	915	-	21	936
Naphtha for Petro. Feed. Use	127	-	127	710	-	-	710
Other Oils for Petro. Feed. Use	-	-	-	205	-	21	226
Special Naphthas	-	21	21	45	-	16	61
Lubricants	181	214	395	-	-	280	280
Waxes	-	11	11	-	-	44	44
Petroleum Coke	1,044	12	1,056	4,238	691	1,009	5,938
Marketable	362	-	362	3,079	523	784	4,386
Catalyst	682	12	694	1,159	168	225	1,552
Asphalt and Road Oil	574	410	984	3,082	1,568	611	5,261
Still Gas	1,218	37	1,255	3,009	559	1,031	4,599
Miscellaneous Products	64	26	90	342	85	62	489
Total	113,719	8,934	122,653	95,361	20,516	32,940	148,817
Processing Gain(-) or Loss(+) ¹	-1,374	51	-1,323	-4,952	-975	-1,095	-7,022

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, July 2017
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	891	8,933	6,456	91	76	16,447	683	2,557	27,192
Natural Gas Liquids	459	4,934	3,346	51	75	8,865	579	2,288	17,575
Ethane	1	129	17	-	-	147	-	-	147
Propane	331	2,481	2,008	18	46	4,884	301	1,199	9,421
Normal Butane	278	2,845	989	33	26	4,171	262	985	8,362
Isobutane	-151	-521	332	-	3	-337	16	104	-355
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	432	3,999	3,110	40	1	7,582	104	269	9,617
Ethylene	-	8	-	-	-	8	-	-	23
Propylene	432	3,830	3,309	40	-	7,611	23	235	9,389
Butylene	-	215	-199	-	1	17	81	34	199
Isobutylene	-	-54	-	-	-	-54	-	-	6
Finished Motor Gasoline	21,204	23,656	12,788	9,993	1,913	69,554	10,436	50,439	314,942
Reformulated	7,641	6,670	-	-	-	14,311	-	35,190	101,516
Reformulated Blended with Fuel Ethanol	7,641	6,670	-	-	-	14,311	-	35,190	101,516
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	13,563	16,986	12,788	9,993	1,913	55,243	10,436	15,249	213,426
Conventional Blended with Fuel Ethanol	12,397	1,739	4,593	10,619	1,807	31,155	10,029	14,810	185,821
Ed55 and Lower	12,384	1,739	4,593	10,610	1,807	31,133	10,017	14,808	185,661
Greater than Ed55	13	-	-	9	-	22	12	2	160
Conventional Other	1,166	15,247	8,195	-626	106	24,088	407	439	27,605
Finished Aviation Gasoline	93	63	89	-	-	245	7	2	303
Kerosene-Type Jet Fuel	1,552	14,385	12,284	170	-	28,391	1,292	15,162	56,309
Kerosene	0	-	-1	7	-	6	-	2	110
Distillate Fuel Oil	6,933	43,971	38,187	2,496	1,856	93,443	6,191	17,276	160,292
15 ppm sulfur and under	6,928	41,369	31,857	2,290	1,856	84,300	6,144	16,400	148,891
Greater than 15 ppm to 500 ppm sulfur	-3	551	2,365	46	-	2,959	60	315	3,332
Greater than 500 ppm sulfur	8	2,051	3,965	160	-	6,184	-13	561	8,069
Residual Fuel Oil	290	1,681	3,786	-144	150	5,763	404	3,212	12,287
Less than 0.31 percent sulfur	169	-6	748	-	-	911	219	-	1,606
0.31 to 1.00 percent sulfur	-	-8	304	-144	17	169	33	666	1,444
Greater than 1.00 percent sulfur	121	1,695	2,734	-	133	4,683	152	2,546	9,237
Petrochemical Feedstocks	119	5,573	2,973	6	-	8,671	-	4	9,738
Naphtha for Petro. Feed. Use	122	3,806	1,330	6	-	5,264	-	4	6,105
Other Oils for Petro. Feed. Use	-3	1,767	1,643	-	-	3,407	-	-	3,633
Special Naphthas	91	903	-	234	-	1,228	-	43	1,353
Lubricants	25	1,839	2,017	923	-	4,804	-	523	6,002
Waxes	-	40	46	21	-	107	-	-	162
Petroleum Coke	508	9,201	6,640	88	43	16,480	820	4,819	29,113
Marketable	237	7,072	5,267	72	-	12,648	561	3,769	21,726
Catalyst	271	2,129	1,373	16	43	3,832	259	1,050	7,387
Asphalt and Road Oil	259	413	901	1,005	-63	2,515	1,224	913	10,897
Still Gas	860	6,393	4,595	189	82	12,119	780	3,920	22,673
Miscellaneous Products	119	1,088	672	23	46	1,948	134	421	3,082
Total	32,944	118,139	91,433	15,102	4,103	261,721	21,971	99,293	654,455
Processing Gain(-) or Loss(+) ¹	-916	-10,049	-8,105	-5	-62	-19,137	-985	-5,350	-33,817

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2017
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	31,292	2,128	33,420	76,818	15,283	27,543	119,644
Hydrocarbon Gas Liquids	389	-	389	1,644	54	832	2,530
Natural Gas Liquids	389	-	389	1,644	54	832	2,530
Normal Butane	5	-	5	15	1	18	34
Isobutane	384	-	384	1,120	53	390	1,563
Natural Gasoline	-	-	-	509	-	424	933
Other Liquids	-13,654	15	-13,639	-34,576	-5,577	-11,115	-51,268
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	173	66	239	940	387	284	1,611
Hydrogen	98	2	100	675	201	180	1,056
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	75	64	139	218	186	104	508
Fuel Ethanol	75	52	127	138	152	99	389
Renewable Diesel Fuel	-	12	12	80	34	5	119
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	47	-	-	47
Unfinished Oils (net)	1,742	-52	1,690	-102	-359	-112	-573
Naphthas and Lighter	811	-22	789	621	-143	-41	437
Kerosene and Light Gas Oils	-107	-	-107	41	-88	67	20
Heavy Gas Oils	908	-28	880	-378	-129	-147	-654
Residuum	130	-2	128	-386	1	9	-376
Motor Gasoline Blend.Comp. (MGBC)(net)	-15,569	1	-15,568	-35,414	-5,605	-11,287	-52,306
Reformulated - RBOB	-9,671	-	-9,671	-9,136	-80	-50	-9,266
Conventional	-5,898	1	-5,897	-26,278	-5,525	-11,237	-43,040
CBOB	-5,958	-4	-5,962	-26,276	-5,432	-11,120	-42,828
GTAB	-	-	-	-	-	-	-
Other	60	5	65	-2	-93	-117	-212
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	18,027	2,143	20,170	43,886	9,760	17,260	70,906
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	1,009	69	1,079	2,474	494	890	3,858
Operable Capacity (daily average)	1,083	98	1,182	2,607	520	884	4,011
Operable Utilization Rate (percent) ²	93.2	70.5	91.3	94.9	95.0	100.7	96.2
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	185	12	197	497	84	166	747
Catalytic Cracking	391	9	400	778	137	217	1,132
Catalytic Hydrocracking	34	-	34	217	56	60	334
Delayed and Fluid Coking	47	-	47	342	50	92	484
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.81	1.50	0.85	1.63	1.88	0.77	1.46
API Gravity, Weighted Average (degrees)	35.00	33.56	34.91	34.07	29.60	37.48	34.24
Operable Capacity (daily average)	1,083	98	1,182	2,607	520	884	4,011
Operating	1,083	98	1,182	2,585	520	884	3,989
Idle	-	-	-	22	-	-	22
Alaskan Crude Oil Receipts	-	-	-	-	-	-	-

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2017
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	21,972	143,878	109,002	6,988	4,220	286,060	20,123	77,608	536,855
Hydrocarbon Gas Liquids	333	4,521	2,819	42	188	7,903	515	1,768	13,105
Natural Gas Liquids	333	4,521	2,819	42	188	7,903	515	1,768	13,105
Normal Butane	90	859	267	—	—	1,216	105	512	1,872
Isobutane	103	1,944	1,775	41	188	4,051	225	720	6,943
Natural Gasoline	140	1,718	777	1	—	2,636	185	536	4,290
Other Liquids	-8,168	-52,427	-31,288	-1,486	-1,543	-94,912	-4,981	-33,177	-197,977
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	262	2,457	2,140	107	104	5,070	557	1,619	9,096
Hydrogen	17	2,396	1,859	64	45	4,381	204	1,266	7,007
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	245	61	281	43	59	689	353	353	2,042
Fuel Ethanol	203	49	183	31	59	525	302	90	1,433
Renewable Diesel Fuel	42	12	98	12	—	164	51	258	604
Other Renewable Fuels	—	—	—	—	—	—	—	5	5
Other Hydrocarbons	—	—	—	—	—	—	—	—	47
Unfinished Oils (net)	56	-955	8,448	-20	36	7,565	-185	2,949	11,446
Naphthas and Lighter	-204	-5,050	-733	17	18	-5,952	-125	639	-4,212
Kerosene and Light Gas Oils	170	-2,829	929	-24	16	-1,738	-394	-447	-2,666
Heavy Gas Oils	38	5,996	7,169	-4	2	13,201	263	2,003	15,693
Residuum	52	928	1,083	-9	—	2,054	71	754	2,631
Motor Gasoline Blend.Comp. (MGBC)(net)	-8,486	-53,929	-41,878	-1,573	-1,683	-107,549	-5,353	-37,745	-218,521
Reformulated - RBOB	-1,187	-15,673	-6,961	—	-954	-24,775	—	-28,340	-72,052
Conventional	-7,299	-38,256	-34,917	-1,573	-729	-82,774	-5,353	-9,405	-146,469
CBOB	-7,330	-32,662	-32,322	-1,507	-759	-74,580	-5,366	-10,436	-139,172
GTAB	—	—	—	—	—	—	—	—	—
Other	31	-5,594	-2,595	-66	30	-8,194	13	1,031	-7,297
Aviation Gasoline Blend. Comp. (net)	—	—	2	—	—	2	—	—	2
Total Input to Refineries	14,137	95,972	80,533	5,544	2,865	199,051	15,657	46,199	351,983
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	698	4,726	3,647	216	136	9,422	646	2,638	17,644
Operable Capacity (daily average)	731	4,944	3,696	256	124	9,752	692	2,933	18,569
Operable Utilization Rate (percent) ²	95.5	95.6	98.7	84.1	110.2	96.6	93.4	90.0	95.0
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	159	716	612	34	29	1,550	93	446	3,034
Catalytic Cracking	187	1,413	1,100	19	32	2,752	183	715	5,181
Catalytic Hydrocracking	47	526	458	14	18	1,063	24	476	1,931
Delayed and Fluid Coking	30	812	581	15	—	1,438	70	462	2,501
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.62	1.61	1.50	1.52	0.71	1.48	1.42	1.26	1.40
API Gravity, Weighted Average (degrees)	39.10	31.79	31.08	32.38	39.62	32.19	33.54	28.67	32.34
Operable Capacity (daily average)	731	4,944	3,696	256	124	9,752	692	2,933	18,569
Operating	731	4,944	3,696	256	124	9,752	682	2,697	18,302
Idle	—	—	—	—	—	—	10	235	267
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	15,150	15,150

— = 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, July 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	1,646	31	1,677	4,652	495	681	5,828
Natural Gas Liquids	1,226	31	1,257	3,724	336	526	4,586
Ethane	-	-	-	-	-	-	-
Propane	666	17	683	1,665	233	456	2,354
Normal Butane	561	30	591	2,108	140	105	2,353
Isobutane	-1	-16	-17	-49	-37	-35	-121
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	420	-	420	928	159	155	1,242
Ethylene	15	-	15	-	-	-	-
Propylene	410	-	410	797	159	154	1,110
Butylene	-65	-	-65	131	-	1	132
Isobutylene	60	-	60	-	-	-	-
Finished Motor Gasoline	745	752	1,497	6,512	2,057	3,067	11,636
Reformulated	745	-	745	-	-	-	-
Reformulated Blended with Fuel Ethanol	745	-	745	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	752	752	6,512	2,057	3,067	11,636
Conventional Blended with Fuel Ethanol	-	525	525	1,405	1,503	1,014	3,922
Ed55 and Lower	-	525	525	1,405	1,503	1,014	3,922
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	227	227	5,107	554	2,053	7,714
Finished Aviation Gasoline	-	-	-	-	49	-	49
Kerosene-Type Jet Fuel	2,916	-	2,916	6,503	1,053	1,002	8,558
Kerosene	101	-	101	-	-	1	1
Distillate Fuel Oil	9,405	573	9,978	18,368	3,920	10,511	32,799
15 ppm sulfur and under	8,203	507	8,710	18,346	3,922	10,487	32,755
Greater than 15 ppm to 500 ppm sulfur	44	58	102	-176	-16	10	-182
Greater than 500 ppm sulfur	1,158	8	1,166	198	14	14	226
Residual Fuel Oil	1,388	6	1,394	1,225	261	93	1,579
Less than 0.31 percent sulfur	402	6	408	68	-	-	68
0.31 to 1.00 percent sulfur	407	-	407	111	57	-	168
Greater than 1.00 percent sulfur	579	-	579	1,046	204	93	1,343
Petrochemical Feedstocks	127	-	127	915	-	21	936
Naphtha for Petro. Feed. Use	127	-	127	710	-	-	710
Other Oils for Petro. Feed. Use	-	-	-	205	-	21	226
Special Naphthas	-	21	21	45	-	16	61
Lubricants	181	214	395	-	-	280	280
Waxes	-	11	11	-	-	44	44
Petroleum Coke	1,044	12	1,056	4,238	691	1,009	5,938
Marketable	362	-	362	3,079	523	784	4,386
Catalyst	682	12	694	1,159	168	225	1,552
Asphalt and Road Oil	572	410	982	3,043	1,565	543	5,151
Still Gas	1,218	37	1,255	3,009	559	1,031	4,599
Miscellaneous Products	64	26	90	342	85	62	489
Total	19,407	2,093	21,500	48,852	10,735	18,361	77,948
Processing Gain(-) or Loss(+) ¹	-1,380	50	-1,330	-4,966	-975	-1,101	-7,042

See footnotes at end of table.

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

Commodity	PAD District 3 - Gulf Coast						Total	PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico					
Hydrocarbon Gas Liquids	891	8,933	6,456	91	76	16,447	683	2,557	27,192	
Natural Gas Liquids	459	4,934	3,346	51	75	8,865	579	2,288	17,575	
Ethane	1	129	17	—	—	147	—	—	147	
Propane	331	2,481	2,008	18	46	4,884	301	1,199	9,421	
Normal Butane	278	2,845	989	33	26	4,171	262	985	8,362	
Isobutane	-151	-521	332	—	3	-337	16	104	-355	
Natural Gasoline	—	—	—	—	—	—	—	—	—	
Refinery Olefins	432	3,999	3,110	40	1	7,582	104	269	9,617	
Ethylene	—	8	—	—	—	8	—	—	23	
Propylene	432	3,830	3,309	40	—	7,611	23	235	9,389	
Butylene	—	215	-199	—	1	17	81	34	199	
Isobutylene	—	-54	—	—	—	-54	—	—	6	
Finished Motor Gasoline	3,376	11,643	10,000	498	746	26,263	5,123	3,188	47,707	
Reformulated	—	—	—	—	—	—	—	—	596	
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	596	
Reformulated Other	—	—	—	—	—	—	—	—	—	
Conventional	3,376	11,643	10,000	498	746	26,263	5,123	2,592	46,366	
Conventional Blended with Fuel Ethanol	1,988	488	1,807	322	596	5,201	3,059	317	13,024	
Ed55 and Lower	1,983	488	1,807	322	596	5,196	3,059	317	13,019	
Greater than Ed55	5	—	—	—	—	5	—	—	5	
Conventional Other	1,388	11,155	8,193	176	150	21,062	2,064	2,275	33,342	
Finished Aviation Gasoline	93	63	89	—	—	245	7	2	303	
Kerosene-Type Jet Fuel	1,552	14,386	12,275	170	—	28,383	1,218	15,160	56,235	
Kerosene	0	—	-2	7	—	5	—	0	107	
Distillate Fuel Oil	6,869	43,864	38,195	2,438	1,847	93,213	6,251	16,783	159,024	
15 ppm sulfur and under	6,864	41,265	31,865	2,232	1,847	84,073	6,204	15,913	147,655	
Greater than 15 ppm to 500 ppm sulfur	-3	551	2,365	46	—	2,959	60	315	3,254	
Greater than 500 ppm sulfur	8	2,048	3,965	160	—	6,181	-13	555	8,115	
Residual Fuel Oil	290	1,681	3,774	-144	150	5,751	404	3,212	12,340	
Less than 0.31 percent sulfur	169	—	748	—	—	917	219	—	1,612	
0.31 to 1.00 percent sulfur	—	123	304	-144	17	300	33	666	1,574	
Greater than 1.00 percent sulfur	121	1,558	2,722	—	133	4,534	152	2,546	9,154	
Petrochemical Feedstocks	119	5,573	2,973	6	—	8,671	—	4	9,738	
Naphtha for Petro. Feed. Use	122	3,806	1,330	6	—	5,264	—	4	6,105	
Other Oils for Petro. Feed. Use	-3	1,767	1,643	—	—	3,407	—	—	3,633	
Special Naphthas	91	903	—	234	—	1,228	—	43	1,353	
Lubricants	25	1,839	2,017	923	—	4,804	—	523	6,002	
Waxes	—	40	46	21	—	107	—	—	162	
Petroleum Coke	508	9,201	6,640	88	43	16,480	820	4,819	29,113	
Marketable	237	7,072	5,267	72	—	12,648	561	3,769	21,726	
Catalyst	271	2,129	1,373	16	43	3,832	259	1,050	7,387	
Asphalt and Road Oil	259	413	909	1,005	-63	2,523	1,224	913	10,793	
Still Gas	860	6,393	4,595	189	82	12,119	780	3,920	22,673	
Miscellaneous Products	119	1,088	672	23	46	1,948	134	421	3,082	
Total	15,052	106,020	88,639	5,549	2,927	218,187	16,644	51,545	385,824	
Processing Gain(-) or Loss(+) ¹	-915	-10,048	-8,106	-5	-62	-19,136	-987	-5,346	-33,841	

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 32. Blender Net Inputs of Petroleum Products by PAD District, July 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	75	-	75	-	6	77	83
Natural Gas Liquids	75	-	75	-	6	77	83
Normal Butane	75	-	75	-	3	35	38
Isobutane	-	-	-	-	-	-	-
Natural Gasoline	-	-	-	-	3	42	45
Other Liquids	94,243	6,842	101,085	46,523	9,775	14,508	70,806
Oxygenates/Renewables	9,938	712	10,650	5,056	1,149	1,593	7,798
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,938	712	10,650	5,056	1,149	1,593	7,798
Fuel Ethanol	9,715	679	10,394	4,873	1,055	1,529	7,457
Renewable Diesel Fuel	223	33	256	183	94	64	341
Other Renewable Fuels	-	-	-	-	-	-	-
Unfinished Oils (net)	2	-	2	39	-	-	39
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-
Heavy Gas Oils	2	-	2	-	-	-	-
Residuum	-	-	-	39	-	-	39
Motor Gasoline Blend.Comp. (MGBC)(net)	84,303	6,130	90,433	41,428	8,626	12,915	62,969
Reformulated - RBOB	30,872	266	31,138	7,593	1,351	1,059	10,003
Conventional	53,431	5,864	59,295	33,835	7,275	11,856	52,966
CBOB	45,226	5,864	51,090	33,791	7,275	11,856	52,922
GTAB	2,205	-	2,205	-	-	-	-
Other	6,000	-	6,000	44	-	-	44
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	94,318	6,842	101,160	46,523	9,781	14,585	70,889

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	4	519	1	3	-	527	22	6	713
Natural Gas Liquids	4	519	1	3	-	527	22	6	713
Normal Butane	-	81	1	3	-	85	4	6	208
Isobutane	-	-	-	-	-	-	1	-	1
Natural Gasoline	4	438	-	-	-	442	17	-	504
Other Liquids	17,887	11,599	2,794	9,550	1,176	43,066	5,307	47,738	267,942
Oxygenates/Renewables	1,885	911	281	1,093	129	4,299	721	5,430	28,898
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	1,885	911	281	1,093	129	4,299	721	5,430	28,898
Fuel Ethanol	1,821	806	281	1,034	120	4,062	707	4,933	27,553
Renewable Diesel Fuel	64	105	-	59	9	237	14	497	1,345
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Unfinished Oils (net)	-	-	4	-	-	4	-	-	45
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	8	-	-	8	-	-	8
Heavy Gas Oils	-	-	-4	-	-	-4	-	-	-2
Residuum	-	-	-	-	-	-	-	-	39
Motor Gasoline Blend.Comp. (MGBC)(net)	16,002	10,688	2,509	8,457	1,047	38,703	4,586	42,308	238,999
Reformulated - RBOB	6,866	4,440	-	-	-	11,306	-	30,546	82,993
Conventional	9,136	6,248	2,509	8,457	1,047	27,397	4,586	11,762	156,006
CBOB	9,136	-600	1,694	8,421	1,047	19,698	4,585	11,192	139,487
GTAB	-	-	-	-	-	-	-	-	2,205
Other	-	6,848	815	36	-	7,699	1	570	14,314
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	17,891	12,118	2,795	9,553	1,176	43,533	5,329	47,744	268,655

- = 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, July 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	94,083	6,808	100,891	46,286	9,687	14,516	70,489
Reformulated	39,784	296	40,080	8,512	1,502	1,176	11,190
Reformulated Blended with Fuel Ethanol	39,784	296	40,080	8,512	1,502	1,176	11,190
Reformulated Other	-	-	-	-	-	-	-
Conventional	54,299	6,512	60,811	37,774	8,185	13,340	59,299
Conventional Blended with Fuel Ethanol	56,558	6,522	63,080	39,690	8,943	13,667	62,300
Ed55 and Lower	56,520	6,522	63,042	39,681	8,919	13,614	62,214
Greater than Ed55	38	-	38	9	24	53	86
Conventional Other	-2,259	-10	-2,269	-1,916	-758	-327	-3,001
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	-	-	-7	-2	-1	-10
Kerosene	-	-	-	-	-	-	-
Distillate Fuel Oil	226	33	259	191	93	62	346
15 ppm sulfur and under	203	33	236	191	93	62	346
Greater than 15 ppm to 500 ppm sulfur	-26	0	-26	-	-	104	104
Greater than 500 ppm sulfur	49	-	49	-	-	-104	-104
Residual Fuel Oil	1	-	1	-	-	-66	-66
Less than 0.31 percent sulfur	-	-	-	-	-	-	-
0.31 to 1.00 percent sulfur	1	-	1	-	-	-	-
Greater than 1.00 percent sulfur	0	-	0	-	-	-66	-66
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	2	-	2	39	3	68	110
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	94,312	6,841	101,153	46,509	9,781	14,579	70,869
Processing Gain(-) or Loss(+) ¹	6	1	7	14	0	6	20

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	17,828	12,013	2,788	9,495	1,167	43,291	5,313	47,251	267,235
Reformulated	7,641	6,670	-	-	-	14,311	-	34,594	100,175
Reformulated Blended with Fuel Ethanol	7,641	6,670	-	-	-	14,311	-	34,594	100,175
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	10,187	5,343	2,788	9,495	1,167	28,980	5,313	12,657	167,060
Conventional Blended with Fuel Ethanol	10,409	1,251	2,786	10,297	1,211	25,954	6,970	14,493	172,797
Ed55 and Lower	10,401	1,251	2,786	10,288	1,211	25,937	6,958	14,491	172,642
Greater than Ed55	8	-	-	9	-	17	12	2	155
Conventional Other	-222	4,092	2	-802	-44	3,026	-1,657	-1,836	-5,737
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	-1	9	-	-	8	74	2	74
Kerosene	-	-	1	-	-	1	-	2	3
Distillate Fuel Oil	64	107	-8	58	9	230	-60	493	1,268
15 ppm sulfur and under	64	104	-8	58	9	227	-60	487	1,236
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	78
Greater than 500 ppm sulfur	-	3	-	-	-	3	-	6	-46
Residual Fuel Oil	-	0	12	-	-	12	-	-	-53
Less than 0.31 percent sulfur	-	-6	-	-	-	-6	-	-	-6
0.31 to 1.00 percent sulfur	-	-131	-	-	-	-131	-	-	-130
Greater than 1.00 percent sulfur	-	137	12	-	-	149	-	-	83
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-8	-	-	-8	-	-	104
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	17,892	12,119	2,794	9,553	1,176	43,534	5,327	47,748	268,631
Processing Gain(-) or Loss(+) ¹	-1	-1	1	0	0	-1	2	-4	24

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2017
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	11,529	734	12,263	10,128	2,216	1,802	14,146
Petroleum Products	15,007	2,089	17,096	32,101	7,929	11,425	51,455
Hydrocarbon Gas Liquids	807	17	824	3,625	523	1,433	5,581
Natural Gas Liquids	609	17	626	3,013	509	1,255	4,777
Ethane	—	—	—	—	—	—	—
Propane	113	4	117	693	31	644	1,368
Normal Butane	411	2	413	2,030	395	233	2,658
Isobutane	85	11	96	205	83	139	427
Natural Gasoline	—	—	—	85	—	239	324
Refinery Olefins	198	0	198	612	14	178	804
Ethylene	—	—	—	—	—	—	—
Propylene	106	0	106	551	14	176	741
Butylene	23	0	23	61	0	2	63
Isobutylene	69	0	69	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	86	80	166	75	51	28	154
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	86	80	166	57	51	28	136
Fuel Ethanol	86	75	161	34	35	24	93
Renewable Diesel Fuel	—	5	5	23	16	4	43
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	18	—	—	18
Unfinished Oils	4,895	399	5,294	9,341	995	3,855	14,191
Naphthas and Lighter	1,189	265	1,454	2,107	164	922	3,193
Kerosene and Light Gas Oils	645	—	645	1,816	257	359	2,432
Heavy Gas Oils	2,017	124	2,141	4,056	559	1,765	6,380
Residuum	1,044	10	1,054	1,362	15	809	2,186
Motor Gasoline Blending Components (MGBC)	5,161	271	5,432	8,556	1,887	2,759	13,202
Reformulated - RBOB	1,404	—	1,404	1,428	14	—	1,442
Conventional	3,757	271	4,028	7,128	1,873	2,759	11,760
CBOB	766	179	945	2,877	1,069	1,795	5,741
GTAB	—	—	—	—	—	—	—
Other	2,991	92	3,083	4,251	804	964	6,019
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	44	44	1,103	109	397	1,609
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	44	44	1,103	109	397	1,609
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	44	44	1,103	109	397	1,609
Finished Aviation Gasoline	—	—	—	—	67	—	67
Kerosene-Type Jet Fuel	472	—	472	1,339	322	238	1,899
Kerosene	139	1	140	66	—	15	81
Distillate Fuel Oil	2,384	201	2,585	3,759	1,158	1,637	6,554
15 ppm sulfur and under	1,728	70	1,798	3,464	1,052	1,490	6,006
Greater than 15 ppm to 500 ppm sulfur	76	116	192	—	32	54	86
Greater than 500 ppm sulfur	580	15	595	295	74	93	462
Residual Fuel Oil	435	26	461	794	132	59	985
Less than 0.31 percent sulfur	32	24	56	76	—	—	76
0.31 to 1.00 percent sulfur	77	2	79	78	13	—	91
Greater than 1.00 percent sulfur	326	—	326	640	119	59	818
Petrochemical Feedstocks	121	—	121	631	—	—	631
Naphtha for Petro. Feed. Use	121	—	121	466	—	—	466
Other Oils for Petro. Feed. Use	—	—	—	165	—	—	165
Special Naphthas	—	14	14	51	—	19	70
Lubricants	337	222	559	—	—	277	277
Waxes	—	443	443	—	—	64	64
Petroleum Coke	—	—	—	505	323	108	936
Marketable	—	—	—	505	323	108	936
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	158	351	509	2,177	2,340	528	5,045
Miscellaneous Products	12	20	32	79	22	8	109
Total Stocks, All Oils	26,536	2,823	29,359	42,229	10,145	13,227	65,601

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, July 2017
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	1,761	26,796	17,634	1,119	371	47,681	2,699	23,202	99,991
Petroleum Products	9,851	58,738	49,050	4,200	1,542	123,381	9,978	49,768	251,678
Hydrocarbon Gas Liquids	2,197	1,947	4,676	8	113	8,941	427	1,577	17,350
Natural Gas Liquids	1,510	1,692	2,782	6	112	6,102	350	1,406	13,261
Ethane	139	—	—	—	—	139	—	—	139
Propane	462	392	159	1	2	1,016	49	111	2,661
Normal Butane	767	1,038	1,621	2	83	3,511	187	864	7,633
Isobutane	78	192	763	3	13	1,049	105	428	2,105
Natural Gasoline	64	70	239	—	14	387	9	3	723
Refinery Olefins	687	255	1,894	2	1	2,839	77	171	4,089
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	687	43	370	2	0	1,102	8	14	1,971
Butylene	0	211	1,524	0	1	1,736	69	157	2,048
Isobutylene	0	1	0	0	0	1	0	0	70
Oxygenates/Renewable Fuels/Other Hydrocarbons ...	41	64	185	77	14	381	109	316	1,126
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	41	64	185	77	14	381	109	316	1,108
Fuel Ethanol	36	36	63	25	11	171	98	34	557
Renewable Diesel Fuel	5	28	122	52	3	210	11	259	528
Other Renewable Fuels	—	—	—	—	—	—	—	23	23
Other Hydrocarbons	—	—	—	—	—	—	—	—	18
Unfinished Oils	2,777	21,478	15,190	969	674	41,088	3,020	19,700	83,293
Naphthas and Lighter	1,284	6,609	2,150	235	178	10,456	739	3,314	19,156
Kerosene and Light Gas Oils	414	4,021	2,472	252	227	7,386	630	3,655	14,748
Heavy Gas Oils	477	8,826	8,258	425	269	18,255	1,137	10,396	38,309
Residuum	602	2,022	2,310	57	—	4,991	514	2,335	11,080
Motor Gasoline Blending Components (MGBC)	2,411	12,851	11,543	394	350	27,549	2,846	12,687	61,716
Reformulated - RBOB	191	1,415	451	—	—	2,057	—	5,028	9,931
Conventional	2,220	11,436	11,092	394	350	25,492	2,846	7,659	51,785
CBOB	997	3,828	5,342	299	67	10,533	1,518	1,777	20,514
GTAB	—	—	—	—	—	—	—	—	—
Other	1,223	7,608	5,750	95	283	14,959	1,328	5,882	31,271
Aviation Gasoline Blending Components	—	—	7	—	—	7	—	—	7
Finished Motor Gasoline	475	1,424	1,567	15	59	3,540	663	856	6,712
Reformulated	—	—	—	—	—	—	—	19	19
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	19	19
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	475	1,424	1,567	15	59	3,540	663	837	6,693
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	48	—	48
Ed55 and Lower	—	—	—	—	—	—	48	—	48
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	475	1,424	1,567	15	59	3,540	615	837	6,645
Finished Aviation Gasoline	32	45	108	—	—	185	9	122	383
Kerosene-Type Jet Fuel	265	3,420	2,647	80	—	6,412	281	3,657	12,721
Kerosene	33	5	39	6	—	83	1	3	308
Distillate Fuel Oil	963	6,848	6,903	564	161	15,439	1,613	5,397	31,588
15 ppm sulfur and under	898	6,243	5,403	446	161	13,151	1,339	4,384	26,678
Greater than 15 ppm to 500 ppm sulfur	20	96	657	39	—	812	180	247	1,517
Greater than 500 ppm sulfur	45	509	843	79	—	1,476	94	766	3,393
Residual Fuel Oil	88	2,065	1,345	41	55	3,594	240	2,574	7,854
Less than 0.31 percent sulfur	4	—	123	—	—	127	32	—	291
0.31 to 1.00 percent sulfur	—	141	63	41	5	250	25	314	759
Greater than 1.00 percent sulfur	84	1,924	1,159	—	50	3,217	183	2,260	6,804
Petrochemical Feedstocks	124	1,674	592	3	—	2,393	—	5	3,150
Naphtha for Petro. Feed. Use	29	1,014	422	3	—	1,468	—	5	2,060
Other Oils for Petro. Feed. Use	95	660	170	—	—	925	—	—	1,090
Special Naphthas	55	695	—	102	—	852	—	43	979
Lubricants	36	2,082	1,645	736	—	4,499	—	611	5,946
Waxes	—	101	116	53	—	270	—	—	777
Petroleum Coke	23	3,512	1,742	—	—	5,277	75	1,529	7,817
Marketable	23	3,512	1,742	—	—	5,277	75	1,529	7,817
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	319	286	617	1,151	96	2,469	674	570	9,267
Miscellaneous Products	12	241	128	1	20	402	20	121	684
Total Stocks, All Oils	11,612	85,534	66,684	5,319	1,913	171,062	12,677	72,970	351,669

— = 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, July 2017

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	5.0	1.5	4.8	6.0	3.3	2.5	4.9
Finished Motor Gasoline ¹	47.8	33.6	47.0	51.8	49.3	48.6	50.8
Finished Aviation Gasoline ²	-	-	-	-	0.3	-	0.0
Kerosene-Type Jet Fuel	8.8	-	8.3	8.4	7.0	3.6	7.1
Kerosene	0.3	-	0.3	-	-	0.0	0.0
Distillate Fuel Oil ³	28.4	27.0	28.3	23.6	25.7	38.1	27.2
Residual Fuel Oil	4.2	0.3	4.0	1.6	1.7	0.3	1.3
Naphtha for Petro. Feed. Use	0.4	-	0.4	0.9	-	-	0.6
Other Oils for Petro. Feed. Use	-	-	-	0.3	-	0.1	0.2
Special Naphthas	-	1.0	0.1	0.1	-	0.1	0.1
Lubricants	0.6	10.3	1.1	-	-	1.0	0.2
Waxes	-	0.5	0.0	-	-	0.2	0.0
Petroleum Coke	3.2	0.6	3.0	5.5	4.6	3.7	4.9
Asphalt and Road Oil	1.7	19.7	2.8	3.9	10.4	2.0	4.3
Still Gas	3.7	1.8	3.6	3.9	3.7	3.7	3.8
Miscellaneous Products	0.2	1.3	0.3	0.4	0.6	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-4.2	2.5	-3.8	-6.4	-6.5	-4.0	-5.8

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	4.0	6.2	5.4	1.3	1.8	5.5	3.4	3.1	4.9
Finished Motor Gasoline ¹	51.4	42.0	41.0	28.4	50.7	42.1	48.0	47.8	45.3
Finished Aviation Gasoline ²	0.4	0.0	0.1	-	-	0.1	0.0	0.0	0.1
Kerosene-Type Jet Fuel	7.0	9.9	10.3	2.4	-	9.5	6.1	18.5	10.1
Kerosene	0.0	-	0.0	0.1	-	0.0	-	0.0	0.0
Distillate Fuel Oil ³	31.0	30.2	31.9	34.5	42.9	31.2	30.8	20.2	28.5
Residual Fuel Oil	1.3	1.2	3.2	-2.1	3.5	1.9	2.0	3.9	2.2
Naphtha for Petro. Feed. Use	0.6	2.6	1.1	0.1	-	1.8	-	0.0	1.1
Other Oils for Petro. Feed. Use	0.0	1.2	1.4	-	-	1.1	-	-	0.7
Special Naphthas	0.4	0.6	-	3.3	-	0.4	-	0.1	0.2
Lubricants	0.1	1.3	1.7	13.1	-	1.6	-	0.6	1.1
Waxes	-	0.0	0.0	0.3	-	0.0	-	-	0.0
Petroleum Coke	2.3	6.3	5.6	1.3	1.0	5.5	4.1	5.9	5.2
Asphalt and Road Oil	1.2	0.3	0.8	14.3	-1.5	0.9	6.1	1.1	1.9
Still Gas	3.9	4.4	3.9	2.7	1.9	4.1	3.9	4.8	4.1
Miscellaneous Products	0.5	0.8	0.6	0.0	1.0	0.7	0.7	0.5	0.6
Processing Gain(-) or Loss(+) ⁴	-4.2	-6.9	-6.8	-0.1	-1.4	-6.4	-4.9	-6.5	-6.1

- = No Data Reported.

¹ Based on net production of finished motor gasoline minus input of natural gas plant liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components.

² Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

³ Based on distillate fuel oil net production minus input of biodiesel, "other" renewable diesel fuels, and "other" renewable fuels.

⁴ Represents the arithmetic difference between input and production.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

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

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, July 2017
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	256	411	2,075	2,742
Connecticut	-	-	-	-
Delaware	-	-	-	-
Florida	-	-	529	529
Georgia	-	-	228	228
Maine	-	-	-	-
Maryland	-	-	-	-
Massachusetts	-	-	-	-
New Hampshire	-	-	-	-
New Jersey	256	300	1,088	1,644
New York	-	111	-	111
North Carolina	-	-	-	-
Pennsylvania	-	-	160	160
Rhode Island	-	-	-	-
South Carolina	-	-	68	68
Vermont	-	-	2	2
Virginia	-	-	-	-
West Virginia	-	-	-	-
PAD District 2	-	10	-	10
Illinois	-	-	-	-
Indiana	-	-	-	-
Michigan	-	-	-	-
Minnesota	-	10	-	10
North Dakota	-	-	-	-
Ohio	-	-	-	-
Wisconsin	-	-	-	-
PAD District 3	175	311	1,340	1,826
Alabama	-	-	-	-
Louisiana	-	311	-	311
Mississippi	-	-	-	-
New Mexico	-	-	-	-
Texas	175	-	1,340	1,515
PAD District 4	-	-	-	-
Idaho	-	-	-	-
Montana	-	-	-	-
PAD District 5	-	184	630	814
Alaska	-	-	-	-
California	-	-	630	630
Hawaii	-	-	-	-
Oregon	-	-	-	-
Washington	-	184	-	184
U.S. Total	431	916	4,045	5,392

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

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	29,063	68,238	99,628	7,865	37,786	242,580	7,825
Hydrocarbon Gas Liquids	1,068	2,100	449	220	727	4,564	147
Natural Gas Liquids	736	1,571	270	220	727	3,524	114
Ethane	—	—	—	—	—	—	—
Propane	580	1,147	—	175	706	2,608	84
Normal Butane	86	251	—	9	16	362	12
Isobutane	70	170	—	36	5	281	9
Natural Gasoline	—	3	270	—	—	273	9
Refinery Olefins	332	529	179	—	—	1,040	34
Ethylene	—	—	—	—	—	—	—
Propylene	325	470	—	—	—	795	26
Butylene	7	59	179	—	—	245	8
Isobutylene	—	—	—	—	—	—	—
Other Liquids	20,470	270	15,165	69	3,636	39,610	1,278
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,004	24	736	2	751	2,517	81
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	179	—	—	179	6
Methyl Tertiary Butyl Ether (MTBE)	—	—	44	—	—	44	1
Other Oxygenates ³	—	—	135	—	—	135	4
Renewable Fuels (including Fuel Ethanol)	1,004	24	554	2	751	2,335	75
Fuel Ethanol	—	—	—	—	269	269	9
Biomass-Based Diesel Fuel	1,004	24	554	2	86	1,670	54
Other Renewable Diesel Fuel	—	—	—	—	396	396	13
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	3	—	—	3	0
Unfinished Oils ¹	1,225	—	13,869	—	1,745	16,839	543
Naphthas and Lighter	267	—	20	—	238	525	17
Kerosene and Lighter Gas Oils	—	—	374	—	—	374	12
Heavy Gas Oils	543	—	11,334	—	1,507	13,384	432
Residuum	415	—	2,141	—	—	2,556	82
Motor Gasoline Blend.Comp. (MGBC)	18,241	246	560	67	1,140	20,254	653
Reformulated - RBOB	7,013	—	—	—	268	7,281	235
Conventional	11,228	246	560	67	872	12,973	418
CBOB	729	—	—	—	406	1,135	37
GTAB	4,208	—	—	—	—	4,208	136
Other	6,291	246	560	67	466	7,630	246
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	7,290	652	4,961	34	5,645	18,582	599
Finished Motor Gasoline	316	—	360	—	43	719	23
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	316	—	360	—	43	719	23
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	316	—	360	—	43	719	23
Finished Aviation Gasoline	1	6	—	3	4	14	0
Kerosene-Type Jet Fuel	902	—	—	—	3,425	4,327	140
Bonded Aircraft Fuel	237	—	—	—	968	1,205	39
Other	665	—	—	—	2,457	3,122	101
Kerosene	—	—	—	—	55	55	2
Distillate Fuel Oil	2,179	12	555	8	702	3,456	111
15 ppm sulfur and under	1,557	10	—	8	702	2,277	73
Bonded	—	—	—	—	—	—	—
Other	1,557	10	—	8	702	2,277	73
Greater than 15 ppm to 500 ppm sulfur	32	—	—	—	—	32	1
Bonded	—	—	—	—	—	—	—
Other	32	—	—	—	—	32	1
Greater than 500 ppm to 2000 ppm sulfur	590	2	555	—	—	1,147	37
Bonded	—	—	—	—	—	—	—
Other	590	2	555	—	—	1,147	37
Greater than 2000 ppm	—	—	—	—	—	—	—
Bonded	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—
Residual Fuel Oil	2,742	10	1,826	—	814	5,392	174
Less than 0.31 percent sulfur	256	—	175	—	—	431	14
0.31 to 1.00 percent sulfur	411	10	311	—	184	916	30
Greater than 1.00 percent sulfur	2,075	—	1,340	—	630	4,045	130
Petrochemical Feedstocks	—	166	950	—	38	1,154	37
Naphtha for Petro. Feed. Use	—	89	602	—	38	729	24
Other Oils for Petro. Feed. Use	—	77	348	—	—	425	14
Special Naphthas	—	39	209	—	—	248	8
Lubricants	140	189	707	—	395	1,431	46
Waxes	88	3	30	—	26	147	5
Petroleum Coke (Marketable)	3	14	324	—	34	375	12
Asphalt and Road Oil	919	213	—	22	109	1,263	41
Miscellaneous Products	—	—	—	1	—	1	0
Total	57,891	71,260	120,203	8,188	47,794	305,336	9,850

— = 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-July 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	191,682	507,101	712,261	58,305	249,687	1,719,036	8,109
Hydrocarbon Gas Liquids	10,721	17,638	3,184	2,273	6,934	40,750	192
Natural Gas Liquids	8,147	14,510	2,372	2,273	6,934	34,236	161
Ethane	-	-	-	-	-	-	-
Propane	7,438	11,997	14	2,019	5,896	27,364	129
Normal Butane	258	1,143	-	64	948	2,413	11
Isobutane	451	1,340	30	190	90	2,101	10
Natural Gasoline	-	30	2,328	-	-	2,358	11
Refinery Olefins	2,574	3,128	812	-	-	6,514	31
Ethylene	-	-	-	-	-	-	-
Propylene	2,567	2,682	-	-	-	5,249	25
Butylene	7	446	812	-	-	1,265	6
Isobutylene	-	-	-	-	-	-	-
Other Liquids	133,642	2,161	104,216	278	33,708	274,005	1,292
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	4,391	302	4,114	28	3,727	12,562	59
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	-	-	2,529	-	-	2,529	12
Methyl Tertiary Butyl Ether (MTBE)	-	-	1,644	-	-	1,644	8
Other Oxygenates ³	-	-	885	-	-	885	4
Renewable Fuels (including Fuel Ethanol)	4,389	270	1,503	28	3,727	9,917	47
Fuel Ethanol	31	-	-	-	718	749	4
Biomass-Based Diesel Fuel	4,358	270	1,503	28	316	6,475	31
Other Renewable Diesel Fuel	-	-	-	-	2,693	2,693	13
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	2	32	82	-	-	116	1
Unfinished Oils ¹	13,853	-	90,673	-	22,148	126,674	598
Naphthas and Lighter	2,664	-	1,665	-	990	5,319	25
Kerosene and Lighter Gas Oils	-	-	740	-	-	740	3
Heavy Gas Oils	7,124	-	66,065	-	18,771	91,960	434
Residuum	4,065	-	22,203	-	2,387	28,655	135
Motor Gasoline Blend.Comp. (MGBC)	115,398	1,859	9,429	250	7,833	134,769	636
Reformulated - RBOB	48,203	258	-	-	268	48,729	230
Conventional	67,195	1,601	9,429	250	7,565	86,040	406
CBOB	5,807	253	-	-	3,119	9,179	43
GTAB	20,581	-	704	-	161	21,446	101
Other	40,807	1,348	8,725	250	4,285	55,415	261
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	65,202	5,188	34,437	670	34,194	139,691	659
Finished Motor Gasoline	6,105	-	360	-	955	7,420	35
Reformulated	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	6,105	-	360	-	955	7,420	35
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	6,105	-	360	-	955	7,420	35
Finished Aviation Gasoline	27	14	-	7	9	57	0
Kerosene-Type Jet Fuel	10,205	5	-	20	19,361	29,591	140
Bonded Aircraft Fuel	1,770	-	-	-	6,271	8,041	38
Other	8,435	5	-	20	13,090	21,550	102
Kerosene	168	-	-	-	55	223	1
Distillate Fuel Oil	24,265	187	1,804	306	2,517	29,079	137
15 ppm sulfur and under	16,703	170	-	306	2,422	19,601	92
Bonded	-	-	-	-	-	-	-
Other	16,703	170	-	306	2,422	19,601	92
Greater than 15 ppm to 500 ppm sulfur	278	-	-	-	-	278	1
Bonded	-	-	-	-	-	-	-
Other	278	-	-	-	-	278	1
Greater than 500 ppm to 2000 ppm sulfur	7,284	6	940	-	95	8,325	39
Bonded	-	-	-	-	-	-	-
Other	7,284	6	940	-	95	8,325	39
Greater than 2000 ppm	-	11	864	-	-	875	4
Bonded	-	-	-	-	-	-	-
Other	-	11	864	-	-	875	4
Residual Fuel Oil	16,207	574	14,890	-	9,364	41,035	194
Less than 0.31 percent sulfur	688	-	1,458	-	-	2,146	10
0.31 to 1.00 percent sulfur	2,165	294	1,363	-	674	4,496	21
Greater than 1.00 percent sulfur	13,354	280	12,069	-	8,690	34,393	162
Petrochemical Feedstocks	6	980	8,302	-	267	9,555	45
Naphtha for Petro. Feed. Use	6	514	5,725	-	235	6,480	31
Other Oils for Petro. Feed. Use	-	466	2,577	-	32	3,075	15
Special Naphthas	-	300	2,335	-	45	2,680	13
Lubricants	1,717	1,409	5,406	-	484	9,016	43
Waxes	501	33	188	-	222	944	4
Petroleum Coke (Marketable)	208	163	1,152	-	211	1,734	8
Asphalt and Road Oil	5,793	1,523	-	329	703	8,348	39
Miscellaneous Products	-	-	-	8	1	9	0
Total	401,247	532,088	854,098	61,526	324,523	2,173,482	10,252

- = 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, July 2017
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	98,850	-	-	4,292	-	-	-	-	1,258	1,258
Algeria	2,748	-	-	3,928	-	-	-	-	-	-
Angola	5,811	-	-	-	-	-	-	-	50	50
Ecuador	4,967	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	23,448	-	-	-	-	-	-	-	-	-
Kuwait	6,380	-	-	-	-	-	-	-	-	-
Libya	3,337	-	-	-	-	-	-	-	-	-
Nigeria	6,319	-	-	364	-	-	-	-	789	789
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	24,634	-	-	-	-	-	-	-	-	-
United Arab Emirates	900	-	-	-	-	-	-	-	-	-
Venezuela	20,306	-	-	-	-	-	-	-	419	419
Non-OPEC	143,730	3,524	1,040	12,547	-	719	719	7,281	11,715	18,996
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	36	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	43	170	-	-	-	67	48	115
Brazil	10,206	-	-	-	-	-	-	-	364	364
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	100,462	3,214	861	67	-	359	359	3,363	2,313	5,676
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	10,283	-	-	238	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	686	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	1	1
Finland	-	-	-	58	-	-	-	-	437	437
France	-	-	-	456	-	-	-	655	329	984
Germany	-	-	-	27	-	-	-	15	-	15
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	492	-	-	-	-	3,268	3,268
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	9	-	-	-	31	327	358
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	18,225	270	34	-	-	66	66	-	299	299
Netherlands	-	-	-	649	-	-	-	108	614	722
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	571	-	-	755	-	-	-	-	322	322
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	262	1,127	1,389
Russia	2,092	-	-	7,358	-	-	-	-	612	612
Spain	-	-	-	1,067	-	-	-	-	1,118	1,118
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	300	-	-	345	-	-	-	-	-	-
United Kingdom	527	-	-	-	-	-	-	2,780	163	2,943
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	378	40	102	820	-	294	294	0	373	373
Total	242,580	3,524	1,040	16,839	-	719	719	7,281	12,973	20,254
Persian Gulf³	55,362	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	44	135	269	1,670	396	-	2,277	32	1,147	-	3,456
Argentina	-	-	-	1,525	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	44	135	269	-	-	-	-	-	555	-	555
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	145	-	-	2,012	32	592	-	2,636
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	105	-	-	-	105
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	396	-	160	0	0	-	160
Total	44	135	269	1,670	396	-	2,277	32	1,147	-	3,456
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, July 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	306	—	—	—	405	405
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	174	174
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	3	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	303	—	—	—	231	231
Non-OPEC	55	14	—	4,021	248	431	916	3,640	4,987
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	54	54
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	14	—	596	39	—	194	1,000	1,194
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	315	—	—	—	—	—
Colombia	—	—	—	—	—	—	311	18	329
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	55	—	—	2,602	107	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	175	—	1,356	1,531
Netherlands	—	—	—	—	—	—	—	9	9
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	256	411	352	1,019
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	720	720
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	508	102	0	0	131	131
Total	55	14	—	4,327	248	431	916	4,045	5,392
Persian Gulf³	—	—	—	3	—	—	—	—	—

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	255	—	6,516	105,366	3,189	210	3,399
Algeria	—	—	—	—	—	—	—	3,928	6,676	89	127	215
Angola	—	—	—	—	—	—	—	50	5,861	187	2	189
Ecuador	—	—	—	—	—	—	—	174	5,141	160	6	166
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	23,448	756	—	756
Kuwait	—	—	—	—	—	—	—	—	6,380	206	—	206
Libya	—	—	—	—	—	—	—	—	3,337	108	—	108
Nigeria	—	—	—	—	—	—	—	1,153	7,472	204	37	241
Qatar	—	—	—	—	—	147	—	147	147	—	5	5
Saudi Arabia	—	—	—	—	—	—	—	3	24,637	795	0	795
United Arab Emirates	—	—	—	—	—	108	—	108	1,008	29	3	33
Venezuela	—	—	—	—	—	—	—	953	21,259	655	31	686
Non-OPEC	729	425	147	375	1,263	1,176	1	56,240	199,970	4,636	1,814	6,451
Argentina	—	—	—	114	—	1	—	1,640	1,640	—	53	53
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	36	36	—	1	1
Bahrain	—	—	—	—	—	45	—	45	45	—	1	1
Belgium	—	—	—	—	—	372	—	700	700	—	23	23
Brazil	—	—	21	—	—	—	—	1,442	11,648	329	47	376
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	89	77	61	48	979	299	1	16,355	116,817	3,241	528	3,768
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	30	—	—	—	—	345	345	—	11	11
Colombia	—	—	—	202	—	—	—	769	11,052	332	25	357
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	686	22	—	22
Estonia	—	—	—	—	—	—	—	1	1	—	0	0
Finland	—	—	—	—	—	4	—	499	499	—	16	16
France	14	25	—	—	—	13	—	1,492	1,492	—	48	48
Germany	—	—	—	—	—	26	—	68	68	—	2	2
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	3,760	3,760	—	121	121
Indonesia	—	—	—	—	—	45	—	45	45	—	1	1
Italy	—	—	8	—	—	15	—	391	391	—	13	13
Korea, South	—	—	1	—	—	313	—	3,183	3,183	—	103	103
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	11	—	74	—	—	85	85	—	3	3
Mexico	277	—	—	—	—	—	—	2,477	20,702	588	80	668
Netherlands	—	—	—	—	—	—	—	1,380	1,380	—	45	45
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	323	—	—	—	—	—	1,400	1,971	18	45	64
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	1,389	1,389	—	45	45
Russia	—	—	—	—	—	31	—	9,020	11,112	67	291	358
Spain	—	—	2	—	210	—	—	2,397	2,397	—	77	77
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	1,065	1,365	10	34	44
United Kingdom	—	—	—	8	—	11	—	2,962	3,489	17	96	113
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	349	0	13	3	0	1	0	3,294	3,672	12	105	118
Total	729	425	147	375	1,263	1,431	1	62,756	305,336	7,825	2,024	9,850
Persian Gulf³	—	—	—	—	—	300	—	303	55,665	1,786	10	1,796

— = No Data Reported.

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

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

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

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

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

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	713,585	199	-	31,018	-	-	-	-	6,723	6,723
Algeria	19,216	-	-	24,445	-	-	-	-	-	-
Angola	22,258	-	-	740	-	-	-	-	337	337
Ecuador	44,090	-	-	-	-	-	-	-	-	-
Equatorial Guinea	2,281	-	-	-	-	-	-	-	-	-
Gabon	304	-	-	224	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	131,124	-	-	1,123	-	-	-	-	-	-
Kuwait	36,721	-	-	-	-	-	-	-	-	-
Libya	9,315	-	-	1,410	-	-	-	-	-	-
Nigeria	58,682	-	-	1,010	-	-	-	-	3,237	3,237
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	239,060	-	-	501	-	-	-	-	-	-
United Arab Emirates	2,875	-	-	1,188	-	-	-	-	-	-
Venezuela	147,659	199	-	377	-	-	-	-	3,149	3,149
Non-OPEC	1,005,451	34,037	6,514	95,656	-	7,420	7,420	48,729	79,317	128,046
Argentina	-	-	-	106	-	-	-	-	604	604
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	648	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	36	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	43	6,812	-	837	837	839	2,264	3,103
Brazil	42,807	-	-	948	-	-	-	-	378	378
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	219	-	-	-	-	-	-
Canada	725,905	30,506	5,702	1,912	-	2,845	2,845	24,719	14,451	39,170
Chad	3,183	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	73,311	-	-	763	-	-	-	-	1,656	1,656
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	46	-	9	9	10	220	230
Egypt	2,173	-	-	-	-	-	-	-	259	259
Estonia	-	-	-	-	-	-	-	-	1	1
Finland	-	-	-	125	-	-	-	-	1,969	1,969
France	-	-	-	1,416	-	88	88	3,892	1,789	5,681
Germany	-	-	-	341	-	116	116	158	122	280
Guatemala	2,173	-	-	-	-	-	-	-	-	-
India	-	-	-	3,169	-	8	8	529	11,592	12,121
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	179	-	327	327	118	1,924	2,042
Korea, South	-	-	-	-	-	175	175	-	2,555	2,555
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	810	810
Malaysia	-	-	-	-	-	-	-	-	175	175
Mexico	128,600	870	172	109	-	66	66	-	1,318	1,318
Netherlands	-	-	-	3,598	-	399	399	2,089	5,192	7,281
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	5,113	815	-	4,918	-	236	236	975	1,870	2,845
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	307	307	1,044	4,383	5,427
Russia	9,416	-	-	57,746	-	157	157	195	8,245	8,440
Spain	-	-	-	2,243	-	114	114	86	8,108	8,194
Sweden	-	511	-	759	-	167	167	128	862	990
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	2,079	330	-	1,410	-	2	2	-	510	510
United Kingdom	4,398	233	-	909	-	1,273	1,273	13,916	5,381	19,297
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	159	-	-	-	-	-	-	-	-	-
Other	5,486	772	597	7,892	-	294	294	31	2,679	2,710
Total	1,719,036	34,236	6,514	126,674	-	7,420	7,420	48,729	86,040	134,769
Persian Gulf³	409,780	-	-	2,812	-	-	-	-	-	-

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-July 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	323	-	319	-	642
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	323	-	-	-	323
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	319	-	319
Non-OPEC	1,644	885	749	6,475	2,693	-	19,278	278	8,006	875	28,437
Argentina	172	-	-	5,601	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	234	-	-	-	-	-	-	-	-	260	260
Brazil	245	885	749	-	-	-	-	-	555	-	555
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	874	-	-	15,803	278	6,545	11	22,637
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	293	-	-	-	293
Colombia	-	-	-	-	-	-	183	-	70	-	253
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	115	115
Germany	161	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	2,254	-	-	114	2,368
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	433	-	-	-	433
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	75	-	-	-	75
Mexico	-	-	-	-	-	-	-	-	100	-	100
Netherlands	766	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	385	375	760
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	351	-	351
United Kingdom	66	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	2,693	-	237	0	0	0	237
Total	1,644	885	749	6,475	2,693	-	19,601	278	8,325	875	29,079
Persian Gulf ³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	2,499	37	922	310	3,205	4,437
Algeria	—	—	—	—	—	347	—	—	347
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	10	—	—	—	174	174
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	15	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	310	—	310
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	11	37	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	2,463	—	575	—	3,031	3,606
Non-OPEC	223	57	—	27,092	2,643	1,224	4,186	31,188	36,598
Argentina	—	—	—	—	—	456	—	—	456
Aruba	—	—	—	151	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	43	—	—	—	351	351
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	112	112
Brazil	—	—	—	13	58	—	298	54	352
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	37	—	3,669	903	85	554	6,023	6,662
Chad	—	—	—	6	—	—	—	—	—
China	168	—	—	2,171	—	—	—	—	—
Colombia	—	—	—	—	—	—	717	1,274	1,991
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	41	—	—	—	—
Germany	—	—	—	—	36	—	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	787	—	—	81	1	82
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	444	444
Korea, South	55	—	—	17,073	507	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	334	175	709	14,372	15,256
Netherlands	—	20	—	—	14	—	—	740	740
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	14	—	—	—	—
Russia	—	—	—	32	—	508	482	1,669	2,659
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	274	274
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	321	3,078	3,399
United Kingdom	—	—	—	—	—	—	—	3	3
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	3,147	736	0	1,024	2,792	3,816
Total	223	57	—	29,591	2,680	2,146	4,496	34,393	41,035
Persian Gulf³	—	—	—	26	37	—	—	—	—

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	326	—	—	192	591	1,686	—	48,350	761,935	3,366	228	3,594
Algeria	326	—	—	—	—	387	—	25,505	44,721	91	120	211
Angola	—	—	—	—	—	—	—	1,077	23,335	105	5	110
Ecuador	—	—	—	—	—	—	—	184	44,274	208	1	209
Equatorial Guinea	—	—	—	—	—	—	—	—	2,281	11	—	11
Gabon	—	—	—	—	—	—	—	224	528	1	1	2
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,138	132,262	619	5	624
Kuwait	—	—	—	—	—	—	—	—	36,721	173	—	173
Libya	—	—	—	—	—	—	—	1,720	11,035	44	8	52
Nigeria	—	—	—	—	—	—	—	4,570	63,252	277	22	298
Qatar	—	—	—	—	—	925	—	925	925	—	4	4
Saudi Arabia	—	—	—	—	—	—	—	549	239,609	1,128	3	1,130
United Arab Emirates	—	—	—	—	—	374	—	1,562	4,437	14	7	21
Venezuela	—	—	—	192	591	—	—	10,896	158,555	697	51	748
Non-OPEC	6,154	3,075	944	1,542	7,757	7,330	9	406,096	1,411,547	4,743	1,916	6,658
Argentina	—	266	—	771	—	15	—	7,991	7,991	—	38	38
Aruba	—	—	—	—	—	—	—	151	151	—	1	1
Australia	—	—	—	—	—	—	—	—	648	3	—	3
Bahamas	—	—	—	—	66	—	—	496	496	—	2	2
Bahrain	—	—	—	—	—	545	—	545	545	—	3	3
Belgium	—	—	—	—	—	462	—	11,863	11,863	—	56	56
Brazil	—	—	42	—	—	—	—	4,240	47,047	202	20	222
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	219	219	—	1	1
Canada	514	466	405	372	6,395	2,213	9	125,323	851,228	3,424	591	4,015
Chad	—	—	—	—	—	—	—	6	3,189	15	0	15
China	—	—	311	—	—	—	—	2,943	2,943	—	14	14
Colombia	921	—	—	202	1	—	—	5,787	79,098	346	27	373
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	285	285	—	1	1
Egypt	—	—	—	—	—	—	—	259	2,432	10	1	11
Estonia	—	—	—	—	—	—	—	1	1	—	0	0
Finland	—	—	—	—	—	16	—	2,110	2,110	—	10	10
France	23	153	—	—	—	115	—	7,632	7,632	—	36	36
Germany	—	—	16	—	1	273	—	1,233	1,233	—	6	6
Guatemala	—	—	—	—	—	—	—	—	2,173	10	—	10
India	—	—	—	—	—	—	—	18,535	18,535	—	87	87
Indonesia	—	—	—	—	—	487	—	487	487	—	2	2
Italy	—	—	8	—	—	163	—	3,172	3,172	—	15	15
Korea, South	36	—	2	—	—	2,705	—	23,541	23,541	—	111	111
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	810	810	—	4	4
Malaysia	—	—	85	—	209	44	—	588	588	—	3	3
Mexico	2,053	—	—	—	—	—	—	20,278	148,878	607	96	702
Netherlands	151	—	1	—	—	—	—	13,007	13,007	—	61	61
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	2,006	—	—	—	—	—	10,820	15,933	24	51	75
Oman	—	—	—	—	—	65	—	65	65	—	0	0
Portugal	—	—	—	—	—	—	—	5,748	5,748	—	27	27
Russia	47	—	—	—	—	58	—	69,901	79,317	44	330	374
Spain	—	—	8	—	992	—	—	11,551	11,551	—	54	54
Sweden	—	—	—	8	—	14	—	2,723	2,723	—	13	13
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	6,002	8,081	10	28	38
United Kingdom	429	—	—	179	—	115	—	22,504	26,902	21	106	127
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	159	1	—	1
Other	1,980	184	66	10	93	40	0	25,280	30,766	26	121	147
Total	6,480	3,075	944	1,734	8,348	9,016	9	454,446	2,173,482	8,109	2,144	10,252
Persian Gulf³	—	—	—	—	—	1,844	—	4,719	414,499	1,933	22	1,955

— = No Data Reported.

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

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

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

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

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	20,199	-	-	415	-	-	-	-	1,258	1,258
Algeria	1,684	-	-	415	-	-	-	-	-	-
Angola	5,208	-	-	-	-	-	-	-	50	50
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	2,588	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	2,285	-	-	-	-	-	-	-	-	-
Nigeria	6,319	-	-	-	-	-	-	-	789	789
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	1,044	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	1,071	-	-	-	-	-	-	-	419	419
Non-OPEC	8,864	736	332	810	-	316	316	7,013	9,970	16,983
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	67	48	115
Brazil	-	-	-	-	-	-	-	-	312	312
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	6,467	736	332	67	-	316	316	3,363	1,286	4,649
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	1,350	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	1	1
Finland	-	-	-	-	-	-	-	-	437	437
France	-	-	-	-	-	-	-	655	329	984
Germany	-	-	-	-	-	-	-	15	-	15
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	3,268	3,268
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	31	327	358
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	108	614	722
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	322	322
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	262	1,127	1,389
Russia	669	-	-	-	-	-	-	-	612	612
Spain	-	-	-	537	-	-	-	-	1,118	1,118
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	2,512	163	2,675
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	378	0	0	206	-	0	0	0	6	6
Total	29,063	736	332	1,225	-	316	316	7,013	11,228	18,241
Persian Gulf³	3,632	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	1,004	-	-	1,557	32	590	-	2,179
Argentina	-	-	-	971	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	33	-	-	1,557	32	590	-	2,179
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	-	0
Total	-	-	-	1,004	-	-	1,557	32	590	-	2,179
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	306	-	-	-	231	231
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	3	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	303	-	-	-	231	231
Non-OPEC	-	1	-	596	-	256	411	1,844	2,511
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	54	54
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	1	-	596	-	-	-	1,000	1,000
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	18	18
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	16	16
Netherlands	-	-	-	-	-	-	-	9	9
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	256	411	352	1,019
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	364	364
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	-	0	0	31	31
Total	-	1	-	902	-	256	411	2,075	2,742
Persian Gulf³	-	-	-	3	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	2,210	22,409	652	71	723
Algeria	-	-	-	-	-	-	-	415	2,099	54	13	68
Angola	-	-	-	-	-	-	-	50	5,258	168	2	170
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	2,588	83	-	83
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	2,285	74	-	74
Nigeria	-	-	-	-	-	-	-	789	7,108	204	25	229
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	3	1,047	34	0	34
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	953	2,024	35	31	65
Non-OPEC	-	-	88	3	919	140	-	26,618	35,482	286	859	1,145
Argentina	-	-	-	-	-	-	-	971	971	-	31	31
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	1	-	116	116	-	4	4
Brazil	-	-	21	-	-	-	-	387	387	-	12	12
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	58	-	709	107	-	10,783	17,250	209	348	556
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	4	-	-	-	-	4	4	-	0	0
Colombia	-	-	-	-	-	-	-	18	1,368	44	1	44
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	1	1	-	0	0
Finland	-	-	-	-	-	-	-	437	437	-	14	14
France	-	-	-	-	-	11	-	995	995	-	32	32
Germany	-	-	-	-	-	18	-	33	33	-	1	1
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	3,268	3,268	-	105	105
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	1	-	359	359	-	12	12
Korea, South	-	-	1	-	-	-	-	1	1	-	0	0
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	1	-	-	-	-	1	1	-	0	0
Mexico	-	-	-	-	-	-	-	16	16	-	1	1
Netherlands	-	-	-	-	-	-	-	731	731	-	24	24
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	322	322	-	10	10
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	1,389	1,389	-	45	45
Russia	-	-	-	-	-	1	-	1,632	2,301	22	53	74
Spain	-	-	2	-	210	-	-	1,867	1,867	-	60	60
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	364	364	-	12	12
United Kingdom	-	-	-	-	-	-	-	2,675	2,675	-	86	86
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	1	3	0	1	-	248	626	11	8	22
Total	-	-	88	3	919	140	-	28,828	57,891	938	930	1,867
Persian Gulf³	-	-	-	-	-	-	-	3	3,635	117	0	117

- = No Data Reported.

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

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

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

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

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

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	134	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	134	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	68,104	1,571	529	-	-	-	-	-	246	246
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	68,104	1,571	529	-	-	-	-	-	246	246
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	-	0	0
Total	68,238	1,571	529	-	-	-	-	-	246	246
Persian Gulf³	134	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	24	-	-	10	-	2	-	12
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	24	-	-	10	-	2	-	12
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	-	0
Total	-	-	-	24	-	-	10	-	2	-	12
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	6	-	-	39	-	10	-	10
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	6	-	-	39	-	10	-	10
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	0	-	0
Total	-	6	-	-	39	-	10	-	10
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	1	-	1	135	4	0	4
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	1	-	1	1	-	0	0
Saudi Arabia	-	-	-	-	-	-	-	-	134	4	-	4
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	89	77	3	14	213	188	-	3,021	71,125	2,197	97	2,294
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	89	77	3	14	213	187	-	3,020	71,124	2,197	97	2,294
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	1	-	1	1	-	0	0
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	0	0	0	0
Total	89	77	3	14	213	189	-	3,022	71,260	2,201	97	2,299
Persian Gulf³	-	-	-	-	-	1	-	1	135	4	0	4

- = No Data Reported.

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

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

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

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

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

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	56,917	-	-	3,119	-	-	-	-	-	-
Algeria	1,064	-	-	2,755	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	17,730	-	-	-	-	-	-	-	-	-
Kuwait	4,740	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	364	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	14,148	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	19,235	-	-	-	-	-	-	-	-	-
Non-OPEC	42,711	270	179	10,750	-	360	360	-	560	560
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	36	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	43	170	-	-	-	-	-	-
Brazil	5,580	-	-	-	-	-	-	-	52	52
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	12,092	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	5,416	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	58	-	-	-	-	-	-
France	-	-	-	456	-	-	-	-	-	-
Germany	-	-	-	27	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	352	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	9	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	18,225	270	34	-	-	66	66	-	299	299
Netherlands	-	-	-	649	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	571	-	-	755	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	6,768	-	-	-	-	-	-
Spain	-	-	-	530	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	300	-	-	345	-	-	-	-	-	-
United Kingdom	527	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	102	595	-	294	294	-	209	209
Total	99,628	270	179	13,869	-	360	360	-	560	560
Persian Gulf³	36,618	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	44	135	-	554	-	-	-	-	555	-	555
Argentina	-	-	-	554	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	44	135	-	-	-	-	-	-	555	-	555
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	-	-	0	-	0
Total	44	135	-	554	-	-	-	-	555	-	555
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	209	175	311	1,340	1,826
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	311	-	311
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	107	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	175	-	1,340	1,515
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	102	0	0	0	0
Total	-	-	-	-	209	175	311	1,340	1,826
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	254	—	3,373	60,290	1,836	109	1,945
Algeria	—	—	—	—	—	—	—	2,755	3,819	34	89	123
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	17,730	572	—	572
Kuwait	—	—	—	—	—	—	—	—	4,740	153	—	153
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	364	364	—	12	12
Qatar	—	—	—	—	—	146	—	146	146	—	5	5
Saudi Arabia	—	—	—	—	—	—	—	—	14,148	456	—	456
United Arab Emirates	—	—	—	—	—	108	—	108	108	—	3	3
Venezuela	—	—	—	—	—	—	—	—	19,235	620	—	620
Non-OPEC	602	348	30	324	—	453	—	17,202	59,913	1,378	555	1,933
Argentina	—	—	—	114	—	1	—	669	669	—	22	22
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	36	36	—	1	1
Bahrain	—	—	—	—	—	45	—	45	45	—	1	1
Belgium	—	—	—	—	—	3	—	216	216	—	7	7
Brazil	—	—	—	—	—	—	—	786	6,366	180	25	205
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	12,092	390	—	390
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	202	—	—	—	513	5,929	175	17	191
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	4	—	62	62	—	2	2
France	14	25	—	—	—	2	—	497	497	—	16	16
Germany	—	—	—	—	—	8	—	35	35	—	1	1
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	352	352	—	11	11
Indonesia	—	—	—	—	—	45	—	45	45	—	1	1
Italy	—	—	8	—	—	14	—	32	32	—	1	1
Korea, South	—	—	—	—	—	290	—	397	397	—	13	13
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	10	—	—	—	—	10	10	—	0	0
Mexico	277	—	—	—	—	—	—	2,461	20,686	588	79	667
Netherlands	—	—	—	—	—	—	—	649	649	—	21	21
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	323	—	—	—	—	—	1,078	1,649	18	35	53
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	30	—	6,798	6,798	—	219	219
Spain	—	—	—	—	—	—	—	530	530	—	17	17
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	345	645	10	11	21
United Kingdom	—	—	—	8	—	11	—	19	546	17	1	18
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	311	0	12	0	—	0	—	1,627	1,627	0	54	55
Total	602	348	30	324	—	707	—	20,575	120,203	3,214	664	3,878
Persian Gulf³	—	—	—	—	—	299	—	299	36,917	1,181	10	1,191

— = No Data Reported.

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

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

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

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

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

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	7,865	220	-	-	-	-	-	-	67	67
Canada	7,865	220	-	-	-	-	-	-	67	67
Other	0	0	-	-	-	-	-	-	0	0
Total	7,865	220	-	-	-	-	-	-	67	67
PAD District 5										
OPEC	21,600	-	-	758	-	-	-	-	-	-
Algeria	-	-	-	758	-	-	-	-	-	-
Angola	603	-	-	-	-	-	-	-	-	-
Ecuador	4,967	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	3,130	-	-	-	-	-	-	-	-	-
Kuwait	1,640	-	-	-	-	-	-	-	-	-
Libya	1,052	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	9,308	-	-	-	-	-	-	-	-	-
United Arab Emirates	900	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	16,186	727	-	987	-	43	43	268	872	1,140
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	4,626	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	5,934	687	-	-	-	43	43	-	714	714
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,517	-	-	238	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	158	158
Korea, South	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	268	-	268
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	2,109	40	-	749	-	0	0	0	0	0
Total	37,786	727	-	1,745	-	43	43	268	872	1,140
Persian Gulf³	14,978	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	2	-	-	8	-	-	-	8
Canada	-	-	-	2	-	-	8	-	-	-	8
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	2	-	-	8	-	-	-	8
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	269	86	396	-	702	-	-	-	702
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	269	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	86	-	-	437	-	-	-	437
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	160	-	-	-	160
Korea, South	-	-	-	-	-	-	105	-	-	-	105
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	396	-	0	-	-	-	0
Total	-	-	269	86	396	-	702	-	-	-	702
Persian Gulf ³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	3	-	-	-	-	-	-	-
Canada	-	3	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-
Total	-	3	-	-	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	-	-	174	174
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	174	174
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	55	4	-	3,425	-	-	184	456	640
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	4	-	-	-	-	184	-	184
China	-	-	-	315	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	508	-	-	-	-	-
Korea, South	55	-	-	2,602	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	100	100
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	0	356	356
Total	55	4	-	3,425	-	-	184	630	814
Persian Gulf ³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
PAD District 4												
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	22	-	1	323	8,188	254	10	264
Canada	-	-	-	-	22	-	1	323	8,188	254	10	264
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	22	-	1	323	8,188	254	10	264
PAD District 5												
OPEC	-	-	-	-	-	-	-	932	22,532	697	30	727
Algeria	-	-	-	-	-	-	-	758	758	-	24	24
Angola	-	-	-	-	-	-	-	-	603	19	-	19
Ecuador	-	-	-	-	-	-	-	174	5,141	160	6	166
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	3,130	101	-	101
Kuwait	-	-	-	-	-	-	-	-	1,640	53	-	53
Libya	-	-	-	-	-	-	-	-	1,052	34	-	34
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	9,308	300	-	300
United Arab Emirates	-	-	-	-	-	-	-	-	900	29	-	29
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	38	-	26	34	109	395	-	9,076	25,262	522	293	815
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	269	4,895	149	9	158
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	34	35	5	-	2,229	8,163	191	72	263
China	-	-	26	-	-	-	-	341	341	-	11	11
Colombia	-	-	-	-	-	-	-	238	3,755	113	8	121
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	826	826	-	27	27
Korea, South	-	-	-	-	-	22	-	2,784	2,784	-	90	90
Malaysia	-	-	-	-	74	-	-	74	74	-	2	2
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	496	496	-	16	16
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	38	-	-	-	-	-	-	38	38	-	1	1
United Kingdom	-	-	-	-	-	-	-	268	268	-	9	9
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	368	-	1,513	3,622	69	48	117
Total	38	-	26	34	109	395	-	10,008	47,794	1,219	323	1,542
Persian Gulf ³	-	-	-	-	-	-	-	-	14,978	483	-	483

- = No Data Reported.

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

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

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

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

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

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	121,161	-	-	4,769	-	-	-	-	6,434	6,434
Algeria	12,083	-	-	4,489	-	-	-	-	-	-
Angola	15,525	-	-	-	-	-	-	-	337	337
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	15,363	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	4,908	-	-	-	-	-	-	-	-	-
Nigeria	53,211	-	-	280	-	-	-	-	3,237	3,237
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	15,033	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	5,038	-	-	-	-	-	-	-	2,860	2,860
Non-OPEC	70,521	8,147	2,574	9,084	-	6,105	6,105	48,203	60,761	108,964
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	714	-	837	837	839	1,432	2,271
Brazil	8,123	-	-	-	-	-	-	-	312	312
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	42,461	7,217	2,574	261	-	2,342	2,342	24,461	9,160	33,621
Chad	1,903	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	8,514	-	-	104	-	-	-	-	1,210	1,210
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	9	9	10	179	189
Egypt	1,487	-	-	-	-	-	-	-	259	259
Estonia	-	-	-	-	-	-	-	-	1	1
Finland	-	-	-	-	-	-	-	-	1,969	1,969
France	-	-	-	-	-	-	-	3,892	1,651	5,543
Germany	-	-	-	75	-	116	116	158	98	256
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	8	8	529	10,022	10,551
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	327	327	118	1,298	1,416
Korea, South	-	-	-	-	-	-	-	-	1,461	1,461
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	495	495
Malaysia	-	-	-	-	-	-	-	-	175	175
Mexico	397	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	744	-	356	356	2,089	3,829	5,918
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	4,142	419	-	-	-	236	236	975	1,818	2,793
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	307	307	1,044	4,383	5,427
Russia	2,110	-	-	3,606	-	36	36	195	7,835	8,030
Spain	-	-	-	1,518	-	114	114	86	6,769	6,855
Sweden	-	511	-	327	-	167	167	128	862	990
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	2	2	-	240	240
United Kingdom	645	-	-	271	-	1,248	1,248	13,648	4,061	17,709
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	739	0	0	1,464	-	0	0	31	1,242	1,273
Total	191,682	8,147	2,574	13,853	-	6,105	6,105	48,203	67,195	115,398
Persian Gulf³	30,396	-	-	-	-	-	-	-	-	-

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-July 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	323	-	319	-	642
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	323	-	-	-	323
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	319	-	319
Non-OPEC	-	-	31	4,358	-	-	16,380	278	6,965	-	23,623
Argentina	-	-	-	4,098	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	31	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	260	-	-	13,864	278	6,444	-	20,586
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	4	-	-	-	4
Colombia	-	-	-	-	-	-	183	-	70	-	253
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	2,254	-	-	-	2,254
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	75	-	-	-	75
Mexico	-	-	-	-	-	-	-	-	100	-	100
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	351	-	351
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	-	-	0	0	0	-	0
Total	-	-	31	4,358	-	-	16,703	278	7,284	-	24,265
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	—	—	—	2,473	—	347	310	2,032	2,689
Algeria	—	—	—	—	—	347	—	—	347
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	10	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	3	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	310	—	310
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	3	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	2,457	—	—	—	2,032	2,032
Non-OPEC	168	27	—	7,732	—	341	1,855	11,322	13,518
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	151	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	43	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	13	—	—	—	54	54
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	7	—	3,669	—	85	76	4,844	5,005
Chad	—	—	—	6	—	—	—	—	—
China	168	—	—	262	—	—	—	—	—
Colombia	—	—	—	—	—	—	406	1,274	1,680
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	787	—	—	—	1	1
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	2,801	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	137	964	1,101
Netherlands	—	20	—	—	—	—	—	118	118
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	256	460	696	1,412
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	270	270
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	321	2,722	3,043
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	—	0	455	379	834
Total	168	27	—	10,205	—	688	2,165	13,354	16,207
Persian Gulf³	—	—	—	6	—	—	—	—	—

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	192	591	453	—	18,243	139,404	572	86	658
Algeria	—	—	—	—	—	387	—	5,223	17,306	57	25	82
Angola	—	—	—	—	—	—	—	337	15,862	73	2	75
Ecuador	—	—	—	—	—	—	—	10	10	—	0	0
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	3	15,366	72	0	72
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	310	5,218	23	1	25
Nigeria	—	—	—	—	—	—	—	3,840	57,051	251	18	269
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	3	15,036	71	0	71
United Arab Emirates	—	—	—	—	—	66	—	66	66	—	0	0
Venezuela	—	—	—	192	591	—	—	8,451	13,489	24	40	64
Non-OPEC	6	—	501	16	5,202	1,264	—	191,322	261,843	333	902	1,235
Argentina	—	—	—	—	—	8	—	4,106	4,106	—	19	19
Aruba	—	—	—	—	—	—	—	151	151	—	1	1
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	66	—	—	109	109	—	1	1
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	63	—	3,885	3,885	—	18	18
Brazil	—	—	42	—	—	—	—	452	8,575	38	2	40
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	371	6	4,121	765	—	80,805	123,266	200	381	581
Chad	—	—	—	—	—	—	—	6	1,909	9	0	9
China	—	—	48	—	—	—	—	482	482	—	2	2
Colombia	—	—	—	—	—	—	—	3,247	11,761	40	15	55
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	198	198	—	1	1
Egypt	—	—	—	—	—	—	—	259	1,746	7	1	8
Estonia	—	—	—	—	—	—	—	1	1	—	0	0
Finland	—	—	—	—	—	—	—	1,969	1,969	—	9	9
France	—	—	—	—	—	43	—	5,586	5,586	—	26	26
Germany	—	—	16	—	1	66	—	530	530	—	3	3
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	13,601	13,601	—	64	64
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	12	—	1,755	1,755	—	8	8
Korea, South	—	—	2	—	—	271	—	4,535	4,535	—	21	21
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	495	495	—	2	2
Malaysia	—	—	4	—	—	—	—	254	254	—	1	1
Mexico	—	—	—	—	—	—	—	1,201	1,598	2	6	8
Netherlands	—	—	1	—	—	—	—	7,157	7,157	—	34	34
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	3,448	7,590	20	16	36
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	5,734	5,734	—	27	27
Russia	—	—	—	—	—	21	—	13,107	15,217	10	62	72
Spain	—	—	8	—	945	—	—	9,440	9,440	—	45	45
Sweden	—	—	—	—	—	13	—	2,278	2,278	—	11	11
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	3,636	3,636	—	17	17
United Kingdom	6	—	—	—	—	—	—	19,234	19,879	3	91	94
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	—	9	10	69	2	—	3,661	4,400	4	18	22
Total	6	—	501	208	5,793	1,717	—	209,565	401,247	904	989	1,893
Persian Gulf³	—	—	—	—	—	66	—	72	30,468	143	0	144

— = No Data Reported.

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

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

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

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

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

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	9,403	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	9,352	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	51	-	-	-	-	-	-	-	-	-
Non-OPEC	497,698	14,510	3,128	-	-	-	-	258	1,601	1,859
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	497,200	14,510	3,128	-	-	-	-	258	1,601	1,859
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	498	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	0	0	0
Total	507,101	14,510	3,128	-	-	-	-	258	1,601	1,859
Persian Gulf³	9,352	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	270	-	-	170	-	6	11	187
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	270	-	-	170	-	6	11	187
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	270	-	-	170	-	6	11	187
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-July 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	5	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	5	-	-	-	-	-
Non-OPEC	-	14	-	-	300	-	294	280	574
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	14	-	-	300	-	294	280	574
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	0	-	0	0	0
Total	-	14	-	5	300	-	294	280	574
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-July 2017
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	1	-	6	9,409	44	0	44
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	1	-	1	1	-	0	0
Saudi Arabia	-	-	-	-	-	-	-	-	9,352	44	-	44
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	5	56	0	0	0
Non-OPEC	514	466	33	163	1,523	1,408	-	24,981	522,679	2,348	118	2,465
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	514	466	33	155	1,523	1,406	-	24,971	522,171	2,345	118	2,463
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	1	-	1	1	-	0	0
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	498	2	-	2
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	8	-	1	-	9	9	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	1	0	0
Total	514	466	33	163	1,523	1,409	-	24,987	532,088	2,392	118	2,510
Persian Gulf ³	-	-	-	-	-	1	-	1	9,353	44	0	44

- = No Data Reported.

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

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

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

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

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

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	436,950	199	-	20,804	-	-	-	-	289	289
Algeria	7,133	-	-	15,793	-	-	-	-	-	-
Angola	1,684	-	-	740	-	-	-	-	-	-
Ecuador	3,348	-	-	-	-	-	-	-	-	-
Equatorial Guinea	2,281	-	-	-	-	-	-	-	-	-
Gabon	304	-	-	224	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	102,529	-	-	1,123	-	-	-	-	-	-
Kuwait	23,814	-	-	-	-	-	-	-	-	-
Libya	1,239	-	-	725	-	-	-	-	-	-
Nigeria	3,334	-	-	730	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	148,714	-	-	501	-	-	-	-	-	-
United Arab Emirates	-	-	-	591	-	-	-	-	-	-
Venezuela	142,570	199	-	377	-	-	-	-	289	289
Non-OPEC	275,311	2,173	812	69,869	-	360	360	-	9,140	9,140
Argentina	-	-	-	106	-	-	-	-	604	604
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	36	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	43	6,098	-	-	-	-	832	832
Brazil	23,111	-	-	897	-	-	-	-	66	66
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	219	-	-	-	-	-	-
Canada	81,523	14	-	220	-	-	-	-	71	71
Chad	1,280	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	36,505	-	-	120	-	-	-	-	228	228
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	46	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	125	-	-	-	-	-	-
France	-	-	-	1,416	-	-	-	-	138	138
Germany	-	-	-	266	-	-	-	-	-	-
Guatemala	2,173	-	-	-	-	-	-	-	-	-
India	-	-	-	2,784	-	-	-	-	1,570	1,570
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	179	-	-	-	-	626	626
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	315	315
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	122,293	870	172	109	-	66	66	-	1,318	1,318
Netherlands	-	-	-	2,854	-	-	-	-	720	720
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	971	396	-	4,918	-	-	-	-	22	22
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	42,921	-	-	-	-	306	306
Spain	-	-	-	725	-	-	-	-	1,339	1,339
Sweden	-	-	-	320	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,112	-	-	711	-	-	-	-	270	270
United Kingdom	3,753	233	-	638	-	-	-	-	363	363
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2,286	660	597	3,937	-	294	294	-	352	352
Total	712,261	2,372	812	90,673	-	360	360	-	9,429	9,429
Persian Gulf³	275,057	-	-	2,215	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	1,644	885	-	1,503	-	-	-	-	940	864	1,804
Argentina	172	-	-	1,503	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	234	-	-	-	-	-	-	-	-	260	260
Brazil	245	885	-	-	-	-	-	-	555	-	555
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	115	115
Germany	161	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	114	114
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	766	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	385	375	760
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	66	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	-	-	0	0	0
Total	1,644	885	-	1,503	-	-	-	-	940	864	1,804
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
OPEC	-	-	-	-	37	575	-	999	1,574
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	37	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	575	-	999	1,574
Non-OPEC	-	-	-	-	2,298	883	1,363	11,070	13,316
Argentina	-	-	-	-	-	456	-	-	456
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	112	112
Brazil	-	-	-	-	58	-	298	-	298
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	603	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	311	-	311
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	41	-	-	-	-
Germany	-	-	-	-	36	-	-	1	1
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	81	-	81
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	462	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	334	175	302	9,967	10,444
Netherlands	-	-	-	-	14	-	-	10	10
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	14	-	-	-	-
Russia	-	-	-	-	-	252	22	973	1,247
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	4	4
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	3	3
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	736	0	349	0	349
Total	-	-	-	-	2,335	1,458	1,363	12,069	14,890
Persian Gulf³	-	-	-	-	37	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	326	—	—	—	—	1,232	—	24,461	461,411	2,061	115	2,176
Algeria	326	—	—	—	—	—	—	16,119	23,252	34	76	110
Angola	—	—	—	—	—	—	—	740	2,424	8	3	11
Ecuador	—	—	—	—	—	—	—	—	3,348	16	—	16
Equatorial Guinea	—	—	—	—	—	—	—	—	2,281	11	—	11
Gabon	—	—	—	—	—	—	—	224	528	1	1	2
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,123	103,652	484	5	489
Kuwait	—	—	—	—	—	—	—	—	23,814	112	—	112
Libya	—	—	—	—	—	—	—	725	1,964	6	3	9
Nigeria	—	—	—	—	—	—	—	730	4,064	16	3	19
Qatar	—	—	—	—	—	924	—	924	924	—	4	4
Saudi Arabia	—	—	—	—	—	—	—	538	149,252	701	3	704
United Arab Emirates	—	—	—	—	—	308	—	899	899	—	4	4
Venezuela	—	—	—	—	—	—	—	2,439	145,009	673	12	684
Non-OPEC	5,399	2,577	188	1,152	—	4,174	—	117,376	392,687	1,299	554	1,852
Argentina	—	266	—	771	—	7	—	3,885	3,885	—	18	18
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	36	36	—	0	0
Bahrain	—	—	—	—	—	545	—	545	545	—	3	3
Belgium	—	—	—	—	—	31	—	7,610	7,610	—	36	36
Brazil	—	—	—	—	—	—	—	3,019	26,130	109	14	123
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	219	219	—	1	1
Canada	—	—	—	—	—	—	—	908	82,431	385	4	389
Chad	—	—	—	—	—	—	—	—	1,280	6	—	6
China	—	—	90	—	—	—	—	90	90	—	0	0
Colombia	921	—	—	202	—	—	—	1,782	38,287	172	8	181
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	46	46	—	0	0
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	16	—	141	141	—	1	1
France	23	121	—	—	—	72	—	1,926	1,926	—	9	9
Germany	—	—	—	—	—	207	—	679	679	—	3	3
Guatemala	—	—	—	—	—	—	—	—	2,173	10	—	10
India	—	—	—	—	—	—	—	4,549	4,549	—	21	21
Indonesia	—	—	—	—	—	487	—	487	487	—	2	2
Italy	—	—	8	—	—	151	—	973	973	—	5	5
Korea, South	—	—	—	—	—	2,360	—	2,822	2,822	—	13	13
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	315	315	—	1	1
Malaysia	—	—	78	—	—	44	—	122	122	—	1	1
Mexico	2,053	—	—	—	—	—	—	15,366	137,659	577	72	649
Netherlands	151	—	—	—	—	—	—	4,552	4,552	—	21	21
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	2,006	—	—	—	—	—	7,342	8,313	5	35	39
Oman	—	—	—	—	—	65	—	65	65	—	0	0
Portugal	—	—	—	—	—	—	—	14	14	—	0	0
Russia	47	—	—	—	—	37	—	45,318	45,318	—	214	214
Spain	—	—	—	—	—	—	—	2,064	2,064	—	10	10
Sweden	—	—	—	—	—	—	—	324	324	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	981	2,093	5	5	10
United Kingdom	423	—	—	179	—	115	—	2,020	5,773	18	10	27
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	1,781	184	12	0	—	37	—	8,952	11,238	11	44	55
Total	5,725	2,577	188	1,152	—	5,406	—	141,837	854,098	3,360	669	4,029
Persian Gulf³	—	—	—	—	—	1,777	—	4,029	279,086	1,297	19	1,316

— = No Data Reported.

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

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

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

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

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

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	58,305	2,273	-	-	-	-	-	-	250	250
Canada	58,305	2,273	-	-	-	-	-	-	250	250
Other	0	0	-	-	-	-	-	-	0	0
Total	58,305	2,273	-	-	-	-	-	-	250	250
PAD District 5										
OPEC	146,071	-	-	5,445	-	-	-	-	-	-
Algeria	-	-	-	4,163	-	-	-	-	-	-
Angola	5,049	-	-	-	-	-	-	-	-	-
Ecuador	40,742	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	13,232	-	-	-	-	-	-	-	-	-
Kuwait	12,907	-	-	-	-	-	-	-	-	-
Libya	3,168	-	-	685	-	-	-	-	-	-
Nigeria	2,137	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	65,961	-	-	-	-	-	-	-	-	-
United Arab Emirates	2,875	-	-	597	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	103,616	6,934	-	16,703	-	955	955	268	7,565	7,833
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	648	-	-	-	-	-	-	-	-	-
Brazil	11,573	-	-	51	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	46,416	6,492	-	1,431	-	503	503	-	3,369	3,369
China	-	-	-	-	-	-	-	-	-	-
Colombia	28,292	-	-	539	-	-	-	-	218	218
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	24	24
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	548	548
Korea, South	-	-	-	-	-	175	175	-	1,094	1,094
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	5,412	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	43	43	-	643	643
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	1,561	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	112	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	537	537
United Kingdom	-	-	-	-	-	25	25	268	957	1,225
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	11,275	442	-	13,009	-	209	209	0	175	175
Total	249,687	6,934	-	22,148	-	955	955	268	7,565	7,833
Persian Gulf³	94,975	-	-	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-July 2017
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	28	-	-	306	-	-	-	306
Canada	-	-	-	28	-	-	306	-	-	-	306
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	28	-	-	306	-	-	-	306
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	718	316	2,693	-	2,422	-	95	-	2,517
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	718	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	316	-	-	1,463	-	95	-	1,558
China	-	-	-	-	-	-	289	-	-	-	289
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	237	-	-	-	237
Korea, South	-	-	-	-	-	-	433	-	-	-	433
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	2,693	-	0	-	0	-	0
Total	-	-	718	316	2,693	-	2,422	-	95	-	2,517
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-July 2017
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	20	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	12	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	7	-	-	-	-	-	-	-
Canada	-	7	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	-	-	-
Total	-	7	-	20	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	1	-	-	-	174	174
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	174	174
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	1	-	-	-	-	-
Non-OPEC	55	9	-	19,360	45	-	674	8,516	9,190
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	9	-	-	-	-	184	899	1,083
China	-	-	-	1,909	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	3,147	-	-	-	-	-
Korea, South	55	-	-	14,272	45	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	270	3,441	3,711
Netherlands	-	-	-	-	-	-	-	612	612
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	220	1,357	1,577
Singapore	-	-	-	-	-	-	-	773	773
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	0	0	-	32	0	-	0	1,434	1,434
Total	55	9	-	19,361	45	-	674	8,690	9,364
Persian Gulf ³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
PAD District 4												
OPEC	-	-	-	-	-	-	-	20	20	-	0	0
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	12	12	-	0	0
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	329	-	8	3,201	61,506	275	15	290
Canada	-	-	-	-	329	-	8	3,201	61,506	275	15	290
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	329	-	8	3,221	61,526	275	15	290
PAD District 5												
OPEC	-	-	-	-	-	-	-	5,620	151,691	689	27	716
Algeria	-	-	-	-	-	-	-	4,163	4,163	-	20	20
Angola	-	-	-	-	-	-	-	-	5,049	24	-	24
Ecuador	-	-	-	-	-	-	-	174	40,916	192	1	193
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	13,232	62	-	62
Kuwait	-	-	-	-	-	-	-	-	12,907	61	-	61
Libya	-	-	-	-	-	-	-	685	3,853	15	3	18
Nigeria	-	-	-	-	-	-	-	-	2,137	10	-	10
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	65,961	311	-	311
United Arab Emirates	-	-	-	-	-	-	-	597	3,472	14	3	16
Venezuela	-	-	-	-	-	-	-	1	1	-	0	0
Non-OPEC	235	32	222	211	703	484	1	69,216	172,832	489	326	815
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	648	3	-	3
Brazil	-	-	-	-	-	-	-	769	12,342	55	4	58
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	1	211	422	42	1	15,438	61,854	219	73	292
China	-	-	173	-	-	-	-	2,371	2,371	-	11	11
Colombia	-	-	-	-	1	-	-	758	29,050	133	4	137
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	24	24	-	0	0
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	45	-	-	1	-	3,978	3,978	-	19	19
Korea, South	36	-	-	-	-	73	-	16,183	16,183	-	76	76
Malaysia	-	-	3	-	209	-	-	212	212	-	1	1
Mexico	-	-	-	-	-	-	-	3,711	9,123	26	18	43
Netherlands	-	-	-	-	-	-	-	1,298	1,298	-	6	6
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	3,138	3,138	-	15	15
Singapore	-	-	-	-	-	-	-	3,466	3,466	-	16	16
Sweden	-	-	-	-	-	-	-	112	112	-	1	1
Taiwan	154	-	-	-	-	-	-	691	691	-	3	3
United Kingdom	-	-	-	-	-	-	-	1,250	1,250	-	6	6
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	45	32	0	0	71	368	0	15,817	27,092	53	73	128
Total	235	32	222	211	703	484	1	74,836	324,523	1,178	353	1,531
Persian Gulf³	-	-	-	-	-	-	-	597	95,572	448	3	451

- = No Data Reported.

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

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

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

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

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

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

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

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	0	6,437	20,609	120	525	27,691	893
Hydrocarbon Gas Liquids	3,143	8,356	26,578	69	1,336	39,482	1,274
Natural Gas Liquids	3,143	8,356	26,578	69	1,336	39,482	1,274
Ethane	1,312	2,314	2,591	-	-	6,218	201
Propane	1,571	280	21,229	0	859	23,939	772
Normal Butane	176	345	2,638	39	467	3,665	118
Isobutane	1	-	90	-	0	91	3
Natural Gasoline	84	5,416	30	30	10	5,570	180
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	126	3,028	10,033	2	542	13,730	443
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	21	1,081	3,552	1	209	4,864	157
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	1	0	1,625	-	2	1,628	53
Methyl Tertiary Butyl Ether (MTBE)	0	-	984	-	0	984	32
Other Oxygenates	1	0	641	-	2	644	21
Renewable Fuels (including Fuel Ethanol) ...	20	1,081	1,927	1	207	3,236	104
Fuel Ethanol	10	861	1,737	-	173	2,781	90
Biomass-Based Diesel	9	219	191	1	34	455	15
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	8	1,946	4,734	-	28	6,716	217
Naphthas and Lighter	2	1,939	4,640	-	25	6,606	213
Kerosene and Light Gas Oils	6	7	94	-	4	110	4
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	97	2	1,747	0	305	2,151	69
Reformulated	0	-	7	-	1	7	0
Conventional	97	2	1,740	0	304	2,144	69
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	6,774	1,476	94,109	37	9,891	112,287	3,622
Finished Motor Gasoline	28	347	20,677	1	803	21,856	705
Reformulated	-	-	-	-	-	-	-
Conventional	28	347	20,677	1	803	21,856	705
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	114	37	5,620	-	1,328	7,099	229
Kerosene	189	1	50	-	5	245	8
Distillate Fuel Oil	4,274	182	45,145	-	3,155	52,756	1,702
15 ppm sulfur and under	3,996	0	39,482	-	2,403	45,882	1,480
Greater than 15 ppm to 500 ppm sulfur	277	35	2,179	-	190	2,681	86
Greater than 500 ppm sulfur	0	147	3,483	-	562	4,192	135
Residual Fuel Oil	1,529	221	8,390	16	684	10,840	350
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	171	205	3,447	14	325	4,162	134
Waxes	52	24	26	-	7	110	4
Petroleum Coke	339	298	10,424	-	3,546	14,606	471
Asphalt and Road Oil	69	161	320	6	37	594	19
Miscellaneous Products	9	0	10	0	0	20	1
Total	10,043	19,296	151,329	228	12,295	193,191	6,232

- = 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-July 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	4,003	43,043	141,739	625	3,833	193,242	912
Hydrocarbon Gas Liquids	26,448	45,404	207,116	2,342	9,185	290,494	1,370
Natural Gas Liquids	26,448	45,404	207,116	2,342	9,185	290,494	1,370
Ethane	8,011	12,227	13,805	-	0	34,043	161
Propane	9,292	1,807	172,337	1	6,528	189,118	892
Normal Butane	790	2,335	20,638	195	2,597	26,430	125
Isobutane	5	1	972	-	0	973	5
Natural Gasoline	8,353	29,052	275	2,147	102	39,930	188
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	11,432	10,825	75,568	97	4,487	102,409	483
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	351	5,053	27,584	23	1,605	34,617	163
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	8	4	13,848	-	12	13,872	65
Methyl Tertiary Butyl Ether (MTBE)	1	0	7,755	-	0	7,755	37
Other Oxygenates	7	4	6,093	-	12	6,117	29
Renewable Fuels (including Fuel Ethanol) ...	344	5,049	13,736	23	1,593	20,745	98
Fuel Ethanol	290	4,208	13,359	0	1,448	19,305	91
Biomass-Based Diesel	54	841	378	23	145	1,440	7
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	10,767	5,377	34,890	73	1,076	52,184	246
Naphthas and Lighter	10,327	5,332	30,090	73	1,047	46,868	221
Kerosene and Light Gas Oils	440	45	4,800	1	29	5,316	25
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	314	395	13,093	0	1,806	15,609	74
Reformulated	4	0	44	-	5	53	0
Conventional	310	395	13,050	0	1,801	15,556	73
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	36,089	9,560	585,597	257	71,625	703,128	3,317
Finished Motor Gasoline	2,201	1,075	132,116	7	9,809	145,208	685
Reformulated	-	-	-	-	-	-	-
Conventional	2,201	1,075	132,116	7	9,809	145,208	685
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	1,113	1,418	33,248	-	6,321	42,100	199
Kerosene	349	12	470	-	22	853	4
Distillate Fuel Oil	16,887	1,658	253,230	-	21,639	293,413	1,384
15 ppm sulfur and under	13,913	8	219,373	-	13,715	247,009	1,165
Greater than 15 ppm to 500 ppm sulfur	2,872	938	20,136	-	1,482	25,429	120
Greater than 500 ppm sulfur	102	711	13,721	-	6,442	20,976	99
Residual Fuel Oil	9,058	1,863	50,086	130	4,284	65,421	309
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	1,431	1,256	20,666	75	1,660	25,089	118
Waxes	482	170	157	1	43	854	4
Petroleum Coke	3,937	1,431	93,708	0	27,619	126,697	598
Asphalt and Road Oil	546	673	1,741	43	225	3,229	15
Miscellaneous Products	84	3	175	0	2	264	1
Total	77,972	108,833	1,010,019	3,321	89,129	1,289,274	6,081

- = 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, July 2017
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	285	1	—	222	—	—	—	—	—	—
Australia	—	1,010	—	0	—	—	—	0	0	1
Bahamas	525	33	—	—	—	104	104	—	1	1
Bahrain	—	—	—	—	—	1	1	—	—	—
Belgium	—	0	—	5	—	—	—	—	0	0
Belize	—	—	—	—	—	57	57	—	—	—
Brazil	—	2,258	—	474	—	574	574	—	0	0
Canada	11,286	8,583	—	1,952	—	958	958	—	396	396
Cayman Islands	—	—	—	—	—	31	31	—	—	—
Chile	—	250	—	100	—	316	316	—	0	0
China	3,907	3,049	—	0	—	10	10	—	0	0
Colombia	500	0	—	1,053	—	1,165	1,165	—	0	0
Costa Rica	—	762	—	3	—	625	625	—	0	0
Denmark	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	959	—	0	—	540	540	—	120	120
Ecuador	—	114	—	0	—	518	518	—	260	260
Egypt	—	—	—	—	—	—	—	—	—	—
El Salvador	—	178	—	1	—	296	296	—	1	1
Finland	—	—	—	—	—	—	—	—	—	—
France	—	13	—	1	—	—	—	—	—	—
Germany	—	0	—	4	—	1	1	—	—	—
Ghana	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	—	0	—	—	—	—	—	—	—	—
Guatemala	—	602	—	2	—	1,006	1,006	—	58	58
Honduras	—	550	—	2	—	319	319	—	94	94
Hong Kong	—	576	—	0	—	—	—	—	—	—
India	—	1,648	—	0	—	0	0	—	0	0
Indonesia	—	522	—	0	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—
Israel	—	1	—	0	—	1	1	—	0	0
Italy	—	—	—	—	—	—	—	—	—	—
Jamaica	—	104	—	—	—	3	3	—	—	—
Japan	1,582	5,158	—	302	—	—	—	0	0	0
Korea, South	1,019	2,566	—	12	—	0	0	0	—	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	3,854	—	651	—	13,799	13,799	6	1,149	1,156
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—	—	—
Mozambique	—	551	—	—	—	—	—	—	—	—
Netherlands	700	395	—	334	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	0	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	80	80	—	—	—
Nigeria	—	—	—	0	—	—	—	—	—	—
Norway	—	786	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	700	755	—	1	—	522	522	—	59	59
Peru	—	—	—	2	—	865	865	—	—	—
Philippines	—	—	—	—	—	—	—	—	—	—
Portugal	—	158	—	—	—	—	—	—	—	—
Puerto Rico	—	2	—	0	—	1	1	0	1	1
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	2	—	1	1	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	—	1,154	—	10	—	2	2	—	0	0
South Africa	500	—	—	0	—	—	—	—	—	—
Spain	1,025	370	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—	—	—
Taiwan	—	0	—	0	—	0	0	—	—	—
Thailand	—	0	—	13	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	—	—	0	0	—	—	—
Turkey	—	86	—	—	—	—	—	—	0	0
United Arab Emirates	—	255	—	0	—	—	—	—	—	—
United Kingdom	3,156	1,466	—	0	—	1	1	0	0	0
Venezuela	—	—	—	1,093	—	0	0	—	—	—
Other	2,506	713	—	477	—	60	60	1	5	4
Total	27,691	39,482	—	6,716	—	21,856	21,856	7	2,144	2,151

See footnotes at end of table.

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

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	—	—	—	—	—	711	—	—	—	711
Australia	—	0	0	—	—	—	—	—	—	—	—
Bahamas	—	0	—	—	—	—	310	—	426	—	736
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	8	0	0	—	—	—	—	—	561	—	561
Belize	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	0	807	2	—	—	6,135	513	6	—	6,654
Canada	—	0	922	398	—	—	0	464	303	—	767
Cayman Islands	—	—	—	—	—	—	111	—	0	—	111
Chile	200	—	0	—	—	—	4,176	—	—	—	4,176
China	0	0	0	—	—	—	1	—	—	—	1
Colombia	—	—	64	—	—	—	663	—	—	—	663
Costa Rica	—	0	0	—	—	—	1	—	—	—	1
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	1	—	—	—	138	130	—	—	268
Ecuador	—	—	0	—	—	—	263	260	—	—	523
Egypt	—	—	—	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	73	256	—	—	329
Finland	—	—	—	—	—	—	300	—	—	—	300
France	—	0	—	—	—	—	3,667	—	60	—	3,727
Germany	—	0	—	—	—	—	302	—	—	—	302
Ghana	—	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	581	—	—	—	581
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	3,658	310	40	—	4,008
Honduras	—	—	0	—	—	—	525	88	27	—	640
Hong Kong	—	—	0	—	—	—	0	—	—	—	0
India	—	0	222	—	—	—	0	—	—	—	0
Indonesia	—	0	—	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—	—
Israel	—	0	0	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Jamaica	—	—	0	—	—	—	30	75	248	—	353
Japan	—	641	0	—	—	—	0	—	—	—	0
Korea, South	0	0	85	—	—	—	1	—	—	—	1
Lebanon	—	—	—	—	—	—	—	—	—	—	—
Mexico	776	1	84	38	—	—	7,794	106	40	—	7,939
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	300	—	—	—	300
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	102	1	—	—	7,144	—	28	—	7,173
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	—	—	90	—	—	90
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Norway	—	0	—	1	—	—	0	—	—	—	0
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	—	—	—	—	1,263	100	—	—	1,363
Peru	—	—	57	10	—	—	2,449	10	164	—	2,623
Philippines	—	0	113	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	3	—	—	—	0	—	—	—	0
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	0	—	0	—	—	—	0	—	—	—	0
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	1	34	0	—	—	1,089	—	572	—	1,661
South Africa	—	—	—	—	—	—	688	—	—	—	688
Spain	—	—	—	—	—	—	—	—	275	—	275
Switzerland	—	—	—	4	—	—	—	—	—	—	—
Taiwan	—	0	1	—	—	—	—	—	—	—	—
Thailand	—	0	—	—	—	—	1	—	—	—	1
Trinidad and Tobago	—	—	—	0	—	—	—	—	—	—	—
Turkey	—	0	—	—	—	—	0	—	—	—	0
United Arab Emirates	—	—	285	—	—	—	2	—	—	—	2
United Kingdom	—	0	0	—	—	—	1,086	—	303	—	1,389
Venezuela	—	0	—	—	—	—	541	—	523	—	1,064
Other	—	1	1	1	—	—	1,879	279	616	—	2,775
Total	984	644	2,781	455	—	—	45,882	2,681	4,192	—	52,756

See footnotes at end of table.

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

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	45	—	832	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	0	—	—	—	—	—	—	—
Brazil	—	—	—	311	—	—	—	—
Canada	186	—	—	1,187	—	797	—	—
Cayman Islands	—	—	—	250	—	—	—	—
Chile	1	—	—	159	—	—	—	—
China	1	—	—	—	—	1	—	—
Colombia	2	—	—	27	—	—	—	—
Costa Rica	0	—	—	—	—	1	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	—	—	301	—	—	—	—
Ecuador	—	—	—	1	—	212	—	—
Egypt	—	—	—	—	—	0	—	—
El Salvador	—	—	—	88	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	80	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	0	—	—	122	—	390	—	—
Honduras	—	—	—	68	—	268	—	—
Hong Kong	—	—	—	—	—	—	—	—
India	0	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	0	—	—	333	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	—	—	—	236	—	895	—	—
Japan	—	—	—	—	—	0	—	—
Korea, South	—	—	—	—	—	0	—	—
Lebanon	—	—	—	—	—	1,626	—	—
Mexico	4	—	—	1,417	—	1,326	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	871	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	0	—	—	641	—	645	—	—
Peru	—	—	—	312	—	0	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	—	—	—	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	1	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	2,563	—	—
South Africa	—	—	—	304	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	—	—	1	—	—
Thailand	—	—	—	—	—	—	—	—
Trinidad and Tobago	0	—	—	—	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	320	—	—
Venezuela	—	—	—	—	—	—	—	—
Other	50	—	—	426	—	883	—	—
Total	245	—	—	7,099	—	10,840	—	—

See footnotes at end of table.

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

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	0	0	91	1,002	—	2,027	2,312	9	65	75
Australia	1	403	—	7	—	1,422	1,422	—	46	46
Bahamas	0	—	5	3	0	1,759	2,284	17	57	74
Bahrain	—	—	—	0	—	1	1	—	0	0
Belgium	0	33	—	418	0	1,026	1,026	—	33	33
Belize	—	—	—	1	—	58	58	—	2	2
Brazil	1	1,411	0	317	0	12,810	12,810	—	413	413
Canada	64	535	231	293	2	17,270	28,556	364	557	921
Cayman Islands	—	—	1	2	—	395	395	—	13	13
Chile	0	—	—	67	—	5,269	5,269	—	170	170
China	14	618	6	43	1	3,745	7,652	126	121	247
Colombia	0	0	37	75	0	3,087	3,587	16	100	116
Costa Rica	0	—	0	18	0	1,411	1,411	—	46	46
Denmark	0	298	0	0	—	298	298	—	10	10
Dominican Republic	0	—	52	14	0	2,255	2,255	—	73	73
Ecuador	0	179	0	38	—	1,846	1,846	—	60	60
Egypt	—	564	—	0	0	564	564	—	18	18
El Salvador	0	—	—	6	—	899	899	—	29	29
Finland	—	—	—	0	—	300	300	—	10	10
France	0	—	—	72	—	3,813	3,813	—	123	123
Germany	1	0	1	175	—	484	484	—	16	16
Ghana	—	—	—	0	—	0	0	—	0	0
Gibraltar	—	—	—	260	—	921	921	—	30	30
Greece	0	527	—	0	—	528	528	—	17	17
Guatemala	0	172	—	15	—	6,375	6,375	—	206	206
Honduras	0	272	—	11	—	2,225	2,225	—	72	72
Hong Kong	1	—	—	3	0	580	580	—	19	19
India	3	2,468	1	8	0	4,351	4,351	—	140	140
Indonesia	0	—	4	1	—	527	527	—	17	17
Ireland	—	—	—	—	—	—	—	—	—	—
Israel	0	127	—	2	—	466	466	—	15	15
Italy	0	275	—	44	—	319	319	—	10	10
Jamaica	0	—	—	11	0	1,602	1,602	—	52	52
Japan	2	1,600	1	10	2	7,717	9,299	51	249	300
Korea, South	0	575	2	2	0	3,245	4,263	33	105	138
Lebanon	—	—	—	1	—	1,627	1,627	—	52	52
Mexico	14	1,909	97	701	10	33,776	33,776	—	1,090	1,090
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	212	—	—	—	512	512	—	17	17
Mozambique	—	—	—	0	—	551	551	—	18	18
Netherlands	4	50	1	3	0	8,934	9,634	23	288	311
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	99	0	1	—	100	100	—	3	3
Nicaragua	—	—	—	4	—	174	174	—	6	6
Nigeria	—	—	—	171	—	171	171	—	6	6
Norway	0	110	0	0	—	898	898	—	29	29
Pakistan	0	0	0	0	—	0	0	—	0	0
Panama	0	—	—	8	—	3,993	4,693	23	129	151
Peru	0	0	0	75	—	3,946	3,946	—	127	127
Philippines	0	0	—	1	1	115	115	—	4	4
Portugal	—	—	—	0	—	158	158	—	5	5
Puerto Rico	0	—	1	11	—	19	19	—	1	1
Romania	—	—	—	0	—	0	0	—	0	0
Saudi Arabia	0	83	1	5	—	93	93	—	3	3
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	0	0	91	0	5,516	5,516	—	178	178
South Africa	0	—	—	15	—	1,007	1,507	16	32	49
Spain	0	352	—	1	—	998	2,023	33	32	65
Switzerland	—	—	—	0	—	4	4	—	0	0
Taiwan	0	—	1	4	0	7	7	—	0	0
Thailand	0	0	2	3	0	20	20	—	1	1
Trinidad and Tobago	0	—	—	24	0	24	24	—	1	1
Turkey	—	1,137	0	37	—	1,261	1,261	—	41	41
United Arab Emirates	0	165	1	28	—	735	735	—	24	24
United Kingdom	0	44	0	1	—	3,223	6,379	102	104	206
Venezuela	0	—	0	0	—	2,158	2,158	—	70	70
Other	5	388	58	59	4	5,885	8,392	80	184	263
Total	110	14,606	594	4,162	20	165,500	193,191	893	5,339	6,232

— = 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-July 2017
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	1,091	1	—	459	—	1,197	1,197	—	0	0
Australia	223	3,855	—	3	—	2	2	1	1	1
Bahamas	2,637	173	—	190	—	1,230	1,230	0	2	2
Bahrain	—	—	—	—	—	4	4	1	—	1
Belgium	—	544	—	405	—	422	422	—	1	1
Belize	—	—	—	0	—	461	461	—	0	0
Brazil	—	11,498	—	2,078	—	6,334	6,334	—	163	163
Canada	66,798	56,410	—	14,750	—	2,823	2,823	—	2,472	2,472
Cayman Islands	—	12	—	0	—	138	138	—	0	0
Chile	—	5,172	—	494	—	1,553	1,553	—	1	1
China	37,534	27,397	—	2,312	—	66	66	—	5	5
Colombia	5,438	168	—	9,023	—	6,707	6,707	—	248	248
Costa Rica	—	1,023	—	22	—	3,998	3,998	—	704	704
Denmark	683	—	—	0	—	1	1	—	—	—
Dominican Republic	1,285	7,305	—	19	—	2,512	2,512	—	281	281
Ecuador	—	2,966	—	35	—	5,195	5,195	0	262	262
Egypt	—	2,181	—	2	—	—	—	—	—	—
El Salvador	—	1,426	—	4	—	2,371	2,371	—	1	1
Finland	—	—	—	—	—	0	0	0	—	0
France	3,250	3,107	—	738	—	1	1	9	0	10
Germany	—	0	—	28	—	3	3	0	1	1
Ghana	—	1,258	—	—	—	326	326	—	0	0
Gibraltar	295	—	—	—	—	—	—	—	—	—
Greece	—	0	—	—	—	0	0	—	—	—
Guatemala	—	2,431	—	46	—	8,760	8,760	—	151	151
Honduras	—	2,400	—	5	—	2,306	2,306	—	493	493
Hong Kong	732	1,151	—	2	—	1	1	—	0	0
India	1,468	9,858	—	8	—	1	1	0	0	0
Indonesia	—	2,671	—	18	—	—	—	0	—	0
Ireland	—	—	—	0	—	1	1	—	—	—
Israel	—	3	—	2	—	8	8	—	0	0
Italy	7,279	235	—	26	—	—	—	—	—	—
Jamaica	—	263	—	0	—	712	712	—	0	0
Japan	6,558	40,986	—	1,581	—	151	151	2	4	6
Korea, South	6,285	21,977	—	1,043	—	210	210	0	1	1
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	26,202	—	3,033	—	78,601	78,601	36	9,275	9,311
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,417	—	41	—	—	—	—	—	—
Mozambique	—	551	—	—	—	—	—	—	—	—
Netherlands	14,377	9,019	—	5,593	—	873	873	—	34	34
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	2	—	0	—	1	1	—	0	0
Nicaragua	801	0	—	0	—	786	786	—	0	0
Nigeria	—	—	—	0	—	631	631	—	—	—
Norway	675	7,058	—	—	—	1	1	0	—	0
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	1,125	1,781	—	3	—	5,461	5,461	—	198	198
Peru	1,719	2	—	11	—	4,134	4,134	—	246	246
Philippines	—	—	—	1	—	—	—	—	0	0
Portugal	—	742	—	—	—	1	1	—	—	—
Puerto Rico	—	14	—	2	—	231	231	0	10	10
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	—	18	—	3	3	1	—	1
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	6,528	12,818	—	133	—	138	138	—	0	0
South Africa	500	179	—	1	—	299	299	—	0	0
Spain	2,945	2,137	—	0	—	—	—	—	238	238
Switzerland	—	0	—	0	—	458	458	—	0	0
Taiwan	—	275	—	1,201	—	2	2	—	4	4
Thailand	1,599	1	—	15	—	—	—	—	0	0
Trinidad and Tobago	—	3	—	26	—	1	1	0	0	1
Turkey	—	2,517	—	0	—	—	—	1	0	1
United Arab Emirates	—	255	—	42	—	1	1	0	—	0
United Kingdom	13,462	8,065	—	156	—	6	6	0	1	1
Venezuela	—	250	—	7,345	—	3,296	3,296	—	577	577
Other	7,955	10,735	—	1,270	—	2,790	2,790	2	182	182
Total	193,242	290,494	—	52,184	—	145,208	145,208	53	15,556	15,609

See footnotes at end of table.

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

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	0	2	—	—	—	7,940	642	1,301	—	9,883
Australia	0	0	0	—	—	—	319	—	1	—	319
Bahamas	—	1	2	—	—	—	1,157	75	2,550	—	3,782
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	50	0	1	0	—	—	970	278	953	—	2,200
Belize	—	—	0	—	—	—	0	113	—	—	113
Brazil	0	0	7,382	2	—	—	35,894	2,579	230	—	38,704
Canada	—	3	4,472	1,238	—	—	7	3,037	1,382	—	4,427
Cayman Islands	—	—	0	—	—	—	1,191	0	0	—	1,191
Chile	1,501	0	1	—	—	—	19,700	—	—	—	19,700
China	0	1	1	—	—	—	8	—	—	—	8
Colombia	—	0	252	—	—	—	5,186	—	—	—	5,186
Costa Rica	—	0	1	—	—	—	4,718	—	0	—	4,718
Denmark	—	—	—	—	—	—	48	125	—	—	173
Dominican Republic	—	—	4	—	—	—	1,965	257	308	—	2,529
Ecuador	—	0	0	—	—	—	4,694	1,506	264	—	6,463
Egypt	—	0	1	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	151	1,995	0	—	2,145
Finland	—	—	—	—	—	—	300	—	—	—	300
France	—	1	4	—	—	—	13,158	329	363	—	13,850
Germany	—	0	1	0	—	—	302	—	—	—	302
Ghana	—	—	0	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	3,994	1,749	634	—	6,377
Greece	—	—	1	—	—	—	—	—	—	—	—
Guatemala	—	0	0	—	—	—	9,745	2,620	694	—	13,058
Honduras	—	—	0	—	—	—	2,052	854	113	—	3,019
Hong Kong	—	0	0	—	—	—	1	—	—	—	1
India	—	0	2,253	—	—	—	2	—	—	—	2
Indonesia	—	0	0	—	—	—	—	—	—	—	—
Ireland	—	0	1	—	—	—	—	—	—	—	—
Israel	—	0	1	—	—	—	1	—	—	—	1
Italy	—	0	0	4	—	—	1,013	20	—	—	1,033
Jamaica	—	—	296	—	—	—	1,470	75	582	—	2,127
Japan	—	6,092	8	—	—	—	1	—	—	—	1
Korea, South	0	1	640	2	—	—	5	—	40	—	45
Lebanon	—	0	—	—	—	—	0	—	281	—	281
Mexico	5,195	8	383	78	—	—	47,474	647	203	—	48,323
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	4,738	—	—	—	4,738
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	305	8	—	—	19,378	1,447	697	—	21,521
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	0	0	—	—	—	—	—	—	—	—
Nicaragua	—	—	0	3	—	—	53	751	100	—	904
Nigeria	—	—	330	—	—	—	—	—	—	—	—
Norway	—	0	0	1	—	—	10	—	—	—	10
Pakistan	—	0	0	—	—	—	—	—	—	—	—
Panama	—	0	0	—	—	—	7,466	1,579	366	—	9,410
Peru	—	0	519	93	—	—	14,534	260	229	—	15,023
Philippines	—	0	1,044	—	—	—	0	0	—	—	0
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	1	172	—	—	—	31	1	0	—	33
Romania	—	—	—	—	—	—	311	—	—	—	311
Saudi Arabia	1	0	1	—	—	—	1	—	—	—	1
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	5	326	2	—	—	5,053	—	3,462	—	8,515
South Africa	—	0	—	0	—	—	1,013	—	—	—	1,013
Spain	—	—	0	1	—	—	1,932	—	275	—	2,207
Switzerland	—	—	32	8	—	—	40	149	—	—	189
Taiwan	0	0	1	—	—	—	0	—	0	—	1
Thailand	—	0	0	—	—	—	2	—	0	—	2
Trinidad and Tobago	—	0	0	0	—	—	1	—	0	—	1
Turkey	—	0	—	—	—	—	98	—	—	—	98
United Arab Emirates	—	0	863	—	—	—	2	—	—	—	2
United Kingdom	—	0	1	—	—	—	9,337	0	303	—	9,641
Venezuela	1,008	0	0	—	—	—	3,103	285	794	—	4,182
Other	—	4	4	—	—	—	16,440	4,056	4,851	—	25,350
Total	7,755	6,117	19,305	1,440	—	—	247,009	25,429	20,976	—	293,413

See footnotes at end of table.

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

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	0	—	—	440	—	37	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	297	—	2,704	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	84	—	—
Belize	0	—	—	—	—	—	—	—
Brazil	0	—	—	1,702	—	—	—	—
Canada	308	—	—	8,281	—	7,897	—	—
Cayman Islands	57	—	—	1,503	—	0	—	—
Chile	5	—	—	1,824	—	0	—	—
China	4	—	—	4	—	1,688	—	—
Colombia	2	—	—	581	—	301	—	—
Costa Rica	0	—	—	859	—	202	—	—
Denmark	—	—	—	519	—	—	—	—
Dominican Republic	0	—	—	1,447	—	271	—	—
Ecuador	—	—	—	89	—	2,348	—	—
Egypt	—	—	—	—	—	887	—	—
El Salvador	0	—	—	217	—	—	—	—
Finland	47	—	—	307	—	—	—	—
France	48	—	—	942	—	—	—	—
Germany	0	—	—	—	—	2	—	—
Ghana	—	—	—	1	—	—	—	—
Gibraltar	—	—	—	—	—	306	—	—
Greece	—	—	—	—	—	0	—	—
Guatemala	97	—	—	770	—	1,074	—	—
Honduras	50	—	—	463	—	1,971	—	—
Hong Kong	0	—	—	—	—	0	—	—
India	0	—	—	0	—	0	—	—
Indonesia	—	—	—	0	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	872	—	—	—	—
Italy	—	—	—	0	—	—	—	—
Jamaica	0	—	—	820	—	2,575	—	—
Japan	1	—	—	1	—	0	—	—
Korea, South	0	—	—	0	—	0	—	—
Lebanon	—	—	—	—	—	4,210	—	—
Mexico	25	—	—	7,917	—	8,814	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	1,165	—	578	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	2	—	—	2,109	—	1,449	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	—	—	0	—	—
Nigeria	—	—	—	0	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	0	—	—
Panama	0	—	—	3,451	—	3,799	—	—
Peru	0	—	—	1,382	—	192	—	—
Philippines	—	—	—	0	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	1	—	—	1	—	—	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	1	—	—	—	—	0	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	1	—	—	0	—	18,852	—	—
South Africa	—	—	—	304	—	380	—	—
Spain	—	—	—	—	—	0	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	1	—	5	—	—
Thailand	0	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	3	—	—	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	2	—	—	0	—	301	—	—
United Kingdom	—	—	—	630	—	323	—	—
Venezuela	—	—	—	—	—	648	—	—
Other	201	—	—	3,198	—	3,523	—	—
Total	853	—	—	42,100	—	65,421	—	—

See footnotes at end of table.

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

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	3	180	91	2,498	0	14,791	15,882	5	70	75
Australia	5	1,570	1	67	0	5,824	6,047	1	27	29
Bahamas	0	—	25	403	0	8,809	11,446	12	42	54
Bahrain	0	—	—	3	—	8	8	—	0	0
Belgium	4	1,041	1	2,220	1	6,973	6,973	—	33	33
Belize	—	—	0	9	—	584	584	—	3	3
Brazil	3	8,022	1	1,718	3	77,610	77,610	—	366	366
Canada	541	3,578	1,165	1,868	22	110,254	177,052	315	520	835
Cayman Islands	—	—	5	11	—	2,917	2,917	—	14	14
Chile	3	—	361	545	1	31,162	31,162	—	147	147
China	65	12,156	28	600	6	44,341	81,875	177	209	386
Colombia	2	1	71	689	2	23,233	28,671	26	110	135
Costa Rica	1	456	133	115	0	12,233	12,233	—	58	58
Denmark	0	606	1	202	—	1,501	2,184	3	7	10
Dominican Republic	2	655	237	175	1	15,437	16,722	6	73	79
Ecuador	1	988	1	331	0	18,680	18,680	—	88	88
Egypt	0	3,332	0	17	0	6,421	6,421	—	30	30
El Salvador	0	152	0	160	—	6,478	6,478	—	31	31
Finland	0	275	0	4	0	934	934	—	4	4
France	2	1,474	0	477	—	20,653	23,902	15	97	113
Germany	9	294	5	701	0	1,347	1,347	—	6	6
Ghana	0	—	—	2	—	1,587	1,587	—	7	7
Gibraltar	—	—	—	1,624	—	8,307	8,602	1	39	41
Greece	0	3,526	—	3	—	3,530	3,530	—	17	17
Guatemala	0	1,179	0	137	—	27,704	27,704	—	131	131
Honduras	0	1,062	67	85	—	11,920	11,920	—	56	56
Hong Kong	4	0	0	19	1	1,180	1,912	3	6	9
India	11	21,722	7	626	1	34,491	35,959	7	163	170
Indonesia	1	0	12	26	0	2,728	2,728	—	13	13
Ireland	0	385	—	0	0	387	387	—	2	2
Israel	0	1,152	—	501	0	2,541	2,541	—	12	12
Italy	1	3,247	1	106	1	4,655	11,934	34	22	56
Jamaica	0	0	0	96	1	6,891	6,891	—	33	33
Japan	7	11,187	3	116	20	60,159	66,717	31	284	315
Korea, South	1	4,579	51	216	4	28,769	35,054	30	136	165
Lebanon	0	822	—	9	—	5,322	5,322	—	25	25
Mexico	112	13,289	608	3,764	58	205,723	205,723	—	970	970
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	2,927	—	1	—	10,866	10,866	—	51	51
Mozambique	—	419	—	0	—	971	971	—	5	5
Netherlands	24	1,418	8	503	10	42,875	57,253	68	202	270
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	417	1	6	0	428	428	—	2	2
Nicaragua	0	—	0	43	—	1,737	2,538	4	8	12
Nigeria	—	—	—	557	—	1,518	1,518	—	7	7
Norway	0	652	1	3	0	7,727	8,401	3	36	40
Pakistan	0	0	1	4	0	6	6	—	0	0
Panama	0	—	98	203	114	24,518	25,643	5	116	121
Peru	1	360	2	455	0	22,420	24,139	8	106	114
Philippines	1	573	—	7	1	1,628	1,628	—	8	8
Portugal	0	837	—	1	—	1,581	1,581	—	7	7
Puerto Rico	0	0	2	88	0	556	556	—	3	3
Romania	0	191	—	1	—	502	502	—	2	2
Saudi Arabia	1	259	2	66	0	354	354	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	1	0	0	670	0	41,462	47,990	31	196	226
South Africa	1	208	0	434	—	2,820	3,320	2	13	16
Spain	3	4,673	30	8	0	9,297	12,242	14	44	58
Switzerland	0	—	—	0	0	688	688	—	3	3
Taiwan	29	233	4	55	1	1,813	1,813	—	9	9
Thailand	0	0	11	31	2	63	1,662	8	0	8
Trinidad and Tobago	0	1	0	64	0	100	100	—	0	0
Turkey	0	11,105	0	114	—	13,836	13,836	—	65	65
United Arab Emirates	0	305	3	341	—	2,115	2,115	—	10	10
United Kingdom	2	613	2	33	0	19,473	32,935	63	92	155
Venezuela	0	83	2	789	0	18,178	18,178	—	86	86
Other	13	4,493	187	469	14	52,416	60,372	40	246	283
Total	854	126,697	3,229	25,089	264	1,096,032	1,289,274	912	5,170	6,081

— = 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, July 2017
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	3,189	-12	-	103	-	-17	-17	-	32	32
Algeria	89	-	-	127	-	-	-	-	-	-
Angola	187	-	-	-	-	-	-	-	2	2
Ecuador	160	-4	-	0	-	-17	-17	-	-8	-8
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	756	-	-	-	-	-	-	-	-	-
Kuwait	206	-	-	-	-	0	0	-	-	-
Libya	108	-	-	-	-	-	-	-	-	-
Nigeria	204	-	-	12	-	-	-	-	25	25
Qatar	-	-	-	0	-	-	-	-	-	-
Saudi Arabia	795	-	-	0	-	0	0	-	-	-
United Arab Emirates	29	-8	-	0	-	-	-	-	-	-
Venezuela	655	-	-	-35	-	0	0	-	14	14
Non-OPEC	3,743	-1,148	34	223	-	-665	-665	235	317	552
Argentina	-9	0	-	-7	-	-	-	-	-	-
Aruba	-	-19	-	-	-	0	0	-	-	-
Australia	-	-33	-	0	-	-	-	0	0	0
Bahamas	-17	-1	-	1	-	-3	-3	-	0	0
Bahrain	-	-	-	-	-	0	0	-	-	-
Belgium	-	0	1	5	-	-	-	2	2	4
Brazil	329	-73	-	-15	-	-19	-19	-	12	12
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	0	0	-	-	-
Canada	2,877	-173	28	-61	-	-19	-19	108	62	170
Chad	-	-	-	-	-	-	-	-	-	-
China	-126	-98	-	0	-	0	0	-	0	0
Colombia	316	0	-	-26	-	-38	-38	-	0	0
Denmark	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-30	-	0	-	-17	-17	-	-4	-4
Estonia	-	-	-	-	-	-	-	-	0	0
Finland	-	-	-	2	-	-	-	-	14	14
France	-	0	-	15	-	-	-	21	11	32
Germany	-	0	-	1	-	0	0	0	-	0
Guatemala	-	-19	-	0	-	-32	-32	-	-2	-2
Honduras	-	-18	-	0	-	-10	-10	-	-3	-3
India	-	-53	-	16	-	0	0	-	105	105
Indonesia	-	-17	-	0	-	-	-	-	-	-
Italy	-	-	-	0	-	-	-	1	11	12
Japan	-51	-166	-	-10	-	-	-	0	5	5
Korea, South	-33	-83	-	0	-	0	0	0	-	0
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-81	-	-	0	-	-	-	-	0	0
Mexico	588	-116	1	-21	-	-443	-443	0	-27	-28
Netherlands	-23	-13	-	10	-	-	-	3	20	23
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	18	-25	-	24	-	-	-	-	10	10
Oman	-	-	-	-15	-	-	-	-	-	-
Panama	-23	-24	-	0	-	-17	-17	-	-2	-2
Portugal	-	-5	-	-	-	-	-	8	36	45
Puerto Rico	-	0	-	0	-	0	0	0	0	0
Russia	67	-	-	237	-	-	-	-	20	20
Spain	-33	-12	-	34	-	-	-	-	36	36
Sweden	-	-	-	-	-	-	-	-	0	0
Trinidad and Tobago	10	0	-	11	-	0	0	-	-	-
United Kingdom	-85	-47	-	0	-	0	0	90	5	95
Vietnam	-	-	-	-	-	-	-	-	0	0
Virgin Islands, U.S.	-	-	-	-	-	0	0	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	19	-123	4	22	-	-67	-67	2	6	8
Total	6,932	-1,160	34	327	-	-682	-682	235	349	584
Persian Gulf²	1,786	-8	-	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, July 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	0	0	-9	-	-	-	-26	-8	-25	-	-59
Algeria	-	-	-	-	-	-	-	-	-8	-	-8
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	0	-	-	-	-8	-8	-	-	-17
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	0	-	-	-	0
Saudi Arabia	0	-	0	-	-	-	0	-	-	-	0
United Arab Emirates	-	-	-9	-	-	-	0	-	-	-	0
Venezuela	-	0	-	-	-	-	-17	-	-17	-	-34
Non-OPEC	-30	-16	-72	39	13	-	-1,381	-77	-73	-	-1,531
Argentina	-	-	-	49	-	-	-23	-	-	-	-23
Aruba	-	-	-	-	-	-	0	-	-	-	0
Australia	-	0	0	-	-	-	-	-	-	-	-
Bahamas	-	0	-	-	-	-	-10	-	-14	-	-24
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	0	0	0	-	-	-	-	-	-18	-	-18
Brazil	1	4	-17	0	-	-	-198	-17	18	-	-197
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-30	-8	-	-	65	-14	9	-	60
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	0	-	-	-	0
Colombia	-	-	-2	-	-	-	-21	-	-	-	-21
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-4	-4	-	-	-9
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-10	-	-	-	-10
France	-	0	-	-	-	-	-118	-	-2	-	-120
Germany	-	0	-	-	-	-	-10	-	-	-	-10
Guatemala	-	-	-	-	-	-	-118	-10	-1	-	-129
Honduras	-	-	0	-	-	-	-17	-3	-1	-	-21
India	-	0	-7	-	-	-	0	-	-	-	0
Indonesia	-	0	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-21	0	-	-	-	5	-	-	-	5
Korea, South	0	0	-3	-	-	-	3	-	-	-	3
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-	-	-	-	0	-	-	-	0
Mexico	-25	0	-3	-1	-	-	-251	-3	-1	-	-256
Netherlands	-	0	-3	0	-	-	-230	-	-1	-	-231
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	0	-	0	-	-	0	-	-	-	0
Oman	-	-	-	-	-	-	0	-	-	-	0
Panama	-	-	-	-	-	-	-41	-3	-	-	-44
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	-	-	-	0
Russia	-	-	-	-	-	-	-	0	-	-	-
Spain	-	-	-	-	-	-	-	-	-9	-	-9
Sweden	-	-	-	-	-	-	0	-	-	-	0
Trinidad and Tobago	-	-	-	0	-	-	-	-	-	-	-
United Kingdom	-	0	0	-	-	-	-35	-	-10	-	-45
Vietnam	-	0	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-6	-	-12	-	-17
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-6	1	-7	-1	13	-	-362	-23	-31	-	-415
Total	-30	-16	-81	39	13	-	-1,407	-85	-98	-	-1,590
Persian Gulf²	0	-	-9	-	-	-	0	-	-	-	0

See footnotes at end of table.

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

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	10	-	6	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-1	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	0	-	-	0	-	-	-	-
United Arab Emirates	0	-	-	-	-	-	-	-
Venezuela	-	-	-	10	-	7	-	-
Non-OPEC	-6	0	-	-99	8	-182	24	14
Argentina	-	-	-	-	-	-	-	-
Aruba	0	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-1	-	-27	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	-	-	-	-10	-	2	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-6	0	-	-19	1	13	3	2
Chad	-	-	-	-	-	-	-	-
China	0	-	-	10	-	0	-	-
Colombia	0	-	-	-1	-	11	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	-	-	-	-10	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	0	1
Germany	-	-	-	-	-	-	-	-
Guatemala	0	-	-	-4	-	-13	-	-
Honduras	-	-	-	-2	-	-9	-	-
India	0	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	-	-	-	16	3	0	1	-
Korea, South	2	-	-	84	3	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-46	-	7	9	-
Netherlands	-	-	-	-28	-	0	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	10
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-21	-	-21	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	-	-	-	-	-
Russia	-	-	-	-	-	33	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-2	-	-	-	-	-	-	-
Trinidad and Tobago	0	-	-	-	-	23	-	-
United Kingdom	-	-	-	-	-	-10	-	-
Vietnam	-	-	-	-	-	0	-	-
Virgin Islands, U.S.	0	-	-	-	-	-29	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-67	1	-162	11	1
Total	-6	0	-	-89	8	-176	24	14
Persian Gulf²	0	-	-	0	-	-	-	-

See footnotes at end of table.

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

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-14	0	0	-	41	3,229
Algeria	-	-	-	0	-	119	207
Angola	-	-	0	-	-	2	189
Ecuador	0	-6	0	-1	-	-54	106
Equatorial Guinea	-	-	-	0	-	0	0
Gabon	-	-	-	-	-	-	-
Iran	-	-	-	0	-	0	0
Iraq	-	-	-	0	-	0	756
Kuwait	-	0	-	0	-	0	206
Libya	-	-	-	-	-	-	108
Nigeria	-	-	-	-6	-	32	236
Qatar	-	0	-	5	-	5	5
Saudi Arabia	0	-3	0	0	-	-3	792
United Arab Emirates	0	-5	0	3	-	-20	9
Venezuela	0	-	0	0	-	-39	616
Non-OPEC	1	-445	22	-88	-1	-3,355	388
Argentina	0	4	-3	-32	-	-12	-22
Aruba	-	-	-	0	-	-19	-19
Australia	0	-13	-	0	-	-46	-46
Bahamas	0	-	0	0	0	-56	-73
Bahrain	-	-	-	1	-	1	1
Belgium	0	-1	-	-1	0	-11	-11
Brazil	1	-46	0	-10	0	-367	-37
Brunei	-	0	-	0	-	0	0
Cameroon	0	-	-	0	-	0	0
Canada	0	-16	24	0	0	-30	2,847
Chad	-	-	-	-	-	-	-
China	1	-20	0	-1	0	-110	-236
Colombia	0	7	-1	-2	0	-75	241
Denmark	0	-10	0	0	-	-10	-10
Dominican Republic	0	-	-2	0	0	-71	-71
Estonia	-	-	-	0	-	0	0
Finland	-	-	-	0	-	6	6
France	0	-	-	-2	-	-75	-75
Germany	0	0	0	-5	-	-13	-13
Guatemala	0	-6	-	0	-	-206	-206
Honduras	0	-9	-	0	-	-72	-72
India	0	-80	0	0	0	-19	-19
Indonesia	0	-	0	1	-	-16	-16
Italy	0	-9	-	-1	-	2	2
Japan	0	-52	0	0	0	-217	-268
Korea, South	0	-19	0	10	0	-2	-35
Latvia	0	-	-	0	-	0	0
Lithuania	-	-	-	-	-	-	-
Malaysia	0	-	2	0	0	2	-78
Mexico	0	-62	-3	-23	0	-1,010	-422
Netherlands	0	-2	0	0	0	-244	-266
Netherlands Antilles	-	-	-	-	-	-	-
Norway	0	-4	0	0	-	16	35
Oman	-	-	-	0	-	-15	-15
Panama	0	-	-	0	-	-129	-151
Portugal	-	-	-	0	-	40	40
Puerto Rico	0	-	0	0	-	-1	-1
Russia	-	-	0	1	-	291	358
Spain	0	-11	7	0	-	45	12
Sweden	0	-	-	0	-	-2	-2
Trinidad and Tobago	0	-	-	-1	0	34	43
United Kingdom	0	-1	0	0	-	-8	-93
Vietnam	0	-	0	0	0	0	0
Virgin Islands, U.S.	-	-	0	0	-	-46	-46
Yemen	-	-	-	0	-	0	0
Other	-1	-95	-2	-23	-1	-910	-894
Total	1	-459	22	-88	-1	-3,314	3,618
Persian Gulf²	0	-8	0	8	-	-17	1,769

- = 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-July 2017
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	3,366	-15	-	111	-	-43	-43	0	28	28
Algeria	91	-	-	115	-	-	-	-	0	0
Angola	105	-	-	3	-	-	-	-	2	2
Ecuador	208	-14	-	0	-	-25	-25	0	-1	-1
Equatorial Guinea	11	0	-	-	-	-	-	-	-	-
Gabon	1	-	-	1	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	619	-	-	5	-	-	-	-	-	-
Kuwait	173	0	-	-	-	0	0	-	0	0
Libya	44	-	-	7	-	-	-	-	-	-
Nigeria	277	-	-	5	-	-3	-3	-	15	15
Qatar	-	-	-	0	-	0	0	-	-	-
Saudi Arabia	1,128	0	-	2	-	0	0	0	0	0
United Arab Emirates	14	-1	-	5	-	0	0	0	-	0
Venezuela	697	0	-	-33	-	-16	-16	-	12	12
Non-OPEC	3,831	-1,193	31	240	-	-607	-607	230	305	534
Argentina	-5	0	-	-2	-	-6	-6	-	3	3
Aruba	-	-35	-	0	-	-1	-1	-	-	-
Australia	2	-18	-	0	-	0	0	0	0	0
Bahamas	-12	-1	-	-1	-	-6	-6	0	0	0
Bahrain	-	-	-	-	-	0	0	0	-	0
Belgium	-	-3	0	30	-	2	2	4	11	15
Brazil	202	-54	-	-5	-	-30	-30	-	1	1
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	0	-	1	-	0	0	-	0	0
Canada	3,109	-122	27	-61	-	0	0	117	57	173
Chad	15	-	-	-	-	-	-	-	-	-
China	-177	-129	-	-11	-	0	0	-	0	0
Colombia	320	-1	-	-39	-	-32	-32	-	7	7
Denmark	-3	-	-	0	-	0	0	0	1	1
Dominican Republic	-6	-34	-	0	-	-12	-12	-	-1	-1
Estonia	-	-	-	0	-	-	-	-	0	0
Finland	-	-	-	1	-	0	0	0	9	9
France	-15	-15	-	3	-	0	0	18	8	27
Germany	-	0	-	1	-	1	1	1	1	1
Guatemala	10	-11	-	0	-	-41	-41	-	-1	-1
Honduras	-	-11	-	0	-	-11	-11	-	-2	-2
India	-7	-46	-	15	-	0	0	2	55	57
Indonesia	-	-13	-	0	-	-	-	0	-	0
Italy	-34	-1	-	1	-	2	2	1	9	10
Japan	-31	-193	-	-7	-	-1	-1	0	3	3
Korea, South	-30	-104	-	-5	-	0	0	0	12	12
Latvia	-	-	-	-	-	-	-	-	0	0
Lithuania	-	-	-	-	-	-	-	-	4	4
Malaysia	-22	-	-	0	-	0	0	-	1	1
Mexico	607	-119	1	-14	-	-370	-370	0	-38	-38
Netherlands	-68	-43	-	-9	-	-2	-2	10	24	34
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	21	-29	-	23	-	1	1	5	9	13
Oman	-	-	-	-4	-	-	-	-	-	-
Panama	-5	-8	-	0	-	-26	-26	-	-1	-1
Portugal	-	-4	-	-	-	1	1	5	21	26
Puerto Rico	-	0	-	0	-	-1	-1	0	0	0
Russia	44	0	-	272	-	1	1	1	39	40
Spain	-14	-10	-	11	-	1	1	0	37	38
Sweden	-	2	-	4	-	1	1	1	4	5
Trinidad and Tobago	10	2	-	7	-	0	0	0	2	2
United Kingdom	-43	-37	-	4	-	6	6	66	25	91
Vietnam	-	-	-	0	-	-	-	0	0	0
Virgin Islands, U.S.	-	-3	-	-	-	-2	-2	-	-1	-1
Yemen	1	-	-	-	-	0	0	-	-	-
Other	-38	-153	3	25	-	-82	-82	-1	6	5
Total	7,197	-1,209	31	351	-	-650	-650	230	332	562
Persian Gulf²	1,933	-1	-	13	-	0	0	0	0	0

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-5	0	-6	-	-	-	-36	-10	-5	-	-51
Algeria	-	-	-	-	-	-	-1	-1	-1	-	-3
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-22	-7	-1	-	-30
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	0	-	-	-	0
Kuwait	-	-	0	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-2	-	-	-	2	-	-	-	2
Qatar	-	-	0	-	-	-	0	-	-	-	0
Saudi Arabia	0	0	0	-	-	-	0	-	-	-	0
United Arab Emirates	-	0	-4	-	-	-	0	-	-	-	0
Venezuela	-5	0	0	-	-	-	-15	-1	-2	-	-18
Non-OPEC	-24	-25	-82	24	13	-	-1,036	-109	-55	4	-1,196
Argentina	1	0	0	26	-	-	-37	-3	-6	-	-47
Aruba	-	-	-	-	-	-	-5	-	-	-	-5
Australia	0	0	0	-	-	-	-2	-	0	-	-2
Bahamas	-	0	0	-	-	-	-5	0	-12	-	-18
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	1	0	0	0	-	-	-5	-1	-4	1	-9
Brazil	1	4	-31	0	-	-	-169	-12	2	-	-180
Brunei	-	-	-	-	-	-	0	-	-	-	0
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-21	-2	-	-	75	-13	24	0	86
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	1	-	-	-	1
Colombia	-	0	-1	-	-	-	-24	-	0	-	-23
Denmark	-	-	-	-	-	-	0	-1	-1	-	-1
Dominican Republic	-	-	0	-	-	-	-9	-1	-1	-	-12
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-1	-	-	-	-1
France	-	0	0	-	-	-	-62	-2	-2	1	-65
Germany	1	0	0	0	-	-	-1	-	-	-	-1
Guatemala	-	0	0	-	-	-	-46	-12	-3	-	-62
Honduras	-	-	0	-	-	-	-10	-4	-1	-	-14
India	-	0	-11	-	-	-	11	-	-	1	11
Indonesia	-	0	0	-	-	-	-	-	-	-	-
Italy	-	0	0	0	-	-	-5	0	-	-	-5
Japan	-	-29	0	-	-	-	1	-	-	-	1
Korea, South	0	0	-3	0	-	-	2	-	0	-	2
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	-10	-	-10
Mexico	-25	0	-2	0	-	-	-224	-3	0	-	-227
Netherlands	4	0	-1	0	-	-	-91	-7	-3	-	-102
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	0	0	0	-	-	0	-	-	-	0
Oman	-	-	-	-	-	-	0	-	-	-	0
Panama	-	0	0	-	-	-	-35	-7	-2	-	-44
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-1	-	-	-	0	0	0	-	0
Russia	-	0	-	-	-	-	-	0	2	2	4
Spain	-	-	0	0	-	-	-9	-	-1	-	-10
Sweden	-	-	-	-	-	-	0	-	-	-	0
Trinidad and Tobago	-	0	0	0	-	-	0	-	2	-	2
United Kingdom	0	0	0	-	-	-	-44	0	-1	-	-45
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	0	-	-	-	-10	-2	-9	-	-20
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-11	0	13	-	-332	-41	-30	-1	-400
Total	-29	-25	-88	24	13	-	-1,073	-119	-60	4	-1,247
Persian Gulf²	0	0	-4	-	-	-	0	-	-	-	0

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	11	0	5	2	-
Algeria	-	-	-	-	-	2	2	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-10	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	-	-	-
Kuwait	-	-	-	0	-	-	-	-
Libya	0	-	-	-	-	1	-	-
Nigeria	-	-	-	0	-	-	-	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	0	-	-	0	0	0	-	-
United Arab Emirates	0	-	-	0	-	-1	-	-
Venezuela	-	-	-	12	-	14	-	-
Non-OPEC	-3	0	-	-70	12	-120	29	15
Argentina	0	-	-	-2	-	2	-	1
Aruba	0	-	-	-1	-	-1	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-1	-	-11	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	0	-	-
Brazil	0	-	-	-8	0	2	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-1	0	-	-22	4	-6	2	2
Chad	-	-	-	0	-	-	-	-
China	1	-	-	10	-	-8	-	-
Colombia	0	-	-	-3	-	8	4	-
Denmark	-	-	-	-2	-	-	-	-
Dominican Republic	0	-	-	-7	-	-1	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	0	-	-	-1	-	-	-	-
France	0	-	-	-4	0	-	0	1
Germany	0	-	-	-	0	0	-	-
Guatemala	0	-	-	-4	-	-5	-	-
Honduras	0	-	-	-2	-	-9	-	-
India	0	-	-	4	-	0	-	-
Indonesia	-	-	-	0	-	-	-	-
Italy	-	-	-	0	-	2	-	-
Japan	0	-	-	15	3	0	1	-
Korea, South	0	-	-	81	2	0	0	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	0	-	-	0	-	-	-	-
Mexico	0	-	-	-37	2	30	10	-
Netherlands	0	0	-	-10	0	-3	1	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	9
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-16	-	-18	-	-
Portugal	-	-	-	-	0	-	-	-
Puerto Rico	0	-	-	0	-	-	-	-
Russia	0	-	-	0	-	13	0	-
Spain	-	-	-	-	-	0	-	-
Sweden	-1	-	-	0	-	1	-	-
Trinidad and Tobago	0	-	-	0	-	16	-	-
United Kingdom	-	-	-	-3	-	-2	2	-
Vietnam	0	-	-	0	-	0	-	-
Virgin Islands, U.S.	0	-	-	-2	-	-10	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-2	0	-	-55	1	-120	9	2
Total	-3	0	-	-59	13	-115	31	15
Persian Gulf²	0	-	-	0	0	-1	-	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-July 2017
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-7	3	-2	0	31	3,397
Algeria	-	-	0	2	-	117	208
Angola	-	-	0	0	-	5	110
Ecuador	0	-5	0	-2	0	-87	121
Equatorial Guinea	-	-	-	0	-	0	11
Gabon	-	-	-	0	-	1	2
Iran	-	-	-	0	-	0	0
Iraq	-	-	0	0	-	5	624
Kuwait	0	0	0	0	0	0	173
Libya	-	-	-	0	-	8	52
Nigeria	-	-	-	-3	-	14	291
Qatar	0	-1	-	4	-	4	4
Saudi Arabia	0	-1	0	0	0	1	1,129
United Arab Emirates	0	-1	0	0	-	-3	11
Venezuela	0	1	3	-4	0	-34	662
Non-OPEC	0	-582	21	-74	-1	-3,058	773
Argentina	0	3	0	-12	0	-32	-37
Aruba	-	-	0	0	-	-43	-43
Australia	0	-7	0	0	0	-27	-25
Bahamas	0	-	0	-2	0	-39	-52
Bahrain	0	-	-	3	-	3	3
Belgium	0	-5	0	-8	0	23	23
Brazil	0	-38	0	-8	0	-346	-144
Brunei	-	0	-	0	-	0	0
Cameroon	0	-	0	0	-	1	1
Canada	-1	-15	25	2	0	71	3,180
Chad	-	-	-	0	-	0	15
China	1	-57	0	-3	0	-195	-372
Colombia	0	1	0	-3	0	-82	238
Denmark	0	-3	0	-1	-	-6	-9
Dominican Republic	0	-3	-1	-1	0	-72	-78
Estonia	0	-	-	0	-	0	0
Finland	0	-1	0	0	0	6	6
France	0	-7	0	-2	-	-61	-77
Germany	0	-1	0	-2	0	-1	-1
Guatemala	0	-6	0	-1	-	-131	-120
Honduras	0	-5	0	0	-	-56	-56
India	0	-102	0	-3	0	-75	-82
Indonesia	0	0	0	2	0	-11	-11
Italy	0	-15	0	0	0	-7	-41
Japan	0	-53	0	-1	0	-260	-291
Korea, South	0	-22	0	12	0	-25	-54
Latvia	0	-	-	0	-	0	0
Lithuania	0	-	-	0	-	4	4
Malaysia	0	-3	1	0	0	-11	-33
Mexico	-1	-63	-3	-18	0	-875	-268
Netherlands	0	-7	0	-2	0	-141	-209
Netherlands Antilles	-	-	-	-	-	-	-
Norway	0	-3	0	0	0	15	36
Oman	0	-1	0	0	-	-5	-5
Panama	0	-	0	-1	-1	-116	-121
Portugal	0	-4	-	0	-	20	20
Puerto Rico	0	0	0	0	0	-3	-3
Russia	0	0	0	0	-	330	374
Spain	0	-22	5	0	0	11	-3
Sweden	0	0	-	0	0	11	11
Trinidad and Tobago	0	0	0	0	0	28	38
United Kingdom	0	-2	0	0	0	14	-28
Vietnam	0	-4	0	0	0	-4	-4
Virgin Islands, U.S.	-	-	0	0	-	-38	-38
Yemen	-	-	-	0	-	0	1
Other	1	-137	-6	-25	0	-933	-972
Total	0	-589	24	-76	-1	-3,026	4,171
Persian Gulf²	0	-3	0	7	0	10	1,943

- = 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, July 2017
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	16,155	144,453	928,331	21,618	50,720	1,161,277
Refinery	12,263	14,146	47,681	2,699	23,202	99,991
Tank Farms and Pipelines (Includes Cushing, OK)	3,892	130,307	201,767	18,919	24,287	379,172
Cushing, Oklahoma	-	57,268	-	-	-	57,268
Leases	-	-	-	-	-	-
Strategic Petroleum Reserve ¹	-	-	678,883	-	-	678,883
Alaskan In Transit	-	-	-	-	3,231	3,231
Total Stocks, All Oils (excluding Crude Oil)²	170,000	188,298	371,067	20,146	87,085	836,597
Refinery	17,096	51,455	123,381	9,978	49,768	251,678
Bulk Terminal	125,020	99,490	193,035	6,310	31,978	455,834
Pipeline	27,609	35,509	50,598	3,715	4,809	122,240
Natural Gas Processing Plant	275	1,844	4,053	143	530	6,845
Natural Gas Liquids	8,407	54,571	128,092	3,877	5,091	200,038
Refinery	626	4,777	6,102	350	1,406	13,261
Bulk Terminal	6,781	33,326	102,396	1,542	3,144	147,189
Pipeline	725	14,624	15,541	1,842	11	32,743
Natural Gas Processing Plant	275	1,844	4,053	143	530	6,845
Ethane	408	5,287	43,967	433	-	50,095
Refinery	-	-	139	-	-	139
Bulk Terminal	174	2,555	38,240	-	-	40,969
Pipeline	234	2,475	5,153	433	-	8,295
Natural Gas Processing Plant	-	257	435	-	-	692
Propane	4,948	21,203	34,988	1,308	1,690	64,137
Refinery	117	1,368	1,016	49	111	2,661
Bulk Terminal	4,218	15,953	27,162	478	1,539	49,350
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	150	898	1,207	60	29	2,344
Normal Butane	2,625	16,789	30,744	1,546	2,887	54,591
Refinery	413	2,658	3,511	187	864	7,633
Bulk Terminal	2,166	12,539	24,085	1,050	1,600	41,440
Pipeline	6	1,337	1,633	280	-	3,256
Natural Gas Processing Plant	40	255	1,515	29	423	2,262
Isobutane	123	2,295	5,442	258	471	8,589
Refinery	96	427	1,049	105	428	2,105
Bulk Terminal	-	828	3,225	-	-	4,053
Pipeline	11	846	629	143	-	1,629
Natural Gas Processing Plant	16	194	539	10	43	802
Natural Gasoline	303	8,997	12,951	332	43	22,626
Refinery	-	324	387	9	3	723
Bulk Terminal	223	1,451	9,684	14	5	11,377
Pipeline	11	6,982	2,523	265	-	9,781
Natural Gas Processing Plant	69	240	357	44	35	745
Refinery Olefins	198	822	5,641	77	171	6,909
Refinery	198	804	2,839	77	171	4,089
Bulk Terminal	-	18	2,802	-	-	2,820
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Ethylene	-	-	0	-	-	0
Refinery	-	-	0	-	-	0
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Propylene	106	759	3,904	8	14	4,791
Refinery	106	741	1,102	8	14	1,971
Bulk Terminal	-	18	2,802	-	-	2,820
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Butylene	23	63	1,736	69	157	2,048
Refinery	23	63	1,736	69	157	2,048
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Isobutylene	69	0	1	0	0	70
Refinery	69	0	1	0	0	70
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Other Hydrocarbons	-	18	-	-	-	18
Refinery	-	18	-	-	-	18
Oxygenates (excluding Fuel Ethanol)	-	6	2,149	-	-	2,155
Refinery	-	-	-	-	-	-
Bulk Terminal	-	6	2,149	-	-	2,155
Pipeline	-	-	-	-	-	-

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	-	-	1,822	-	-	1,822
Refinery	-	-	-	-	-	-
Bulk Terminal ³	-	-	1,822	-	-	1,822
Pipeline	-	-	-	-	-	-
Other Oxygenates⁴	-	6	327	-	-	333
Refinery	-	-	-	-	-	-
Bulk Terminal	-	6	327	-	-	333
Pipeline	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,393	8,300	5,523	325	3,395	26,937
Refinery	166	136	381	109	316	1,108
Bulk Terminal	9,227	8,164	5,142	214	3,079	25,827
Pipeline	-	-	-	2	-	2
Fuel Ethanol²	7,185	7,328	3,919	309	2,406	21,147
Refinery	161	93	171	98	34	557
Bulk Terminal	7,024	7,235	3,748	209	2,372	20,588
Pipeline	-	-	-	2	-	2
Renewable Diesel Fuel	2,208	972	1,601	16	966	5,764
Refinery	5	43	210	11	259	528
Bulk Terminal	2,203	929	1,391	5	707	5,236
Pipeline	-	-	-	-	-	-
Other Renewable Fuels	-	-	3	-	23	26
Refinery	-	-	-	-	23	23
Bulk Terminal	-	-	3	-	-	3
Pipeline	-	-	-	-	-	-
Unfinished Oils	5,299	14,751	44,206	3,020	20,662	87,938
Naphthas and Lighter	1,455	3,265	11,532	739	3,935	20,926
Refinery	1,454	3,193	10,456	739	3,314	19,156
Bulk Terminal	1	72	1,076	-	621	1,770
Kerosene and Light Gas Oils	645	2,432	7,430	630	3,866	15,003
Refinery	645	2,432	7,386	630	3,655	14,748
Bulk Terminal	-	-	44	-	211	255
Heavy Gas Oils	2,145	6,390	20,253	1,137	10,526	40,451
Refinery	2,141	6,380	18,255	1,137	10,396	38,309
Bulk Terminal	4	10	1,998	-	130	2,142
Residuum	1,054	2,664	4,991	514	2,335	11,558
Refinery	1,054	2,186	4,991	514	2,335	11,080
Bulk Terminal	-	478	-	-	-	478
Motor Gasoline Blending Components²	59,510	46,777	73,170	5,230	25,213	209,900
Refinery	5,432	13,202	27,549	2,846	12,687	61,716
Bulk Terminal	42,675	23,821	27,480	1,553	9,590	105,119
Pipeline	11,403	9,754	18,141	831	2,936	43,065
Reformulated - RBOB	18,674	6,459	12,218	-	12,566	49,917
Refinery	1,404	1,442	2,057	-	5,028	9,931
Bulk Terminal	12,756	3,583	4,873	-	5,747	26,959
Pipeline	4,514	1,434	5,288	-	1,791	13,027
Conventional	40,836	40,318	60,952	5,230	12,647	159,983
Refinery	4,028	11,760	25,492	2,846	7,659	51,785
Bulk Terminal	29,919	20,238	22,607	1,553	3,843	78,160
Pipeline	6,889	8,320	12,853	831	1,145	30,038
CBOB	28,573	33,419	33,533	3,901	6,517	105,943
Refinery	945	5,741	10,533	1,518	1,777	20,514
Bulk Terminal	20,739	19,849	10,186	1,552	3,602	55,928
Pipeline	6,889	7,829	12,814	831	1,138	29,501
GTAB	1,402	-	-	-	-	1,402
Refinery	-	-	-	-	-	-
Bulk Terminal	1,402	-	-	-	-	1,402
Pipeline	-	-	-	-	-	-
Other	10,861	6,899	27,419	1,329	6,130	52,638
Refinery	3,083	6,019	14,959	1,328	5,882	31,271
Bulk Terminal	7,778	389	12,421	1	241	20,830
Pipeline	-	491	39	-	7	537
Aviation Gasoline Blending Components	-	-	7	-	-	7
Refinery	-	-	7	-	-	7
Bulk Terminal	-	-	-	-	-	-
Finished Motor Gasoline	4,634	6,346	8,644	1,466	2,067	23,157
Refinery	44	1,609	3,540	663	856	6,712
Bulk Terminal	1,555	2,635	3,606	550	1,081	9,427
Pipeline	3,035	2,102	1,498	253	130	7,018
Reformulated	34	-	-	-	19	53
Refinery	-	-	-	-	19	19
Bulk Terminal	34	-	-	-	-	34
Pipeline	-	-	-	-	-	-
Reformulated (Blended with Fuel Ethanol)	34	-	-	-	19	53
Refinery	-	-	-	-	19	19
Bulk Terminal	34	-	-	-	-	34
Pipeline	-	-	-	-	-	-

See footnotes at end of table.

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

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	-	-	-	-	-	-
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Conventional	4,600	6,346	8,644	1,466	2,048	23,104
Refinery	44	1,609	3,540	663	837	6,693
Bulk Terminal	1,521	2,635	3,606	550	1,081	9,393
Pipeline	3,035	2,102	1,498	253	130	7,018
Conventional (Blended with Fuel Ethanol)	44	124	-	49	-	217
Refinery	-	-	-	48	-	48
Bulk Terminal	44	124	-	1	-	169
Pipeline	-	-	-	-	-	-
Ed55 and Lower	44	124	-	49	-	217
Refinery	-	-	-	48	-	48
Bulk Terminal	44	124	-	1	-	169
Pipeline	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Conventional (Other)	4,556	6,222	8,644	1,417	2,048	22,887
Refinery	44	1,609	3,540	615	837	6,645
Bulk Terminal	1,477	2,511	3,606	549	1,081	9,224
Pipeline	3,035	2,102	1,498	253	130	7,018
Finished Aviation Gasoline	170	138	247	9	192	756
Refinery	-	67	185	9	122	383
Bulk Terminal	170	71	62	-	70	373
Pipeline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	10,240	7,299	13,780	694	8,996	41,009
Refinery	472	1,899	6,412	281	3,657	12,721
Bulk Terminal	4,542	3,680	3,222	242	4,446	16,132
Pipeline	5,226	1,720	4,146	171	893	12,156
Kerosene	1,505	103	86	1	9	1,704
Refinery	140	81	83	1	3	308
Bulk Terminal	1,365	22	3	-	6	1,396
Pipeline	-	-	-	-	-	-
Distillate Fuel Oil²	53,806	33,067	48,266	3,487	12,442	151,068
Refinery	2,585	6,554	15,439	1,613	5,397	31,588
Bulk Terminal	44,001	19,204	21,560	1,258	6,216	92,239
Pipeline	7,220	7,309	11,267	616	829	27,241
15 ppm sulfur and Under	45,061	32,117	42,876	3,194	11,277	134,525
Refinery	1,798	6,006	13,151	1,339	4,384	26,678
Bulk Terminal	37,076	19,107	19,487	1,241	6,100	83,011
Pipeline	6,187	7,004	10,238	614	793	24,836
Greater than 15 ppm to 500 ppm sulfur	4,535	479	1,646	199	262	7,121
Refinery	192	86	812	180	247	1,517
Bulk Terminal	4,287	88	545	17	15	4,952
Pipeline	56	305	289	2	-	652
Greater than 500 ppm sulfur	4,210	471	3,744	94	903	9,422
Refinery	595	462	1,476	94	766	3,393
Bulk Terminal	2,638	9	1,528	-	101	4,276
Pipeline	977	-	740	-	36	1,753
Residual Fuel Oil⁵	7,970	1,207	19,650	240	4,540	33,607
Refinery	461	985	3,594	240	2,574	7,854
Bulk Terminal	7,509	222	16,056	-	1,960	25,747
Pipeline	-	-	-	-	6	6
Less than 0.31% Sulfur	1,901	76	1,553	32	155	3,717
Refinery	56	76	127	32	-	291
Bulk Terminal	1,845	-	1,426	-	155	3,426
0.31% to 1.00% Sulfur	1,314	207	3,999	25	524	6,069
Refinery	79	91	250	25	314	759
Bulk Terminal	1,235	116	3,749	-	210	5,310
Greater than 1.00% Percent Sulfur	4,755	924	14,098	183	3,855	23,815
Refinery	326	818	3,217	183	2,260	6,804
Bulk Terminal	4,429	106	10,881	-	1,595	17,011
Petrochemical Feedstocks	121	631	2,393	-	5	3,150
Refinery	121	631	2,393	-	5	3,150
Naphtha for Petrochemical Feedstock Use	-	466	1,468	-	5	2,060
Other Oils for Petrochemical Feedstock Use	-	165	925	-	-	1,090
Special Naphthas	19	136	863	-	43	1,061
Refinery	14	70	852	-	43	979
Bulk Terminal	5	66	11	-	-	82
Lubricants	1,034	690	6,903	-	832	9,459
Refinery	559	277	4,499	-	611	5,946
Bulk Terminal	475	413	2,404	-	221	3,513
Waxes	443	64	270	-	-	777
Refinery	443	64	270	-	-	777
Petroleum Coke	-	936	5,277	75	1,529	7,817
Refinery	-	936	5,277	75	1,529	7,817
Asphalt and Road Oil	7,219	12,327	5,493	1,625	1,773	28,437
Refinery	509	5,045	2,469	674	570	9,267
Bulk Terminal	6,710	7,282	3,024	951	1,203	19,170

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

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	34	1,565	1,599	14,160	33,947	48,107	1,505
Connecticut	—	—	—	1,185	48	1,233	247
Delaware	—	—	—	532	587	1,119	134
District of Columbia	—	—	—	—	—	—	—
Florida	—	673	673	—	7,269	7,269	—
Georgia	—	302	302	—	2,510	2,510	—
Maine	—	—	—	295	366	661	74
Maryland	—	—	—	1,068	115	1,183	51
Massachusetts	5	—	5	1,688	—	1,688	14
New Hampshire	—	—	—	—	—	—	6
New Jersey	—	22	22	5,205	11,383	16,588	85
New York	29	—	29	632	1,866	2,498	432
North Carolina	—	149	149	—	2,174	2,174	261
Pennsylvania	—	22	22	1,344	4,746	6,090	122
Rhode Island	—	—	—	695	—	695	—
South Carolina	—	185	185	—	1,322	1,322	28
Vermont	—	44	44	—	—	—	3
Virginia	—	128	128	1,516	1,434	2,950	48
West Virginia	—	40	40	—	127	127	—
PAD District 2	—	4,244	4,244	5,025	31,998	37,023	103
Illinois	—	515	515	2,572	4,637	7,209	82
Indiana	—	231	231	1,055	4,349	5,404	—
Iowa	—	140	140	—	1,805	1,805	—
Kansas	—	345	345	—	3,482	3,482	11
Kentucky	—	247	247	413	1,215	1,628	6
Michigan	—	189	189	37	2,773	2,810	—
Minnesota	—	529	529	14	1,957	1,971	—
Missouri	—	205	205	282	667	949	—
Nebraska	—	85	85	—	617	617	—
North Dakota	—	50	50	—	725	725	—
Ohio	—	899	899	49	3,582	3,631	—
Oklahoma	—	446	446	—	2,700	2,700	4
South Dakota	—	75	75	—	441	441	—
Tennessee	—	150	150	—	1,562	1,562	—
Wisconsin	—	138	138	603	1,486	2,089	—
PAD District 3	—	7,146	7,146	6,930	48,099	55,029	86
Alabama	—	156	156	—	1,092	1,092	6
Arkansas	—	194	194	—	1,016	1,016	—
Louisiana	—	1,387	1,387	451	11,364	11,815	39
Mississippi	—	1,486	1,486	6	1,686	1,692	—
New Mexico	—	76	76	—	624	624	—
Texas	—	3,847	3,847	6,473	32,317	38,790	41
PAD District 4	—	1,213	1,213	—	4,399	4,399	1
Colorado	—	203	203	—	1,317	1,317	—
Idaho	—	213	213	—	153	153	—
Montana	—	379	379	—	1,096	1,096	—
Utah	—	99	99	—	1,163	1,163	1
Wyoming	—	319	319	—	670	670	—
PAD District 5	19	1,918	1,937	10,775	11,502	22,277	9
Alaska	—	807	807	—	—	—	6
Arizona	—	78	78	597	362	959	—
California	19	391	410	10,077	5,802	15,879	3
Hawaii	—	1	1	—	752	752	—
Nevada	—	170	170	14	272	286	—
Oregon	—	62	62	—	1,264	1,264	—
Washington	—	409	409	87	3,050	3,137	—
U.S. Total	53	16,086	16,139	36,890	129,945	166,835	1,704

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, July 2017
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	38,874	4,479	3,233	46,586	7,970	4,485
Connecticut	2,069	1,757	207	4,033	50	—
Delaware	441	70	109	620	695	30
District of Columbia	—	—	—	—	—	—
Florida	2,376	89	—	2,465	1,337	21
Georgia	1,671	—	—	1,671	420	11
Maine	704	21	429	1,154	108	—
Maryland	4,021	253	—	4,274	547	4
Massachusetts	933	780	140	1,853	141	—
New Hampshire	315	—	126	441	33	496
New Jersey	12,433	355	858	13,646	2,495	58
New York	5,572	125	412	6,109	977	1,315
North Carolina	1,312	—	12	1,324	—	247
Pennsylvania	3,654	158	593	4,405	480	1,639
Rhode Island	584	617	—	1,201	—	—
South Carolina	886	—	16	902	234	574
Vermont	22	—	5	27	—	—
Virginia	1,760	226	326	2,312	453	5
West Virginia	121	28	—	149	—	85
PAD District 2	25,113	174	471	25,758	1,207	18,219
Illinois	3,386	—	—	3,386	443	931
Indiana	3,655	—	188	3,843	83	261
Iowa	2,406	1	—	2,407	2	378
Kansas	2,135	—	—	2,135	28	10,398
Kentucky	802	—	2	804	211	278
Michigan	1,902	20	—	1,922	80	4,670
Minnesota	1,812	6	24	1,842	64	257
Missouri	816	61	4	881	17	129
Nebraska	912	—	—	912	—	151
North Dakota	1,048	1	—	1,049	33	58
Ohio	2,209	—	105	2,314	114	620
Oklahoma	1,541	54	98	1,693	31	36
South Dakota	599	—	—	599	—	15
Tennessee	925	—	—	925	66	2
Wisconsin	965	31	50	1,046	35	35
PAD District 3	32,638	1,357	3,004	36,999	19,650	29,385
Alabama	1,154	7	10	1,171	486	29
Arkansas	788	—	23	811	—	64
Louisiana	5,250	1,004	1,134	7,388	8,954	915
Mississippi	1,799	175	173	2,147	83	3,397
New Mexico	320	—	—	320	55	2
Texas	23,327	171	1,664	25,162	10,072	24,978
PAD District 4	2,580	197	94	2,871	240	587
Colorado	606	—	—	606	25	20
Idaho	201	—	—	201	—	—
Montana	819	101	—	920	88	26
Utah	493	65	94	652	55	497
Wyoming	461	31	—	492	72	44
PAD District 5	10,484	262	867	11,613	4,534	1,679
Alaska	1,247	—	69	1,316	394	4
Arizona	585	—	—	585	—	967
California	5,592	247	343	6,182	2,418	380
Hawaii	338	—	449	787	801	77
Nevada	337	—	6	343	—	—
Oregon	671	—	—	671	7	—
Washington	1,714	15	—	1,729	914	251
U.S. Total	109,689	6,469	7,669	123,827	33,601	54,355

— = 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, July 2017
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	234	326	0	1,229	44,645	6,594	4,068	1,044	32,365
Petroleum Products	14,987	409	0	16,082	32,781	7,820	4,958	101,811	21,294
Natural Gas Liquids	5,089	382	0	1,815	22,135	3,975	300	900	7,650
Ethane	4,680	0	-	45	9,622	749	-	0	543
Propane	195	289	0	1,373	7,956	1,818	181	898	743
Normal Butane	136	87	0	195	2,289	751	80	1	239
Isobutane	67	6	0	202	697	277	39	1	445
Natural Gasoline	11	0	-	0	1,571	380	-	0	5,680
Refinery Olefins	0	0	-	302	329	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	302	329	-	-	0	0
Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	26	0	-	0	578	-	-	0	396
Motor Gasoline Blending Components	6,953	0	0	1,219	1,370	1,443	0	54,381	7,653
Reformulated - RBOB	0	0	0	286	91	-	0	9,895	3,295
Conventional	6,953	0	0	933	1,279	1,443	0	44,486	4,358
CBOB	6,953	0	0	933	1,178	1,443	0	44,284	3,578
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	101	-	-	202	780
Renewable Fuels	0	0	0	10,293	5,769	500	4,504	529	0
Fuel Ethanol	0	0	0	10,247	5,633	432	4,341	529	0
Renewable Diesel Fuel	0	0	0	45	136	68	163	0	0
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	131	0	0	153	138	171	0	5,016	897
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	131	0	0	153	138	171	0	5,016	897
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	131	0	0	153	138	171	0	5,016	897
Finished Aviation Gasoline	0	0	-	0	0	-	-	1,857	69
Kerosene-Type Jet Fuel	234	0	0	112	44	788	0	14,608	1,382
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,527	0	0	844	909	904	0	23,588	2,437
15 ppm sulfur and under	2,527	0	0	844	909	904	0	22,027	2,332
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-	-	253	105
Greater than 500 ppm sulfur	-	0	-	0	0	-	-	1,308	-
Residual Fuel Oil	0	0	-	-	759	-	-	-	37
Petrochemical Feedstocks	27	0	-	0	206	-	-	0	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	136	-	-	-	0
Other Oils for Petrochemical Feedstock Use	27	0	-	0	70	-	-	0	0
Special Naphthas	0	0	-	-	0	-	-	-	35
Lubricants	0	0	-	7	0	-	-	496	295
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	27	0	639	365	0	54	102	26
Asphalt and Road Oil	0	0	0	699	179	40	100	333	394
Miscellaneous Products	0	0	-	-	0	-	-	-	23
Total	15,221	735	0	17,312	77,426	14,414	9,027	102,855	53,659

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, July 2017
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	18	0	18,358	908	74	0	0	0
Petroleum Products	0	6,180	0	8,421	7,735	1,982	0	25	0
Natural Gas Liquids	0	62	0	7,241	7,458	174	0	0	0
Ethane	0	—	0	1,562	2,373	—	0	0	0
Propane	0	0	0	3,040	2,604	97	0	0	0
Normal Butane	0	38	0	1,235	920	64	0	0	0
Isobutane	0	24	0	549	534	13	0	0	0
Natural Gasoline	0	—	0	855	1,027	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components	0	4,007	0	205	0	998	0	0	0
Reformulated - RBOB	—	2,571	0	0	0	0	0	0	—
Conventional	0	1,436	0	205	0	998	0	0	0
CBOB	0	1,436	0	205	0	998	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	0	651	0	0	0	55	0	25	0
Fuel Ethanol	0	522	0	0	0	55	0	0	0
Renewable Diesel Fuel	0	129	0	0	0	0	0	25	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	297	0	265	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	297	0	265	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	297	0	265	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	296	0	28	0	28	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	1,041	0	468	0	244	0	0	0
15 ppm sulfur and under	0	1,041	0	468	0	244	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	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	0	0	0	—	0	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	104	58	0	0	0	0
Asphalt and Road Oil	0	123	0	78	219	219	0	0	0
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	6,197	0	26,779	8,642	2,056	0	25	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.

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, July 2017
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil¹	28	74	159	44,272	6,594	152	32,290	0	-
Petroleum Products²	14,563	0	2,107	22,579	7,281	79,475	18,951	0	5,344
Natural Gas Liquids	4,753	0	789	20,227	3,975	770	7,535	0	-
Ethane	4,680	0	45	9,622	749	0	543	0	-
Propane	44	0	744	6,556	1,818	770	700	0	-
Normal Butane	5	0	0	1,820	751	0	236	0	-
Isobutane	13	0	0	658	277	0	376	0	-
Natural Gasoline	11	0	0	1,571	380	0	5,680	0	-
Motor Gasoline Blending Components	6,953	0	581	1,269	1,443	43,750	7,203	0	4,007
Reformulated - RBOB	0	0	0	91	-	9,895	3,295	-	2,571
Conventional	6,953	0	581	1,178	1,443	33,855	3,908	0	1,436
CBOB	6,953	0	581	1,178	1,443	33,855	3,578	0	1,436
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	330	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	131	0	127	130	171	1,481	541	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	131	0	127	130	171	1,481	541	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	131	0	127	130	171	1,481	541	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	234	0	112	44	788	13,001	1,382	0	296
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,492	0	498	909	904	20,473	2,290	0	1,041
15 ppm sulfur and under	2,492	0	498	909	904	18,912	2,185	0	1,041
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	253	105	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,308	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	14,591	74	2,266	66,851	13,875	79,627	51,241	0	5,344

See footnotes at end of table.

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

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil¹	0	18,358	324	-	0	0
Petroleum Products²	0	8,239	7,458	1,535	0	0
Natural Gas Liquids	0	7,241	7,458	-	0	0
Ethane	0	1,562	2,373	-	0	0
Propane	0	3,040	2,604	-	0	0
Normal Butane	0	1,235	920	-	0	0
Isobutane	0	549	534	-	0	0
Natural Gasoline	0	855	1,027	-	0	0
Motor Gasoline Blending Components	0	205	0	998	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	205	0	998	0	0
CBOB	0	205	0	998	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	297	0	265	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	297	0	265	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	297	0	265	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	28	0	28	0	0
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	0	468	0	244	0	0
15 ppm sulfur and under	0	468	0	244	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	26,597	7,782	1,535	0	0

- = No Data Reported.

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

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil¹	206	252	—	331	373	—
Petroleum Products²	88	0	0	1,120	2,159	0
Natural Gas Liquids	—	0	—	0	0	—
Ethane	—	—	—	—	—	—
Propane	—	0	—	0	0	—
Normal Butane	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—
Unfinished Oils	26	0	—	0	578	—
Motor Gasoline Blending Components	0	0	—	638	101	—
Reformulated - RBOB	0	—	—	286	—	—
Conventional	0	0	—	352	101	—
CBOB	0	0	—	352	0	—
GTAB	—	—	—	—	—	—
Other	0	0	—	0	101	—
Renewable Fuels	0	0	0	0	507	0
Fuel Ethanol	0	0	—	0	507	—
Renewable Diesel Fuel	—	0	0	—	0	0
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	0	—	26	8	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	0	—	26	8	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	0	—	26	8	—
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	—	0	—	0	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	35	0	—	346	0	—
15 ppm sulfur and under	35	0	—	346	0	—
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—
Residual Fuel Oil	0	0	—	—	759	—
Less than 0.31 percent sulfur	0	0	—	—	93	—
0.31 to 1.00 percent sulfur	—	—	—	—	—	—
Greater than 1.00 percent sulfur	0	0	—	—	666	—
Petrochemical Feedstocks	27	0	—	0	206	—
Naphtha for Petrochemical Feedstock Use	0	0	—	—	136	—
Other Oils for Petrochemical Feedstock Use	27	0	—	0	70	—
Special Naphthas	0	0	—	—	0	—
Lubricants	0	0	—	7	0	—
Waxes	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	103	0	—
Miscellaneous Products	0	0	—	—	0	—
Total	294	252	0	1,451	2,532	0

See footnotes at end of table.

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

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil ¹	892	—	892	—	75	—	0	0	0
Petroleum Products²	21,980	10	415	21,555	2,100	129	0	0	0
Natural Gas Liquids	28	—	—	28	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	28	—	—	28	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	—	—	396	—	0	0	0
Motor Gasoline Blending Components	10,631	—	202	10,429	450	—	0	0	0
Reformulated - RBOB	0	—	—	—	0	—	0	0	—
Conventional	10,631	—	202	10,429	450	—	0	0	0
CBOB	10,429	—	—	10,429	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	202	—	202	—	450	—	0	0	0
Renewable Fuels	529	—	—	529	0	129	0	0	0
Fuel Ethanol	529	—	—	529	0	—	0	0	0
Renewable Diesel Fuel	—	—	—	—	—	129	—	—	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	3,535	—	—	3,535	356	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	3,535	—	—	3,535	356	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	3,535	—	—	3,535	356	—	0	0	0
Finished Aviation Gasoline	1,857	10	24	1,823	69	—	0	0	0
Kerosene-Type Jet Fuel	1,607	—	—	1,607	—	—	0	—	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,115	—	—	3,115	147	—	0	0	0
15 ppm sulfur and under	3,115	—	—	3,115	147	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Residual Fuel Oil	—	—	—	—	37	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur	—	—	—	—	—	—	—	—	—
Greater than 1.00 percent sulfur	—	—	—	—	37	—	—	0	0
Petrochemical Feedstocks	0	—	—	—	0	—	0	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	0	—	—	—	0	—	0	0	0
Special Naphthas	—	—	—	—	35	—	—	0	0
Lubricants	496	—	189	307	295	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	182	—	—	182	292	—	0	0	0
Miscellaneous Products	—	—	—	—	23	—	—	0	0
Total	22,872	10	1,307	21,555	2,175	129	0	0	0

— = No Data Reported.

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

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

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	739	0	0	4,068
Propane	151	289	0	0	629	1,400	0	181
Propylene	0	0	-	-	302	329	-	-
Normal Butane	131	87	0	0	195	469	0	80
Isobutane	54	6	0	0	202	39	0	39
Fuel Ethanol	0	0	0	0	10,247	5,126	432	4,341
Biodiesel	0	0	0	0	45	136	68	163
Marketable Petroleum Coke	0	27	0	0	639	365	0	54
Asphalt and Road Oil	0	0	0	0	596	179	40	100

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	18	0	0	584	74
Propane	100	43	0	0	0	0	0	97
Propylene	0	0	-	-	0	0	0	-
Normal Butane	1	3	0	38	0	0	0	64
Isobutane	1	69	0	24	0	0	0	13
Fuel Ethanol	0	0	0	522	0	0	0	55
Biodiesel	0	0	0	0	0	0	0	0
Marketable Petroleum Coke	102	26	0	0	0	104	58	0
Asphalt and Road Oil	151	102	0	123	0	78	219	219

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	-
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	25	0
Marketable Petroleum Coke	0	25	0	0
Asphalt and Road Oil	0	20	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, July 2017
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	28	206	0	234
3	74	252	0	326
4	0	-	0	0
5	-	-	0	0
From 2 to				
1	159	331	739	1,229
3	44,272	373	0	44,645
4	6,594	-	0	6,594
5	-	-	4,068	4,068
From 3 to				
1	152	892	0	1,044
2	32,290	75	0	32,365
4	0	-	0	0
5	-	-	18	18
From 4 to				
1	0	0	0	0
2	18,358	0	0	18,358
3	324	0	584	908
5	-	-	74	74
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, July 2017
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	2,273	560	1,713	50,957	56,537	-5,580	45,879	33,427	12,452
Petroleum Products	117,893	15,396	102,497	44,747	61,642	-16,895	40,950	129,284	-88,334
Natural Gas Liquids	2,715	5,471	-2,756	19,980	28,225	-8,245	29,975	8,612	21,363
Ethane	45	4,680	-4,635	6,785	10,416	-3,631	11,995	543	11,452
Propane	2,271	484	1,787	3,978	11,328	-7,350	10,849	1,641	9,208
Normal Butane	196	223	-27	1,610	3,315	-1,705	3,296	278	3,018
Isobutane	203	73	130	1,061	1,215	-154	1,237	470	767
Natural Gasoline	0	11	-11	6,546	1,951	4,595	2,598	5,680	-3,082
Refinery Olefins	302	0	302	0	631	-631	329	0	329
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	302	0	302	0	631	-631	329	0	329
Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	26	-26	422	578	-156	578	396	182
Motor Gasoline Blending Components	55,600	6,953	48,647	14,811	4,032	10,779	1,370	66,041	-64,671
Reformulated - RBOB	10,181	0	10,181	3,295	377	2,918	91	15,761	-15,670
Conventional	45,419	6,953	38,466	11,516	3,655	7,861	1,279	50,280	-49,001
CBOB	45,217	6,953	38,264	10,736	3,554	7,182	1,178	49,298	-48,120
GTAB	0	0	-	-	-	-	-	-	-
Other	202	0	202	780	101	679	101	982	-881
Renewable Fuels	10,822	0	10,822	0	21,066	-21,066	5,794	1,180	4,614
Fuel Ethanol	10,776	0	10,776	0	20,654	-20,654	5,633	1,051	4,582
Renewable Diesel Fuel	45	0	45	0	412	-412	161	129	32
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	5,169	131	5,038	1,325	462	863	138	5,913	-5,775
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	5,169	131	5,038	1,325	462	863	138	5,913	-5,775
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	5,169	131	5,038	1,325	462	863	138	5,913	-5,775
Finished Aviation Gasoline	1,857	0	1,857	69	0	69	0	1,926	-1,926
Kerosene-Type Jet Fuel	14,720	234	14,486	1,644	944	700	44	16,286	-16,242
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	24,432	2,527	21,905	5,432	2,657	2,775	909	27,066	-26,157
15 ppm sulfur and under	22,871	2,527	20,344	5,327	2,657	2,670	909	25,400	-24,491
Greater than 15 ppm to 500 ppm sulfur	253	0	253	105	0	105	0	358	-358
Greater than 500 ppm sulfur	1,308	0	1,308	0	0	-	0	1,308	-1,308
Residual Fuel Oil	0	0	-	37	759	-722	759	37	722
Petrochemical Feedstocks	0	27	-27	27	206	-179	206	0	206
Naphtha for Petrochemical Feedstock Use	0	0	-	0	136	-136	136	0	136
Other Oils for Petrochemical Feedstock Use	0	27	-27	27	70	-43	70	0	70
Special Naphthas	0	0	-	35	0	35	0	35	-35
Lubricants	503	0	503	295	7	288	0	791	-791
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	742	27	714	155	1,058	-903	450	128	322
Asphalt and Road Oil	1,032	0	1,032	492	1,017	-525	398	850	-452
Miscellaneous Products	0	0	-	23	0	23	0	23	-23
Total	120,166	15,956	104,210	95,704	118,179	-22,475	86,828	162,711	-75,882

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, July 2017
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,594	19,340	-12,746	4,160	0	4,160
Petroleum Products	7,820	18,138	-10,318	13,120	70	13,050
Natural Gas Liquids	3,975	14,873	-10,898	536	0	536
Ethane	749	3,935	-3,186	0	0	-
Propane	1,818	5,741	-3,923	278	0	278
Normal Butane	751	2,219	-1,468	182	0	182
Isobutane	277	1,096	-819	76	0	76
Natural Gasoline	380	1,882	-1,502	0	0	-
Refinery Olefins	0	0	-	0	0	-
Ethylene	-	-	-	-	-	-
Propylene	0	0	-	0	0	-
Butylene	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-
Unfinished Oils	0	0	-	0	0	-
Motor Gasoline Blending Components	1,443	1,203	240	5,005	0	5,005
Reformulated - RBOB	-	-	-	2,571	0	2,571
Conventional	1,443	1,203	240	2,434	0	2,434
CBOB	1,443	1,203	240	2,434	0	2,434
GTAB	-	-	-	-	-	-
Other	0	0	-	0	0	-
Renewable Fuels	500	55	445	5,210	25	5,185
Fuel Ethanol	432	55	377	4,918	0	4,918
Renewable Diesel Fuel	68	0	68	292	25	267
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	171	562	-391	265	0	265
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	171	562	-391	265	0	265
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	171	562	-391	265	0	265
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	788	56	732	324	0	324
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	904	712	192	1,285	0	1,285
15 ppm sulfur and under	904	712	192	1,285	0	1,285
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-
Greater than 500 ppm sulfur	0	0	-	0	0	-
Residual Fuel Oil	0	0	-	0	0	-
Petrochemical Feedstocks	-	-	-	0	0	-
Naphtha for Petrochemical Feedstock Use	-	-	-	0	0	-
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-
Special Naphthas	-	-	-	0	0	-
Lubricants	0	0	-	0	0	-
Waxes	-	-	-	0	0	-
Marketable Petroleum Coke	0	162	-162	54	25	29
Asphalt and Road Oil	40	515	-475	441	20	421
Miscellaneous Products	0	0	-	0	0	-
Total	14,414	37,478	-23,063	17,280	70	17,210

- = No Data Reported.

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

Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Appendix A

District Descriptions and Maps

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

PAD District I

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

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

Sub-PAD District I

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

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

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

PAD District II

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

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

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

PAD District III

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

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

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

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

New Mexico: The State of New Mexico.

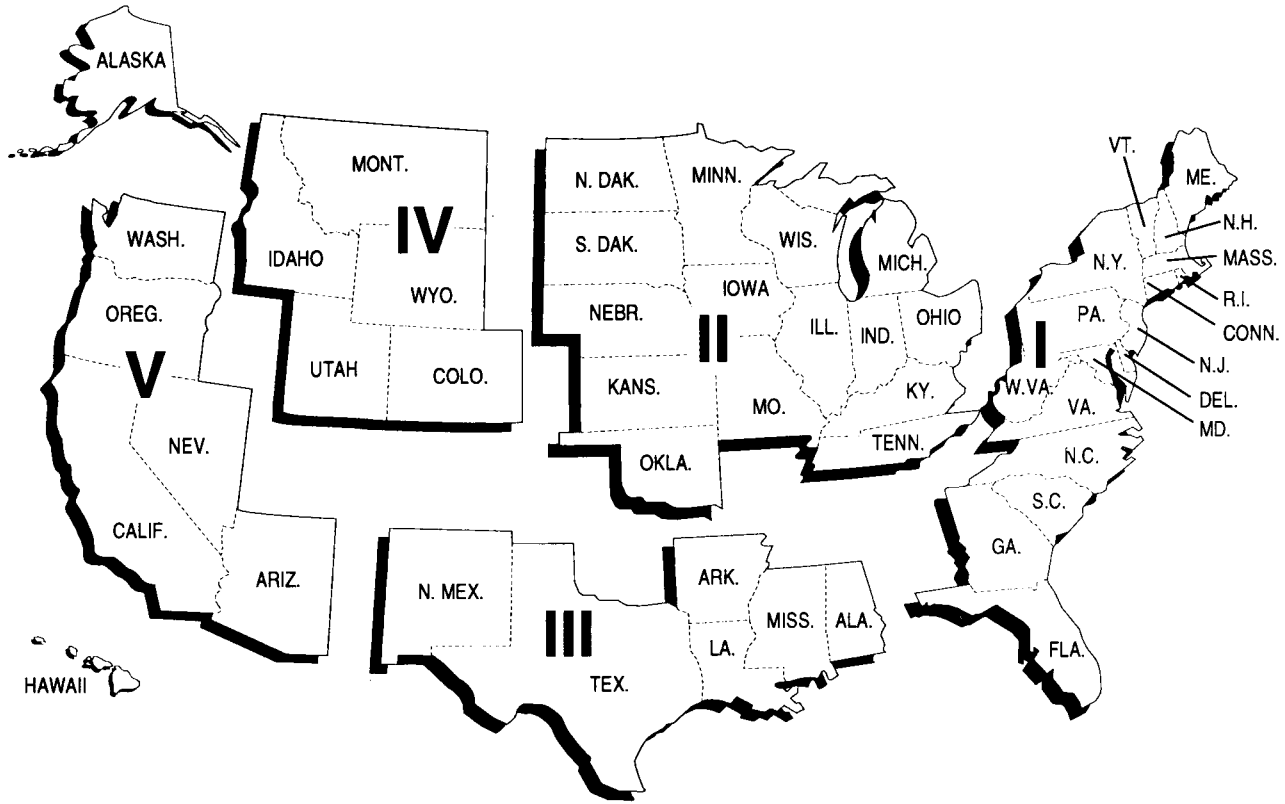
PAD District IV

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

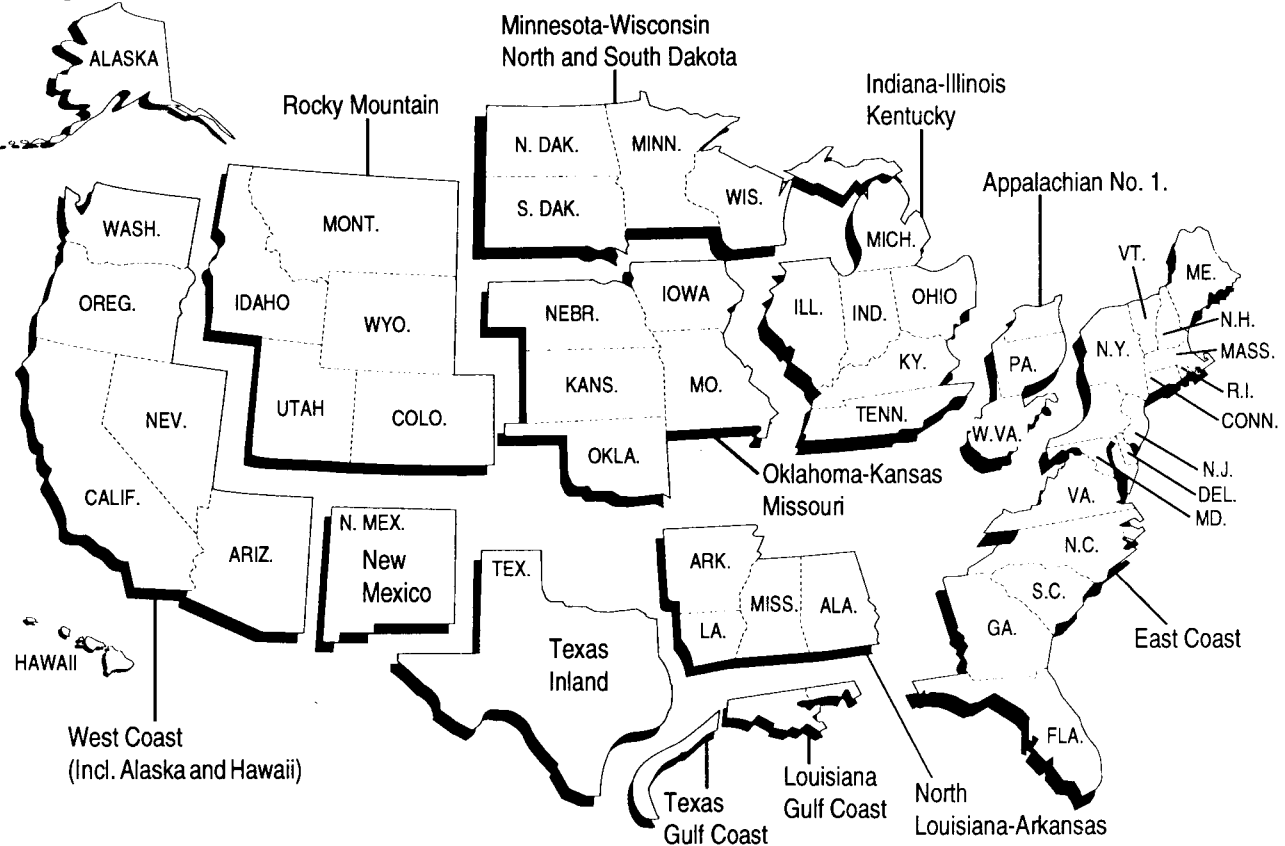
PAD District V

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

Petroleum Administration for Defense (PAD) Districts



Refining Districts



PSM Explanatory Notes

Preface

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

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

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

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

Appendix B. Explanatory Notes

1. Overview

A. The Energy Information Administration's Quality Guidelines

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

B. Concepts of Product Supply and Demand

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

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

Data users sometimes consider demand as sales to the ultimate consumer or as the actual consumption of the product. Since there may be time delays between the movement of product into the primary market and its ultimate purchase or consumption, these definitions of demand require data on changes in secondary and/or tertiary stocks or the assumption that these values either remain constant or are small

compared to primary supply. The most recent study of secondary stocks was done by the National Petroleum Council in 1989. This study revealed that secondary distillate stocks were equal to about 6.9 percent of distillate stocks and 6.7 percent of distillate storage capacity.

C. Components of Supply and Disposition

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

(1.) Supply

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

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

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

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

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

same month.

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

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

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

(2.) Disposition

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

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

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

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

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

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

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

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

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

(3.) Ending Stocks

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

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

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

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

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mdbl_m_cur.htm

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

http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mdbl_m.htm

2. Components - Forms Discussions

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

A. Petroleum Supply Reporting System

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

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

17. EIA-820, "Annual Refinery Report."

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

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

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

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

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

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

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

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

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

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

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

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

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

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

(2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities

currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of "Who Must Submit" participate in the survey.

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

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

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

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

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

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

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

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

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

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

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

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

(3.) Collection

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

(4.) Processing and Micro Editing

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

result in further review of respondent data which in turn may result in additional flagged data and imputation.

(5.) Estimation and Imputation

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

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

(6.) Macro Editing

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

(7.) Dissemination

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

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

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

C. Derived Data

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

(1.) Domestic Crude Oil Production

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

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

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

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

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

Navigator and the Petroleum Supply Monthly roughly 60 days after the production month.

(2.) Exports

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

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

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

(3.) Movements of crude oil by railroad

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

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

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

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

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

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

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

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

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

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

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGPL injection into Alaskan crude oil transported in TAPS. Natural gas

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

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

(6.) Finished Motor Gasoline Adjustment

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

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

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

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

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

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated

to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PAD District. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PAD District, then the total adjustment quantity of finished conventional motor gasoline in that PAD District would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

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

(7.) Motor Gasoline Blending Components Adjustment

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

(8.) Renewable Fuels including Fuel Ethanol Adjustment

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

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

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

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

- Beginning with PSM data for January 2012, production of biodiesel reported on Form EIA-22M was included under the heading of “renewable fuels and oxygenate plant net production” in petroleum

supply and disposition balances for “renewable fuels except fuel ethanol”. As a result, the adjustment for “renewable fuels except fuel ethanol” no longer includes production of biodiesel. This change will also be made to revised monthly data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

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

(9.) Distillate Fuel Oil Adjustment

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

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

(10.) Crude Oil Adjustment

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

(11.) Other Hydrocarbon Adjustment

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

(12.) Hydrogen Adjustment

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

(13.) Oxygenates (excluding fuel ethanol) Adjustment

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

3. Quality

A. General Discussion

(1.) Response Rates

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

(2.) Non-sampling Errors

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

(3.) Resubmissions

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

(4.) Revision Policy

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

B. Data Assessment

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

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

4. Provisions Regarding Disclosure of Information

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

The information reported on Forms EIA-810 through 813, 815 through 817, 819, and 820 will be protected and not disclosed to the

public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the Department of Energy (DOE) regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

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

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

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

Appendix D

Northeast Reserves

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

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

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

Source: U. S. Energy Information Administration

Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
BP Products North America	Carteret, NJ	200
Buckeye Terminals LLC	Port Reading, NJ	0
Buckeye Terminals LLC	Raritan Bay, NJ	500
Global Companies LLC	Revere, MA	200
South Portland Terminal LLC	South Portland, ME	99

Source: U. S. Energy Information Administration

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

State of New York's Strategic Fuels Reserve Program

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

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	58
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised May 2010)

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$ (e.g., methanol, ethanol, and tertiary butyl alcohol).

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

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

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

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

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

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

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

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

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

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

Aviation Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating

engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

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

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

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

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

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

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

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

feedstocks.

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

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

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

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

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

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

Butane (C₄H₁₀). A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Normal Butane (C₄H₁₀). A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.

Refinery-Grade Butane (C₄H₁₀). A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

Butylene (C₄H₈). An olefinic hydrocarbon recovered from refinery processes.

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

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

Fresh Feeds. Crude oil or petroleum distillates which are being fed to processing units for the first time.

Recycled Feeds. Feeds that are continuously fed back for additional processing.

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

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

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

Low Pressure. A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Desulfurization. The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such

as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See **Catalytic Hydrotreating.**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ETBE (Ethyl tertiary butyl ether) (CH₃)₃COC₂H₅. An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

Ethane (C₂H₆). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

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

Ethylene (C₂H₄). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

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

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

Flexicoking. A thermal cracking process which converts heavy

hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

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

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

Examples:

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

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

Fuel Ethanol (C₂H₅OH). An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

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

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

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

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

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

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

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

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

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

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

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

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

Isobutane (C₄H₁₀). A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

Isobutylene (C₄H₈). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C₆H₁₄). A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane (C₄), an alkylation process feedstock, and normal pentane and hexane into isopentane (C₅) and isohexane (C₆), high-octane gasoline components.

Isopentane. See *Natural Gasoline and Isopentane*.

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

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

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

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

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

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

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

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

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

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

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

Methanol (CH₃OH). A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

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

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

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

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

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

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

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

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

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

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

Reformulated Gasoline. Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline

may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

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

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

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

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

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

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

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

motor gasoline blending components when reported as a subset of motor gasoline blending components.

Reformulated Blendstock for Oxygenate Blending (RBOB).

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

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

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

All Other Motor Gasoline Blending Components.

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

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

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

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

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

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

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

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

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

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

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

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

Normal Butane. See *Butane*.

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

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

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

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

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

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

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

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

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

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

Fuel Ethanol. Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the “gasohol waiver”).

Methanol. Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the “ARCO” waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the “DuPont” waiver).

MTBE (Methyl tertiary butyl ether). Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that

the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the “Sun” waiver).

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

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

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

Naphtha Less Than 401° F. A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

Other Oils Equal To or Greater Than 401° F. Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

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

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

Catalyst Coke. In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This “green” coke may be sold as is or further purified by calcining.

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

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

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

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

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

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

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

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

Propane (C₃H₈). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

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

Propylene (C₃H₆) (nonfuel use). Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

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

Refinery-Grade Butane. See *Butane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

to a PAD District.

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

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

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

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

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

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

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

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

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

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

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

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

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

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