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Administration

Petroleum Supply Monthly

with data for August 2018

October 2018



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Preface

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

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

Scope of data

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

Sections

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

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2018
(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	351,711	--	--	248,002	-1,980	-2,473	545,978	54,228	0	1,066,865
Hydrocarbon Gas Liquids	141,670	-689	27,295	4,937	--	17,150	15,629	50,877	89,557	213,182
Natural Gas Liquids	141,670	-689	17,903	4,105	--	16,300	15,629	50,877	80,183	207,061
Ethane	54,916	--	289	--	--	-792	--	8,921	47,076	45,270
Propane	44,973	--	9,616	3,070	--	6,476	--	31,454	19,729	66,523
Normal Butane	11,706	--	8,036	658	--	10,200	2,292	5,477	2,431	65,596
Isobutane	12,665	--	-38	372	--	16	7,120	239	5,624	9,596
Natural Gasoline	17,410	-689	--	5	--	400	6,217	4,786	5,323	20,076
Refinery Olefins	--	--	9,392	832	--	850	--	--	9,374	6,121
Ethylene	--	--	6	--	--	0	--	--	6	0
Propylene	--	--	9,095	667	--	-32	--	--	9,794	3,675
Butylene	--	--	304	165	--	864	--	--	-395	2,364
Isobutylene	--	--	-13	--	--	18	--	--	-31	82
Other Liquids	--	40,419	--	46,933	1,119	3,146	71,923	14,086	-684	331,360
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	40,423	--	1,300	2,358	-7	38,692	5,396	0	28,898
Hydrogen	--	--	--	--	7,116	--	7,116	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,622	--	289	-692	29	--	2,190	0	1,446
Renewable Fuels (including Fuel Ethanol) ...	--	37,801	--	1,009	-4,106	-37	31,535	3,206	0	27,434
Fuel Ethanol ⁵	--	33,773	--	304	-1,386	31	29,718	2,942	0	22,833
Renewable Fuels Except Fuel Ethanol	--	4,028	--	705	-2,720	-68	1,817	263	0	4,601
Other Hydrocarbons	--	--	--	2	40	1	41	--	0	18
Unfinished Oils	--	--	--	20,363	--	-20	14,266	6,757	-640	89,632
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	25,270	-1,239	3,166	18,928	1,933	0	212,784
Reformulated	--	--	--	7,651	-98	-4,624	12,167	10	0	47,484
Conventional	--	-4	--	17,619	-1,141	7,790	6,761	1,923	0	165,300
Aviation Gasoline Blend. Comp.	--	--	--	--	--	7	37	--	-44	46
Finished Petroleum Products	--	166	643,153	23,510	5,215	1,404	--	99,142	571,498	280,104
Finished Motor Gasoline	--	166	317,521	2,548	2,624	-996	--	21,678	302,177	23,299
Reformulated	--	--	103,842	--	180	-5	--	--	104,027	44
Conventional	--	166	213,679	2,548	2,444	-991	--	21,678	198,150	23,255
Finished Aviation Gasoline	--	--	373	5	--	-57	--	--	435	889
Kerosene-Type Jet Fuel	--	--	60,596	4,700	--	831	--	6,917	57,548	41,785
Kerosene	--	--	388	--	--	372	--	--	16	1,848
Distillate Fuel Oil ⁵	--	--	166,430	5,430	2,590	4,956	--	40,133	129,362	132,037
15 ppm sulfur and under	--	--	158,120	4,873	2,590	4,306	--	35,281	125,996	119,110
Greater than 15 ppm to 500 ppm sulfur	--	--	2,829	37	--	179	--	1,887	800	4,363
Greater than 500 ppm sulfur	--	--	5,481	520	--	471	--	2,965	2,565	8,564
Residual Fuel Oil ⁶	--	--	12,131	7,357	--	-1,522	--	11,338	9,672	27,812
Less than 0.31 percent sulfur	--	--	2,133	1,220	--	-64	--	NA	NA	1,869
0.31 to 1.00 percent sulfur	--	--	2,029	240	--	-958	--	NA	NA	4,293
Greater than 1.00 percent sulfur	--	--	7,969	5,897	--	-500	--	NA	NA	21,642
Petrochemical Feedstocks	--	--	11,279	446	--	5	--	--	11,720	3,359
Naphtha for Petro. Feed. Use	--	--	7,246	376	--	-5	--	--	7,627	2,273
Other Oils for Petro. Feed. Use	--	--	4,033	70	--	10	--	--	4,093	1,086
Special Naphthas	--	--	1,014	258	--	54	--	--	1,218	1,087
Lubricants	--	--	5,675	968	--	-150	--	3,086	3,707	12,060
Waxes	--	--	159	106	--	39	--	145	81	662
Petroleum Coke	--	--	29,609	74	--	718	--	15,060	13,905	9,346
Marketable	--	--	22,211	74	--	718	--	15,060	6,507	9,346
Catalyst	--	--	7,398	--	--	--	--	--	7,398	--
Asphalt and Road Oil	--	--	12,006	1,617	--	-2,873	--	759	15,737	25,305
Still Gas	--	--	22,849	--	--	--	--	--	22,849	--
Miscellaneous Products	--	--	3,123	1	--	27	--	26	3,071	615
Total	493,381	39,896	670,448	323,382	4,354	19,227	633,530	218,332	660,371	1,891,511

-- = Not Applicable.

NA = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

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

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

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2018
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	2,570,422	--	--	1,932,194	40,890	-17,091	4,120,882	439,715	0	1,066,865
Hydrocarbon Gas Liquids	1,030,535	-5,114	174,237	45,011	--	22,278	126,506	387,226	708,659	213,182
Natural Gas Liquids	1,030,535	-5,114	103,602	38,918	--	22,237	126,506	387,226	631,972	207,061
Ethane	405,285	--	1,519	--	--	-10,349	--	61,440	355,713	45,270
Propane	329,184	--	74,291	32,283	--	4,176	--	233,374	198,208	66,523
Normal Butane	82,492	--	30,813	4,013	--	27,275	32,839	43,722	13,482	65,596
Isobutane	94,168	--	-3,021	2,588	--	1,203	53,369	1,331	37,832	9,596
Natural Gasoline	119,406	-5,114	--	34	--	-68	40,298	47,359	26,737	20,076
Refinery Olefins	--	--	70,635	6,093	--	41	--	--	76,687	6,121
Ethylene	--	--	30	--	--	0	--	--	30	0
Propylene	--	--	69,806	4,656	--	-1,167	--	--	75,629	3,675
Butylene	--	--	838	1,437	--	1,156	--	--	1,119	2,364
Isobutylene	--	--	-39	--	--	52	--	--	-91	82
Other Liquids	--	303,695	--	333,134	-364	2,905	504,979	123,255	5,326	331,360
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	303,727	--	8,053	25,940	-1,174	292,624	46,270	0	28,898
Hydrogen	--	--	--	--	53,940	--	53,940	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	19,671	--	2,450	-5,415	0	--	16,706	0	1,446
Renewable Fuels (including Fuel Ethanol)	--	284,056	--	5,529	-22,748	-1,145	238,418	29,564	0	27,434
Fuel Ethanol ⁵	--	256,103	--	304	-4,657	-215	224,258	27,707	0	22,833
Renewable Fuels Except Fuel Ethanol	--	27,953	--	5,225	-18,091	-930	14,160	1,857	0	4,601
Other Hydrocarbons	--	--	--	74	163	-29	266	--	0	18
Unfinished Oils	--	--	--	149,933	--	3,372	77,152	63,866	5,543	89,632
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-32	--	175,148	-26,304	676	135,017	13,119	0	212,784
Reformulated	--	--	--	47,216	28,467	-5,971	81,522	132	0	47,484
Conventional	--	-32	--	127,932	-54,770	6,647	53,495	12,988	0	165,300
Aviation Gasoline Blend. Comp.	--	--	--	--	--	31	186	--	-217	46
Finished Petroleum Products	--	1,249	4,853,350	168,878	49,144	-11,533	--	826,658	4,257,496	280,104
Finished Motor Gasoline	--	1,249	2,436,507	10,490	30,961	-1,342	--	203,238	2,277,311	23,299
Reformulated	--	--	791,903	--	-23,135	4	--	--	768,764	44
Conventional	--	1,249	1,644,604	10,490	54,095	-1,346	--	203,238	1,508,547	23,255
Finished Aviation Gasoline	--	--	2,839	54	--	-152	--	--	3,045	889
Kerosene-Type Jet Fuel	--	--	441,106	30,904	--	567	--	54,221	417,222	41,785
Kerosene	--	--	1,749	616	--	-290	--	1,035	1,620	1,848
Distillate Fuel Oil ⁵	--	--	1,239,948	40,905	18,183	-13,537	--	308,428	1,004,145	132,037
15 ppm sulfur and under	--	--	1,164,553	34,539	18,183	-8,781	--	260,229	965,828	119,110
Greater than 15 ppm to 500 ppm sulfur	--	--	21,681	906	--	-3,206	--	22,843	2,950	4,363
Greater than 500 ppm sulfur	--	--	53,714	5,460	--	-1,550	--	25,357	35,367	8,564
Residual Fuel Oil ⁶	--	--	102,584	53,303	--	-1,547	--	82,518	74,916	27,812
Less than 0.31 percent sulfur	--	--	14,311	6,618	--	-279	--	NA	NA	1,869
0.31 to 1.00 percent sulfur	--	--	16,007	3,556	--	-2,308	--	NA	NA	4,293
Greater than 1.00 percent sulfur	--	--	72,266	43,129	--	1,038	--	NA	NA	21,642
Petrochemical Feedstocks	--	--	75,850	4,849	--	458	--	--	80,241	3,359
Naphtha for Petro. Feed. Use	--	--	48,771	4,125	--	424	--	--	52,472	2,273
Other Oils for Petro. Feed. Use	--	--	27,079	724	--	34	--	--	27,769	1,086
Special Naphthas	--	--	8,829	3,612	--	-105	--	--	12,546	1,087
Lubricants	--	--	45,894	10,468	--	39	--	27,904	28,419	12,060
Waxes	--	--	1,137	1,119	--	-195	--	1,007	1,444	662
Petroleum Coke	--	--	220,071	3,047	--	827	--	142,948	79,343	9,346
Marketable	--	--	163,759	3,047	--	827	--	142,948	23,031	9,346
Catalyst	--	--	56,312	--	--	--	--	--	56,312	--
Asphalt and Road Oil	--	--	82,438	9,436	--	3,799	--	5,092	82,983	25,305
Still Gas	--	--	171,464	--	--	--	--	--	171,464	--
Miscellaneous Products	--	--	22,934	75	--	-55	--	267	22,797	615
Total	3,600,957	299,830	5,027,587	2,479,217	89,670	-3,441	4,752,367	1,776,854	4,971,480	1,891,511

-- = Not Applicable.

NA = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

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

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

Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2018
(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	11,346	--	--	8,000	-64	-80	17,612	1,749	0
Hydrocarbon Gas Liquids	4,570	-22	880	159	--	553	504	1,641	2,889
Natural Gas Liquids	4,570	-22	578	132	--	526	504	1,641	2,587
Ethane	1,771	--	9	--	--	-26	--	288	1,519
Propane	1,451	--	310	99	--	209	--	1,015	636
Normal Butane	378	--	259	21	--	329	74	177	78
Isobutane	409	--	-1	12	--	1	230	8	181
Natural Gasoline	562	-22	--	0	--	13	201	154	172
Refinery Olefins	--	--	303	27	--	27	--	--	302
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	293	22	--	-1	--	--	316
Butylene	--	--	10	5	--	28	--	--	-13
Isobutylene	--	--	0	--	--	1	--	--	-1
Other Liquids	--	1,304	--	1,514	36	101	2,320	454	-22
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,304	--	42	76	0	1,248	174	0
Hydrogen	--	--	--	--	230	--	230	--	0
Oxygenates (excluding Fuel Ethanol)	--	85	--	9	-22	1	--	71	0
Renewable Fuels (including Fuel Ethanol)	--	1,219	--	33	-132	-1	1,017	103	0
Fuel Ethanol ⁵	--	1,089	--	10	-45	1	959	95	0
Renewable Fuels Except Fuel Ethanol	--	130	--	23	-88	-2	59	8	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	657	--	-1	460	218	-21
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	815	-40	102	611	62	0
Reformulated	--	--	--	247	-3	-149	392	0	0
Conventional	--	0	--	568	-37	251	218	62	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	5	20,747	758	168	45	--	3,198	18,435
Finished Motor Gasoline	--	5	10,243	82	85	-32	--	699	9,748
Reformulated	--	--	3,350	--	6	0	--	--	3,356
Conventional	--	5	6,893	82	79	-32	--	699	6,392
Finished Aviation Gasoline	--	--	12	0	--	-2	--	--	14
Kerosene-Type Jet Fuel	--	--	1,955	152	--	27	--	223	1,856
Kerosene	--	--	13	--	--	12	--	--	1
Distillate Fuel Oil ⁵	--	--	5,369	175	84	160	--	1,295	4,173
15 ppm sulfur and under	--	--	5,101	157	84	139	--	1,138	4,064
Greater than 15 ppm to 500 ppm sulfur	--	--	91	1	--	6	--	61	26
Greater than 500 ppm sulfur	--	--	177	17	--	15	--	96	83
Residual Fuel Oil ⁶	--	--	391	237	--	-49	--	366	312
Less than 0.31 percent sulfur	--	--	69	39	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	65	8	--	-31	--	NA	NA
Greater than 1.00 percent sulfur	--	--	257	190	--	-16	--	NA	NA
Petrochemical Feedstocks	--	--	364	14	--	0	--	--	378
Naphtha for Petro. Feed. Use	--	--	234	12	--	0	--	--	246
Other Oils for Petro. Feed. Use	--	--	130	2	--	0	--	--	132
Special Naphthas	--	--	33	8	--	2	--	--	39
Lubricants	--	--	183	31	--	-5	--	100	120
Waxes	--	--	5	3	--	1	--	5	3
Petroleum Coke	--	--	955	2	--	23	--	486	449
Marketable	--	--	716	2	--	23	--	486	210
Catalyst	--	--	239	--	--	--	--	--	239
Asphalt and Road Oil	--	--	387	52	--	-93	--	24	508
Still Gas	--	--	737	--	--	--	--	--	737
Miscellaneous Products	--	--	101	0	--	1	--	1	99
Total	15,916	1,287	21,627	10,432	140	620	20,436	7,043	21,302

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

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

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

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

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

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

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

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2018
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	10,578	--	--	7,951	168	-70	16,958	1,810	0
Hydrocarbon Gas Liquids	4,241	-21	717	185	--	92	521	1,594	2,916
Natural Gas Liquids	4,241	-21	426	160	--	92	521	1,594	2,601
Ethane	1,668	--	--	--	--	-43	--	253	1,464
Propane	1,355	--	306	133	--	17	--	960	816
Normal Butane	339	--	127	17	--	112	135	180	55
Isobutane	388	--	-246	11	--	5	220	5	156
Natural Gasoline	491	-21	--	0	--	0	166	195	110
Refinery Olefins	--	--	291	25	--	0	--	--	316
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	287	19	--	-5	--	--	311
Butylene	--	--	3	6	--	5	--	--	5
Isobutylene	--	--	211	--	--	0	--	--	0
Other Liquids	--	1,250	--	1,371	-1	12	2,078	507	22
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,250	--	33	107	-5	1,204	190	0
Hydrogen	--	--	--	--	222	--	222	--	0
Oxygenates (excluding Fuel Ethanol)	--	81	--	10	-22	0	--	69	0
Renewable Fuels (including Fuel Ethanol)	--	1,169	--	23	-94	-5	981	122	0
Fuel Ethanol ⁵	--	1,054	--	1	-19	-1	923	114	0
Renewable Fuels Except Fuel Ethanol	--	115	--	22	-74	-4	58	8	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	617	--	14	317	263	23
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	721	-108	3	556	54	0
Reformulated	--	--	--	194	117	-25	335	1	0
Conventional	--	0	--	526	-225	27	220	53	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	5	19,973	695	202	-47	--	3,402	17,521
Finished Motor Gasoline	--	5	10,027	43	127	-6	--	836	9,372
Reformulated	--	--	3,259	--	-95	0	--	--	3,164
Conventional	--	5	6,768	43	223	-6	--	836	6,208
Finished Aviation Gasoline	--	--	12	0	--	-1	--	--	13
Kerosene-Type Jet Fuel	--	--	1,815	127	--	2	--	223	1,717
Kerosene	--	--	7	3	--	-1	--	4	7
Distillate Fuel Oil ⁵	--	--	5,103	168	75	-56	--	1,269	4,132
15 ppm sulfur and under	--	--	4,792	142	75	-36	--	1,071	3,975
Greater than 15 ppm to 500 ppm sulfur	--	--	89	4	--	-13	--	94	12
Greater than 500 ppm sulfur	--	--	221	22	--	-6	--	104	146
Residual Fuel Oil ⁶	--	--	422	219	--	-6	--	340	308
Less than 0.31 percent sulfur	--	--	59	27	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	66	15	--	-9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	297	177	--	4	--	NA	NA
Petrochemical Feedstocks	--	--	312	20	--	2	--	--	330
Naphtha for Petro. Feed. Use	--	--	201	17	--	2	--	--	216
Other Oils for Petro. Feed. Use	--	--	111	3	--	0	--	--	114
Special Naphthas	--	--	36	15	--	0	--	--	52
Lubricants	--	--	189	43	--	0	--	115	117
Waxes	--	--	5	5	--	-1	--	4	6
Petroleum Coke	--	--	906	13	--	3	--	588	327
Marketable	--	--	674	13	--	3	--	588	95
Catalyst	--	--	232	--	--	--	--	--	232
Asphalt and Road Oil	--	--	339	39	--	16	--	21	341
Still Gas	--	--	706	--	--	--	--	--	706
Miscellaneous Products	--	--	94	0	--	0	--	1	94
Total	14,819	1,234	20,690	10,203	369	-14	19,557	7,312	20,459

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

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

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

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

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

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

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

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2018
(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	1,864	--	--	22,360	5,413	3,765	-557	33,108	850	0	11,359
Hydrocarbon Gas Liquids	16,393	-13	1,458	1,141	-3,806	--	1,692	902	4,363	8,216	10,097
Natural Gas Liquids	16,393	-13	1,234	854	-4,154	--	1,727	902	4,363	7,322	9,968
Ethane	7,274	--	--	--	--	--	-22	--	1,406	156	623
Propane	5,202	--	636	700	2,019	--	1,483	--	2,434	4,640	6,355
Normal Butane	1,593	--	596	31	-61	--	289	271	437	1,162	2,621
Isobutane	786	--	2	123	-125	--	16	520	0	250	159
Natural Gasoline	1,538	-13	--	--	-253	--	-39	111	85	1,115	210
Refinery Olefins	--	--	224	287	--	--	-35	--	--	894	129
Ethylene	--	--	6	--	--	--	--	--	--	6	--
Propylene	--	--	250	287	--	--	-25	--	--	910	86
Butylene	--	--	-50	--	--	--	-23	--	--	-27	9
Isobutylene	--	--	18	--	--	--	13	--	--	5	34
Other Liquids	--	1,000	--	24,427	59,332	7,173	2,470	88,904	281	276	77,018
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,003	--	10	9,921	376	69	11,224	16	0	8,890
Hydrogen	--	--	--	--	--	106	--	106	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	1,003	--	10	9,921	268	69	11,118	15	0	8,890
Fuel Ethanol	--	770	--	--	9,903	309	144	10,831	7	0	7,672
Renewable Fuels Except Fuel Ethanol	--	233	--	10	18	-41	-75	287	8	0	1,218
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	2,104	82	--	852	1,013	45	276	6,544
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	22,313	49,329	6,797	1,549	76,667	220	0	61,584
Reformulated	--	--	--	7,651	7,880	1,150	-1,323	18,002	2	0	18,110
Conventional	--	-3	--	14,662	41,449	5,647	2,872	58,665	218	0	43,474
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	122,620	12,904	46,665	-7,064	1,907	--	3,839	169,379	71,702
Finished Motor Gasoline	--	--	103,740	2,166	6,304	-7,106	231	--	29	104,844	5,067
Reformulated	--	--	41,562	--	--	-1,561	-6	--	--	40,007	25
Conventional	--	--	62,178	2,166	6,304	-5,545	237	--	29	64,837	5,042
Finished Aviation Gasoline	--	--	--	1	99	--	-3	--	--	103	154
Kerosene-Type Jet Fuel	--	--	3,357	1,324	15,717	--	-1,369	--	239	21,528	9,323
Kerosene	--	--	216	--	161	--	252	--	--	125	1,506
Distillate Fuel Oil ⁶	--	--	9,346	4,821	22,588	42	2,709	--	225	33,863	40,822
15 ppm sulfur and under	--	--	8,935	4,298	21,583	42	2,646	--	6	32,205	35,919
Greater than 15 ppm to 500 ppm sulfur	--	--	187	37	1	--	299	--	187	-261	2,246
Greater than 500 ppm sulfur	--	--	224	486	1,004	--	-236	--	31	1,919	2,657
Residual Fuel Oil ⁷	--	--	1,613	3,172	-550	--	466	--	2,546	1,223	6,557
Less than 0.31 percent sulfur	--	--	560	--	--	--	-162	--	NA	NA	808
0.31 to 1.00 percent sulfur	--	--	545	--	-309	--	-450	--	NA	NA	781
Greater than 1.00 percent sulfur	--	--	508	3,172	-241	--	1,078	--	NA	NA	4,968
Petrochemical Feedstocks	--	--	100	4	--	--	-7	--	--	111	87
Naphtha for Petro. Feed. Use	--	--	100	3	--	--	-7	--	--	110	87
Other Oils for Petro. Feed. Use	--	--	--	1	--	--	--	--	--	1	--
Special Naphthas	--	--	23	2	--	--	-6	--	--	31	40
Lubricants	--	--	411	184	423	--	98	--	181	739	1,224
Waxes	--	--	14	78	--	--	28	--	75	-11	351
Petroleum Coke	--	--	974	3	819	--	--	--	381	1,415	--
Marketable	--	--	391	3	819	--	--	--	381	832	--
Catalyst	--	--	583	--	--	--	--	--	--	583	--
Asphalt and Road Oil	--	--	1,366	1,149	1,104	--	-488	--	148	3,958	6,546
Still Gas	--	--	1,357	--	--	--	--	--	--	1,357	--
Miscellaneous Products	--	--	103	--	--	--	-4	--	15	92	25
Total	18,257	987	124,078	60,832	107,603	3,873	5,512	122,914	9,333	177,870	170,176

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

D.

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

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

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

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2018
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	13,072	--	--	200,377	42,961	12,355	-120	260,781	8,105	0	11,359
Hydrocarbon Gas Liquids	117,280	-110	9,971	11,841	-17,440	--	1,620	8,116	21,852	89,954	10,097
Natural Gas Liquids	117,280	-110	7,419	10,086	-19,692	--	1,823	8,116	21,852	83,192	--
Ethane	51,207	--	--	--	--	--	169	--	6,241	3,420	--
Propane	38,136	--	5,300	9,093	23,201	--	510	--	12,706	62,514	--
Normal Butane	11,436	--	2,365	218	1,005	--	1,271	3,918	2,328	7,507	--
Isobutane	5,702	--	-246	775	-984	--	-17	3,421	8	1,835	--
Natural Gasoline	10,799	-110	--	--	-1,537	--	-110	777	570	7,915	--
Refinery Olefins	--	--	2,552	1,755	--	--	-203	--	--	6,762	--
Ethylene	--	--	23	--	--	--	--	--	--	23	--
Propylene	--	--	2,612	1,755	--	--	-68	--	--	6,687	--
Butylene	--	--	-294	--	--	--	-139	--	--	-155	--
Isobutylene	--	--	211	--	--	--	4	--	--	207	--
Other Liquids	--	7,868	--	160,232	457,145	48,312	7,889	664,906	2,328	-1,567	77,018
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	7,892	--	1,263	75,845	875	79	84,982	814	0	8,890
Hydrogen	--	--	--	--	--	828	--	828	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	12	--	--	12	0	--
Renewable Fuels (including Fuel Ethanol)	--	7,892	--	1,263	75,845	35	79	84,154	802	0	8,890
Fuel Ethanol	--	6,153	--	--	74,470	2,518	658	81,757	726	0	7,672
Renewable Fuels Except Fuel Ethanol	--	1,739	--	1,263	1,375	-2,484	-579	2,397	76	0	1,218
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	9,564	56	--	1,331	9,555	301	-1,567	6,544
Motor Gasoline Blend.Comp. (MGBC)	--	-24	--	149,405	381,244	47,437	6,479	570,369	1,214	0	61,584
Reformulated	--	--	--	46,201	62,775	20,485	-1,753	131,198	16	0	18,110
Conventional	--	-24	--	103,204	318,469	26,952	8,232	439,171	1,198	0	43,474
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	934,689	87,398	373,965	-47,460	-11,377	--	35,771	1,324,198	71,702
Finished Motor Gasoline	--	--	787,184	8,113	49,464	-49,955	-438	--	1,103	794,140	5,067
Reformulated	--	--	316,380	--	--	-16,271	1	--	--	300,108	25
Conventional	--	--	470,804	8,113	49,464	-33,684	-439	--	1,103	494,032	5,042
Finished Aviation Gasoline	--	--	--	26	807	--	-21	--	--	854	154
Kerosene-Type Jet Fuel	--	--	23,435	11,831	120,198	--	-186	--	2,850	152,800	9,323
Kerosene	--	--	1,011	614	529	--	-292	--	39	2,407	1,506
Distillate Fuel Oil ⁶	--	--	79,262	35,019	187,434	2,496	-11,855	--	9,615	306,451	40,822
15 ppm sulfur and under	--	--	72,500	29,934	172,118	2,496	-7,939	--	5,682	279,304	35,919
Greater than 15 ppm to 500 ppm sulfur	--	--	600	906	659	--	-2,346	--	1,812	2,699	2,246
Greater than 500 ppm sulfur	--	--	6,162	4,179	14,657	--	-1,570	--	2,121	24,447	2,657
Residual Fuel Oil ⁷	--	--	11,390	23,572	-1,570	--	-747	--	11,567	22,572	6,557
Less than 0.31 percent sulfur	--	--	2,883	692	-91	--	-382	--	NA	NA	808
0.31 to 1.00 percent sulfur	--	--	3,684	884	-1,078	--	-645	--	NA	NA	781
Greater than 1.00 percent sulfur	--	--	4,823	21,996	-401	--	280	--	NA	NA	4,968
Petrochemical Feedstocks	--	--	760	10	63	--	-11	--	--	844	87
Naphtha for Petro. Feed. Use	--	--	760	9	72	--	-11	--	--	852	87
Other Oils for Petro. Feed. Use	--	--	--	1	-9	--	--	--	--	-8	--
Special Naphthas	--	--	166	4	--	--	-7	--	--	177	40
Lubricants	--	--	3,311	1,324	3,456	--	162	--	2,226	5,703	1,224
Waxes	--	--	102	566	--	--	-176	--	535	309	351
Petroleum Coke	--	--	8,304	184	4,062	--	--	--	7,096	5,454	--
Marketable	--	--	3,252	184	4,062	--	--	--	7,096	402	--
Catalyst	--	--	5,052	--	--	--	--	--	--	5,052	--
Asphalt and Road Oil	--	--	8,236	6,135	9,522	--	2,198	--	627	21,067	6,546
Still Gas	--	--	10,760	--	--	--	--	--	--	10,760	--
Miscellaneous Products	--	--	768	--	--	--	-4	--	112	660	25
Total	130,352	7,758	944,660	459,848	856,631	13,207	-1,988	933,803	68,056	1,412,586	170,176

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol,

biodiesel, marketable petroleum coke, and asphalt and road oil

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

change, minus refinery and blender net inputs, minus exports.

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

D.

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

fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

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

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

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2018
(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	60	--	--	721	175	121	-18	1,068	27	0
Hydrocarbon Gas Liquids	529	0	47	37	-123	--	55	29	141	265
Natural Gas Liquids	529	0	40	28	-134	--	56	29	141	236
Ethane	235	--	--	--	--	--	-1	--	45	5
Propane	168	--	21	23	65	--	48	--	--	150
Normal Butane	51	--	19	1	-2	--	9	9	14	37
Isobutane	25	--	0	4	-4	--	1	17	0	8
Natural Gasoline	50	0	--	--	-8	--	-1	4	3	36
Refinery Olefins	--	--	7	9	--	--	-1	--	--	29
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	8	9	11	--	-1	--	--	29
Butylene	--	--	-2	--	--	--	-1	--	--	-1
Isobutylene	--	--	1	--	--	--	0	--	--	0
Other Liquids	--	32	--	788	1,914	231	80	2,868	9	9
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32	--	0	320	12	2	362	1	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	32	--	0	320	9	2	359	0	0
Fuel Ethanol ⁶	--	25	--	--	319	10	5	349	0	0
Renewable Fuels Except Fuel Ethanol	--	8	--	0	1	-1	-2	9	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	68	3	--	27	33	1	9
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	720	1,591	219	50	2,473	7	0
Reformulated	--	--	--	247	254	37	-43	581	0	0
Conventional	--	0	--	473	1,337	182	93	1,892	7	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,955	416	1,505	-228	62	--	124	5,464
Finished Motor Gasoline	--	--	3,346	70	203	-229	7	--	1	3,382
Reformulated	--	--	1,341	--	--	-50	0	--	--	1,291
Conventional	--	--	2,006	70	203	-179	8	--	1	2,092
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	108	43	507	--	-44	--	8	694
Kerosene	--	--	7	--	5	--	8	--	--	4
Distillate Fuel Oil ⁶	--	--	301	156	729	1	87	--	7	1,092
15 ppm sulfur and under	--	--	288	139	696	1	85	--	0	1,039
Greater than 15 ppm to 500 ppm sulfur	--	--	6	1	0	--	10	--	6	-8
Greater than 500 ppm sulfur	--	--	7	16	32	--	-8	--	1	62
Residual Fuel Oil ⁷	--	--	52	102	-18	--	15	--	82	39
Less than 0.31 percent sulfur	--	--	18	--	--	--	-5	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	18	--	-10	--	-15	--	NA	NA
Greater than 1.00 percent sulfur	--	--	16	102	-8	--	35	--	NA	NA
Petrochemical Feedstocks	--	--	3	0	--	--	0	--	--	4
Naphtha for Petro. Feed. Use	--	--	3	0	--	--	0	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	13	6	14	--	3	--	6	24
Waxes	--	--	0	3	--	--	1	--	2	0
Petroleum Coke	--	--	31	0	26	--	--	--	12	46
Marketable	--	--	13	0	26	--	--	--	12	27
Catalyst	--	--	19	--	--	--	--	--	--	19
Asphalt and Road Oil	--	--	44	37	36	--	-16	--	5	128
Still Gas	--	--	44	--	--	--	--	--	--	44
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	589	32	4,003	1,962	3,471	125	178	3,965	301	5,738

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

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

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2018
(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	54	--	--	825	177	51	0	1,073	33	0
Hydrocarbon Gas Liquids	483	0	41	49	-72	--	7	33	90	370
Natural Gas Liquids	483	0	31	42	-81	--	8	33	90	342
Ethane	211	--	--	--	--	--	1	--	26	14
Propane	157	--	22	37	95	--	2	--	--	257
Normal Butane	47	--	10	1	4	--	5	16	10	31
Isobutane	23	--	-1	3	-4	--	0	14	0	8
Natural Gasoline	44	0	--	--	-6	--	0	3	2	33
Refinery Olefins	--	--	11	7	--	--	-1	--	--	28
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	11	7	9	--	0	--	--	28
Butylene	--	--	-1	--	--	--	-1	--	--	-1
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	32	--	659	1,881	199	32	2,736	10	-6
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	32	--	5	312	4	0	350	3	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	32	--	5	312	0	0	346	3	0
Fuel Ethanol ⁶	--	25	--	--	306	10	3	336	3	0
Renewable Fuels Except Fuel Ethanol	--	7	--	5	6	-10	-2	10	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	39	0	--	5	39	1	-6
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	615	1,569	195	27	2,347	5	0
Reformulated	--	--	--	190	258	84	-7	540	0	0
Conventional	--	0	--	425	1,311	111	34	1,807	5	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,846	360	1,539	-195	-47	--	147	5,449
Finished Motor Gasoline	--	--	3,239	33	204	-206	-2	--	5	3,268
Reformulated	--	--	1,302	--	--	-67	0	--	--	1,235
Conventional	--	--	1,937	33	204	-139	-2	--	5	2,033
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	4
Kerosene-Type Jet Fuel	--	--	96	49	495	--	-1	--	12	629
Kerosene	--	--	4	3	2	--	-1	--	0	10
Distillate Fuel Oil ⁶	--	--	326	144	771	10	-49	--	40	1,261
15 ppm sulfur and under	--	--	298	123	708	10	-33	--	23	1,149
Greater than 15 ppm to 500 ppm sulfur	--	--	2	4	3	--	-10	--	7	11
Greater than 500 ppm sulfur	--	--	25	17	60	--	-6	--	9	101
Residual Fuel Oil ⁷	--	--	47	97	-6	--	-3	--	48	93
Less than 0.31 percent sulfur	--	--	12	3	0	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	4	-4	--	-3	--	NA	NA
Greater than 1.00 percent sulfur	--	--	20	91	-2	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	3	0	0	--	0	--	--	3
Naphtha for Petro. Feed. Use	--	--	3	0	0	--	0	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	0	0	--	--	--	--	0
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	14	5	14	--	1	--	9	23
Waxes	--	--	0	2	--	--	-1	--	2	1
Petroleum Coke	--	--	34	1	17	--	--	--	29	22
Marketable	--	--	13	1	17	--	--	--	29	2
Catalyst	--	--	21	--	--	--	--	--	--	21
Asphalt and Road Oil	--	--	34	25	39	--	9	--	3	87
Still Gas	--	--	44	--	--	--	--	--	--	44
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	536	32	3,887	1,892	3,525	54	-8	3,843	280	5,813

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

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

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2018
(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	64,135	--	--	84,906	-7,830	-11,723	3,338	123,851	2,299	0	110,588
Hydrocarbon Gas Liquids	30,622	-634	5,582	2,090	-9,158	--	6,064	2,704	7,796	11,938	63,324
Natural Gas Liquids	30,622	-634	4,126	1,650	-8,110	--	6,082	2,704	7,796	11,072	62,880
Ethane	10,678	--	--	--	--	--	94	--	2,770	4,300	5,734
Propane	10,697	--	2,316	1,291	-6,853	--	3,163	--	84	4,204	24,365
Normal Butane	3,530	--	1,899	179	-2,660	--	2,879	41	351	-323	21,133
Isobutane	1,945	--	-89	175	69	--	-66	1,587	1	578	2,290
Natural Gasoline	3,772	-634	--	5	4,848	--	12	1,076	4,590	2,313	9,358
Refinery Olefins	--	--	1,456	440	--	--	-18	--	--	866	444
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,342	380	--	--	-37	--	--	711	346
Butylene	--	--	124	60	--	--	14	--	--	170	50
Isobutylene	--	--	-10	--	--	--	5	--	--	-15	48
Other Liquids	--	33,763	--	839	-9,025	-3,487	558	20,604	2,948	-2,020	68,548
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	33,764	--	108	-20,317	-3,005	-147	9,865	832	0	8,325
Hydrogen	--	--	--	--	--	1,154	--	1,154	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	0	--	1	0	5
Renewable Fuels (including Fuel Ethanol)	--	33,764	--	107	-20,317	-4,201	-148	8,670	831	0	8,302
Fuel Ethanol	--	31,151	--	--	-19,650	-2,739	40	8,018	704	0	7,588
Renewable Fuels Except Fuel Ethanol	--	2,613	--	107	-667	-1,462	-188	652	127	0	714
Other Hydrocarbons	--	--	--	1	--	41	1	41	--	0	18
Unfinished Oils	--	--	--	45	40	--	341	-339	2,103	-2,020	13,431
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	686	11,252	-483	364	11,078	12	0	46,792
Reformulated	--	--	--	--	3,680	-2,502	-438	1,616	--	0	6,157
Conventional	--	-1	--	686	7,572	2,019	802	9,462	12	0	40,635
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	166	149,005	745	5,337	4,697	891	--	1,076	157,983	64,119
Finished Motor Gasoline	--	166	83,864	--	758	3,222	-744	--	83	88,671	6,172
Reformulated	--	--	11,262	--	--	2,941	--	--	--	14,203	--
Conventional	--	166	72,602	--	758	281	-744	--	83	74,468	6,172
Finished Aviation Gasoline	--	--	74	3	19	--	-8	--	--	104	164
Kerosene-Type Jet Fuel	--	--	9,046	--	1,291	--	414	--	69	9,854	7,455
Kerosene	--	--	176	--	16	--	149	--	--	43	231
Distillate Fuel Oil	--	--	35,630	52	6,003	1,476	1,896	--	194	41,070	34,704
15 ppm sulfur and under	--	--	35,775	18	5,889	1,476	1,955	--	1	41,202	33,834
Greater than 15 ppm to 500 ppm sulfur	--	--	-13	--	114	--	-84	--	121	64	291
Greater than 500 ppm sulfur	--	--	-132	34	--	--	25	--	73	-196	579
Residual Fuel Oil ⁶	--	--	1,641	87	-747	--	-24	--	104	901	1,237
Less than 0.31 percent sulfur	--	--	50	--	-31	--	-45	--	NA	NA	79
0.31 to 1.00 percent sulfur	--	--	232	7	95	--	35	--	NA	NA	152
Greater than 1.00 percent sulfur	--	--	1,359	80	-811	--	-14	--	NA	NA	1,006
Petrochemical Feedstocks	--	--	1,058	154	-94	--	-36	--	--	1,154	572
Naphtha for Petro. Feed. Use	--	--	735	85	-94	--	-29	--	--	755	428
Other Oils for Petro. Feed. Use	--	--	323	69	--	--	-7	--	--	399	144
Special Naphthas	--	--	59	20	10	--	25	--	--	64	162
Lubricants	--	--	274	131	183	--	56	--	227	305	778
Waxes	--	--	36	2	--	--	3	--	34	1	50
Petroleum Coke	--	--	6,337	28	-1,739	--	173	--	207	4,246	1,781
Marketable	--	--	4,807	28	-1,739	--	173	--	207	2,716	1,781
Catalyst	--	--	1,530	--	--	--	--	--	--	1,530	--
Asphalt and Road Oil	--	--	5,607	268	-373	--	-969	--	157	6,313	10,741
Still Gas	--	--	4,708	--	--	--	--	--	--	4,708	--
Miscellaneous Products	--	--	495	--	10	--	-44	--	1	548	72
Total	94,757	33,295	154,587	88,580	-20,676	-10,513	10,851	147,159	14,119	167,901	306,579

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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," EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2018
(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	475,180	--	--	679,386	-137,595	-70,538	-21,155	938,954	28,633	0	110,588
Hydrocarbon Gas Liquids	232,252	-4,690	33,797	20,183	-79,037	--	13,195	23,353	71,347	94,610	63,324
Natural Gas Liquids	232,252	-4,690	22,845	16,866	-73,153	--	13,504	23,353	71,347	85,916	--
Ethane	83,209	--	--	--	--	--	701	--	21,207	24,755	--
Propane	81,776	--	18,479	14,022	-58,739	--	4,346	--	1,259	49,933	--
Normal Butane	26,904	--	22	1,466	-17,339	--	9,318	4,137	2,912	111	--
Isobutane	14,307	--	-1,075	1,344	1,250	--	130	12,489	3	3,204	--
Natural Gasoline	26,056	-4,690	--	34	38,221	--	-991	6,727	45,972	7,913	--
Refinery Olefins	--	--	10,952	3,317	--	--	-309	--	--	8,694	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	10,487	2,899	--	--	-292	--	--	7,794	--
Butylene	--	--	484	418	--	--	-65	--	--	967	--
Isobutylene	--	--	-19	--	--	--	48	--	--	-67	--
Other Liquids	--	253,671	--	3,907	-95,635	-19,861	-973	136,607	22,409	-15,961	68,548
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	253,679	--	377	-165,359	-10,870	-2,054	74,107	5,773	0	8,325
Hydrogen	--	--	--	--	--	9,343	--	9,343	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	7	-2	--	9	0	5
Renewable Fuels (including Fuel Ethanol)	--	253,679	--	351	-165,359	-20,431	-2,023	64,498	5,764	0	8,302
Fuel Ethanol	--	235,087	--	--	-159,472	-11,787	-1,492	60,422	4,898	0	7,588
Renewable Fuels Except Fuel Ethanol	--	18,592	--	351	-5,887	-8,644	-531	4,076	866	0	714
Other Hydrocarbons	--	--	--	26	--	211	-29	266	--	0	18
Unfinished Oils	--	--	--	437	764	--	-37	934	16,265	-15,961	13,431
Motor Gasoline Blend.Comp. (MGBC)	--	-8	--	3,093	68,960	-8,991	1,118	61,566	370	0	46,792
Reformulated	--	--	--	64	19,573	-11,146	-6	8,496	1	0	6,157
Conventional	--	-8	--	3,029	49,387	2,155	1,124	53,070	369	0	40,635
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,249	1,120,409	7,202	21,814	29,462	7,642	--	7,944	1,164,550	64,119
Finished Motor Gasoline	--	1,249	631,915	--	3,633	20,777	-364	--	1,643	656,296	6,172
Reformulated	--	--	88,588	--	--	13,289	--	--	--	101,877	--
Conventional	--	1,249	543,327	--	3,633	7,488	-364	--	1,643	554,419	6,172
Finished Aviation Gasoline	--	--	399	20	146	--	6	--	--	559	164
Kerosene-Type Jet Fuel	--	--	63,761	--	8,833	--	555	--	384	71,655	7,455
Kerosene	--	--	633	2	28	--	111	--	21	531	231
Distillate Fuel Oil	--	--	278,400	1,288	27,627	8,684	5,909	--	1,010	309,081	34,704
15 ppm sulfur and under	--	--	278,215	778	26,900	8,684	5,702	--	157	308,719	33,834
Greater than 15 ppm to 500 ppm sulfur	--	--	754	--	727	--	-33	--	449	1,065	291
Greater than 500 ppm sulfur	--	--	-569	510	--	--	240	--	403	-702	579
Residual Fuel Oil ⁶	--	--	11,436	814	-5,780	--	4	--	1,062	5,404	1,237
Less than 0.31 percent sulfur	--	--	313	1	-308	--	-30	--	NA	NA	79
0.31 to 1.00 percent sulfur	--	--	1,738	276	-88	--	-32	--	NA	NA	152
Greater than 1.00 percent sulfur	--	--	9,385	537	-5,384	--	66	--	NA	NA	1,006
Petrochemical Feedstocks	--	--	7,381	1,108	-869	--	84	--	--	7,536	572
Naphtha for Petro. Feed. Use	--	--	4,946	560	-718	--	76	--	--	4,712	428
Other Oils for Petro. Feed. Use	--	--	2,435	548	-151	--	8	--	--	2,824	144
Special Naphthas	--	--	440	340	219	--	61	--	--	938	162
Lubricants	--	--	1,539	1,107	1,688	--	-105	--	1,615	2,824	778
Waxes	--	--	248	40	--	--	-13	--	247	54	50
Petroleum Coke	--	--	46,776	217	-7,894	--	264	--	1,143	37,692	1,781
Marketable	--	--	34,903	217	-7,894	--	264	--	1,143	25,819	1,781
Catalyst	--	--	11,873	--	--	--	--	--	--	11,873	--
Asphalt and Road Oil	--	--	37,941	2,258	-5,876	--	1,183	--	804	32,336	10,741
Still Gas	--	--	35,580	--	--	--	--	--	--	35,580	--
Miscellaneous Products	--	--	3,960	8	59	--	-53	--	16	4,064	72
Total	707,432	250,230	1,154,206	710,678	-290,453	-60,937	-1,291	1,098,914	130,332	1,243,199	306,579

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2018
(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	2,069	--	--	2,739	-253	-378	108	3,995	74	0
Hydrocarbon Gas Liquids	988	-20	180	67	-295	--	196	87	251	385
Natural Gas Liquids	988	-20	133	53	-262	--	196	87	251	357
Ethane	344	--	--	--	--	--	3	--	89	139
Propane	345	--	75	42	-221	--	102	--	3	136
Normal Butane	114	--	4,457	6	-86	--	93	1	11	-10
Isobutane	63	--	-3	6	2	--	-2	51	0	19
Natural Gasoline	122	-20	--	0	156	--	0	35	148	75
Refinery Olefins	--	--	47	14	--	--	-1	--	--	28
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	43	12	-34	--	-1	--	--	23
Butylene	--	--	4	2	--	--	0	--	--	5
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	1,089	--	27	-291	-112	18	665	95	-65
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,089	--	3	-655	-97	-5	318	27	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,089	--	3	-655	-136	-5	280	27	0
Fuel Ethanol	--	1,005	--	--	-634	-88	1	259	23	0
Renewable Fuels Except Fuel Ethanol	--	84	--	3	-22	-47	-6	21	4	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	1	1	--	11	-11	68	-65
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	22	363	-16	12	357	0	0
Reformulated	--	--	--	--	119	-81	-14	52	--	0
Conventional	--	0	--	22	244	65	26	305	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,807	24	172	152	29	--	35	5,096
Finished Motor Gasoline	--	5	2,705	--	24	104	-24	--	3	2,860
Reformulated	--	--	363	--	--	95	--	--	--	458
Conventional	--	5	2,342	--	24	9	-24	--	3	2,402
Finished Aviation Gasoline	--	--	2	0	1	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	292	--	42	--	13	--	2	318
Kerosene	--	--	6	--	1	--	5	--	--	1
Distillate Fuel Oil	--	--	1,149	2	194	48	61	--	6	1,325
15 ppm sulfur and under	--	--	1,154	1	190	48	63	--	0	1,329
Greater than 15 ppm to 500 ppm sulfur	--	--	0	--	4	--	-3	--	4	2
Greater than 500 ppm sulfur	--	--	-4	1	--	--	-1	--	2	-6
Residual Fuel Oil ⁶	--	--	53	3	-24	--	-1	--	3	29
Less than 0.31 percent sulfur	--	--	2	--	-1	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	0	3	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	44	3	-26	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	34	5	-3	--	-1	--	--	37
Naphtha for Petro. Feed. Use	--	--	24	3	-3	--	-1	--	--	24
Other Oils for Petro. Feed. Use	--	--	10	2	--	--	0	--	--	13
Special Naphthas	--	--	2	1	0	--	1	--	--	2
Lubricants	--	--	9	4	6	--	2	--	7	10
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	204	1	-56	--	6	--	7	137
Marketable	--	--	155	1	-56	--	6	--	7	88
Catalyst	--	--	49	--	--	--	--	--	--	49
Asphalt and Road Oil	--	--	181	9	-12	--	-31	--	5	204
Still Gas	--	--	152	--	--	--	--	--	--	152
Miscellaneous Products	--	--	16	--	0	--	-1	--	0	18
Total	3,057	1,074	4,987	2,857	-667	-339	350	4,747	455	5,416

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2018
(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	1,955	--	--	2,796	-566	-290	-87	3,864	118	0
Hydrocarbon Gas Liquids	956	-19	139	83	-325	--	54	96	294	389
Natural Gas Liquids	956	-19	94	69	-301	--	56	96	294	354
Ethane	342	--	--	--	--	--	3	--	87	102
Propane	337	--	76	58	-242	--	18	--	5	205
Normal Butane	111	--	22	6	-71	--	38	17	12	0
Isobutane	59	--	-4	6	5	--	1	51	0	13
Natural Gasoline	107	-19	--	0	157	--	-4	28	189	33
Refinery Olefins	--	--	45	14	--	--	-1	--	--	36
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	43	12	-24	--	-1	--	--	32
Butylene	--	--	2	2	--	--	0	--	--	4
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	1,044	--	16	-394	-82	-4	562	92	-66
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,044	--	2	-680	-45	-8	305	24	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,044	--	1	-680	-84	-8	265	24	0
Fuel Ethanol	--	967	--	--	-656	-49	-6	249	20	0
Renewable Fuels Except Fuel Ethanol	--	77	--	1	-24	-36	-2	17	4	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	2	3	--	0	4	67	-66
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	13	284	-37	5	253	2	0
Reformulated	--	--	--	0	81	-46	0	35	0	0
Conventional	--	0	--	12	203	9	5	218	2	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,611	30	90	121	31	--	33	4,792
Finished Motor Gasoline	--	5	2,600	--	15	86	-1	--	7	2,701
Reformulated	--	--	365	--	--	55	--	--	--	419
Conventional	--	5	2,236	--	15	31	-1	--	7	2,282
Finished Aviation Gasoline	--	--	2	0	1	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	262	--	36	--	2	--	2	295
Kerosene	--	--	3	0	0	--	0	--	0	2
Distillate Fuel Oil	--	--	1,146	5	114	36	24	--	4	1,272
15 ppm sulfur and under	--	--	1,145	3	111	36	23	--	1	1,270
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	3	--	0	--	2	4
Greater than 500 ppm sulfur	--	--	-2	2	--	--	1	--	2	-3
Residual Fuel Oil ⁶	--	--	47	3	-24	--	0	--	4	22
Less than 0.31 percent sulfur	--	--	1	0	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	1	0	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	39	2	-22	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	30	5	-4	--	0	--	--	31
Naphtha for Petro. Feed. Use	--	--	20	2	-3	--	0	--	--	19
Other Oils for Petro. Feed. Use	--	--	10	2	-1	--	0	--	--	12
Special Naphthas	--	--	2	1	1	--	0	--	--	4
Lubricants	--	--	6	5	7	--	0	--	7	12
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	192	1	-32	--	1	--	5	155
Marketable	--	--	144	1	-32	--	1	--	5	106
Catalyst	--	--	49	--	--	--	--	--	--	49
Asphalt and Road Oil	--	--	156	9	-24	--	5	--	3	133
Still Gas	--	--	146	--	--	--	--	--	--	146
Miscellaneous Products	--	--	16	0	0	--	0	--	0	17
Total	2,911	1,030	4,750	2,925	-1,195	-251	-5	4,522	536	5,116

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2018
(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	230,186	--	--	78,202	14,360	12,414	-5,773	289,856	51,079	0	874,041
Hydrocarbon Gas Liquids	79,208	-19	17,264	105	24,016	--	8,434	9,199	36,786	66,155	129,273
Natural Gas Liquids	79,208	-19	9,730	--	23,316	--	7,485	9,199	36,786	58,765	123,761
Ethane	32,924	--	289	--	--	--	-877	--	4,745	42,150	38,393
Propane	24,034	--	5,138	--	8,678	--	1,593	--	27,890	8,367	32,472
Normal Butane	4,524	--	4,457	--	3,943	--	6,229	1,234	3,880	1,581	36,355
Isobutane	8,582	--	-154	--	835	--	79	3,882	238	5,064	6,409
Natural Gasoline	9,144	-19	--	--	-2,945	--	461	4,083	34	1,602	10,132
Refinery Olefins	--	--	7,534	105	--	--	949	--	--	7,390	5,512
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	7,274	--	--	--	49	--	--	7,925	3,234
Butylene	--	--	281	105	--	--	900	--	--	-514	2,278
Isobutylene	--	--	-21	--	--	--	0	--	--	-21	0
Other Liquids	--	4,312	--	16,248	-61,307	250	951	-53,533	10,198	1,888	125,640
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	4,312	--	419	4,627	3,892	-451	9,352	4,349	0	7,088
Hydrogen	--	--	--	--	--	4,319	--	4,319	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,622	--	289	--	-696	29	--	2,186	0	1,441
Renewable Fuels (including Fuel Ethanol)	--	1,690	--	129	4,627	269	-480	5,033	2,163	0	5,647
Fuel Ethanol	--	832	--	--	4,523	857	-658	4,715	2,155	0	4,329
Renewable Fuels Except Fuel Ethanol	--	858	--	129	103	-587	178	318	8	0	1,318
Other Hydrocarbons	--	--	--	1	--	-1	--	--	--	0	--
Unfinished Oils	--	--	--	14,343	-122	--	-1,371	9,104	4,556	1,932	46,432
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	1,486	-65,812	-3,641	2,766	-72,026	1,293	0	72,074
Reformulated	--	--	--	--	-13,954	1,235	-2,156	-10,568	5	0	10,017
Conventional	--	--	--	1,486	-51,858	-4,877	4,922	-61,458	1,287	0	62,057
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	7	37	--	-44	46
Finished Petroleum Products	--	--	249,024	4,828	-53,912	3,525	-390	--	83,902	119,953	103,353
Finished Motor Gasoline	--	--	68,012	296	-6,888	2,785	-682	--	19,736	45,151	8,367
Reformulated	--	--	14,901	--	--	-1,381	--	--	--	13,520	--
Conventional	--	--	53,111	296	-6,888	4,166	-682	--	19,736	31,631	8,367
Finished Aviation Gasoline	--	--	251	--	-118	--	-31	--	--	164	377
Kerosene-Type Jet Fuel	--	--	30,951	--	-18,080	--	1,793	--	5,850	5,228	15,268
Kerosene	--	--	-6	--	-177	--	-28	--	--	-155	106
Distillate Fuel Oil	--	--	95,920	--	-29,664	740	939	--	36,916	29,141	40,655
15 ppm sulfur and under	--	--	88,722	--	-28,545	740	244	--	33,166	27,508	34,650
Greater than 15 ppm to 500 ppm sulfur	--	--	2,205	--	-115	--	-122	--	1,567	645	1,438
Greater than 500 ppm sulfur	--	--	4,993	--	-1,004	--	817	--	2,183	989	4,567
Residual Fuel Oil ⁷	--	--	5,370	3,395	1,297	--	-1,937	--	7,848	4,151	14,720
Less than 0.31 percent sulfur	--	--	1,318	1,220	31	--	66	--	NA	NA	741
0.31 to 1.00 percent sulfur	--	--	587	--	214	--	-584	--	NA	NA	2,486
Greater than 1.00 percent sulfur	--	--	3,465	2,175	1,052	--	-1,419	--	NA	NA	11,493
Petrochemical Feedstocks	--	--	10,118	250	94	--	47	--	--	10,415	2,697
Naphtha for Petro. Feed. Use	--	--	6,408	250	94	--	30	--	--	6,722	1,755
Other Oils for Petro. Feed. Use	--	--	3,710	--	--	--	17	--	--	3,693	942
Special Naphthas	--	--	898	236	-10	--	24	--	--	1,100	833
Lubricants	--	--	4,227	632	-606	--	-278	--	2,263	2,268	8,993
Waxes	--	--	109	11	--	--	8	--	29	83	261
Petroleum Coke	--	--	16,284	8	1,086	--	491	--	10,842	6,045	5,824
Marketable	--	--	12,485	8	1,086	--	491	--	10,842	2,246	5,824
Catalyst	--	--	3,799	--	--	--	--	--	--	3,799	--
Asphalt and Road Oil	--	--	2,770	--	-836	--	-806	--	409	2,332	4,853
Still Gas	--	--	12,179	--	--	--	--	--	--	12,179	--
Miscellaneous Products	--	--	1,941	--	-10	--	70	--	10	1,851	399
Total	309,394	4,293	266,288	99,383	-76,843	16,189	3,222	245,522	181,965	187,995	1,232,307

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

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

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2018
(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	1,649,516	--	--	636,066	186,929	103,948	6,675	2,169,723	400,061	0	874,041
Hydrocarbon Gas Liquids	563,303	-130	111,612	1,020	183,341	--	3,942	70,538	282,257	502,409	129,273
Natural Gas Liquids	563,303	-130	56,818	1	179,709	--	3,382	70,538	282,257	443,524	--
Ethane	239,431	--	1,519	--	--	--	-11,271	--	33,991	325,813	--
Propane	171,316	--	39,271	1	65,325	--	-1,066	--	211,483	65,496	--
Normal Butane	27,654	--	19,036	--	25,526	--	13,630	16,584	35,293	6,709	--
Isobutane	64,709	--	-3,008	--	5,768	--	1,043	29,203	1,318	35,905	--
Natural Gasoline	60,193	-130	--	--	-24,493	--	1,046	24,751	172	9,601	--
Refinery Olefins	--	--	54,794	1,019	--	--	560	--	--	58,885	--
Ethylene	--	--	7	--	--	--	0	--	--	7	--
Propylene	--	--	54,414	--	--	--	-789	--	--	58,835	--
Butylene	--	--	604	1,019	--	--	1,349	--	--	274	--
Isobutylene	--	--	-231	--	--	--	0	--	--	-231	--
Other Liquids	--	31,542	--	137,328	-443,739	-7,413	-452	-397,650	93,514	22,305	125,640
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	31,542	--	2,865	45,997	28,827	267	71,075	37,888	0	7,088
Hydrogen	--	--	--	--	--	32,068	--	32,068	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	19,671	--	2,450	--	-5,441	2	--	16,678	0	1,441
Renewable Fuels (including Fuel Ethanol)	--	11,871	--	367	45,997	2,248	265	39,007	21,211	0	5,647
Fuel Ethanol	--	6,534	--	--	44,429	6,189	251	36,050	20,850	0	4,329
Renewable Fuels Except Fuel Ethanol	--	5,337	--	367	1,568	-3,940	14	2,957	361	0	1,318
Other Hydrocarbons	--	--	--	48	--	-48	0	--	--	0	--
Unfinished Oils	--	--	--	118,518	-820	--	1,512	47,116	46,548	22,522	46,432
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	15,945	-488,916	-36,240	-2,262	-516,027	9,078	0	72,074
Reformulated	--	--	--	--	-102,242	20,783	-1,115	-80,442	98	0	10,017
Conventional	--	--	--	15,945	-386,674	-57,023	-1,147	-435,585	8,980	0	62,057
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	31	186	--	-217	46
Finished Petroleum Products	--	--	1,883,615	40,421	-408,787	35,547	-5,179	--	694,701	861,275	103,353
Finished Motor Gasoline	--	--	551,560	597	-52,402	30,052	-515	--	185,498	344,824	8,367
Reformulated	--	--	113,373	--	--	-21,422	--	--	--	91,951	--
Conventional	--	--	438,187	597	-52,402	51,474	-515	--	185,498	252,873	8,367
Finished Aviation Gasoline	--	--	2,056	--	-953	--	-92	--	--	1,195	377
Kerosene-Type Jet Fuel	--	--	228,480	--	-137,298	--	1,424	--	44,738	45,020	15,268
Kerosene	--	--	36	--	-557	--	-70	--	957	-1,408	106
Distillate Fuel Oil	--	--	696,763	1,370	-222,873	5,495	-5,167	--	274,753	211,169	40,655
15 ppm sulfur and under	--	--	634,257	635	-206,830	5,495	-4,153	--	238,131	199,580	34,650
Greater than 15 ppm to 500 ppm sulfur	--	--	17,625	--	-1,386	--	-803	--	18,901	-1,859	1,438
Greater than 500 ppm sulfur	--	--	44,881	735	-14,657	--	-211	--	17,722	13,448	4,567
Residual Fuel Oil ⁷	--	--	49,535	21,050	7,350	--	-1,637	--	61,414	18,158	14,720
Less than 0.31 percent sulfur	--	--	9,503	5,925	399	--	91	--	NA	NA	741
0.31 to 1.00 percent sulfur	--	--	5,315	993	1,166	--	-1,981	--	NA	NA	2,486
Greater than 1.00 percent sulfur	--	--	34,717	14,132	5,785	--	253	--	NA	NA	11,493
Petrochemical Feedstocks	--	--	67,689	3,426	806	--	384	--	--	71,537	2,697
Naphtha for Petro. Feed. Use	--	--	43,045	3,251	646	--	358	--	--	46,584	1,755
Other Oils for Petro. Feed. Use	--	--	24,644	175	160	--	26	--	--	24,953	942
Special Naphthas	--	--	7,931	3,268	-219	--	-166	--	--	11,146	833
Lubricants	--	--	35,787	7,952	-4,877	--	-68	--	20,989	17,941	8,993
Waxes	--	--	787	263	--	--	-6	--	176	880	261
Petroleum Coke	--	--	119,889	2,436	6,497	--	261	--	102,727	25,834	5,824
Marketable	--	--	91,067	2,436	6,497	--	261	--	102,727	-2,988	5,824
Catalyst	--	--	28,822	--	--	--	--	--	--	28,822	--
Asphalt and Road Oil	--	--	20,196	--	-4,202	--	452	--	3,384	12,158	4,853
Still Gas	--	--	89,008	--	--	--	--	--	--	89,008	--
Miscellaneous Products	--	--	13,898	59	-59	--	21	--	64	13,813	399
Total	2,212,819	31,412	1,995,227	814,835	-482,256	132,082	4,986	1,842,611	1,470,533	1,385,988	1,232,307

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol,

biodiesel, marketable petroleum coke, and asphalt and road oil

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

change, minus refinery and blender net inputs, minus exports.

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

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

fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

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

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

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2018
(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	7,425	--	--	2,523	463	400	-186	9,350	1,648	0
Hydrocarbon Gas Liquids	2,555	-1	557	3	775	--	272	297	1,187	2,134
Natural Gas Liquids	2,555	-1	314	--	752	--	241	297	1,187	1,896
Ethane	1,062	--	9	--	--	--	-28	--	153	1,360
Propane	775	--	166	--	280	--	51	--	900	270
Normal Butane	146	--	144	--	127	--	201	40	125	51
Isobutane	277	--	-5	--	27	--	3	125	8	163
Natural Gasoline	295	-1	--	--	-95	--	15	132	1	52
Refinery Olefins	--	--	243	3	--	--	31	--	--	238
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	235	--	23	--	2	--	--	256
Butylene	--	--	9	3	--	--	29	--	--	-17
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	139	--	524	-1,978	8	31	-1,727	329	61
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	139	--	14	149	126	-15	302	140	0
Hydrogen	--	--	--	--	--	139	--	139	--	0
Oxygenates (excluding Fuel Ethanol)	--	85	--	9	--	-22	1	--	71	0
Renewable Fuels (including Fuel Ethanol)	--	55	--	4	149	9	-15	162	70	0
Fuel Ethanol	--	27	--	--	146	28	-21	152	70	0
Renewable Fuels Except Fuel Ethanol	--	28	--	4	3	-19	6	10	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	463	-4	--	-44	294	147	62
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	48	-2,123	-117	89	-2,323	42	0
Reformulated	--	--	--	--	-450	40	-70	-341	0	0
Conventional	--	--	--	48	-1,673	-157	159	-1,983	42	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	--	8,033	156	-1,739	114	-13	--	2,707	3,869
Finished Motor Gasoline	--	--	2,194	10	-222	90	-22	--	637	1,456
Reformulated	--	--	481	--	--	-45	--	--	--	436
Conventional	--	--	1,713	10	-222	134	-22	--	637	1,020
Finished Aviation Gasoline	--	--	8	--	-4	--	-1	--	--	5
Kerosene-Type Jet Fuel	--	--	998	--	-583	--	58	--	189	169
Kerosene	--	--	0	--	-6	--	-1	--	--	-5
Distillate Fuel Oil	--	--	3,094	--	-957	24	30	--	1,191	940
15 ppm sulfur and under	--	--	2,862	--	-921	24	8	--	1,070	887
Greater than 15 ppm to 500 ppm sulfur	--	--	71	--	-4	--	-4	--	51	21
Greater than 500 ppm sulfur	--	--	161	--	-32	--	-26	--	70	32
Residual Fuel Oil ⁷	--	--	173	110	42	--	62	--	253	134
Less than 0.31 percent sulfur	--	--	43	39	1	--	2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	19	--	7	--	-19	--	NA	NA
Greater than 1.00 percent sulfur	--	--	112	70	34	--	-46	--	NA	NA
Petrochemical Feedstocks	--	--	326	8	3	--	2	--	--	336
Naphtha for Petro. Feed. Use	--	--	207	8	3	--	1	--	--	217
Other Oils for Petro. Feed. Use	--	--	120	--	--	--	1	--	--	119
Special Naphthas	--	--	29	8	0	--	1	--	--	35
Lubricants	--	--	136	20	-20	--	-9	--	73	73
Waxes	--	--	4	0	--	--	0	--	1	3
Petroleum Coke	--	--	525	0	35	--	16	--	350	195
Marketable	--	--	403	0	35	--	16	--	350	72
Catalyst	--	--	123	--	--	--	--	--	--	123
Asphalt and Road Oil	--	--	89	--	-27	--	-26	--	13	75
Still Gas	--	--	393	--	--	--	--	--	--	393
Miscellaneous Products	--	--	63	--	0	--	2	--	0	60
Total	9,980	138	8,590	3,206	-2,479	522	104	7,920	5,870	6,064

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

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

Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2018
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	6,788	--	--	2,618	769	428	27	8,929	1,646	0
Hydrocarbon Gas Liquids	2,318	-1	459	4	754	--	16	290	1,162	2,068
Natural Gas Liquids	2,318	-1	234	0	740	--	14	290	1,162	1,825
Ethane	985	--	6	--	--	--	-46	--	140	1,341
Propane	705	--	162	0	269	--	-4	--	870	270
Normal Butane	114	--	714	--	105	--	56	68	145	28
Isobutane	266	--	-12	--	24	--	4	120	5	148
Natural Gasoline	248	-1	--	--	-101	--	4	102	1	40
Refinery Olefins	--	--	225	4	--	--	2	--	--	242
Ethylene	--	--	0	--	--	--	0	--	--	0
Propylene	--	--	224	--	15	--	-3	--	--	242
Butylene	--	--	2	4	--	--	6	--	--	1
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	130	--	565	-1,826	-31	-2	-1,636	385	92
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	130	--	12	189	119	1	292	156	0
Hydrogen	--	--	--	--	--	132	--	132	--	0
Oxygenates (excluding Fuel Ethanol)	--	81	--	10	--	-22	0	--	69	0
Renewable Fuels (including Fuel Ethanol)	--	49	--	2	189	9	1	161	87	0
Fuel Ethanol	--	27	--	--	183	25	1	148	86	0
Renewable Fuels Except Fuel Ethanol	--	22	--	2	6	-16	0	12	1	0
Other Hydrocarbons	--	--	--	0	--	0	0	--	--	0
Unfinished Oils	--	--	--	488	-3	--	6	194	192	93
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	66	-2,012	-149	-9	-2,124	37	0
Reformulated	--	--	--	--	-421	86	-5	-331	0	0
Conventional	--	--	--	66	-1,591	-235	-5	-1,793	37	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	1	--	-1
Finished Petroleum Products	--	--	7,752	166	-1,682	146	-21	--	2,859	3,544
Finished Motor Gasoline	--	--	2,270	2	-216	124	-2	--	763	1,419
Reformulated	--	--	467	--	--	-88	--	--	--	378
Conventional	--	--	1,803	2	-216	212	-2	--	763	1,041
Finished Aviation Gasoline	--	--	8	--	-4	--	0	--	--	5
Kerosene-Type Jet Fuel	--	--	940	--	-565	--	6	--	184	185
Kerosene	--	--	0	--	-2	--	0	--	4	-6
Distillate Fuel Oil	--	--	2,867	6	-917	23	-21	--	1,131	869
15 ppm sulfur and under	--	--	2,610	3	-851	23	-17	--	980	821
Greater than 15 ppm to 500 ppm sulfur	--	--	73	--	-6	--	-3	--	78	-8
Greater than 500 ppm sulfur	--	--	185	3	-60	--	-1	--	73	55
Residual Fuel Oil ⁷	--	--	204	87	30	--	-7	--	253	75
Less than 0.31 percent sulfur	--	--	39	24	2	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	22	4	5	--	-8	--	NA	NA
Greater than 1.00 percent sulfur	--	--	143	58	24	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	279	14	3	--	2	--	--	294
Naphtha for Petro. Feed. Use	--	--	177	13	3	--	1	--	--	192
Other Oils for Petro. Feed. Use	--	--	101	1	1	--	0	--	--	103
Special Naphthas	--	--	33	13	-1	--	-1	--	--	46
Lubricants	--	--	147	33	-20	--	0	--	86	74
Waxes	--	--	3	1	--	--	0	--	1	4
Petroleum Coke	--	--	493	10	27	--	1	--	423	106
Marketable	--	--	375	10	27	--	1	--	423	-12
Catalyst	--	--	119	--	--	--	--	--	--	119
Asphalt and Road Oil	--	--	83	--	-17	--	2	--	14	50
Still Gas	--	--	366	--	--	--	--	--	--	366
Miscellaneous Products	--	--	57	0	0	--	0	--	0	57
Total	9,106	129	8,211	3,353	-1,985	544	21	7,583	6,052	5,704

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

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

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

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

⁴ Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

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

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2018
(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	27,518	--	--	11,865	-16,430	-3,149	936	18,868	--	0	22,155
Hydrocarbon Gas Liquids	13,591	-9	411	288	-11,840	--	232	517	75	1,617	4,551
Natural Gas Liquids	13,591	-9	437	288	-11,840	--	239	517	75	1,636	4,541
Ethane	4,039	--	--	--	--	--	13	--	--	469	520
Propane	4,716	--	255	245	-4,217	--	74	--	0	925	1,434
Normal Butane	1,881	--	201	25	-1,569	--	161	167	14	196	1,994
Isobutane	860	--	-19	18	-847	--	12	162	--	-162	252
Natural Gasoline	2,095	-9	--	--	-1,650	--	-21	188	61	208	341
Refinery Olefins	--	--	-26	--	--	--	-7	--	--	-19	10
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	3	--	--	--	-1	--	--	4	0
Butylene	--	--	-29	--	--	--	-6	--	--	-23	10
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	413	--	155	1,229	-623	-448	1,412	0	210	8,640
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	413	--	1	572	376	98	1,264	--	0	450
Hydrogen	--	--	--	--	--	204	--	204	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	413	--	1	572	172	98	1,060	--	0	450
Fuel Ethanol	--	413	--	--	493	114	24	996	--	0	358
Renewable Fuels Except Fuel Ethanol	--	--	--	1	79	58	74	64	--	0	92
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	18	--	--	0	-192	0	210	3,305
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	136	657	-999	-546	340	--	0	4,885
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	657	-999	-546	340	--	0	4,885
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	21,229	178	-180	905	-755	--	36	22,851	7,382
Finished Motor Gasoline	--	--	10,472	--	-376	885	-15	--	1	10,995	1,521
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	10,472	--	-376	885	-15	--	1	10,995	1,521
Finished Aviation Gasoline	--	--	8	1	--	--	1	--	--	8	9
Kerosene-Type Jet Fuel	--	--	1,228	18	795	--	-92	--	--	2,133	647
Kerosene	--	--	--	--	--	--	0	--	--	0	2
Distillate Fuel Oil	--	--	6,225	148	-6	20	-360	--	--	6,747	3,351
15 ppm sulfur and under	--	--	6,183	148	-6	20	-354	--	--	6,699	3,158
Greater than 15 ppm to 500 ppm sulfur	--	--	34	--	--	--	-14	--	--	48	140
Greater than 500 ppm sulfur	--	--	8	--	--	--	8	--	--	0	53
Residual Fuel Oil ⁶	--	--	391	--	--	--	30	--	7	354	289
Less than 0.31 percent sulfur	--	--	203	--	--	--	0	--	NA	NA	28
0.31 to 1.00 percent sulfur	--	--	40	--	--	--	16	--	NA	NA	27
Greater than 1.00 percent sulfur	--	--	148	--	--	--	14	--	NA	NA	234
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	9	-9	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	738	--	-141	--	11	--	10	576	124
Marketable	--	--	476	--	-141	--	11	--	10	314	124
Catalyst	--	--	262	--	--	--	--	--	--	262	--
Asphalt and Road Oil	--	--	1,344	10	-452	--	-331	--	9	1,224	1,419
Still Gas	--	--	700	--	--	--	--	--	--	700	--
Miscellaneous Products	--	--	123	1	--	--	1	--	0	123	20
Total	41,109	404	21,640	12,486	-27,220	-2,867	-35	20,797	111	24,678	42,728

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2018
(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	201,233	--	--	88,897	-126,815	-12,881	-207	150,511	130	0	22,155
Hydrocarbon Gas Liquids	101,985	-71	2,803	2,560	-93,312	--	918	4,626	625	7,796	4,551
Natural Gas Liquids	101,985	-71	2,660	2,560	-93,312	--	923	4,626	625	7,648	--
Ethane	31,431	--	--	--	--	--	52	--	--	1,719	--
Propane	35,479	--	2,121	2,245	-32,544	--	-50	--	3	7,348	--
Normal Butane	13,839	--	714	114	-12,193	--	958	1,814	88	-386	--
Isobutane	6,349	--	-175	201	-6,724	--	-23	1,525	--	-1,851	--
Natural Gasoline	14,887	-71	--	--	-12,191	--	-14	1,287	534	818	--
Refinery Olefins	--	--	143	--	--	--	-5	--	--	148	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	20	--	--	--	0	--	--	20	--
Butylene	--	--	123	--	--	--	-5	--	--	128	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	3,390	--	645	3,771	-6,679	-231	221	9	1,128	8,640
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	3,390	--	14	3,148	2,949	116	9,383	1	0	450
Hydrogen	--	--	--	--	--	1,681	--	1,681	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	3,390	--	14	3,148	1,268	116	7,702	1	0	450
Fuel Ethanol	--	3,390	--	--	2,843	1,113	34	7,312	--	0	358
Renewable Fuels Except Fuel Ethanol	--	--	--	14	305	154	82	390	1	0	92
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	30	--	--	554	-1,659	7	1,128	3,305
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	601	623	-9,628	-901	-7,503	0	0	4,885
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	623	-9,628	-901	-7,503	0	0	4,885
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	159,471	715	-6,739	8,438	-1,200	--	208	162,877	7,382
Finished Motor Gasoline	--	--	75,564	--	-5,057	8,515	-293	--	10	79,304	1,521
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	75,564	--	-5,057	8,515	-293	--	10	79,304	1,521
Finished Aviation Gasoline	--	--	38	5	--	--	0	--	--	43	9
Kerosene-Type Jet Fuel	--	--	9,027	46	5,784	--	-75	--	--	14,932	647
Kerosene	--	--	1	--	--	--	0	--	1	0	2
Distillate Fuel Oil	--	--	49,531	409	-415	-76	-857	--	0	50,306	3,351
15 ppm sulfur and under	--	--	49,277	409	-375	-76	-812	--	0	50,047	3,158
Greater than 15 ppm to 500 ppm sulfur	--	--	273	--	-40	--	-32	--	--	265	140
Greater than 500 ppm sulfur	--	--	-19	--	--	--	-13	--	--	-6	53
Residual Fuel Oil ⁶	--	--	2,824	--	--	--	74	--	78	2,672	289
Less than 0.31 percent sulfur	--	--	1,556	--	--	--	-4	--	NA	NA	28
0.31 to 1.00 percent sulfur	--	--	194	--	--	--	23	--	NA	NA	27
Greater than 1.00 percent sulfur	--	--	1,074	--	--	--	55	--	NA	NA	234
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	69	-69	--
Waxes	--	--	--	--	--	--	--	--	3	-3	--
Petroleum Coke	--	--	6,286	--	-2,504	--	41	--	14	3,727	124
Marketable	--	--	4,384	--	-2,504	--	41	--	14	1,825	124
Catalyst	--	--	1,902	--	--	--	--	--	--	1,902	--
Asphalt and Road Oil	--	--	9,806	247	-4,547	--	-94	--	33	5,567	1,419
Still Gas	--	--	5,529	--	--	--	--	--	--	5,529	--
Miscellaneous Products	--	--	865	8	--	--	4	--	1	868	20
Total	303,218	3,319	162,274	92,817	-223,096	-11,121	-720	155,358	973	171,800	42,728

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biogdiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2018
(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	888	--	--	383	-530	-102	30	609	--	0
Hydrocarbon Gas Liquids	438	0	13	9	-382	--	7	17	2	52
Natural Gas Liquids	438	0	14	9	-382	--	8	17	2	53
Ethane	130	--	--	--	--	--	0	--	--	15
Propane	152	--	8	8	-136	--	2	--	0	30
Normal Butane	61	--	6	1	-51	--	5	5	0	6
Isobutane	28	--	-1	1	-27	--	0	5	--	-5
Natural Gasoline	68	0	--	--	-53	--	-1	6	2	7
Refinery Olefins	--	--	-1	--	--	--	0	--	--	-1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Butylene	--	--	-1	--	--	--	0	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	13	--	5	40	-20	-14	46	0	7
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	0	18	12	3	41	--	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	13	--	0	18	6	3	34	--	0
Fuel Ethanol	--	13	--	--	16	4	1	32	--	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	3	2	2	2	--	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1	--	--	0	-6	0	7
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4	21	-32	-18	11	--	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	21	-32	-18	11	--	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	685	6	-6	29	-24	--	1	737
Finished Motor Gasoline	--	--	338	--	-12	29	0	--	0	355
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	338	--	-12	29	0	--	0	355
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	40	1	26	--	-3	--	--	69
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	201	5	0	1	-12	--	--	218
15 ppm sulfur and under	--	--	199	5	0	1	-11	--	--	216
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	--	2
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	13	--	--	--	1	--	0	11
Less than 0.31 percent sulfur	--	--	7	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	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	--	--	24	--	-5	--	0	--	0	19
Marketable	--	--	15	--	-5	--	0	--	0	10
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	43	0	-15	--	-11	--	0	39
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,326	13	698	403	-878	-92	-1	671	4	796

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2018
(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	828	--	--	366	-522	-53	-1	619	1	0
Hydrocarbon Gas Liquids	420	0	12	11	-384	--	4	19	3	32
Natural Gas Liquids	420	0	11	11	-384	--	4	19	3	31
Ethane	129	--	--	--	--	--	0	--	--	7
Propane	146	--	9	9	-134	--	0	--	0	30
Normal Butane	57	--	3	0	-50	--	4	7	0	-2
Isobutane	26	--	-1	1	-28	--	0	6	--	-8
Natural Gasoline	61	0	--	--	-50	--	0	5	2	3
Refinery Olefins	--	--	1	--	--	--	0	--	--	1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Butylene	--	--	1	--	--	--	0	--	--	1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	3	16	-27	-1	1	0	5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	13	12	0	39	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	13	5	0	32	0	0
Fuel Ethanol	--	14	--	--	12	5	0	30	--	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	1	1	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	0	--	--	2	-7	0	5
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	3	-40	-4	-31	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	3	-40	-4	-31	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	656	3	-28	35	-5	--	1	670
Finished Motor Gasoline	--	--	311	--	-21	35	-1	--	0	326
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	311	--	-21	35	-1	--	0	326
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	37	0	24	--	0	--	--	61
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	204	2	-2	0	-4	--	0	207
15 ppm sulfur and under	--	--	203	2	-2	0	-3	--	0	206
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	0	--	0	--	--	1
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	12	--	--	--	0	--	0	11
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	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	15
Marketable	--	--	18	--	-10	--	0	--	0	8
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	40	1	-19	--	0	--	0	23
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	4	0	--	--	0	--	0	4
Total	1,248	14	668	382	-918	-46	-3	639	4	707

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil.

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

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

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

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

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, August 2018
(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	28,009	--	--	50,669	4,487	-3,287	-417	80,295	--	0	48,722
Hydrocarbon Gas Liquids	1,856	-14	2,580	1,313	788	--	728	2,307	1,857	1,631	5,937
Natural Gas Liquids	1,856	-14	2,376	1,313	788	--	767	2,307	1,857	1,388	5,911
Ethane	1	--	--	--	--	--	--	--	0	1	--
Propane	324	--	1,271	834	373	--	163	--	1,046	1,593	1,897
Normal Butane	178	--	883	423	347	--	642	579	795	-185	3,493
Isobutane	492	--	222	56	68	--	-25	969	--	-106	486
Natural Gasoline	861	-14	--	--	--	--	-13	759	16	85	35
Refinery Olefins	--	--	204	--	--	--	-39	--	--	243	26
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	226	--	--	--	-18	--	--	244	9
Butylene	--	--	-22	--	--	--	-21	--	--	-1	17
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	931	--	5,264	9,772	-2,193	-384	14,536	659	-1,038	51,514
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	931	--	762	5,198	719	425	6,987	198	0	4,145
Hydrogen	--	--	--	--	--	1,333	--	1,333	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	931	--	762	5,198	-614	425	5,654	197	0	4,145
Fuel Ethanol	--	607	--	304	4,731	74	481	5,158	76	0	2,886
Renewable Fuels Except Fuel Ethanol	--	324	--	458	467	-688	-56	496	121	0	1,259
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	3,853	--	--	158	4,680	53	-1,038	19,920
Motor Gasoline Blend Comp. (MGBC)	--	--	--	649	4,574	-2,913	-967	2,869	408	0	27,449
Reformulated	--	--	--	--	2,394	19	-707	3,117	3	0	13,200
Conventional	--	--	--	649	2,180	-2,932	-260	-248	405	0	14,249
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	101,275	4,855	2,090	3,151	-249	--	10,288	101,332	33,548
Finished Motor Gasoline	--	--	51,433	86	202	2,839	214	--	1,830	52,516	2,172
Reformulated	--	--	36,117	--	--	182	1	--	--	36,298	19
Conventional	--	--	15,316	86	202	2,657	213	--	1,830	16,219	2,153
Finished Aviation Gasoline	--	--	40	--	--	--	-16	--	--	56	185
Kerosene-Type Jet Fuel	--	--	16,014	3,358	277	--	85	--	759	18,805	9,092
Kerosene	--	--	2	--	--	--	-1	--	--	3	3
Distillate Fuel Oil	--	--	19,309	409	1,079	312	-228	--	2,797	18,540	12,505
15 ppm sulfur and under	--	--	18,505	409	1,079	312	-185	--	2,108	18,382	11,549
Greater than 15 ppm to 500 ppm sulfur	--	--	416	--	--	--	100	--	12	304	248
Greater than 500 ppm sulfur	--	--	388	--	--	--	-143	--	677	-146	708
Residual Fuel Oil ⁶	--	--	3,116	703	--	--	-57	--	834	3,042	5,009
Less than 0.31 percent sulfur	--	--	2	--	--	--	77	--	NA	NA	213
0.31 to 1.00 percent sulfur	--	--	625	233	--	--	25	--	NA	NA	847
Greater than 1.00 percent sulfur	--	--	2,489	470	--	--	-159	--	NA	NA	3,941
Petrochemical Feedstocks	--	--	3	38	--	--	1	--	--	40	3
Naphtha for Petro. Feed. Use	--	--	3	38	--	--	1	--	--	40	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	34	--	--	--	11	--	--	23	52
Lubricants	--	--	763	21	--	--	-26	--	405	405	1,065
Waxes	--	--	--	15	--	--	--	--	6	9	--
Petroleum Coke	--	--	5,276	35	-25	--	43	--	3,620	1,623	1,617
Marketable	--	--	4,052	35	-25	--	43	--	3,620	399	1,617
Catalyst	--	--	1,224	--	--	--	--	--	--	1,224	--
Asphalt and Road Oil	--	--	919	190	557	--	-279	--	36	1,910	1,746
Still Gas	--	--	3,905	--	--	--	--	--	--	3,905	--
Miscellaneous Products	--	--	461	--	--	--	4	--	0	457	99
Total	29,865	917	103,855	62,101	17,137	-2,329	-322	97,138	12,803	101,926	139,721

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-August 2018
(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	231,421	--	--	327,468	34,521	8,005	-2,284	600,913	2,786	0	48,722
Hydrocarbon Gas Liquids	15,715	-113	16,054	9,407	6,448	--	2,603	19,873	11,145	13,890	5,937
Natural Gas Liquids	15,715	-113	13,860	9,405	6,448	--	2,605	19,873	11,145	11,692	--
Ethane	7	--	--	--	--	--	--	--	0	7	--
Propane	2,477	--	9,120	6,922	2,757	--	436	--	7,924	12,916	--
Normal Butane	2,659	--	3,257	2,215	3,001	--	2,098	6,386	3,107	-459	--
Isobutane	3,101	--	1,483	268	690	--	70	6,731	3	-1,262	--
Natural Gasoline	7,471	-113	--	--	--	--	1	6,756	112	489	--
Refinery Olefins	--	--	2,194	2	--	--	-2	--	--	2,198	--
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	2,273	2	--	--	-18	--	--	2,293	--
Butylene	--	--	-79	--	--	--	16	--	--	-95	--
Isobutylene	--	--	--	--	--	--	0	--	--	0	--
Other Liquids	--	7,224	--	31,022	78,458	-14,722	-3,329	100,895	4,995	-579	51,514
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	7,224	--	3,534	40,369	4,160	417	53,077	1,793	0	4,145
Hydrogen	--	--	--	--	--	10,020	--	10,020	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	7	--	--	7	0	--
Renewable Fuels (including Fuel Ethanol)	--	7,224	--	3,534	40,369	-5,867	417	43,057	1,786	0	4,145
Fuel Ethanol	--	4,939	--	304	37,731	-2,690	334	38,717	1,233	0	2,886
Renewable Fuels Except Fuel Ethanol	--	2,285	--	3,230	2,639	-3,177	83	4,340	554	0	1,259
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	21,384	--	--	12	21,206	745	-579	19,920
Motor Gasoline Blend Comp. (MGBC)	--	--	--	6,104	38,089	-18,882	-3,758	26,612	2,457	0	27,449
Reformulated	--	--	--	951	19,894	-1,656	-3,097	22,270	16	0	13,200
Conventional	--	--	--	5,153	18,195	-17,226	-661	4,342	2,441	0	14,249
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	755,166	33,142	19,747	23,156	-1,419	--	88,034	744,596	33,548
Finished Motor Gasoline	--	--	390,284	1,780	4,362	21,572	268	--	14,983	402,747	2,172
Reformulated	--	--	273,562	--	--	1,269	3	--	--	274,828	19
Conventional	--	--	116,722	1,780	4,362	20,303	265	--	14,983	127,919	2,153
Finished Aviation Gasoline	--	--	346	3	--	--	-45	--	--	394	185
Kerosene-Type Jet Fuel	--	--	116,403	19,027	2,483	--	-1,151	--	6,249	132,815	9,092
Kerosene	--	--	68	--	--	--	-39	--	17	90	3
Distillate Fuel Oil	--	--	135,992	2,819	8,227	1,584	-1,567	--	23,051	127,139	12,505
15 ppm sulfur and under	--	--	130,304	2,783	8,187	1,584	-1,579	--	16,259	128,178	11,549
Greater than 15 ppm to 500 ppm sulfur	--	--	2,429	--	40	--	8	--	1,680	781	248
Greater than 500 ppm sulfur	--	--	3,259	36	--	--	4	--	5,111	-1,820	708
Residual Fuel Oil ⁶	--	--	27,399	7,867	--	--	759	--	8,397	26,110	5,009
Less than 0.31 percent sulfur	--	--	56	--	--	--	46	--	NA	NA	213
0.31 to 1.00 percent sulfur	--	--	5,076	1,403	--	--	327	--	NA	NA	847
Greater than 1.00 percent sulfur	--	--	22,267	6,464	--	--	384	--	NA	NA	3,941
Petrochemical Feedstocks	--	--	20	305	--	--	1	--	--	324	3
Naphtha for Petro. Feed. Use	--	--	20	305	--	--	1	--	--	324	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	292	--	--	--	7	--	--	285	52
Lubricants	--	--	5,257	85	-267	--	50	--	3,004	2,021	1,065
Waxes	--	--	--	250	--	--	--	--	47	203	--
Petroleum Coke	--	--	38,816	210	-161	--	261	--	31,968	6,635	1,617
Marketable	--	--	30,153	210	-161	--	261	--	31,968	-2,028	1,617
Catalyst	--	--	8,663	--	--	--	--	--	--	8,663	--
Asphalt and Road Oil	--	--	6,259	796	5,103	--	60	--	244	11,854	1,746
Still Gas	--	--	30,587	--	--	--	--	--	--	30,587	--
Miscellaneous Products	--	--	3,443	--	--	--	-23	--	74	3,392	99
Total	247,136	7,111	771,220	401,039	139,174	16,440	-4,429	721,681	106,960	757,907	139,721

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, August 2018
(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	904	--	--	1,634	145	-106	-13	2,590	--	0
Hydrocarbon Gas Liquids	60	0	83	42	25	--	23	74	60	53
Natural Gas Liquids	60	0	77	42	25	--	25	74	60	45
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	41	27	12	--	5	--	34	51
Normal Butane	6	--	28	14	11	--	21	19	26	-6
Isobutane	16	--	7	2	2	--	-1	31	--	-3
Natural Gasoline	28	0	--	--	--	--	0	24	1	3
Refinery Olefins	--	--	7	--	--	--	-1	--	--	8
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	7	--	--	--	-1	--	--	8
Butylene	--	--	-1	--	--	--	-1	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	30	--	170	315	-71	-12	469	21	-33
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	25	168	23	14	225	6	0
Hydrogen	--	--	--	--	--	43	--	43	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	30	--	25	168	-20	14	182	6	0
Fuel Ethanol	--	20	--	10	153	2	16	166	2	0
Renewable Fuels Except Fuel Ethanol	--	10	--	15	15	-22	-2	16	4	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	124	--	--	5	151	2	-33
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	21	148	-94	-31	93	13	0
Reformulated	--	--	--	--	77	1	-23	101	0	0
Conventional	--	--	--	21	70	-95	-8	-8	13	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,267	157	67	102	-8	--	332	3,269
Finished Motor Gasoline	--	--	1,659	3	7	92	7	--	59	1,694
Reformulated	--	--	1,165	--	--	6	0	--	--	1,171
Conventional	--	--	494	3	7	86	7	--	59	523
Finished Aviation Gasoline	--	--	1	--	--	--	-1	--	--	2
Kerosene-Type Jet Fuel	--	--	517	108	9	--	3	--	24	607
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	623	13	35	10	-7	--	90	598
15 ppm sulfur and under	--	--	597	13	35	10	-6	--	68	593
Greater than 15 ppm to 500 ppm sulfur	--	--	13	--	--	--	3	--	0	10
Greater than 500 ppm sulfur	--	--	13	--	--	--	-5	--	22	-5
Residual Fuel Oil ⁶	--	--	101	23	--	--	-2	--	27	98
Less than 0.31 percent sulfur	--	--	0	--	--	--	2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	20	8	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	80	15	--	--	-5	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	25	1	--	--	-1	--	13	13
Waxes	--	--	--	0	--	--	--	--	0	0
Petroleum Coke	--	--	170	1	-1	--	1	--	117	52
Marketable	--	--	131	1	-1	--	1	--	117	13
Catalyst	--	--	39	--	--	--	--	--	--	39
Asphalt and Road Oil	--	--	30	6	18	--	-9	--	1	62
Still Gas	--	--	126	--	--	--	--	--	--	126
Miscellaneous Products	--	--	15	--	--	--	0	--	0	15
Total	963	30	3,350	2,003	553	-75	-10	3,133	413	3,288

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-August 2018
(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	952	--	--	1,348	142	33	-9	2,473	11	0
Hydrocarbon Gas Liquids	65	0	66	39	27	--	11	82	46	57
Natural Gas Liquids	65	0	57	39	27	--	11	82	46	48
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	38	28	11	--	2	--	33	53
Normal Butane	11	--	13	9	12	--	9	26	13	-2
Isobutane	13	--	6	1	3	--	0	28	0	-5
Natural Gasoline	31	0	--	--	--	--	0	28	0	2
Refinery Olefins	--	--	9	0	--	--	0	--	--	9
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	9	0	--	--	0	--	--	9
Butylene	--	--	0	--	--	--	0	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	30	--	128	323	-61	-14	415	21	-2
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	15	166	17	2	218	7	0
Hydrogen	--	--	--	--	--	41	--	41	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	30	--	15	166	-24	2	177	7	0
Fuel Ethanol	--	20	--	1	155	-11	1	159	5	0
Renewable Fuels Except Fuel Ethanol	--	9	--	13	11	-13	0	18	2	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	88	--	--	0	87	3	-2
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	25	157	-78	-15	110	10	0
Reformulated	--	--	--	4	82	-7	-13	92	0	0
Conventional	--	--	--	21	75	-71	-3	18	10	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,108	136	81	95	-6	--	362	3,064
Finished Motor Gasoline	--	--	1,606	7	18	89	1	--	62	1,657
Reformulated	--	--	1,126	--	--	5	0	--	--	1,131
Conventional	--	--	480	7	18	84	1	--	62	526
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	479	78	10	--	-5	--	26	547
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	560	12	34	7	-6	--	95	523
15 ppm sulfur and under	--	--	536	11	34	7	-6	--	67	527
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	0	--	0	--	7	3
Greater than 500 ppm sulfur	--	--	13	0	--	--	0	--	21	-7
Residual Fuel Oil ⁶	--	--	113	32	--	--	3	--	35	107
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	21	6	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	92	27	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	22	0	-1	--	0	--	12	8
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	160	1	-1	--	1	--	132	27
Marketable	--	--	124	1	-1	--	1	--	132	-8
Catalyst	--	--	36	--	--	--	--	--	--	36
Asphalt and Road Oil	--	--	26	3	21	--	0	--	1	49
Still Gas	--	--	126	--	--	--	--	--	--	126
Miscellaneous Products	--	--	14	--	--	--	0	--	0	14
Total	1,017	29	3,174	1,650	573	68	-18	2,970	440	3,119

-- = 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 Net receipts equal gross receipts minus gross shipments by pipeline, tanker, and barge. Receipts and shipments by rail are included for crude oil, propane, normal butane, isobutane, propylene, ethanol, biogiesel, marketable petroleum coke, and asphalt and road oil

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

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

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

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

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, August 2018
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,864	64,135	230,186	27,518	28,009	351,711	11,346
Alaskan	--	--	--	--	--	13,259	428
Lower 48 States	--	--	--	--	--	338,452	10,918
Imports (PAD District of Entry)	22,360	84,906	78,202	11,865	50,669	248,002	8,000
Commercial	22,360	84,906	78,202	11,865	50,669	248,002	8,000
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	5,413	-7,830	14,360	-16,430	4,487	--	--
Adjustments ¹	3,765	-11,723	12,414	-3,149	-3,287	-1,980	-64
Disposition							
Stock Change ²	-557	3,338	-5,773	936	-417	-2,473	-80
Commercial	--	--	-5,771	--	--	-2,471	-80
SPR	--	--	-2	--	--	-2	0
Refinery Inputs	33,108	123,851	289,856	18,868	80,295	545,978	17,612
Exports	850	2,299	51,079	--	--	54,228	1,749
Ending Stocks							
Total	11,359	110,588	874,041	22,155	48,722	1,066,865	--
Commercial	11,359	110,588	214,030	22,155	48,722	406,854	--
Refinery	9,312	13,707	49,961	2,499	23,621	99,100	--
Tank Farms and Pipelines	2,047	96,881	164,069	19,656	21,604	304,257	--
Cushing, Oklahoma	--	24,987	--	--	--	24,987	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	3,497	3,497	--
SPR	--	--	660,011	--	--	660,011	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	61.9	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	34.9	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	195	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	22,360	84,906	78,202	11,865	50,669	248,002	8,000
PAD District of Processing	24,076	74,259	88,646	9,581	51,440	248,002	8,000

-- = Not Applicable.

-- = No Data Reported.

¹ Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).
Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

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

Table 26. Production of Crude Oil by PAD District and State, August 2018
(Thousand Barrels)

PAD District and State	August 2018		January-August 2018	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,864	60	13,072	54
Florida	118	4	1,201	5
New York	16	1	122	1
Pennsylvania	515	17	4,303	18
Virginia	0	0	2	0
West Virginia	1,215	39	7,444	31
PAD District 2	64,135	2,069	475,180	1,955
Illinois	763	25	5,534	23
Indiana	146	5	1,116	5
Kansas	2,984	96	23,290	96
Kentucky	174	6	1,433	6
Michigan	473	15	3,628	15
Missouri	8	0	65	0
Nebraska	186	6	1,338	6
North Dakota	39,661	1,279	293,415	1,207
Ohio	2,170	70	14,203	58
Oklahoma	17,445	563	130,170	536
South Dakota	105	3	847	3
Tennessee	20	1	140	1
PAD District 3	230,186	7,425	1,649,516	6,788
Alabama	514	17	4,004	16
Arkansas	426	14	3,307	14
Louisiana	3,962	128	31,186	128
Mississippi	1,502	48	11,457	47
New Mexico	22,449	724	155,042	638
Texas	141,874	4,577	1,033,644	4,254
Federal Offshore PAD District 3	59,459	1,918	410,876	1,691
PAD District 4	27,518	888	201,233	828
Colorado	14,776	477	107,140	441
Idaho	13	0	84	0
Montana	1,901	61	13,816	57
Utah	3,198	103	24,302	100
Wyoming	7,630	246	55,891	230
PAD District 5	28,009	904	231,421	952
Alaska	13,259	428	115,298	474
South Alaska	416	13	3,698	15
North Slope	12,843	414	111,600	459
Arizona	1	0	8	0
California	14,299	461	112,412	463
Nevada	20	1	166	1
Federal Offshore PAD District 5	430	14	3,537	15
U.S. Total	351,711	11,346	2,570,422	10,578

- = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.
Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, August 2018
(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	10	16,383	16,393	5,663	8,146	16,813	30,622
Natural Gas Liquids	10	16,383	16,393	5,663	8,146	16,813	30,622
Ethane	-	7,274	7,274	1,803	1,611	7,264	10,678
Propane	3	5,199	5,202	2,431	3,264	5,002	10,697
Normal Butane	7	1,586	1,593	426	1,504	1,600	3,530
Isobutane	-	786	786	540	391	1,014	1,945
Natural Gasoline	-	1,538	1,538	463	1,376	1,933	3,772

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	58,718	5,536	6,700	952	7,302	79,208	13,591	1,856	141,670
Natural Gas Liquids	58,718	5,536	6,700	952	7,302	79,208	13,591	1,856	141,670
Ethane	24,538	2,397	2,637	347	3,005	32,924	4,039	1	54,916
Propane	17,788	1,630	2,160	202	2,254	24,034	4,716	324	44,973
Normal Butane	6,083	-3,105	757	80	709	4,524	1,881	178	11,706
Isobutane	3,534	4,041	439	76	492	8,582	860	492	12,665
Natural Gasoline	6,775	573	707	247	842	9,144	2,095	861	17,410

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	5	216	221	1,257	154	845	2,256
Natural Gas Liquids	5	216	221	1,257	154	845	2,256
Ethane	-	-	-	95	-	214	309
Propane	2	103	105	701	58	257	1,016
Normal Butane	3	51	54	205	31	169	405
Isobutane	-	10	10	186	7	96	289
Natural Gasoline	-	52	52	70	58	109	237

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	167	700	1,443	26	-	2,336	129	643	5,585
Natural Gas Liquids	167	700	1,443	26	-	2,336	129	643	5,585
Ethane	44	178	-	-	-	222	2	-	533
Propane	35	289	30	19	-	373	47	13	1,554
Normal Butane	47	133	1,140	5	-	1,325	27	528	2,339
Isobutane	16	19	167	-	-	202	14	76	591
Natural Gasoline	25	81	106	2	-	214	39	26	568

- = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2018
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	30,030	3,078	33,108	79,720	15,652	28,479	123,851
Hydrocarbon Gas Liquids	902	-	902	1,688	50	966	2,704
Natural Gas Liquids	902	-	902	1,688	50	966	2,704
Normal Butane	271	-	271	5	1	35	41
Isobutane	520	-	520	1,109	45	433	1,587
Natural Gasoline	111	-	111	574	4	498	1,076
Other Liquids	81,960	6,944	88,904	13,228	4,358	3,018	20,604
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	10,350	874	11,224	6,180	1,729	1,956	9,865
Hydrogen	96	10	106	706	271	177	1,154
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	10,254	864	11,118	5,433	1,458	1,779	8,670
Fuel Ethanol	10,036	795	10,831	5,146	1,168	1,704	8,018
Renewable Diesel Fuel ²	218	69	287	287	290	75	652
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	41	-	-	41
Unfinished Oils (net)	1,079	-66	1,013	403	-368	-374	-339
Naphthas and Lighter	805	-24	781	225	-152	-9	64
Kerosene and Light Gas Oils	211	-	211	-351	-113	-193	-657
Heavy Gas Oils	44	-41	3	424	-103	-60	261
Residuum	19	-1	18	105	-	-112	-7
Motor Gasoline Blend.Comp. (MGBC)(net)	70,531	6,136	76,667	6,645	2,997	1,436	11,078
Reformulated - RBOB	17,786	216	18,002	-1,002	1,438	1,180	1,616
Conventional	52,745	5,920	58,665	7,647	1,559	256	9,462
CBOB	41,453	5,913	47,366	8,188	1,495	77	9,760
GTAB	5,989	-	5,989	-	-	-	-
Other	5,303	7	5,310	-541	64	179	-298
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	112,892	10,022	122,914	94,636	20,060	32,463	147,159

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2018
(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	22,359	148,899	107,312	7,143	4,143	289,856	18,868	80,295	545,978
Hydrocarbon Gas Liquids	430	4,628	3,953	37	151	9,199	517	2,307	15,629
Natural Gas Liquids	430	4,628	3,953	37	151	9,199	517	2,307	15,629
Normal Butane	154	1,027	50	3	—	1,234	167	579	2,292
Isobutane	114	1,960	1,626	31	151	3,882	162	969	7,120
Natural Gasoline	162	1,641	2,277	3	—	4,083	188	759	6,217
Other Liquids	9,624	-41,828	-29,172	7,967	-124	-53,533	1,412	14,536	71,923
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,264	3,524	2,148	1,170	246	9,352	1,264	6,987	38,692
Hydrogen	22	2,549	1,643	60	45	4,319	204	1,333	7,116
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,242	975	505	1,110	201	5,033	1,060	5,654	31,535
Fuel Ethanol	2,111	882	491	1,053	178	4,715	996	5,158	29,718
Renewable Diesel Fuel ²	131	93	14	57	23	318	64	494	1,815
Other Renewable Fuels	—	—	—	—	—	—	—	2	2
Other Hydrocarbons	—	—	—	—	—	—	—	—	41
Unfinished Oils (net)	200	-807	9,681	-12	42	9,104	-192	4,680	14,266
Naphthas and Lighter	-64	-6,006	625	-14	12	-5,447	-107	242	-4,467
Kerosene and Light Gas Oils	143	-1,102	823	18	-5	-123	-301	-286	-1,156
Heavy Gas Oils	42	6,494	8,543	42	35	15,156	296	3,999	19,715
Residuum	79	-193	-310	-58	—	-482	-80	725	174
Motor Gasoline Blend.Comp. (MGBC)(net)	7,114	-44,545	-40,992	6,809	-412	-72,026	340	2,869	18,928
Reformulated - RBOB	5,737	-9,626	-6,026	—	-653	-10,568	—	3,117	12,167
Conventional	1,377	-34,919	-34,966	6,809	241	-61,458	340	-248	6,761
CBOB	1,416	-34,891	-33,370	6,812	187	-59,846	206	-55	-2,569
GTAB	—	—	—	—	—	—	—	—	5,989
Other	-39	-28	-1,596	-3	54	-1,612	134	-193	3,341
Aviation Gasoline Blend. Comp. (net)	46	—	-9	—	—	37	—	—	37
Total Input	32,413	111,699	82,093	15,147	4,170	245,522	20,797	97,138	633,530

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Note: Refer to Appendix A for Refining District descriptions.

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

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, August 2018
(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	1,377	81	1,458	4,272	618	692	5,582
Natural Gas Liquids	1,153	81	1,234	3,212	478	436	4,126
Ethane	-	-	-	-	-	-	-
Propane	609	27	636	1,607	284	425	2,316
Normal Butane	530	66	596	1,648	195	56	1,899
Isobutane	14	-12	2	-43	-1	-45	-89
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	224	-	224	1,060	140	256	1,456
Ethylene	6	-	6	-	-	-	-
Propylene	250	-	250	939	137	266	1,342
Butylene	-50	-	-50	121	3	-	124
Isobutylene	18	-	18	-	-	-10	-10
Finished Motor Gasoline	95,741	7,999	103,740	54,412	11,598	17,854	83,864
Reformulated	41,322	240	41,562	8,352	1,599	1,311	11,262
Reformulated Blended with Fuel Ethanol	41,322	240	41,562	8,352	1,599	1,311	11,262
Reformulated Other	-	-	-	-	-	-	-
Conventional	54,419	7,759	62,178	46,060	9,999	16,543	72,602
Conventional Blended with Fuel Ethanol	57,893	7,715	65,608	42,512	10,371	15,053	67,936
Ed55 and Lower	57,838	7,715	65,553	42,501	10,331	14,971	67,803
Greater than Ed55	55	-	55	11	40	82	133
Conventional Other	-3,474	44	-3,430	3,548	-372	1,490	4,666
Finished Aviation Gasoline	-	-	-	-	74	-	74
Kerosene-Type Jet Fuel	3,357	-	3,357	6,936	1,077	1,033	9,046
Kerosene	216	-	216	168	-	8	176
Distillate Fuel Oil	8,505	841	9,346	19,887	4,769	10,974	35,630
15 ppm sulfur and under	8,165	770	8,935	19,924	4,768	11,083	35,775
Greater than 15 ppm to 500 ppm sulfur	129	58	187	-69	-	56	-13
Greater than 500 ppm sulfur	211	13	224	32	1	-165	-132
Residual Fuel Oil	1,613	-	1,613	1,314	210	117	1,641
Less than 0.31 percent sulfur	560	-	560	50	-	-	50
0.31 to 1.00 percent sulfur	545	-	545	168	64	-	232
Greater than 1.00 percent sulfur	508	-	508	1,096	146	117	1,359
Petrochemical Feedstocks	100	-	100	1,008	-	50	1,058
Naphtha for Petro. Feed. Use	100	-	100	735	-	-	735
Other Oils for Petro. Feed. Use	-	-	-	273	-	50	323
Special Naphthas	-	23	23	45	-	14	59
Lubricants	216	195	411	-	-	274	274
Waxes	-	14	14	-	-	36	36
Petroleum Coke	954	20	974	4,160	1,264	913	6,337
Marketable	391	-	391	2,987	1,095	725	4,807
Catalyst	563	20	583	1,173	169	188	1,530
Asphalt and Road Oil	652	714	1,366	3,770	1,351	486	5,607
Still Gas	1,303	54	1,357	2,965	634	1,109	4,708
Miscellaneous Products	81	22	103	318	119	58	495
Total	114,115	9,963	124,078	99,255	21,714	33,618	154,587
Processing Gain(-) or Loss(+) ¹	-1,223	59	-1,164	-4,619	-1,654	-1,155	-7,428

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, August 2018
(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	1,081	9,479	6,542	75	87	17,264	411	2,580	27,295
Natural Gas Liquids	622	5,495	3,486	40	87	9,730	437	2,376	17,903
Ethane	2	164	123	-	-	289	-	-	289
Propane	334	2,506	2,244	13	41	5,138	255	1,271	9,616
Normal Butane	338	3,241	821	27	30	4,457	201	883	8,036
Isobutane	-52	-416	298	-	16	-154	-19	222	-38
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	459	3,984	3,056	35	-	7,534	-26	204	9,392
Ethylene	-	-	-	-	-	-	-	-	6
Propylene	458	3,808	2,973	35	-	7,274	3	226	9,095
Butylene	1	197	83	-	-	281	-29	-22	304
Isobutylene	-	-21	-	-	-	-21	-	-	-13
Finished Motor Gasoline	21,660	22,378	12,246	9,786	1,942	68,012	10,472	51,433	317,521
Reformulated	8,007	6,894	-	-	-	14,901	-	36,117	103,842
Reformulated Blended with Fuel Ethanol	8,007	6,894	-	-	-	14,901	-	36,117	103,842
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	13,653	15,484	12,246	9,786	1,942	53,111	10,472	15,316	213,679
Conventional Blended with Fuel Ethanol	12,770	1,729	4,938	10,501	1,766	31,704	9,896	15,147	190,291
Ed55 and Lower	12,750	1,729	4,938	10,485	1,766	31,668	9,880	15,142	190,046
Greater than Ed55	20	-	-	16	-	36	16	5	245
Conventional Other	883	13,755	7,308	-715	176	21,407	576	169	23,388
Finished Aviation Gasoline	90	109	52	-	-	251	8	40	373
Kerosene-Type Jet Fuel	1,700	16,441	12,734	76	-	30,951	1,228	16,014	60,596
Kerosene	-14	-	6	2	-	-6	-	2	388
Distillate Fuel Oil	6,923	47,857	36,515	2,815	1,810	95,920	6,225	19,309	166,430
15 ppm sulfur and under	6,923	45,717	31,610	2,662	1,810	88,722	6,183	18,505	158,120
Greater than 15 ppm to 500 ppm sulfur	-	207	1,951	47	-	2,205	34	416	2,829
Greater than 500 ppm sulfur	-	1,933	2,954	106	-	4,993	8	388	5,481
Residual Fuel Oil	275	803	4,267	-55	80	5,370	391	3,116	12,131
Less than 0.31 percent sulfur	239	68	1,011	-	-	1,318	203	2	2,133
0.31 to 1.00 percent sulfur	-	189	430	-55	23	587	40	625	2,029
Greater than 1.00 percent sulfur	36	546	2,826	-	57	3,465	148	2,489	7,969
Petrochemical Feedstocks	136	6,371	3,608	3	-	10,118	-	3	11,279
Naphtha for Petro. Feed. Use	123	4,353	1,929	3	-	6,408	-	3	7,246
Other Oils for Petro. Feed. Use	13	2,018	1,679	-	-	3,710	-	-	4,033
Special Naphthas	101	578	-	219	-	898	-	34	1,014
Lubricants	25	1,925	1,571	706	-	4,227	-	763	5,675
Waxes	-	45	41	23	-	109	-	-	159
Petroleum Coke	489	9,174	6,411	131	79	16,284	738	5,276	29,609
Marketable	209	7,055	5,104	117	-	12,485	476	4,052	22,211
Catalyst	280	2,119	1,307	14	79	3,799	262	1,224	7,398
Asphalt and Road Oil	226	473	1,025	929	117	2,770	1,344	919	12,006
Still Gas	833	6,427	4,622	219	78	12,179	700	3,905	22,849
Miscellaneous Products	136	1,132	589	19	65	1,941	123	461	3,123
Total	33,661	123,192	90,229	14,948	4,258	266,288	21,640	103,855	670,448
Processing Gain(-) or Loss(+) ¹	-1,248	-11,493	-8,136	199	-88	-20,766	-843	-6,717	-36,918

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2018
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	30,030	3,078	33,108	79,720	15,652	28,479	123,851
Hydrocarbon Gas Liquids	521	-	521	1,680	45	897	2,622
Natural Gas Liquids	521	-	521	1,680	45	897	2,622
Normal Butane	1	-	1	-	-	6	6
Isobutane	520	-	520	1,109	45	433	1,587
Natural Gasoline	-	-	-	571	-	458	1,029
Other Liquids	-12,936	136	-12,800	-34,571	-5,423	-11,846	-51,840
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	165	156	321	989	469	311	1,769
Hydrogen	96	10	106	706	271	177	1,154
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	69	146	215	242	198	134	574
Fuel Ethanol	69	117	186	159	111	112	382
Renewable Diesel Fuel ²	-	29	29	83	87	22	192
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	41	-	-	41
Unfinished Oils (net)	1,079	-66	1,013	276	-368	-374	-466
Naphthas and Lighter	805	-24	781	225	-152	-9	64
Kerosene and Light Gas Oils	211	-	211	-351	-113	-193	-657
Heavy Gas Oils	44	-41	3	424	-103	-60	261
Residuum	19	-1	18	-22	-	-112	-134
Motor Gasoline Blend.Comp. (MGBC)(net)	-14,180	46	-14,134	-35,836	-5,524	-11,783	-53,143
Reformulated - RBOB	-8,794	-	-8,794	-8,476	-	-	-8,476
Conventional	-5,386	46	-5,340	-27,360	-5,524	-11,783	-44,667
CBOB	-5,148	39	-5,109	-26,815	-5,588	-11,969	-44,372
GTAB	-	-	-	-	-	-	-
Other	-238	7	-231	-545	64	186	-295
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	17,615	3,214	20,829	46,829	10,274	17,530	74,633
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	969	102	1,070	2,562	506	920	3,988
Operable Capacity (daily average)	1,125	98	1,224	2,640	540	912	4,092
Operable Utilization Rate (percent) ³	86.1	103.3	87.5	97.1	93.7	100.9	97.5
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	175	18	193	469	73	169	712
Catalytic Cracking	346	16	362	800	140	226	1,166
Catalytic Hydrocracking	38	-	38	221	51	61	333
Delayed and Fluid Coking	52	-	52	357	68	91	515
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	1.03	1.72	1.09	1.62	1.91	0.74	1.45
API Gravity, Weighted Average (degrees)	34.91	32.13	34.64	32.18	28.13	37.71	32.88
Operable Capacity (daily average)	1,125	98	1,224	2,640	540	912	4,092
Operating	1,125	98	1,224	2,613	502	912	4,027
Idle	-	-	-	28	38	-	66
Alaskan Crude Oil Receipts	-	-	-	-	-	-	-

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2018
(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	22,359	148,899	107,312	7,143	4,143	289,856	18,868	80,295	545,978
Hydrocarbon Gas Liquids	429	3,937	3,941	34	151	8,492	479	2,303	14,417
Natural Gas Liquids	429	3,937	3,941	34	151	8,492	479	2,303	14,417
Normal Butane	154	934	38	—	—	1,126	153	575	1,861
Isobutane	114	1,960	1,626	31	151	3,882	156	969	7,114
Natural Gasoline	161	1,043	2,277	3	—	3,484	170	759	5,442
Other Liquids	-8,801	-52,478	-32,223	-1,470	-1,309	-96,281	-3,856	-33,918	-198,695
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	317	2,617	1,844	109	110	4,997	560	1,622	9,269
Hydrogen	22	2,549	1,643	60	45	4,319	204	1,333	7,116
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	295	68	201	49	65	678	356	289	2,112
Fuel Ethanol	222	51	187	25	56	541	306	97	1,512
Renewable Diesel Fuel ²	73	17	14	24	9	137	50	192	600
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	41
Unfinished Oils (net)	200	-411	9,697	-12	42	9,516	-192	4,680	14,551
Naphthas and Lighter	-64	-6,006	625	-14	12	-5,447	-107	242	-4,467
Kerosene and Light Gas Oils	143	-706	808	18	-5	258	-301	-286	-775
Heavy Gas Oils	42	6,494	8,574	42	35	15,187	296	3,999	19,746
Residium	79	-193	-310	-58	—	-482	-80	725	47
Motor Gasoline Blend.Comp. (MGBC)(net)	-9,364	-54,684	-43,755	-1,567	-1,461	-110,831	-4,224	-40,220	-222,552
Reformulated - RBOB	-1,481	-14,883	-6,026	—	-653	-23,043	—	-28,784	-69,097
Conventional	-7,883	-39,801	-37,729	-1,567	-808	-87,788	-4,224	-11,436	-153,455
CBOB	-7,844	-34,013	-35,031	-1,548	-855	-79,291	-4,356	-11,229	-144,357
GTAB	—	—	—	—	—	—	—	—	—
Other	-39	-5,788	-2,698	-19	47	-8,497	132	-207	-9,098
Aviation Gasoline Blend. Comp. (net)	46	—	-9	—	—	37	—	—	37
Total Input to Refineries	13,987	100,358	79,030	5,707	2,985	202,067	15,491	48,680	361,700
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	724	4,885	3,566	212	134	9,520	605	2,790	17,973
Operable Capacity (daily average)	747	4,955	3,671	256	137	9,765	683	2,838	18,601
Operable Utilization Rate (percent) ³	96.9	98.6	97.1	82.7	97.8	97.5	88.6	98.3	96.6
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	164	735	622	34	29	1,585	94	439	3,023
Catalytic Cracking	199	1,431	1,068	17	30	2,744	165	790	5,227
Catalytic Hydrocracking	49	587	435	17	18	1,106	24	525	2,026
Delayed and Fluid Coking	27	837	568	19	—	1,451	54	518	2,590
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.53	1.62	1.45	1.51	0.69	1.45	1.47	1.37	1.42
API Gravity, Weighted Average (degrees)	39.54	31.60	30.98	31.30	38.99	32.10	31.69	28.10	31.80
Operable Capacity (daily average)	747	4,955	3,671	256	137	9,765	683	2,838	18,601
Operating	747	4,955	3,671	256	137	9,765	673	2,832	18,520
Idle	—	—	—	—	—	—	10	6	81
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	11,424	11,424

— = No Data Reported.

NA = Not Available.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

³ Represents gross input divided by operable calendar day capacity.

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

Note: Refer to Appendix A for Refining District descriptions.

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

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, August 2018
(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	1,377	81	1,458	4,272	618	692	5,582
Natural Gas Liquids	1,153	81	1,234	3,212	478	436	4,126
Ethane	-	-	-	-	-	-	-
Propane	609	27	636	1,607	284	425	2,316
Normal Butane	530	66	596	1,648	195	56	1,899
Isobutane	14	-12	2	-43	-1	-45	-89
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	224	-	224	1,060	140	256	1,456
Ethylene	6	-	6	-	-	-	-
Propylene	250	-	250	939	137	266	1,342
Butylene	-50	-	-50	121	3	-	124
Isobutylene	18	-	18	-	-	-10	-10
Finished Motor Gasoline	688	1,228	1,916	6,937	2,012	2,967	11,916
Reformulated	688	-	688	-	-	-	-
Reformulated Blended with Fuel Ethanol	688	-	688	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,228	1,228	6,937	2,012	2,967	11,916
Conventional Blended with Fuel Ethanol	-	1,177	1,177	1,611	1,581	1,139	4,331
Ed55 and Lower	-	1,177	1,177	1,611	1,581	1,139	4,331
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	51	51	5,326	431	1,828	7,585
Finished Aviation Gasoline	-	-	-	-	74	-	74
Kerosene-Type Jet Fuel	3,357	-	3,357	6,942	1,079	1,034	9,055
Kerosene	216	-	216	168	-	8	176
Distillate Fuel Oil	8,301	805	9,106	19,678	4,569	10,929	35,176
15 ppm sulfur and under	7,925	734	8,659	19,715	4,568	11,038	35,321
Greater than 15 ppm to 500 ppm sulfur	89	58	147	-69	-	-46	-115
Greater than 500 ppm sulfur	287	13	300	32	1	-63	-30
Residual Fuel Oil	1,606	-	1,606	1,314	210	117	1,641
Less than 0.31 percent sulfur	567	-	567	50	-	-	50
0.31 to 1.00 percent sulfur	544	-	544	168	64	-	232
Greater than 1.00 percent sulfur	495	-	495	1,096	146	117	1,359
Petrochemical Feedstocks	100	-	100	1,008	-	50	1,058
Naphtha for Petro. Feed. Use	100	-	100	735	-	-	735
Other Oils for Petro. Feed. Use	-	-	-	273	-	50	323
Special Naphthas	-	23	23	45	-	14	59
Lubricants	216	195	411	-	-	274	274
Waxes	-	14	14	-	-	36	36
Petroleum Coke	954	20	974	4,160	1,264	913	6,337
Marketable	391	-	391	2,987	1,095	725	4,807
Catalyst	563	20	583	1,173	169	188	1,530
Asphalt and Road Oil	652	714	1,366	3,643	1,349	484	5,476
Still Gas	1,303	54	1,357	2,965	634	1,109	4,708
Miscellaneous Products	81	22	103	318	119	58	495
Total	18,851	3,156	22,007	51,450	11,928	18,685	82,063
Processing Gain(-) or Loss(+) ¹	-1,236	58	-1,178	-4,621	-1,654	-1,155	-7,430

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, August 2018
(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	1,081	9,479	6,542	75	87	17,264	411	2,580	27,295	
Natural Gas Liquids	622	5,495	3,486	40	87	9,730	437	2,376	17,903	
Ethane	2	164	123	—	—	289	—	—	289	
Propane	334	2,506	2,244	13	41	5,138	255	1,271	9,616	
Normal Butane	338	3,241	821	27	30	4,457	201	883	8,036	
Isobutane	-52	-416	298	—	16	-154	-19	222	-38	
Natural Gasoline	—	—	—	—	—	—	—	—	—	
Refinery Olefins	459	3,984	3,056	35	—	7,534	-26	204	9,392	
Ethylene	—	—	—	—	—	—	—	—	6	
Propylene	458	3,808	2,973	35	—	7,274	3	226	9,095	
Butylene	1	197	83	—	—	281	-29	-22	304	
Isobutylene	—	-21	—	—	—	-21	—	—	-13	
Finished Motor Gasoline	3,294	10,716	9,166	382	772	24,330	5,178	3,277	46,617	
Reformulated	—	—	—	—	—	—	—	—	635	
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	635	
Reformulated Other	—	—	—	—	—	—	—	—	—	
Conventional	3,294	10,716	9,166	382	772	24,330	5,178	2,642	45,294	
Conventional Blended with Fuel Ethanol	2,146	511	1,889	302	561	5,409	3,107	331	14,355	
Ed55 and Lower	2,140	511	1,889	302	561	5,403	3,107	331	14,349	
Greater than Ed55	6	—	—	—	—	6	—	—	6	
Conventional Other	1,148	10,205	7,277	80	211	18,921	2,071	2,311	30,939	
Finished Aviation Gasoline	90	109	52	—	—	251	8	40	373	
Kerosene-Type Jet Fuel	1,700	16,442	12,723	76	—	30,941	1,130	16,017	60,500	
Kerosene	-14	—	5	2	—	-7	—	0	385	
Distillate Fuel Oil	6,865	47,829	36,527	2,782	1,794	95,797	6,310	19,005	165,394	
15 ppm sulfur and under	6,865	45,642	31,622	2,629	1,794	88,552	6,268	18,208	157,008	
Greater than 15 ppm to 500 ppm sulfur	—	207	1,951	47	—	2,205	34	416	2,687	
Greater than 500 ppm sulfur	—	1,980	2,954	106	—	5,040	8	381	5,699	
Residual Fuel Oil	275	1,152	4,405	-55	80	5,857	391	3,114	12,609	
Less than 0.31 percent sulfur	239	30	1,011	—	—	1,280	203	—	2,100	
0.31 to 1.00 percent sulfur	—	174	430	-55	23	572	40	625	2,013	
Greater than 1.00 percent sulfur	36	948	2,964	—	57	4,005	148	2,489	8,496	
Petrochemical Feedstocks	136	6,371	3,608	3	—	10,118	—	3	11,279	
Naphtha for Petro. Feed. Use	123	4,353	1,929	3	—	6,408	—	3	7,246	
Other Oils for Petro. Feed. Use	13	2,018	1,679	—	—	3,710	—	—	4,033	
Special Naphthas	101	578	—	219	—	898	—	34	1,014	
Lubricants	25	1,925	1,571	706	—	4,227	—	763	5,675	
Waxes	—	45	41	23	—	109	—	—	159	
Petroleum Coke	489	9,174	6,411	131	79	16,284	738	5,276	29,609	
Marketable	209	7,055	5,104	117	—	12,485	476	4,052	22,211	
Catalyst	280	2,119	1,307	14	79	3,799	262	1,224	7,398	
Asphalt and Road Oil	226	473	903	929	117	2,648	1,344	919	11,753	
Still Gas	833	6,427	4,622	219	78	12,179	700	3,905	22,849	
Miscellaneous Products	136	1,132	589	19	65	1,941	123	461	3,123	
Total	15,237	111,852	87,165	5,511	3,072	222,837	16,333	55,394	398,634	
Processing Gain(-) or Loss(+) ¹	-1,250	-11,494	-8,135	196	-87	-20,770	-842	-6,714	-36,934	

— = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 32. Blender Net Inputs of Petroleum Products by PAD District, August 2018
(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	381	-	381	8	5	69	82
Natural Gas Liquids	381	-	381	8	5	69	82
Normal Butane	270	-	270	5	1	29	35
Isobutane	-	-	-	-	-	-	-
Natural Gasoline	111	-	111	3	4	40	47
Other Liquids	94,896	6,808	101,704	47,799	9,781	14,864	72,444
Oxygenates/Renewables	10,185	718	10,903	5,191	1,260	1,645	8,096
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	10,185	718	10,903	5,191	1,260	1,645	8,096
Fuel Ethanol	9,967	678	10,645	4,987	1,057	1,592	7,636
Renewable Diesel Fuel ²	218	40	258	204	203	53	460
Other Renewable Fuels	-	-	-	-	-	-	-
Unfinished Oils (net)	-	-	-	127	-	-	127
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	127	-	-	127
Motor Gasoline Blend.Comp. (MGBC)(net)	84,711	6,090	90,801	42,481	8,521	13,219	64,221
Reformulated - RBOB	26,580	216	26,796	7,474	1,438	1,180	10,092
Conventional	58,131	5,874	64,005	35,007	7,083	12,039	54,129
CBOB	46,601	5,874	52,475	35,003	7,083	12,046	54,132
GTAB	5,989	-	5,989	-	-	-	-
Other	5,541	-	5,541	4	-	-7	-3
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	95,277	6,808	102,085	47,807	9,786	14,933	72,526

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	1	691	12	3	-	707	38	4	1,212
Natural Gas Liquids	1	691	12	3	-	707	38	4	1,212
Normal Butane	-	93	12	3	-	108	14	4	431
Isobutane	-	-	-	-	-	-	6	-	6
Natural Gasoline	1	598	-	-	-	599	18	-	775
Other Liquids	18,425	10,650	3,051	9,437	1,185	42,748	5,268	48,454	270,618
Oxygenates/Renewables	1,947	907	304	1,061	136	4,355	704	5,365	29,423
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	1,947	907	304	1,061	136	4,355	704	5,365	29,423
Fuel Ethanol	1,889	831	304	1,028	122	4,174	690	5,061	28,206
Renewable Diesel Fuel ²	58	76	-	33	14	181	14	302	1,215
Other Renewable Fuels	-	-	-	-	-	-	-	2	2
Unfinished Oils (net)	-	-396	-16	-	-	-412	-	-	-285
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-396	15	-	-	-381	-	-	-381
Heavy Gas Oils	-	-	-31	-	-	-31	-	-	-31
Residuum	-	-	-	-	-	-	-	-	127
Motor Gasoline Blend.Comp. (MGBC)(net)	16,478	10,139	2,763	8,376	1,049	38,805	4,564	43,089	241,480
Reformulated - RBOB	7,218	5,257	-	-	-	12,475	-	31,901	81,264
Conventional	9,260	4,882	2,763	8,376	1,049	26,330	4,564	11,188	160,216
CBOB	9,260	-878	1,661	8,360	1,042	19,445	4,562	11,174	141,788
GTAB	-	-	-	-	-	-	-	-	5,989
Other	-	5,760	1,102	16	7	6,885	2	14	12,439
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	18,426	11,341	3,063	9,440	1,185	43,455	5,306	48,458	271,830

- = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 33. Blender Net Production of Petroleum Products by PAD District, August 2018
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	95,053	6,771	101,824	47,475	9,586	14,887	71,948
Reformulated	40,634	240	40,874	8,352	1,599	1,311	11,262
Reformulated Blended with Fuel Ethanol	40,634	240	40,874	8,352	1,599	1,311	11,262
Reformulated Other	-	-	-	-	-	-	-
Conventional	54,419	6,531	60,950	39,123	7,987	13,576	60,686
Conventional Blended with Fuel Ethanol	57,893	6,538	64,431	40,901	8,790	13,914	63,605
Ed55 and Lower	57,838	6,538	64,376	40,890	8,750	13,832	63,472
Greater than Ed55	55	-	55	11	40	82	133
Conventional Other	-3,474	-7	-3,481	-1,778	-803	-338	-2,919
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	-	-	-6	-2	-1	-9
Kerosene	-	-	-	-	-	-	-
Distillate Fuel Oil	204	36	240	209	200	45	454
15 ppm sulfur and under	240	36	276	209	200	45	454
Greater than 15 ppm to 500 ppm sulfur	40	-	40	-	-	102	102
Greater than 500 ppm sulfur	-76	-	-76	-	-	-102	-102
Residual Fuel Oil	7	-	7	-	-	-	-
Less than 0.31 percent sulfur	-7	-	-7	-	-	-	-
0.31 to 1.00 percent sulfur	1	-	1	-	-	-	-
Greater than 1.00 percent sulfur	13	-	13	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	127	2	2	131
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	95,264	6,807	102,071	47,805	9,786	14,933	72,524
Processing Gain(-) or Loss(+) ¹	13	1	14	2	0	0	2

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	18,366	11,662	3,080	9,404	1,170	43,682	5,294	48,156	270,904
Reformulated	8,007	6,894	-	-	-	14,901	-	35,482	102,519
Reformulated Blended with Fuel Ethanol	8,007	6,894	-	-	-	14,901	-	35,482	102,519
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	10,359	4,768	3,080	9,404	1,170	28,781	5,294	12,674	168,385
Conventional Blended with Fuel Ethanol	10,624	1,218	3,049	10,199	1,205	26,295	6,789	14,816	175,936
Ed55 and Lower	10,610	1,218	3,049	10,183	1,205	26,265	6,773	14,811	175,697
Greater than Ed55	14	-	-	16	-	30	16	5	239
Conventional Other	-265	3,550	31	-795	-35	2,486	-1,495	-2,142	-7,551
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	-	-1	11	-	-	10	98	-3	96
Kerosene	-	-	1	-	-	1	-	2	3
Distillate Fuel Oil	58	28	-12	33	16	123	-85	304	1,036
15 ppm sulfur and under	58	75	-12	33	16	170	-85	297	1,112
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	142
Greater than 500 ppm sulfur	-	-47	-	-	-	-47	-	7	-218
Residual Fuel Oil	-	-349	-138	-	-	-487	-	2	-478
Less than 0.31 percent sulfur	-	38	-	-	-	38	-	2	33
0.31 to 1.00 percent sulfur	-	15	-	-	-	15	-	-	16
Greater than 1.00 percent sulfur	-	-402	-138	-	-	-540	-	-	-527
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	122	-	-	122	-	-	253
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	18,424	11,340	3,064	9,437	1,186	43,451	5,307	48,461	271,814
Processing Gain(-) or Loss(+) ¹	2	1	-1	3	-1	4	-1	-3	16

- = No Data Reported.

¹ Represents the arithmetic difference between input and production.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2018
(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	8,617	695	9,312	9,121	2,693	1,893	13,707
Petroleum Products	14,380	2,011	16,391	30,060	8,820	11,494	50,374
Hydrocarbon Gas Liquids	675	50	725	2,771	715	1,564	5,050
Natural Gas Liquids	546	50	596	2,430	677	1,508	4,615
Ethane	—	—	—	—	—	—	—
Propane	87	3	90	477	32	1,013	1,522
Normal Butane	339	36	375	1,608	567	186	2,361
Isobutane	120	11	131	250	78	92	420
Natural Gasoline	—	—	—	95	—	217	312
Refinery Olefins	129	0	129	341	38	56	435
Ethylene	—	—	—	—	—	—	—
Propylene	86	0	86	311	18	8	337
Butylene	9	0	9	30	20	0	50
Isobutylene	34	0	34	0	0	48	48
Oxygenates/Renewable Fuels/Other Hydrocarbons	63	100	163	65	76	32	173
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	63	100	163	47	76	32	155
Fuel Ethanol	63	95	158	30	58	29	117
Renewable Diesel Fuel ²	—	5	5	17	18	3	38
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	18	—	—	18
Unfinished Oils	4,941	404	5,345	8,132	977	4,001	13,110
Naphthas and Lighter	1,007	251	1,258	2,087	224	865	3,176
Kerosene and Light Gas Oils	664	—	664	1,890	224	656	2,770
Heavy Gas Oils	2,612	146	2,758	2,838	525	1,642	5,005
Residuum	658	7	665	1,317	4	838	2,159
Motor Gasoline Blending Components (MGBC)	5,035	185	5,220	8,434	1,885	2,717	13,036
Reformulated - RBOB	1,241	—	1,241	1,169	—	—	1,169
Conventional	3,794	185	3,979	7,265	1,885	2,717	11,867
CBOB	829	143	972	2,793	1,192	1,676	5,661
GTAB	—	—	—	—	—	—	—
Other	2,965	42	3,007	4,472	693	1,041	6,206
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	49	49	959	107	364	1,430
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	49	49	959	107	364	1,430
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	49	49	959	107	364	1,430
Finished Aviation Gasoline	—	—	—	—	101	—	101
Kerosene-Type Jet Fuel	520	—	520	1,381	183	210	1,774
Kerosene	188	2	190	214	—	11	225
Distillate Fuel Oil	1,733	230	1,963	3,952	1,187	1,563	6,702
15 ppm sulfur and under	1,278	106	1,384	3,706	1,014	1,442	6,162
Greater than 15 ppm to 500 ppm sulfur	146	108	254	—	65	81	146
Greater than 500 ppm sulfur	309	16	325	246	108	40	394
Residual Fuel Oil	490	14	504	838	186	53	1,077
Less than 0.31 percent sulfur	82	12	94	25	—	—	25
0.31 to 1.00 percent sulfur	95	2	97	102	19	—	121
Greater than 1.00 percent sulfur	313	—	313	711	167	53	931
Petrochemical Feedstocks	87	—	87	572	—	—	572
Naphtha for Petro. Feed. Use	87	—	87	428	—	—	428
Other Oils for Petro. Feed. Use	—	—	—	144	—	—	144
Special Naphthas	—	23	23	64	—	14	78
Lubricants	489	272	761	—	—	321	321
Waxes	—	351	351	—	—	50	50
Petroleum Coke	—	—	—	311	1,338	132	1,781
Marketable	—	—	—	311	1,338	132	1,781
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	145	320	465	2,315	2,051	456	4,822
Miscellaneous Products	14	11	25	52	14	6	72
Total Stocks, All Oils	22,997	2,706	25,703	39,181	11,513	13,387	64,081

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, August 2018
(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	1,772	27,303	18,964	1,529	393	49,961	2,499	23,621	99,100
Petroleum Products	11,126	59,813	50,429	3,753	1,668	126,789	10,195	51,239	254,988
Hydrocarbon Gas Liquids	3,682	2,100	5,701	11	159	11,653	396	1,590	19,414
Natural Gas Liquids	2,782	1,769	3,367	10	159	8,087	386	1,564	15,248
Ethane	371	—	—	—	—	371	—	—	371
Propane	445	181	159	1	3	789	39	99	2,539
Normal Butane	1,569	1,368	1,856	4	129	4,926	251	1,052	8,965
Isobutane	260	195	954	5	24	1,438	82	410	2,481
Natural Gasoline	137	25	398	—	3	563	14	3	892
Refinery Olefins	900	331	2,334	1	0	3,566	10	26	4,166
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	898	45	344	1	0	1,288	0	9	1,720
Butylene	2	286	1,990	0	0	2,278	10	17	2,364
Isobutylene	0	0	0	0	0	0	0	0	82
Oxygenates/Renewable Fuels/Other Hydrocarbons	36	67	237	80	14	434	185	187	1,142
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	36	67	237	80	14	434	185	187	1,124
Fuel Ethanol	30	52	86	37	10	215	96	34	620
Renewable Diesel Fuel ²	6	15	151	43	4	219	89	153	504
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	18
Unfinished Oils	2,866	21,012	15,043	1,025	594	40,540	3,305	19,275	81,575
Naphthas and Lighter	850	6,300	1,911	187	190	9,438	737	2,996	17,605
Kerosene and Light Gas Oils	946	3,793	2,103	257	173	7,272	577	3,589	14,872
Heavy Gas Oils	456	9,277	8,248	502	231	18,714	1,230	10,036	37,743
Residuum	614	1,642	2,781	79	—	5,116	761	2,654	11,355
Motor Gasoline Blending Components (MGBC)	2,296	12,509	12,886	249	280	28,220	2,788	14,423	63,687
Reformulated - RBOB	143	1,063	417	—	—	1,623	—	5,155	9,188
Conventional	2,153	11,446	12,469	249	280	26,597	2,788	9,268	54,499
CBOB	1,048	3,731	6,707	168	15	11,669	1,398	2,503	22,203
GTAB	—	—	—	—	—	—	—	—	—
Other	1,105	7,715	5,762	81	265	14,928	1,390	6,765	32,296
Aviation Gasoline Blending Components	31	—	15	—	—	46	—	—	46
Finished Motor Gasoline	483	1,489	1,085	26	82	3,165	664	879	6,187
Reformulated	—	—	—	—	—	—	—	19	19
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	19	19
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	483	1,489	1,085	26	82	3,165	664	860	6,168
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	62	—	62
Ed55 and Lower	—	—	—	—	—	—	62	—	62
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	483	1,489	1,085	26	82	3,165	602	860	6,106
Finished Aviation Gasoline	25	152	116	—	—	293	9	107	510
Kerosene-Type Jet Fuel	319	3,526	2,458	61	—	6,364	259	3,765	12,682
Kerosene	23	7	70	4	—	104	2	1	522
Distillate Fuel Oil	650	6,909	6,496	421	135	14,611	1,414	5,246	29,936
15 ppm sulfur and under	621	5,998	4,805	298	135	11,857	1,260	4,507	25,170
Greater than 15 ppm to 500 ppm sulfur	29	71	688	17	—	805	101	248	1,554
Greater than 500 ppm sulfur	—	840	1,003	106	—	1,949	53	491	3,212
Residual Fuel Oil	68	1,967	1,460	20	76	3,591	289	2,687	8,148
Less than 0.31 percent sulfur	10	—	195	—	—	205	28	—	352
0.31 to 1.00 percent sulfur	—	158	54	20	9	241	27	499	985
Greater than 1.00 percent sulfur	58	1,809	1,211	—	67	3,145	234	2,188	6,811
Petrochemical Feedstocks	101	1,774	804	18	—	2,697	—	3	3,359
Naphtha for Petro. Feed. Use	24	1,093	620	18	—	1,755	—	3	2,273
Other Oils for Petro. Feed. Use	77	681	184	—	—	942	—	—	1,086
Special Naphthas	95	624	—	97	—	816	—	52	969
Lubricants	63	2,520	2,216	719	—	5,518	—	828	7,428
Waxes	—	81	128	52	—	261	—	—	662
Petroleum Coke	58	4,677	1,089	—	—	5,824	124	1,617	9,346
Marketable	58	4,677	1,089	—	—	5,824	124	1,617	9,346
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	308	156	519	970	300	2,253	740	484	8,764
Miscellaneous Products	22	243	106	—	28	399	20	95	611
Total Stocks, All Oils	12,898	87,116	69,393	5,282	2,061	176,750	12,694	74,860	354,088

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Note: Refer to Appendix A for Refining District descriptions.

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

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, August 2018

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	4.4	2.7	4.3	5.3	4.0	2.5	4.5
Finished Motor Gasoline ¹	45.8	35.2	44.8	50.7	47.4	48.6	49.8
Finished Aviation Gasoline ²	-	-	-	-	0.5	-	0.1
Kerosene-Type Jet Fuel	10.8	-	9.8	8.6	6.9	3.7	7.3
Kerosene	0.7	-	0.6	0.2	-	0.0	0.1
Distillate Fuel Oil ³	26.6	25.7	26.5	24.3	28.8	38.6	28.1
Residual Fuel Oil	5.2	-	4.7	1.6	1.4	0.4	1.3
Naphtha for Petro. Feed. Use	0.3	-	0.3	0.9	-	-	0.6
Other Oils for Petro. Feed. Use	-	-	-	0.3	-	0.2	0.3
Special Naphthas	-	0.8	0.1	0.1	-	0.1	0.1
Lubricants	0.7	6.5	1.2	-	-	1.0	0.2
Waxes	-	0.5	0.0	-	-	0.1	0.0
Petroleum Coke	3.1	0.7	2.9	5.2	8.1	3.2	5.1
Asphalt and Road Oil	2.1	23.6	4.0	4.5	8.7	1.7	4.4
Still Gas	4.2	1.8	4.0	3.7	4.1	3.9	3.8
Miscellaneous Products	0.3	0.7	0.3	0.4	0.8	0.2	0.4
Processing Gain(-) or Loss(+) ⁴	-3.9	2.0	-3.4	-5.7	-10.6	-4.1	-6.0

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Hydrocarbon Gas Liquids	4.8	6.3	5.5	1.0	2.1	5.7	2.2	3.0	4.8
Finished Motor Gasoline ¹	53.2	40.7	41.1	26.3	47.9	41.5	45.6	47.6	44.6
Finished Aviation Gasoline ²	0.2	0.1	0.1	-	-	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel	7.5	10.9	10.7	1.1	-	10.2	6.0	18.6	10.7
Kerosene	-0.1	-	0.0	0.0	-	0.0	-	0.0	0.1
Distillate Fuel Oil ³	30.1	31.7	30.8	38.4	42.2	31.5	33.2	21.8	29.0
Residual Fuel Oil	1.2	0.8	3.7	-0.8	1.9	1.9	2.1	3.6	2.2
Naphtha for Petro. Feed. Use	0.5	2.9	1.6	0.0	-	2.1	-	0.0	1.3
Other Oils for Petro. Feed. Use	0.1	1.3	1.4	-	-	1.2	-	-	0.7
Special Naphthas	0.5	0.4	-	3.1	-	0.3	-	0.0	0.2
Lubricants	0.1	1.3	1.3	9.8	-	1.4	-	0.9	1.0
Waxes	-	0.0	0.0	0.3	-	0.0	-	-	0.0
Petroleum Coke	2.2	6.1	5.4	1.8	1.9	5.4	3.9	6.1	5.2
Asphalt and Road Oil	1.0	0.3	0.8	12.9	2.8	0.9	7.1	1.1	2.1
Still Gas	3.7	4.3	3.9	3.1	1.8	4.0	3.7	4.5	4.0
Miscellaneous Products	0.6	0.8	0.5	0.0	2.0	0.6	0.7	0.5	0.6
Processing Gain(-) or Loss(+) ⁴	-5.5	-7.6	-6.9	2.8	-2.1	-6.9	-4.5	-7.8	-6.5

- = No Data Reported.

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

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

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

⁴ Represents the arithmetic difference between input and production.

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

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

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, August 2018
(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	-	-	3,172	3,172
Connecticut	-	-	-	-
Delaware	-	-	-	-
Florida	-	-	300	300
Georgia	-	-	196	196
Maine	-	-	-	-
Maryland	-	-	-	-
Massachusetts	-	-	-	-
New Hampshire	-	-	-	-
New Jersey	-	-	1,983	1,983
New York	-	-	498	498
North Carolina	-	-	-	-
Pennsylvania	-	-	-	-
Rhode Island	-	-	-	-
South Carolina	-	-	193	193
Vermont	-	-	2	2
Virginia	-	-	-	-
West Virginia	-	-	-	-
PAD District 2	-	7	80	87
Illinois	-	-	-	-
Indiana	-	-	-	-
Michigan	-	-	80	80
Minnesota	-	6	-	6
North Dakota	-	1	-	1
Ohio	-	-	-	-
Wisconsin	-	-	-	-
PAD District 3	1,220	-	2,175	3,395
Alabama	-	-	-	-
Louisiana	-	-	-	-
Mississippi	-	-	-	-
New Mexico	-	-	-	-
Texas	1,220	-	2,175	3,395
PAD District 4	-	-	-	-
Idaho	-	-	-	-
Montana	-	-	-	-
PAD District 5	-	233	470	703
Alaska	-	-	-	-
California	-	-	409	409
Hawaii	-	-	-	-
Oregon	-	-	-	-
Washington	-	233	61	294
U.S. Total	1,220	240	5,897	7,357

- = No Data Reported.

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

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, August 2018
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	24,076	74,259	88,646	9,581	51,440	248,002	8,000
Hydrocarbon Gas Liquids	1,141	2,090	105	288	1,313	4,937	159
Natural Gas Liquids	854	1,650	—	288	1,313	4,105	132
Ethane	—	—	—	—	—	—	—
Propane	700	1,291	—	245	834	3,070	99
Normal Butane	31	179	—	25	423	658	21
Isobutane	123	175	—	18	56	372	12
Natural Gasoline	—	5	—	—	—	5	0
Refinery Olefins	287	440	105	—	—	832	27
Ethylene	—	—	—	—	—	—	—
Propylene	287	380	—	—	—	667	22
Butylene	—	60	105	—	—	165	5
Isobutylene	—	—	—	—	—	—	—
Other Liquids	24,427	837	16,248	157	5,264	46,933	1,514
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	10	108	419	1	762	1,300	42
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	289	—	—	289	9
Methyl Tertiary Butyl Ether (MTBE)	—	—	131	—	—	131	4
Other Oxygenates ³	—	—	158	—	—	158	5
Renewable Fuels (including Fuel Ethanol)	10	107	129	1	762	1,009	33
Fuel Ethanol	—	—	—	—	304	304	10
Biomass-Based Diesel Fuel	10	107	129	1	34	281	9
Other Renewable Diesel Fuel	—	—	—	—	424	424	14
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	1	1	—	—	2	0
Unfinished Oils ¹	2,104	43	14,343	20	3,853	20,363	657
Naphthas and Lighter	749	—	—	—	—	749	24
Kerosene and Lighter Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	1,355	43	12,436	20	2,798	16,652	537
Residuum	—	—	1,907	—	1,055	2,962	96
Motor Gasoline Blend.Comp. (MGBC)	22,313	686	1,486	136	649	25,270	815
Reformulated - RBOB	7,651	—	—	—	—	7,651	247
Conventional	14,662	686	1,486	136	649	17,619	568
CBOB	1,633	534	—	—	366	2,533	82
GTAB	2,952	—	—	—	—	2,952	95
Other	10,077	152	1,486	136	283	12,134	391
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	12,904	745	4,828	178	4,855	23,510	758
Finished Motor Gasoline	2,166	—	296	—	86	2,548	82
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	2,166	—	296	—	86	2,548	82
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	2,166	—	296	—	86	2,548	82
Finished Aviation Gasoline	1	3	—	1	—	5	0
Kerosene-Type Jet Fuel	1,324	—	—	18	3,358	4,700	152
Bonded Aircraft Fuel	224	—	—	—	750	974	31
Other	1,100	—	—	18	2,608	3,726	120
Kerosene	—	—	—	—	—	—	—
Distillate Fuel Oil	4,821	52	—	148	409	5,430	175
15 ppm sulfur and under	4,298	18	—	148	409	4,873	157
Bonded	—	—	—	—	—	—	—
Other	4,298	18	—	148	409	4,873	157
Greater than 15 ppm to 500 ppm sulfur	37	—	—	—	—	37	1
Bonded	—	—	—	—	—	—	—
Other	37	—	—	—	—	37	1
Greater than 500 ppm to 2000 ppm sulfur	486	28	—	—	—	514	17
Bonded	—	—	—	—	—	—	—
Other	486	28	—	—	—	514	17
Greater than 2000 ppm	—	6	—	—	—	6	0
Bonded	—	—	—	—	—	—	—
Other	—	6	—	—	—	6	0
Residual Fuel Oil	3,172	87	3,395	—	703	7,357	237
Less than 0.31 percent sulfur	—	—	1,220	—	—	1,220	39
0.31 to 1.00 percent sulfur	—	7	—	—	233	240	8
Greater than 1.00 percent sulfur	3,172	80	2,175	—	470	5,897	190
Petrochemical Feedstocks	4	154	250	—	38	446	14
Naphtha for Petro. Feed. Use	3	85	250	—	38	376	12
Other Oils for Petro. Feed. Use	1	69	—	—	—	70	2
Special Naphthas	2	20	236	—	—	258	8
Lubricants	184	131	632	—	21	968	31
Waxes	78	2	11	—	15	106	3
Petroleum Coke (Marketable)	3	28	8	—	35	74	2
Asphalt and Road Oil	1,149	268	—	10	190	1,617	52
Miscellaneous Products	—	—	—	1	—	1	0
Total	62,548	77,931	109,827	10,204	62,872	323,382	10,432

— = No Data Reported.

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

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

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

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

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

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-August 2018
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	212,756	610,286	701,953	72,407	334,792	1,932,194	7,951
Hydrocarbon Gas Liquids	11,841	20,183	1,020	2,560	9,407	45,011	185
Natural Gas Liquids	10,086	16,866	1	2,560	9,405	38,918	160
Ethane	-	-	-	-	-	-	-
Propane	9,093	14,022	1	2,245	6,922	32,283	133
Normal Butane	218	1,466	-	114	2,215	4,013	17
Isobutane	775	1,344	-	201	268	2,588	11
Natural Gasoline	-	34	-	-	-	34	0
Refinery Olefins	1,755	3,317	1,019	-	2	6,093	25
Ethylene	-	-	-	-	-	-	-
Propylene	1,755	2,899	-	-	2	4,656	19
Butylene	-	418	1,019	-	-	1,437	6
Isobutylene	-	-	-	-	-	-	-
Other Liquids	160,232	4,220	137,398	647	30,637	333,134	1,371
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,263	377	2,865	14	3,534	8,053	33
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	-	-	2,450	-	-	2,450	10
Methyl Tertiary Butyl Ether (MTBE)	-	-	1,420	-	-	1,420	6
Other Oxygenates ³	-	-	1,030	-	-	1,030	4
Renewable Fuels (including Fuel Ethanol)	1,263	351	367	14	3,534	5,529	23
Fuel Ethanol	-	-	-	-	304	304	1
Biomass-Based Diesel Fuel	1,263	351	367	14	221	2,216	9
Other Renewable Diesel Fuel	-	-	-	-	3,009	3,009	12
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	26	48	-	-	74	0
Unfinished Oils ¹	9,564	750	118,588	32	20,999	149,933	617
Naphthas and Lighter	2,217	321	1,567	-	386	4,491	18
Kerosene and Lighter Gas Oils	-	-	221	-	-	221	1
Heavy Gas Oils	6,462	429	89,637	32	14,752	111,312	458
Residuum	885	-	27,163	-	5,861	33,909	140
Motor Gasoline Blend Comp. (MGBC)	149,405	3,093	15,945	601	6,104	175,148	721
Reformulated - RBOB	46,201	64	-	-	951	47,216	194
Conventional	103,204	3,029	15,945	601	5,153	127,932	526
CBOB	8,419	1,410	-	-	1,079	10,908	45
GTAB	23,297	-	1,612	-	80	24,989	103
Other	71,488	1,619	14,333	601	3,994	92,035	379
Aviation Gasoline Blend Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	87,398	7,202	40,421	715	33,142	168,878	695
Finished Motor Gasoline	8,113	-	597	-	1,780	10,490	43
Reformulated	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	8,113	-	597	-	1,780	10,490	43
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	8,113	-	597	-	1,780	10,490	43
Finished Aviation Gasoline	26	20	-	5	3	54	0
Kerosene-Type Jet Fuel	11,831	-	-	46	19,027	30,904	127
Bonded Aircraft Fuel	1,425	-	-	-	7,674	9,099	37
Other	10,406	-	-	46	11,353	21,805	90
Kerosene	614	2	-	-	-	616	3
Distillate Fuel Oil	35,019	1,288	1,370	409	2,819	40,905	168
15 ppm sulfur and under	29,934	778	635	409	2,783	34,539	142
Bonded	3	-	-	-	-	3	0
Other	29,931	778	635	409	2,783	34,536	142
Greater than 15 ppm to 500 ppm sulfur	906	-	-	-	-	906	4
Bonded	-	-	-	-	-	-	-
Other	906	-	-	-	-	906	4
Greater than 500 ppm to 2000 ppm sulfur	3,729	461	494	-	36	4,720	19
Bonded	-	-	-	-	-	-	-
Other	3,729	461	494	-	36	4,720	19
Greater than 2000 ppm	450	49	241	-	-	740	3
Bonded	-	-	-	-	-	-	-
Other	450	49	241	-	-	740	3
Residual Fuel Oil	23,572	814	21,050	-	7,867	53,303	219
Less than 0.31 percent sulfur	692	1	5,925	-	-	6,618	27
0.31 to 1.00 percent sulfur	884	276	993	-	1,403	3,556	15
Greater than 1.00 percent sulfur	21,996	537	14,132	-	6,464	43,129	177
Petrochemical Feedstocks	10	1,108	3,426	-	305	4,849	20
Naphtha for Petro. Feed. Use	9	560	3,251	-	305	4,125	17
Other Oils for Petro. Feed. Use	1	548	175	-	-	724	3
Special Naphthas	4	340	3,268	-	-	3,612	15
Lubricants	1,324	1,107	7,952	-	85	10,468	43
Waxes	566	40	263	-	250	1,119	5
Petroleum Coke (Marketable)	184	217	2,436	-	210	3,047	13
Asphalt and Road Oil	6,135	2,258	-	247	796	9,436	39
Miscellaneous Products	-	8	59	8	-	75	0
Total	472,227	641,891	880,792	76,329	407,978	2,479,217	10,203

- = No Data Reported.

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

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

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

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

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

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, August 2018
(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	79,071	-	-	3,748	-	-	-	-	941	941
Algeria	3,865	-	-	2,148	-	-	-	-	125	125
Angola	4,536	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	951	-	-	220	-	-	-	-	-	-
Ecuador	5,687	-	-	-	-	-	-	-	-	-
Equatorial Guinea	645	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	13,018	-	-	-	-	-	-	-	-	-
Kuwait	2,565	-	-	-	-	-	-	-	-	-
Libya	599	-	-	-	-	-	-	-	-	-
Nigeria	1,746	-	-	98	-	-	-	-	210	210
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	31,144	-	-	1	-	-	-	-	305	305
United Arab Emirates	-	-	-	1,281	-	-	-	-	-	-
Venezuela	14,315	-	-	-	-	-	-	-	301	301
Non-OPEC	168,931	4,105	832	16,615	-	2,548	2,548	7,651	16,678	24,329
Argentina	854	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,509	-	-	-	322	969	1,291
Brazil	5,901	-	-	150	-	-	-	-	1,081	1,081
Brunei	2,027	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	113,922	3,858	727	63	-	386	386	3,187	2,188	5,375
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	157	157
Colombia	9,286	-	-	-	-	103	103	-	649	649
Denmark	-	-	-	766	-	-	-	-	-	-
Egypt	952	-	-	371	-	-	-	96	259	355
Estonia	-	-	-	80	-	-	-	-	-	-
Finland	-	-	-	97	-	-	-	11	437	448
France	-	-	-	299	-	582	582	-	278	278
Germany	-	-	-	100	-	-	-	13	4	17
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	349	-	-	-	447	2,074	2,521
Indonesia	1,771	-	-	-	-	-	-	-	-	-
Italy	-	-	-	517	-	630	630	-	326	326
Korea, South	-	-	-	-	-	41	41	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	300	-	-	112	-	-	-	-	-	-
Mexico	27,731	-	35	-	-	-	-	-	310	310
Netherlands	-	-	-	60	-	-	-	1,359	665	2,024
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	310	-	-	-	28	858	886
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	280	280	543	599	1,142
Russia	2,780	-	-	9,752	-	-	-	3	1,075	1,078
Spain	-	-	-	492	-	-	-	-	910	910
Sweden	-	-	-	124	-	-	-	-	11	11
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	55	-	-	-	-	-	-	-	-
United Kingdom	1,160	192	-	148	-	230	230	1,642	1,947	3,589
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	2,247	0	70	1,316	-	296	296	0	1,881	1,881
Total	248,002	4,105	832	20,363	-	2,548	2,548	7,651	17,619	25,270
Persian Gulf³	46,727	-	-	1,282	-	-	-	-	305	305

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, August 2018
(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	-	-	-	-	-	-	736	-	-	-	736
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	736	-	-	-	736
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	131	158	304	281	424	-	4,137	37	514	6	4,694
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	131	158	275	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	123	-	-	1,833	37	514	6	2,390
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	296	-	-	-	296
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	58	-	-	-	-	-	-	-
Germany	-	-	-	71	-	-	-	-	-	-	-
Guatemala	-	-	29	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	29	-	-	87	-	-	-	87
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	1,921	-	-	-	1,921
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	424	-	0	0	0	0	0
Total	131	158	304	281	424	-	4,873	37	514	6	5,430
Persian Gulf³	-	-	-	-	-	-	736	-	-	-	736

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, August 2018
(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	—	—	—	33	34	1,220	—	2,212	3,432
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	18	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	34	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	15	—	1,220	—	2,212	3,432
Non-OPEC	—	5	—	4,667	224	—	240	3,685	3,925
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	5	—	696	22	—	240	1,846	2,086
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	161	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	326	326
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	89	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	2,480	131	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	37	—	—	696	696
Netherlands	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	428	428
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	334	334
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	1,241	34	0	0	55	55
Total	—	5	—	4,700	258	1,220	240	5,897	7,357
Persian Gulf³	—	—	—	18	34	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, August 2018
(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	-	-	-	-	282	287	-	9,493	88,564	2,551	306	2,857
Algeria	-	-	-	-	-	-	-	2,273	6,138	125	73	198
Angola	-	-	-	-	-	-	-	-	4,536	146	-	146
Congo (Brazzaville)	-	-	-	-	-	-	-	220	1,171	31	7	38
Ecuador	-	-	-	-	-	-	-	-	5,687	183	-	183
Equatorial Guinea	-	-	-	-	-	-	-	-	645	21	-	21
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	18	13,036	420	1	421
Kuwait	-	-	-	-	-	-	-	-	2,565	83	-	83
Libya	-	-	-	-	-	-	-	-	599	19	-	19
Nigeria	-	-	-	-	-	-	-	308	2,054	56	10	66
Qatar	-	-	-	-	-	249	-	249	249	-	8	8
Saudi Arabia	-	-	-	-	-	-	-	1,076	32,220	1,005	35	1,039
United Arab Emirates	-	-	-	-	-	38	-	1,319	1,319	-	43	43
Venezuela	-	-	-	-	282	-	-	4,030	18,345	462	130	592
Non-OPEC	376	70	106	74	1,335	681	1	65,887	234,818	5,449	2,125	7,575
Argentina	-	-	-	-	-	3	-	3	857	28	0	28
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	191	-	191	191	-	6	6
Belgium	-	-	-	-	-	7	-	2,807	2,807	-	91	91
Brazil	-	-	-	-	-	-	-	1,795	7,696	190	58	248
Brunei	-	-	-	-	-	-	-	-	2,027	65	-	65
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	85	70	57	61	1,039	255	1	17,300	131,222	3,675	558	4,233
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	25	-	91	-	-	434	434	-	14	14
Colombia	-	-	-	-	34	-	-	1,082	10,368	300	35	334
Denmark	-	-	-	-	-	-	-	766	766	-	25	25
Egypt	-	-	-	-	-	-	-	726	1,678	31	23	54
Estonia	-	-	-	-	-	-	-	406	406	-	13	13
Finland	-	-	-	-	-	-	-	545	545	-	18	18
France	-	-	-	-	-	12	-	1,229	1,229	-	40	40
Germany	-	-	-	-	-	12	-	201	201	-	6	6
Guatemala	-	-	-	-	-	-	-	29	29	-	1	1
India	-	-	-	-	-	-	-	2,959	2,959	-	95	95
Indonesia	-	-	-	-	-	-	-	-	1,771	57	-	57
Italy	-	-	-	-	-	14	-	1,487	1,487	-	48	48
Korea, South	23	-	-	-	-	58	-	2,849	2,849	-	92	92
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	11	-	-	-	-	123	423	10	4	14
Mexico	184	-	-	-	-	-	-	1,262	28,993	895	41	935
Netherlands	-	-	-	-	-	-	-	2,084	2,084	-	67	67
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	1,196	1,196	-	39	39
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	1,422	1,422	-	46	46
Russia	-	-	-	-	-	-	-	13,179	15,959	90	425	515
Spain	-	-	1	-	65	-	-	1,468	1,468	-	47	47
Sweden	-	-	-	2	-	-	-	137	137	-	4	4
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	389	389	-	13	13
United Kingdom	46	-	-	9	-	53	-	4,267	5,427	37	138	175
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	38	0	12	2	106	76	0	5,551	7,798	71	178	252
Total	376	70	106	74	1,617	968	1	75,380	323,382	8,000	2,432	10,432
Persian Gulf³	-	-	-	-	-	478	-	2,853	49,580	1,507	92	1,599

- = No Data Reported.

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

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

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

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

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

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-August 2018
(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	647,315	140	-	37,760	-	-	-	-	9,910	9,910
Algeria	20,179	140	-	21,196	-	-	-	-	536	536
Angola	27,287	-	-	2	-	-	-	-	1,090	1,090
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	43,748	-	-	-	-	-	-	-	-	-
Equatorial Guinea	5,241	-	-	-	-	-	-	-	-	-
Gabon	1,795	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	144,703	-	-	508	-	-	-	-	-	-
Kuwait	23,935	-	-	-	-	-	-	-	-	-
Libya	13,629	-	-	151	-	-	-	-	-	-
Nigeria	45,356	-	-	803	-	-	-	-	2,663	2,663
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	199,678	-	-	1,258	-	-	-	-	305	305
United Arab Emirates	1,046	-	-	12,129	-	-	-	-	-	-
Venezuela	118,490	-	-	789	-	-	-	-	5,316	5,316
Non-OPEC	1,284,879	38,778	6,093	112,173	-	10,490	10,490	47,216	118,022	165,238
Argentina	5,271	-	-	13	-	-	-	-	549	549
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	529	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	9,672	-	306	306	1,445	5,226	6,671
Brazil	37,970	-	-	2,164	-	-	-	-	3,977	3,977
Brunei	2,027	-	-	-	-	-	-	-	-	-
Cameroon	1,144	-	-	559	-	-	-	-	-	-
Canada	902,756	37,284	5,074	4,367	-	3,086	3,086	26,799	14,712	41,511
Chad	5,405	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	157	157
Colombia	82,217	-	-	425	-	103	103	-	3,755	3,755
Denmark	830	-	-	1,724	-	-	-	80	55	135
Egypt	7,473	-	-	1,257	-	-	-	96	593	689
Estonia	-	-	-	80	-	-	-	-	-	-
Finland	-	-	-	476	-	-	-	13	2,595	2,608
France	-	-	-	1,868	-	642	642	2,365	3,303	5,668
Germany	-	-	-	662	-	18	18	13	66	79
Guatemala	1,652	-	-	-	-	-	-	-	-	-
India	-	-	-	617	-	377	377	511	16,263	16,774
Indonesia	11,314	-	-	-	-	-	-	-	-	-
Italy	438	-	-	2,525	-	630	630	107	1,884	1,991
Korea, South	-	56	-	120	-	622	622	-	2,287	2,287
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	323	323
Malaysia	588	-	-	382	-	-	-	-	-	-
Mexico	165,401	-	207	60	-	-	-	-	2,097	2,097
Netherlands	-	-	-	3,435	-	887	887	2,344	6,640	8,984
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	10,270	595	-	4,917	-	1	1	636	4,468	5,104
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	827	827	1,206	6,533	7,739
Russia	16,351	-	-	60,900	-	378	378	248	10,246	10,494
Spain	-	-	-	2,704	-	326	326	47	11,239	11,286
Sweden	-	263	-	140	-	1,022	1,022	77	1,455	1,532
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,219	332	-	348	-	-	-	-	-	-
United Kingdom	13,038	192	-	858	-	581	581	11,229	8,725	19,954
Vietnam	788	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	18,198	56	812	11,900	-	684	684	0	10,874	10,874
Total	1,932,194	38,918	6,093	149,933	-	10,490	10,490	47,216	127,932	175,148
Persian Gulf³	369,362	-	-	13,895	-	-	-	-	305	305

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-August 2018
(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	—	—	—	—	—	—	5,389	—	140	100	5,629
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	140	—	140
Qatar	—	—	—	—	—	—	2,190	—	—	—	2,190
Saudi Arabia	—	—	—	—	—	—	2,873	—	—	—	2,873
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	326	—	—	100	426
Non-OPEC	1,420	1,030	304	2,216	3,009	—	29,150	906	4,580	640	35,276
Argentina	88	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	52	—	—	—	—	—	605	—	—	—	605
Brazil	511	745	275	—	—	—	717	—	—	—	717
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	1,290	—	—	19,722	333	4,053	49	24,157
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	365	—	—	—	365
Colombia	—	—	—	—	—	—	1,026	—	—	300	1,326
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	259	—	—	—	—	—	—	—
Germany	87	—	—	574	—	—	—	—	—	—	5
Guatemala	—	—	29	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	2,279	—	—	—	2,279
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	93	—	—	331	—	—	—	331
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	241	—	—	—	241
Mexico	—	—	—	—	—	—	293	—	277	—	570
Netherlands	337	285	—	—	—	—	524	—	—	69	593
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	161	—	—	—	161
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	345	—	—	—	—	—	2,762	573	250	167	3,752
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	3,009	—	124	0	0	55	174
Total	1,420	1,030	304	2,216	3,009	—	34,539	906	4,720	740	40,905
Persian Gulf³	—	—	—	—	—	—	5,063	—	—	—	5,063

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-August 2018
(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	—	—	—	2,134	70	2,845	—	10,346	13,191
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	438	438
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	48	—	—	—	—	—
Kuwait	—	—	—	165	—	—	—	—	—
Libya	—	—	—	—	—	147	—	—	147
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	63	70	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	43	43
Venezuela	—	—	—	1,858	—	2,698	—	9,865	12,563
Non-OPEC	616	54	—	28,770	3,542	3,773	3,556	32,783	40,112
Argentina	—	—	—	6	—	208	317	1	526
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	350	350
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	53	78	50	—	128
Brazil	—	—	—	—	163	80	315	268	663
Brunel	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	2	35	—	4,849	661	1	1,806	9,897	11,704
Chad	—	—	—	—	—	—	—	—	—
China	153	—	—	2,975	—	—	—	—	—
Colombia	108	—	—	—	—	—	—	1,806	1,806
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	32	—	326	358
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	107	123	—	—	123
Germany	—	—	—	—	14	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	1,945	30	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	74	—	—	—	—	—
Korea, South	353	—	—	14,263	1,576	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	37	283	—	8,814	9,097
Netherlands	—	19	—	—	3	57	—	1,057	1,114
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	53	—	—	—	—
Russia	—	—	—	7	—	1,749	—	2,748	4,497
Spain	—	—	—	—	—	—	263	80	343
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	85	—	4,553	4,638
United Kingdom	—	—	—	—	—	38	—	—	38
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	4,651	845	1,039	805	2,597	4,441
Total	616	54	—	30,904	3,612	6,618	3,556	43,129	53,303
Persian Gulf³	—	—	—	276	70	—	—	43	43

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-August 2018
(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	558	—	—	—	773	3,092	—	73,257	720,572	2,664	301	2,965
Algeria	327	—	—	—	—	—	—	22,199	42,378	83	91	174
Angola	—	—	—	—	—	—	—	1,092	28,379	112	4	117
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	438	44,186	180	2	182
Equatorial Guinea	—	—	—	—	—	—	—	—	5,241	22	—	22
Gabon	—	—	—	—	—	—	—	—	1,795	7	—	7
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	556	145,259	595	2	598
Kuwait	—	—	—	—	—	—	—	165	24,100	98	1	99
Libya	—	—	—	—	—	—	—	298	13,927	56	1	57
Nigeria	231	—	—	—	—	—	—	3,837	49,193	187	16	202
Qatar	—	—	—	—	—	2,434	—	4,624	4,624	—	19	19
Saudi Arabia	—	—	—	—	—	—	—	4,569	204,247	822	19	841
United Arab Emirates	—	—	—	—	—	658	—	12,830	13,876	4	53	57
Venezuela	—	—	—	—	773	—	—	21,725	140,215	488	89	577
Non-OPEC	3,567	724	1,119	3,047	8,663	7,376	75	473,766	1,758,645	5,288	1,950	7,237
Argentina	—	36	—	887	—	37	—	2,142	7,413	22	9	31
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	529	2	—	2
Bahamas	—	—	—	—	—	—	—	350	350	—	1	1
Bahrain	—	—	—	—	—	713	—	713	713	—	3	3
Belgium	—	—	—	—	78	131	—	17,698	17,698	—	73	73
Brazil	—	—	—	145	—	—	—	9,360	47,330	156	39	195
Brunel	—	—	—	—	—	—	—	—	2,027	8	—	8
Cameroon	—	—	—	—	—	—	—	559	1,703	5	2	7
Canada	562	549	382	667	7,869	1,970	16	146,061	1,048,817	3,715	601	4,316
Chad	—	—	—	—	—	—	—	—	5,405	22	—	22
China	—	—	468	318	91	—	—	4,527	4,527	—	19	19
Colombia	—	—	—	167	34	—	—	7,724	89,941	338	32	370
Denmark	—	—	—	—	—	—	—	1,859	2,689	3	8	11
Egypt	—	—	—	—	—	—	—	1,946	9,419	31	8	39
Estonia	—	—	—	—	—	—	—	438	438	—	2	2
Finland	—	—	—	—	—	16	—	3,100	3,100	—	13	13
France	27	139	—	—	—	—	—	8,952	8,952	—	37	37
Germany	—	—	17	—	—	—	—	1,584	1,584	—	7	7
Guatemala	—	—	—	—	—	—	—	29	1,681	7	0	7
India	—	—	—	—	—	—	—	22,022	22,022	—	91	91
Indonesia	—	—	—	—	—	560	—	560	11,874	47	2	49
Italy	—	—	—	—	—	159	—	5,386	5,824	2	22	24
Korea, South	23	—	4	—	—	3,004	—	22,732	22,732	—	94	94
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	323	323	—	1	1
Malaysia	—	—	122	—	—	—	—	745	1,333	2	3	5
Mexico	1,740	—	—	—	—	—	—	13,808	179,209	681	57	737
Netherlands	53	—	—	—	—	6	59	15,786	15,786	—	65	65
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	10,617	20,887	42	44	86
Oman	—	—	—	403	—	66	—	630	630	—	3	3
Portugal	—	—	—	—	—	—	—	8,619	8,619	—	35	35
Russia	—	—	—	255	—	39	—	80,667	97,018	67	332	399
Spain	—	—	10	—	406	23	—	15,098	15,098	—	62	62
Sweden	—	—	—	5	—	2	—	3,250	3,250	—	13	13
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	5,318	6,537	5	22	27
United Kingdom	206	—	—	192	—	151	—	22,172	35,210	54	91	145
Vietnam	—	—	—	—	—	—	—	—	788	3	—	3
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	956	0	116	8	185	256	0	38,991	57,189	76	159	235
Total	4,125	724	1,119	3,047	9,436	10,468	75	547,023	2,479,217	7,951	2,251	10,203
Persian Gulf³	—	—	—	—	—	3,805	—	23,457	392,819	1,520	97	1,617

— = No Data Reported.

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

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

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

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

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

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	13,184	-	-	518	-	-	-	-	941	941
Algeria	3,865	-	-	420	-	-	-	-	125	125
Angola	1,862	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	951	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	2,248	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	1,746	-	-	98	-	-	-	-	210	210
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	2,512	-	-	-	-	-	-	-	305	305
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	301	301
Non-OPEC	10,892	854	287	1,586	-	2,166	2,166	7,651	13,721	21,372
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	322	969	1,291
Brazil	991	-	-	-	-	-	-	-	767	767
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	6,282	662	287	-	-	341	341	3,187	1,140	4,327
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	502	-	-	-	-	-	103	-	649	649
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	96	-	96
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	11	437	448
France	-	-	-	-	-	582	582	-	278	278
Germany	-	-	-	-	-	-	-	13	4	17
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	125	-	-	-	447	2,074	2,521
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	630	630	-	326	326
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	1,481	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	38	-	-	-	1,359	620	1,979
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	58	-	-	-	28	858	886
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	280	280	543	599	1,142
Russia	425	-	-	635	-	-	-	3	1,075	1,078
Spain	-	-	-	242	-	-	-	-	910	910
Sweden	-	-	-	82	-	-	-	-	11	11
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	605	-	-	113	-	230	230	1,642	1,666	3,308
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	606	192	0	293	-	103	0	0	1,338	1,338
Total	24,076	854	287	2,104	-	2,166	2,166	7,651	14,662	22,313
Persian Gulf³	4,760	-	-	-	-	-	-	-	305	305

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	-	-	-	736	-	-	-	736
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	736	-	-	-	736
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	10	-	-	3,562	37	486	-	4,085
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	10	-	-	1,345	37	486	-	1,868
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	296	-	-	-	296
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	1,921	-	-	-	1,921
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	-	0
Total	-	-	-	10	-	-	4,298	37	486	-	4,821
Persian Gulf³	-	-	-	-	-	-	736	-	-	-	736

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	15	-	-	-	1,332	1,332
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	15	-	-	-	1,332	1,332
Non-OPEC	-	1	-	1,309	2	-	-	1,840	1,840
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	1	-	681	2	-	-	1,430	1,430
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	89	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	539	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	21	21
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	334	334
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	0	-	-	55	55
Total	-	1	-	1,324	2	-	-	3,172	3,172
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	-	282	38	-	3,862	17,046	425	125	550
Algeria	-	-	-	-	-	-	-	545	4,410	125	18	142
Angola	-	-	-	-	-	-	-	-	1,862	60	-	60
Congo (Brazzaville)	-	-	-	-	-	-	-	-	951	31	-	31
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	2,248	73	-	73
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	308	2,054	56	10	66
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	1,041	3,553	81	34	115
United Arab Emirates	-	-	-	-	-	38	-	38	38	-	1	1
Venezuela	-	-	-	-	282	-	-	1,930	1,930	-	62	62
Non-OPEC	3	1	78	3	867	146	-	34,610	45,502	351	1,116	1,468
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	36	-	36	36	-	1	1
Belgium	-	-	-	-	-	-	-	1,291	1,291	-	42	42
Brazil	-	-	-	-	-	-	-	767	1,758	32	25	57
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	1	55	-	662	94	-	10,421	16,703	203	336	539
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	10	-	-	-	-	10	10	-	0	0
Colombia	-	-	-	-	34	-	-	1,082	1,584	16	35	51
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	96	96	-	3	3
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	448	448	-	14	14
France	-	-	-	-	-	9	-	869	869	-	28	28
Germany	-	-	-	-	-	7	-	24	24	-	1	1
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	2,735	2,735	-	88	88
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	956	956	-	31	31
Korea, South	-	-	-	-	-	-	-	539	539	-	17	17
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	21	1,502	48	1	48
Netherlands	-	-	-	-	-	-	-	2,017	2,017	-	65	65
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	944	944	-	30	30
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	1,422	1,422	-	46	46
Russia	-	-	-	-	-	-	-	3,634	4,059	14	117	131
Spain	-	-	1	-	65	-	-	1,218	1,218	-	39	39
Sweden	-	-	-	-	-	-	-	93	93	-	3	3
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	334	334	-	11	11
United Kingdom	3	-	-	1	-	-	-	3,847	4,452	20	124	144
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	12	2	106	0	-	1,806	2,412	18	59	79
Total	3	1	78	3	1,149	184	-	38,472	62,548	777	1,241	2,018
Persian Gulf³	-	-	-	-	-	74	-	1,115	5,875	154	36	190

- = No Data Reported.

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

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

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

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

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

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	74,259	1,650	440	43	-	-	-	-	686	686
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	73,752	1,650	440	43	-	-	-	-	686	686
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	507	-	-	-	-	-	-	-	-	-
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	74,259	1,650	440	43	-	-	-	-	686	686
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	107	-	-	18	-	28	6	52
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	107	-	-	18	-	28	6	52
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	107	-	-	18	-	28	6	52
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	3	-	-	20	-	7	80	87
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	3	-	-	20	-	7	80	87
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
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	-	3	-	-	20	-	7	80	87
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	85	69	2	28	268	131	-	3,672	77,931	2,395	118	2,514
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	85	69	2	26	268	131	-	3,670	77,422	2,379	118	2,497
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	507	16	-	16
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	2	-	-	-	2	2	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	0	0	1
Total	85	69	2	28	268	131	-	3,672	77,931	2,395	118	2,514
Persian Gulf ³	-	-	-	-	-	-	-	-	-	-	-	-

- = No Data Reported.

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

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

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

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

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

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	37,350	-	-	2,998	-	-	-	-	-	-
Algeria	-	-	-	1,496	-	-	-	-	-	-
Angola	537	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	220	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	645	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	7,272	-	-	-	-	-	-	-	-	-
Kuwait	1,120	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	13,461	-	-	1	-	-	-	-	-	-
United Arab Emirates	-	-	-	1,281	-	-	-	-	-	-
Venezuela	14,315	-	-	-	-	-	-	-	-	-
Non-OPEC	51,296	-	105	11,345	-	296	296	-	1,486	1,486
Argentina	377	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,509	-	-	-	-	-	-
Brazil	2,461	-	-	150	-	-	-	-	314	314
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	17,632	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	4,818	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	383	-	-	-	-	-	-
Egypt	952	-	-	371	-	-	-	-	259	259
Estonia	-	-	-	80	-	-	-	-	-	-
Finland	-	-	-	97	-	-	-	-	-	-
France	-	-	-	299	-	-	-	-	-	-
Germany	-	-	-	100	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	224	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	363	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	23,853	-	35	-	-	-	-	-	310	310
Netherlands	-	-	-	22	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	252	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	6,382	-	-	-	-	-	-
Spain	-	-	-	99	-	-	-	-	-	-
Sweden	-	-	-	42	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	555	-	-	35	-	-	-	-	281	281
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	648	-	70	937	-	296	296	-	322	322
Total	88,646	-	105	14,343	-	296	296	-	1,486	1,486
Persian Gulf³	21,853	-	-	1,282	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	131	158	-	129	-	-	-	-	-	-	-
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	131	158	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	58	-	-	-	-	-	-	-
Germany	-	-	-	71	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-
Total	131	158	-	129	-	-	-	-	-	-	-
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	-	34	1,220	-	621	1,841
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	34	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	1,220	-	621	1,841
Non-OPEC	-	-	-	-	202	-	-	1,554	1,554
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	275	275
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	326	326
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	131	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	37	-	-	525	525
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	428	428
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	34	0	-	0	0
Total	-	-	-	-	236	1,220	-	2,175	3,395
Persian Gulf³	-	-	-	-	34	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	—	—	—	—	—	249	—	5,122	42,472	1,205	165	1,370
Algeria	—	—	—	—	—	—	—	1,496	1,496	—	48	48
Angola	—	—	—	—	—	—	—	—	537	17	—	17
Congo (Brazzaville)	—	—	—	—	—	—	—	220	220	—	7	7
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	645	21	—	21
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	7,272	7,272	235	—	235
Kuwait	—	—	—	—	—	—	—	—	1,120	36	—	36
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	249	—	249	249	—	8	8
Saudi Arabia	—	—	—	—	—	—	—	35	13,496	434	1	435
United Arab Emirates	—	—	—	—	—	—	—	1,281	1,281	—	41	41
Venezuela	—	—	—	—	—	—	—	1,841	16,156	462	59	521
Non-OPEC	250	—	11	8	—	383	—	16,059	67,355	1,655	518	2,173
Argentina	—	—	—	—	—	3	—	3	380	12	0	12
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	155	—	155	155	—	5	5
Belgium	—	—	—	—	—	7	—	1,516	1,516	—	49	49
Brazil	—	—	—	—	—	—	—	753	3,214	79	24	104
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	9	—	284	17,916	569	9	578
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	4,818	155	—	155
Denmark	—	—	—	—	—	—	—	383	383	—	12	12
Egypt	—	—	—	—	—	—	—	630	1,582	31	20	51
Estonia	—	—	—	—	—	—	—	406	406	—	13	13
Finland	—	—	—	—	—	—	—	97	97	—	3	3
France	—	—	—	—	—	3	—	360	360	—	12	12
Germany	—	—	—	—	—	5	—	177	177	—	6	6
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	224	224	—	7	7
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	14	—	377	377	—	12	12
Korea, South	23	—	—	—	—	58	—	212	212	—	7	7
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	11	—	—	—	—	11	11	—	0	0
Mexico	184	—	—	—	—	—	—	1,091	24,944	769	35	805
Netherlands	—	—	—	—	—	—	—	22	22	—	1	1
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	252	252	—	8	8
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	6,810	6,810	—	220	220
Spain	—	—	—	—	—	—	—	99	99	—	3	3
Sweden	—	—	—	—	—	—	—	42	42	—	1	1
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	43	—	—	8	—	53	—	420	975	18	14	31
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	—	0	0	—	76	—	1,735	2,383	22	57	78
Total	250	—	11	8	—	632	—	21,181	109,827	2,860	683	3,543
Persian Gulf³	—	—	—	—	—	404	—	1,720	23,573	705	55	760

— = No Data Reported.

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

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

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

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

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

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	9,581	288	-	20	-	-	-	-	136	136
Canada	9,581	288	-	20	-	-	-	-	136	136
Other	0	0	-	0	-	-	-	-	0	0
Total	9,581	288	-	20	-	-	-	-	136	136
PAD District 5										
OPEC	28,537	-	-	232	-	-	-	-	-	-
Algeria	-	-	-	232	-	-	-	-	-	-
Angola	2,137	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	5,687	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	3,498	-	-	-	-	-	-	-	-	-
Kuwait	1,445	-	-	-	-	-	-	-	-	-
Libya	599	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	15,171	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	22,903	1,313	-	3,621	-	86	86	-	649	649
Argentina	477	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	2,449	-	-	-	-	-	-	-	-	-
Brunei	2,027	-	-	-	-	-	-	-	-	-
Canada	6,675	1,258	-	-	-	45	45	-	226	226
China	-	-	-	-	-	-	-	-	157	157
Colombia	3,966	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	1,771	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	41	41	-	-	-
Malaysia	300	-	-	112	-	-	-	-	-	-
Mexico	1,890	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	45	45
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	140	140
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	81	81
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	3,348	55	-	3,509	-	0	0	-	0	0
Total	51,440	1,313	-	3,853	-	86	86	-	649	649
Persian Gulf³	20,114	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	1	-	-	148	-	-	-	148
Canada	-	-	-	1	-	-	148	-	-	-	148
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	1	-	-	148	-	-	-	148
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	304	34	424	-	409	-	-	-	409
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	275	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	5	-	-	322	-	-	-	322
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	29	-	-	87	-	-	-	87
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	29	0	424	-	0	-	-	-	0
Total	-	-	304	34	424	-	409	-	-	-	409
Persian Gulf ³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	18	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	18	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	-	-	-	-	-	-
Canada	-	1	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	-	-	-
Total	-	1	-	18	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	-	-	259	259
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	259	259
Non-OPEC	-	-	-	3,358	-	-	233	211	444
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	-	-	15	-	-	233	61	294
China	-	-	-	161	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	914	-	-	-	-	-
Korea, South	-	-	-	1,941	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	150	150
Netherlands	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	327	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0
Total	-	-	-	3,358	-	-	233	470	703
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, August 2018
(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	-	-	-	-	-	-	-	18	18	-	1	1
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	18	18	-	1	1
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	10	-	1	605	10,186	309	20	329
Canada	-	-	-	-	10	-	1	605	10,186	309	20	329
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	10	-	1	623	10,204	309	20	329
PAD District 5												
OPEC	-	-	-	-	-	-	-	491	29,028	921	16	936
Algeria	-	-	-	-	-	-	-	232	232	-	7	7
Angola	-	-	-	-	-	-	-	-	2,137	69	-	69
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	5,687	183	-	183
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	3,498	113	-	113
Kuwait	-	-	-	-	-	-	-	-	1,445	47	-	47
Libya	-	-	-	-	-	-	-	-	599	19	-	19
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	15,171	489	-	489
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	259	259	-	8	8
Non-OPEC	38	-	15	35	190	21	-	10,941	33,844	739	353	1,092
Argentina	-	-	-	-	-	-	-	-	477	15	-	15
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	275	2,724	79	9	88
Brunei	-	-	-	-	-	-	-	-	2,027	65	-	65
Canada	-	-	-	35	99	21	-	2,320	8,995	215	75	290
China	-	-	15	-	91	-	-	424	424	-	14	14
Colombia	-	-	-	-	-	-	-	-	3,966	128	-	128
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	1,771	57	-	57
Japan	-	-	-	-	-	-	-	914	914	-	29	29
Korea, South	-	-	-	-	-	-	-	2,098	2,098	-	68	68
Malaysia	-	-	-	-	-	-	-	112	412	10	4	13
Mexico	-	-	-	-	-	-	-	150	2,040	61	5	66
Netherlands	-	-	-	-	-	-	-	45	45	-	1	1
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	891	891	-	29	29
Sweden	-	-	-	-	-	-	-	-	-	-	-	-
Taiwan	38	-	-	-	-	-	-	119	119	-	4	4
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	0	-	3,593	6,941	109	115	225
Total	38	-	15	35	190	21	-	11,432	62,872	1,659	369	2,028
Persian Gulf³	-	-	-	-	-	-	-	-	20,114	649	-	649

- = No Data Reported.

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

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

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

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

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

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	112,750	140	-	3,210	-	-	-	-	8,846	8,846
Algeria	20,179	140	-	2,557	-	-	-	-	218	218
Angola	11,625	-	-	2	-	-	-	-	1,090	1,090
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	1,001	-	-	-	-	-	-	-	-	-
Gabon	1,397	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	12,508	-	-	398	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	7,628	-	-	-	-	-	-	-	-	-
Nigeria	33,525	-	-	253	-	-	-	-	2,372	2,372
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	22,659	-	-	-	-	-	-	-	305	305
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	4,861	4,861
Non-OPEC	100,006	9,946	1,755	6,354	-	8,113	8,113	46,201	94,358	140,559
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	306	306	1,445	5,185	6,630
Brazil	991	-	-	-	-	-	-	-	3,300	3,300
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	1,144	-	-	-	-	-	-	-	-	-
Canada	50,902	8,951	1,755	364	-	2,809	2,809	26,735	9,731	36,466
Chad	2,806	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	6,975	-	-	209	-	103	103	-	3,403	3,403
Denmark	830	-	-	369	-	-	-	10	40	50
Egypt	4,712	-	-	-	-	-	-	96	334	430
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	13	2,266	2,279
France	-	-	-	-	-	582	582	2,348	2,728	5,076
Germany	-	-	-	57	-	18	18	13	66	79
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	125	-	-	-	511	15,305	15,816
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	630	630	107	1,526	1,633
Korea, South	-	-	-	-	-	-	-	-	1,366	1,366
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	323	323
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	2,481	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	303	-	838	838	1,906	5,549	7,455
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	10,270	540	-	58	-	-	-	636	4,429	5,065
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	827	827	1,206	6,327	7,533
Russia	6,466	-	-	2,444	-	241	241	188	10,157	10,345
Spain	-	-	-	888	-	275	275	47	9,345	9,392
Sweden	-	263	-	82	-	968	968	30	1,036	1,066
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	3,319	-	-	226	-	516	516	10,910	7,320	18,230
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	7,713	192	0	1,229	-	0	0	0	4,622	4,622
Total	212,756	10,086	1,755	9,564	-	8,113	8,113	46,201	103,204	149,405
Persian Gulf³	35,167	-	-	398	-	-	-	-	305	305

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	-	-	-	-	-	-	5,063	-	-	100	5,163
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	2,190	-	-	-	2,190
Saudi Arabia	-	-	-	-	-	-	2,873	-	-	-	2,873
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	100	100
Non-OPEC	-	-	-	1,263	-	-	24,871	906	3,729	350	29,856
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	605	-	-	-	605
Brazil	-	-	-	-	-	-	717	-	-	-	717
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	655	-	-	16,813	333	3,479	-	20,625
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	1,026	-	-	300	1,326
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	105	-	-	-	-	-	-	-
Germany	-	-	-	503	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	2,279	-	-	-	2,279
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	508	-	-	-	508
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	161	-	-	-	161
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	2,762	573	250	-	3,585
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	50	50
Total	-	-	-	1,263	-	-	29,934	906	3,729	450	35,019
Persian Gulf³	-	-	-	-	-	-	5,063	-	-	-	5,063

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	—	—	—	2,088	—	147	—	6,195	6,342
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	2	—	—	—	—	—
Kuwait	—	—	—	165	—	—	—	—	—
Libya	—	—	—	—	—	147	—	—	147
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	63	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	1,858	—	—	—	6,195	6,195
Non-OPEC	614	26	—	9,743	4	545	884	15,801	17,230
Argentina	—	—	—	6	—	204	317	—	521
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	80	315	268	663
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	7	—	4,790	4	—	127	8,084	8,211
Chad	—	—	—	—	—	—	—	—	—
China	153	—	—	116	—	—	—	—	—
Colombia	108	—	—	—	—	—	—	1,517	1,517
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	1,945	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	74	—	—	—	—	—
Korea, South	353	—	—	2,627	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	419	419
Netherlands	—	19	—	—	—	—	—	707	707
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	7	—	—	—	260	260
Spain	—	—	—	—	—	—	—	80	80
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	3,586	3,586
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	178	0	261	125	594	980
Total	614	26	—	11,831	4	692	884	21,996	23,572
Persian Gulf³	—	—	—	230	—	—	—	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	-	-	-	-	773	125	-	26,687	139,437	464	110	574
Algeria	-	-	-	-	-	-	-	2,915	23,094	83	12	95
Angola	-	-	-	-	-	-	-	1,092	12,717	48	4	52
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	1,001	4	-	4
Gabon	-	-	-	-	-	-	-	-	1,397	6	-	6
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	400	12,908	51	2	53
Kuwait	-	-	-	-	-	-	-	165	165	-	1	1
Libya	-	-	-	-	-	-	-	147	7,775	31	1	32
Nigeria	-	-	-	-	-	-	-	2,625	36,150	138	11	149
Qatar	-	-	-	-	-	-	-	2,190	2,190	-	9	9
Saudi Arabia	-	-	-	-	-	-	-	3,241	25,900	93	13	107
United Arab Emirates	-	-	-	-	-	125	-	125	125	-	1	1
Venezuela	-	-	-	-	773	-	-	13,787	13,787	-	57	57
Non-OPEC	9	1	566	184	5,362	1,199	-	232,784	332,790	412	958	1,370
Argentina	-	-	-	-	-	13	-	540	540	-	2	2
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	51	-	51	51	-	0	0
Belgium	-	-	-	-	78	43	-	7,662	7,662	-	32	32
Brazil	-	-	-	-	-	-	-	4,680	5,671	4	19	23
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	1,144	5	-	5
Canada	2	1	342	2	4,659	801	-	90,444	141,346	209	372	582
Chad	-	-	-	-	-	-	-	-	2,806	12	-	12
China	-	-	148	-	-	-	-	417	417	-	2	2
Colombia	-	-	-	167	34	-	-	6,867	13,842	29	28	57
Denmark	-	-	-	-	-	-	-	419	1,249	3	2	5
Egypt	-	-	-	-	-	-	-	430	5,142	19	2	21
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	15	-	2,294	2,294	-	9	9
France	-	-	-	-	-	73	-	5,836	5,836	-	24	24
Germany	-	-	17	-	-	67	-	741	741	-	3	3
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	20,165	20,165	-	83	83
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	11	-	2,348	2,348	-	10	10
Korea, South	-	-	4	-	-	69	-	4,419	4,419	-	18	18
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	323	323	-	1	1
Malaysia	-	-	3	-	-	-	-	3	3	-	0	0
Mexico	-	-	-	-	-	-	-	419	2,900	10	2	12
Netherlands	-	-	-	-	-	6	-	9,836	9,836	-	40	40
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	5,663	15,933	42	23	66
Oman	-	-	-	-	-	-	-	161	161	-	1	1
Portugal	-	-	-	-	-	-	-	8,360	8,360	-	34	34
Russia	-	-	-	-	-	39	-	16,921	23,387	27	70	96
Spain	-	-	10	-	406	-	-	11,051	11,051	-	45	45
Sweden	-	-	-	-	-	-	-	2,665	2,665	-	11	11
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	3,586	3,586	-	15	15
United Kingdom	7	-	-	7	-	-	-	19,178	22,497	14	79	93
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	42	8	185	11	-	7,305	15,018	32	31	62
Total	9	1	566	184	6,135	1,324	-	259,471	472,227	876	1,068	1,943
Persian Gulf³	-	-	-	-	-	176	-	6,172	41,339	145	25	170

- = No Data Reported.

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

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

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

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

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

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	574	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	574	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	609,712	16,866	3,317	750	-	-	-	64	3,029	3,093
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	22	22
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	606,701	16,866	3,317	429	-	-	-	64	3,007	3,071
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	3,011	-	-	-	-	-	-	-	-	-
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	321	-	-	-	0	0	0
Total	610,286	16,866	3,317	750	-	-	-	64	3,029	3,093
Persian Gulf³	574	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	351	-	-	778	-	461	49	1,288
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	351	-	-	778	-	461	49	1,288
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	351	-	-	778	-	461	49	1,288
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	2	20	-	-	340	1	276	537	814
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	2	20	-	-	340	1	276	537	814
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
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	0
Total	2	20	-	-	340	1	276	537	814
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	-	-	-	-	-	5	-	5	579	2	0	2
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	574	2	-	2
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	5	-	5	5	-	0	0
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	560	548	40	217	2,258	1,102	8	31,600	641,312	2,509	130	2,639
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	22	22	-	0	0
Brunel	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	560	548	40	212	2,258	1,098	8	31,248	637,949	2,497	129	2,625
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	1	-	1	1	-	0	0
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	1	-	1	1	-	0	0
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	3,011	12	-	12
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	5	-	-	-	5	5	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	2	0	323	323	0	1	2
Total	560	548	40	217	2,258	1,107	8	31,605	641,891	2,511	130	2,642
Persian Gulf³	-	-	-	-	-	5	-	5	579	2	0	2

- = No Data Reported.

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

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

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

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

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

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	359,584	-	-	29,246	-	-	-	-	836	836
Algeria	-	-	-	14,757	-	-	-	-	318	318
Angola	6,967	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	10,198	-	-	-	-	-	-	-	-	-
Equatorial Guinea	1,294	-	-	-	-	-	-	-	-	-
Gabon	398	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	108,809	-	-	110	-	-	-	-	-	-
Kuwait	10,938	-	-	-	-	-	-	-	-	-
Libya	-	-	-	151	-	-	-	-	-	-
Nigeria	9,834	-	-	464	-	-	-	-	63	63
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	94,287	-	-	1,258	-	-	-	-	-	-
United Arab Emirates	-	-	-	10,793	-	-	-	-	-	-
Venezuela	116,859	-	-	789	-	-	-	-	455	455
Non-OPEC	342,369	1	1,019	89,342	-	597	597	-	15,109	15,109
Argentina	2,063	-	-	13	-	-	-	-	549	549
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	529	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	9,487	-	-	-	-	41	41
Brazil	15,492	-	-	2,164	-	-	-	-	655	655
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	559	-	-	-	-	-	-
Canada	111,739	1	-	1,969	-	-	-	-	-	-
Chad	2,599	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	42,420	-	-	216	-	-	-	-	55	55
Denmark	-	-	-	972	-	-	-	-	15	15
Egypt	2,761	-	-	1,257	-	-	-	-	259	259
Estonia	-	-	-	80	-	-	-	-	-	-
Finland	-	-	-	476	-	-	-	-	329	329
France	-	-	-	1,868	-	60	60	-	575	575
Germany	-	-	-	509	-	-	-	-	-	-
Guatemala	1,652	-	-	-	-	-	-	-	-	-
India	-	-	-	492	-	-	-	-	958	958
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	438	-	-	2,371	-	-	-	-	358	358
Korea, South	-	-	-	-	-	-	-	-	266	266
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	120	-	-	-	-	-	-
Mexico	147,440	-	207	60	-	-	-	-	2,097	2,097
Netherlands	-	-	-	2,899	-	1	1	-	778	778
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	4,859	-	-	-	-	39	39
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	206	206
Russia	-	-	-	48,853	-	-	-	-	89	89
Spain	-	-	-	1,356	-	51	51	-	1,894	1,894
Sweden	-	-	-	58	-	54	54	-	419	419
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,219	-	-	348	-	-	-	-	-	-
United Kingdom	9,403	-	-	632	-	-	-	-	1,405	1,405
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	4,216	0	812	7,724	-	431	431	-	4,122	4,122
Total	701,953	1	1,019	118,588	-	597	597	-	15,945	15,945
Persian Gulf³	214,034	-	-	12,161	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	-	-	-	-	-	-	326	-	140	-	466
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	140	-	140
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	326	-	-	-	326
Non-OPEC	1,420	1,030	-	367	-	-	309	-	354	241	904
Argentina	88	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	52	-	-	-	-	-	-	-	-	-	-
Brazil	511	745	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	142	-	-	-	-	77	-	77
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	154	-	-	-	-	-	-	-
Germany	87	-	-	71	-	-	-	-	-	-	5
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	293	-	277	-	570
Netherlands	337	285	-	-	-	-	16	-	-	-	85
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	345	-	-	-	-	-	-	-	-	167	167
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	0	-	0	74	0
Total	1,420	1,030	-	367	-	-	635	-	494	241	1,370
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	-	-	-	-	70	2,698	-	3,370	6,068
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	70	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	43	43
Venezuela	-	-	-	-	-	2,698	-	3,327	6,025
Non-OPEC	-	-	-	-	3,198	3,227	993	10,762	14,982
Argentina	-	-	-	-	-	4	-	1	5
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	53	78	50	-	128
Brazil	-	-	-	-	163	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	317	-	-	605	605
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	289	289
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	32	-	326	358
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	107	123	-	-	123
Germany	-	-	-	-	14	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	30	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	1,576	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	37	283	-	6,005	6,288
Netherlands	-	-	-	-	3	57	-	-	57
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	53	-	-	-	-
Russia	-	-	-	-	-	1,749	-	2,128	3,877
Spain	-	-	-	-	-	-	263	-	263
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	85	-	967	1,052
United Kingdom	-	-	-	-	-	38	-	-	38
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	845	778	680	441	1,899
Total	-	-	-	-	3,268	5,925	993	14,132	21,050
Persian Gulf³	-	-	-	-	70	-	-	43	43

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	558	—	—	—	—	2,962	—	40,206	399,790	1,480	165	1,645
Algeria	327	—	—	—	—	—	—	15,402	15,402	—	63	63
Angola	—	—	—	—	—	—	—	—	6,967	29	—	29
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	10,198	42	—	42
Equatorial Guinea	—	—	—	—	—	—	—	—	1,294	5	—	5
Gabon	—	—	—	—	—	—	—	—	398	2	—	2
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	110	108,919	448	0	448
Kuwait	—	—	—	—	—	—	—	—	10,938	45	—	45
Libya	—	—	—	—	—	—	—	151	151	—	1	1
Nigeria	231	—	—	—	—	—	—	898	10,732	40	4	44
Qatar	—	—	—	—	—	2,429	—	2,429	2,429	—	10	10
Saudi Arabia	—	—	—	—	—	—	—	1,328	95,615	388	5	393
United Arab Emirates	—	—	—	—	—	533	—	11,369	11,369	—	47	47
Venezuela	—	—	—	—	—	—	—	7,595	124,454	481	31	512
Non-OPEC	2,693	175	263	2,436	—	4,990	59	138,633	481,002	1,409	571	1,979
Argentina	—	36	—	887	—	24	—	1,602	3,665	8	7	15
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	529	2	—	2
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	662	—	662	662	—	3	3
Belgium	—	—	—	—	—	88	—	9,851	9,851	—	41	41
Brazil	—	—	—	145	—	—	—	4,383	19,875	64	18	82
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	559	559	—	2	2
Canada	—	—	—	243	—	9	—	3,363	115,102	460	14	474
Chad	—	—	—	—	—	—	—	—	2,599	11	—	11
China	—	—	110	318	—	—	—	428	428	—	2	2
Colombia	—	—	—	—	—	—	—	560	42,980	175	2	177
Denmark	—	—	—	—	—	—	—	987	987	—	4	4
Egypt	—	—	—	—	—	—	—	1,516	4,277	11	6	18
Estonia	—	—	—	—	—	—	—	438	438	—	2	2
Finland	—	—	—	—	—	—	—	805	805	—	3	3
France	27	139	—	—	—	46	—	3,099	3,099	—	13	13
Germany	—	—	—	—	—	57	—	747	747	—	3	3
Guatemala	—	—	—	—	—	—	—	—	1,652	7	—	7
India	—	—	—	—	—	—	—	1,480	1,480	—	6	6
Indonesia	—	—	—	—	—	560	—	560	560	—	2	2
Italy	—	—	—	—	—	147	—	2,883	3,321	2	12	14
Korea, South	23	—	—	—	—	2,912	—	4,777	4,777	—	20	20
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	117	—	—	—	—	237	237	—	1	1
Mexico	1,740	—	—	—	—	—	—	10,999	158,439	607	45	652
Netherlands	53	—	—	—	—	—	59	4,568	4,568	—	19	19
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	4,898	4,898	—	20	20
Oman	—	—	—	403	—	66	—	469	469	—	2	2
Portugal	—	—	—	—	—	—	—	259	259	—	1	1
Russia	—	—	—	255	—	—	—	53,586	53,586	—	221	221
Spain	—	—	—	—	—	23	—	3,587	3,587	—	15	15
Sweden	—	—	—	—	—	2	—	533	533	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	1,400	2,619	5	6	11
United Kingdom	199	—	—	185	—	151	—	2,610	12,013	39	11	49
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	651	0	36	0	—	243	0	16,787	21,003	16	68	83
Total	3,251	175	263	2,436	—	7,952	59	178,839	880,792	2,889	736	3,625
Persian Gulf³	—	—	—	—	—	3,624	—	15,898	229,932	881	65	946

— = No Data Reported.

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

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

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

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

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

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	72,407	2,560	-	32	-	-	-	-	601	601
Canada	72,407	2,560	-	32	-	-	-	-	601	601
Other	0	0	-	0	-	-	-	-	0	0
Total	72,407	2,560	-	32	-	-	-	-	601	601
PAD District 5										
OPEC	174,407	-	-	5,304	-	-	-	-	228	228
Algeria	-	-	-	3,882	-	-	-	-	-	-
Angola	8,695	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	33,550	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	22,812	-	-	-	-	-	-	-	-	-
Kuwait	12,997	-	-	-	-	-	-	-	-	-
Libya	6,001	-	-	-	-	-	-	-	-	-
Nigeria	1,997	-	-	86	-	-	-	-	228	228
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	82,732	-	-	-	-	-	-	-	-	-
United Arab Emirates	1,046	-	-	1,336	-	-	-	-	-	-
Venezuela	1,631	-	-	-	-	-	-	-	-	-
Non-OPEC	160,385	9,405	2	15,695	-	1,780	1,780	951	4,925	5,876
Argentina	3,208	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	21,487	-	-	-	-	-	-	-	-	-
Brunei	2,027	-	-	-	-	-	-	-	-	-
Canada	61,007	8,906	2	1,573	-	277	277	-	1,373	1,373
China	-	-	-	-	-	-	-	-	157	157
Colombia	32,822	-	-	-	-	-	-	-	297	297
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	96	-	-	-	-	-	-
Indonesia	11,314	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	96	96	-	675	675
Korea, South	-	56	-	120	-	622	622	-	655	655
Malaysia	588	-	-	262	-	-	-	-	-	-
Mexico	12,469	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	233	-	48	48	438	313	751
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	56	-	1,203	-	-	-	-	-	-
Singapore	-	-	-	147	-	-	-	-	503	503
Sweden	-	-	-	-	-	-	-	47	-	47
Taiwan	-	-	-	-	-	3	3	-	725	725
United Kingdom	316	-	-	-	-	65	65	319	-	319
Vietnam	788	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	14,359	387	0	12,061	-	669	669	147	227	374
Total	334,792	9,405	2	20,999	-	1,780	1,780	951	5,153	6,104
Persian Gulf³	119,587	-	-	1,336	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	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	Total
PAD District 4											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	14	-	-	409	-	-	-	409
Canada	-	-	-	14	-	-	409	-	-	-	409
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	14	-	-	409	-	-	-	409
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	304	221	3,009	-	2,783	-	36	-	2,819
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	275	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	128	-	-	1,722	-	36	-	1,758
China	-	-	-	-	-	-	365	-	-	-	365
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	63	-	-	-	63
Korea, South	-	-	-	93	-	-	331	-	-	-	331
Malaysia	-	-	-	-	-	-	241	-	-	-	241
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	61	-	-	-	61
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	29	0	3,009	-	0	-	0	-	0
Total	-	-	304	221	3,009	-	2,783	-	36	-	2,819
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-August 2018
(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	-	-	-	46	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	46	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	5	-	-	-	-	-	-	-
Canada	-	5	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	-	-	-
Total	-	5	-	46	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	-	-	781	781
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	438	438
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	343	343
Non-OPEC	-	3	-	19,027	-	-	1,403	5,683	7,086
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	3	-	59	-	-	1,403	671	2,074
China	-	-	-	2,859	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	2,409	-	-	-	-	-
Korea, South	-	-	-	11,636	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	2,390	2,390
Netherlands	-	-	-	-	-	-	-	350	350
Netherlands Antilles	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	1,562	1,562
Singapore	-	-	-	1,429	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	315	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	320	-	-	0	710	710
Total	-	3	-	19,027	-	-	1,403	6,464	7,867
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-August 2018
(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	-	-	-	-	-	-	-	46	46	-	0	0
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	46	46	-	0	0
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	247	-	8	3,876	76,283	298	16	314
Canada	-	-	-	-	247	-	8	3,876	76,283	298	16	314
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	247	-	8	3,922	76,329	298	16	314
PAD District 5												
OPEC	-	-	-	-	-	-	-	6,313	180,720	718	26	744
Algeria	-	-	-	-	-	-	-	3,882	3,882	-	16	16
Angola	-	-	-	-	-	-	-	-	8,695	36	-	36
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	438	33,988	138	2	140
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	22,812	94	-	94
Kuwait	-	-	-	-	-	-	-	-	12,997	53	-	53
Libya	-	-	-	-	-	-	-	-	6,001	25	-	25
Nigeria	-	-	-	-	-	-	-	314	2,311	8	1	10
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	82,732	340	-	340
United Arab Emirates	-	-	-	-	-	-	-	1,336	2,382	4	5	10
Venezuela	-	-	-	-	-	-	-	343	1,974	7	1	8
Non-OPEC	305	-	250	210	796	85	-	66,873	227,258	660	275	935
Argentina	-	-	-	-	-	-	-	-	3,208	13	-	13
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	275	21,762	88	1	90
Brunei	-	-	-	-	-	-	-	-	2,027	8	-	8
Canada	-	-	-	210	705	62	-	17,130	78,137	251	70	322
China	-	-	210	-	91	-	-	3,682	3,682	-	15	15
Colombia	-	-	-	-	-	-	-	297	33,119	135	1	136
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	96	96	-	0	0
Indonesia	-	-	-	-	-	-	-	-	11,314	47	-	47
Japan	-	-	38	-	-	-	-	3,281	3,281	-	14	14
Korea, South	-	-	-	-	-	23	-	13,536	13,536	-	56	56
Malaysia	-	-	2	-	-	-	-	505	1,093	2	2	4
Mexico	-	-	-	-	-	-	-	2,390	14,859	51	10	61
Netherlands	-	-	-	-	-	-	-	1,382	1,382	-	6	6
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	2,821	2,821	-	12	12
Singapore	-	-	-	-	-	-	-	5,149	5,149	-	21	21
Sweden	-	-	-	-	-	-	-	47	47	-	0	0
Taiwan	305	-	-	-	-	-	-	1,348	1,348	-	6	6
United Kingdom	-	-	-	-	-	-	-	384	700	1	2	3
Vietnam	-	-	-	-	-	-	-	-	788	3	-	3
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	0	-	14,550	28,909	61	59	118
Total	305	-	250	210	796	85	-	73,186	407,978	1,378	301	1,679
Persian Gulf³	-	-	-	-	-	-	-	1,336	120,923	492	5	498

- = No Data Reported.

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

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

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

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

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

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, August 2018
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	850	2,299	51,079	-	-	54,228	1,749
Hydrocarbon Gas Liquids	4,363	7,796	36,786	75	1,857	50,877	1,641
Natural Gas Liquids	4,363	7,796	36,786	75	1,857	50,877	1,641
Ethane	1,406	2,770	4,745	-	0	8,921	288
Propane	2,434	84	27,890	0	1,046	31,454	1,015
Normal Butane	437	351	3,880	14	795	5,477	177
Isobutane	0	1	238	-	-	239	8
Natural Gasoline	85	4,590	34	61	16	4,786	154
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	281	2,948	10,198	0	659	14,086	454
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	16	832	4,349	-	198	5,396	174
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	2	1	2,186	-	1	2,190	71
Methyl Tertiary Butyl Ether (MTBE)	0	-	1,193	-	0	1,193	38
Other Oxygenates	2	1	993	-	1	997	32
Renewable Fuels (including Fuel Ethanol) ...	15	831	2,163	-	197	3,206	103
Fuel Ethanol	7	704	2,155	-	76	2,942	95
Biomass-Based Diesel	8	127	8	-	121	263	8
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	45	2,103	4,556	0	53	6,757	218
Naphthas and Lighter	3	2,095	4,443	0	30	6,571	212
Kerosene and Light Gas Oils	42	8	113	-	22	186	6
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	220	12	1,293	-	408	1,933	62
Reformulated	2	-	5	-	3	10	0
Conventional	218	12	1,287	-	405	1,923	62
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	3,839	1,076	83,902	36	10,288	99,142	3,198
Finished Motor Gasoline	29	83	19,736	1	1,830	21,678	699
Reformulated	-	-	-	-	-	-	-
Conventional	29	83	19,736	1	1,830	21,678	699
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	239	69	5,850	-	759	6,917	223
Kerosene	-	-	-	-	-	-	-
Distillate Fuel Oil	225	194	36,916	-	2,797	40,133	1,295
15 ppm sulfur and under	6	1	33,166	-	2,108	35,281	1,138
Greater than 15 ppm to 500 ppm sulfur	187	121	1,567	-	12	1,887	61
Greater than 500 ppm sulfur	31	73	2,183	-	677	2,965	96
Residual Fuel Oil	2,546	104	7,848	7	834	11,338	366
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	181	227	2,263	9	405	3,086	100
Waxes	75	34	29	0	6	145	5
Petroleum Coke	381	207	10,842	10	3,620	15,060	486
Asphalt and Road Oil	148	157	409	9	36	759	24
Miscellaneous Products	15	1	10	0	0	26	1
Total	9,333	14,119	181,965	111	12,803	218,332	7,043

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.
Sources: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-August 2018
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	8,105	28,633	400,061	130	2,786	439,715	1,810
Hydrocarbon Gas Liquids	21,852	71,347	282,257	625	11,145	387,226	1,594
Natural Gas Liquids	21,852	71,347	282,257	625	11,145	387,226	1,594
Ethane	6,241	21,207	33,991	—	0	61,440	253
Propane	12,706	1,264	212,353	3	7,957	233,374	960
Normal Butane	2,338	2,918	35,438	88	3,120	43,722	180
Isobutane	8	3	1,323	—	3	1,331	5
Natural Gasoline	570	45,972	172	534	112	47,359	195
Refinery Olefins	—	—	—	—	—	—	—
Ethylene	—	—	—	—	—	—	—
Propylene	—	—	—	—	—	—	—
Butylene	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—
Other Liquids	2,328	22,409	93,514	9	4,995	123,255	507
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	814	5,773	37,888	1	1,793	46,270	190
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	12	9	16,678	0	7	16,706	69
Methyl Tertiary Butyl Ether (MTBE)	0	0	8,837	—	0	8,838	36
Other Oxygenates	12	9	7,840	0	7	7,868	32
Renewable Fuels (including Fuel Ethanol) ...	802	5,764	21,211	1	1,786	29,564	122
Fuel Ethanol	726	4,898	20,850	—	1,233	27,707	114
Biomass-Based Diesel	76	866	361	1	554	1,857	8
Other Renewable Diesel	—	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	301	16,265	46,548	7	745	63,866	263
Naphthas and Lighter	129	16,198	44,640	7	665	61,639	254
Kerosene and Light Gas Oils	171	67	1,908	1	79	2,227	9
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	1,214	370	9,078	0	2,457	13,119	54
Reformulated	16	1	98	—	16	132	1
Conventional	1,198	369	8,980	0	2,441	12,988	53
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	35,771	7,944	694,701	208	88,034	826,658	3,402
Finished Motor Gasoline	1,103	1,643	185,498	10	14,983	203,238	836
Reformulated	—	—	—	—	—	—	—
Conventional	1,103	1,643	185,498	10	14,983	203,238	836
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	2,850	384	44,738	—	6,249	54,221	223
Kerosene	39	21	957	1	17	1,035	4
Distillate Fuel Oil	9,615	1,010	274,753	0	23,051	308,428	1,269
15 ppm sulfur and under	5,682	157	238,131	0	16,259	260,229	1,071
Greater than 15 ppm to 500 ppm sulfur	1,812	449	18,901	—	1,680	22,843	94
Greater than 500 ppm sulfur	2,121	403	17,722	—	5,111	25,357	104
Residual Fuel Oil	11,567	1,062	61,414	78	8,397	82,518	340
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	2,226	1,615	20,989	69	3,004	27,904	115
Waxes	535	247	176	3	47	1,007	4
Petroleum Coke	7,096	1,143	102,727	14	31,968	142,948	588
Asphalt and Road Oil	627	804	3,384	33	244	5,092	21
Miscellaneous Products	112	16	64	1	74	267	1
Total	68,056	130,332	1,470,533	973	106,960	1,776,854	7,312

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

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

Sources: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 2018
(Thousand Barrels)

Destination	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	0	—	13	—	18	18	—	—	—
Australia	133	1	—	0	—	0	0	0	—	0
Bahamas	481	132	—	0	—	116	116	0	—	0
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	16	—	—	—	—	—	—
Belize	—	—	—	—	—	—	—	—	—	—
Brazil	649	2,138	—	1,128	—	1	1	—	63	63
Canada	10,646	8,064	—	2,112	—	269	269	—	419	419
Cayman Islands	—	—	—	—	—	35	35	—	—	—
Chile	—	1,078	—	8	—	0	0	0	128	128
China	—	2,780	—	6	—	—	—	—	—	—
Colombia	1,069	2	—	1,690	—	899	899	—	—	—
Costa Rica	—	114	—	0	—	330	330	—	291	291
Denmark	—	—	—	—	—	—	—	—	—	—
Dominican Republic	474	1,451	—	0	—	255	255	0	—	0
Ecuador	—	998	—	—	—	1,056	1,056	—	262	262
Egypt	—	—	—	—	—	—	—	—	—	—
El Salvador	—	222	—	0	—	317	317	—	0	0
Finland	—	—	—	—	—	—	—	—	—	—
France	—	29	—	9	—	—	—	—	0	0
Germany	—	0	—	1	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	411	—	—	—	—	—	—	—	—
Greece	589	—	—	—	—	—	—	—	—	—
Guatemala	—	692	—	0	—	1,051	1,051	—	—	—
Honduras	—	366	—	—	—	518	518	—	—	—
Hong Kong	—	—	—	0	—	—	—	—	0	0
India	6,073	2,484	—	18	—	—	—	1	—	1
Indonesia	—	2,193	—	0	—	—	—	—	—	—
Ireland	1,178	—	—	—	—	—	—	—	—	—
Israel	—	0	—	—	—	—	—	—	—	—
Italy	3,067	—	—	—	—	—	—	—	—	—
Jamaica	—	140	—	—	—	4	4	—	—	—
Japan	1,550	8,509	—	4	—	0	0	3	0	3
Korea, South	8,269	5,291	—	13	—	4	4	0	0	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	4,245	—	233	—	13,061	13,061	5	544	549
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	380	—	24	—	617	617	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	2,363	2,341	—	20	—	—	—	—	216	216
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	77	—	191	191	—	—	—
Nigeria	—	211	—	0	—	—	—	—	—	—
Norway	1,796	987	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	—	0	—	0	—	1,168	1,168	—	0	0
Peru	—	252	—	—	—	629	629	—	—	—
Philippines	—	1	—	0	—	—	—	—	—	—
Portugal	—	414	—	—	—	—	—	—	—	—
Puerto Rico	—	14	—	0	—	8	8	—	0	0
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	—	1	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	968	578	—	16	—	3	3	—	0	0
South Africa	—	0	—	0	—	324	324	—	—	—
Spain	171	563	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—	—	—
Taiwan	6,147	229	—	0	—	—	—	—	0	0
Thailand	553	—	—	0	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	6	—	0	0	—	—	—
Turkey	—	347	—	—	—	—	—	—	—	—
United Arab Emirates	1,882	—	—	1	—	3	3	—	—	—
United Kingdom	4,723	1,967	—	0	—	1	1	—	0	0
Venezuela	—	1	—	1,354	—	712	712	1	—	1
Other	1,447	1,252	—	7	—	88	88	—	—	—
Total	54,228	50,877	—	6,757	—	21,678	21,678	10	1,923	1,933

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 2018
(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	—	—	—	—	—	—	1,513	—	—	—	1,513
Australia	—	0	0	—	—	—	—	—	—	—	—
Bahamas	—	0	—	—	—	—	238	—	433	—	672
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	8	—	0	—	—	—	321	107	—	—	428
Belize	—	—	—	0	—	—	0	38	—	—	38
Brazil	—	0	0	—	—	—	5,273	130	275	—	5,678
Canada	—	0	716	243	—	—	367	213	123	—	702
Cayman Islands	—	—	—	—	—	—	83	—	—	—	83
Chile	206	—	0	—	—	—	3,664	—	—	—	3,664
China	—	0	0	—	—	—	1	—	—	—	1
Colombia	—	—	0	—	—	—	200	—	—	—	200
Costa Rica	—	0	0	—	—	—	490	—	—	—	490
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	0	—	—	—	623	—	—	—	623
Ecuador	—	—	—	—	—	—	264	265	262	—	791
Egypt	—	—	—	—	—	—	1	—	—	—	1
El Salvador	—	—	—	—	—	—	209	254	—	—	464
Finland	—	—	—	—	—	—	—	—	—	—	—
France	15	0	—	—	—	—	2,536	—	—	—	2,536
Germany	0	0	0	2	—	—	0	—	—	—	0
Ghana	—	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	1,335	—	—	—	1,335
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	0	—	—	—	—	1,270	144	—	—	1,414
Honduras	—	—	—	—	—	—	226	138	0	—	364
Hong Kong	—	—	—	—	—	—	—	—	—	—	—
India	0	0	199	—	—	—	0	—	—	—	0
Indonesia	—	0	—	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—	—
Israel	—	—	0	—	—	—	2	—	—	—	2
Italy	—	0	—	—	—	—	—	18	—	—	18
Jamaica	—	—	53	—	—	—	364	—	60	—	424
Japan	—	993	0	—	—	—	1	—	—	—	1
Korea, South	—	0	16	—	—	—	1	—	—	—	1
Lebanon	—	—	—	—	—	—	310	—	—	—	310
Mexico	686	1	82	1	—	—	8,354	38	5	—	8,397
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	1,399	—	—	—	1,399
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	419	7	—	—	—	300	31	—	332
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	—	—	120	—	—	120
Nigeria	—	—	80	—	—	—	—	—	—	—	—
Norway	—	—	52	—	—	—	—	—	—	—	—
Pakistan	—	0	0	—	—	—	—	—	—	—	—
Panama	—	0	0	—	—	—	646	120	535	—	1,301
Peru	—	—	124	—	—	—	1,848	—	—	—	1,848
Philippines	—	—	101	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	95	—	—	—	0	—	—	—	0
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	47	—	—	—	0	—	—	—	0
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	0	2	1	—	—	602	—	327	—	929
South Africa	—	0	—	—	—	—	—	—	—	—	—
Spain	—	—	42	—	—	—	316	—	—	—	316
Switzerland	—	—	—	4	—	—	—	—	—	—	—
Taiwan	—	0	—	—	—	—	—	—	—	—	—
Thailand	—	0	0	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	0	—	—	—	—	—	—	—	—
Turkey	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	0	358	—	—	—	—	—	—	—	—
United Kingdom	—	—	0	—	—	—	1,411	—	—	—	1,411
Venezuela	277	—	—	—	—	—	783	—	232	—	1,015
Other	1	3	556	5	—	—	630	2	682	—	1,312
Total	1,193	997	2,942	263	—	—	35,281	1,887	2,965	—	40,133

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 2018
(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	-	-	-	199	-	-	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	55	-	629	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Belize	-	-	-	37	-	-	-	-
Brazil	-	-	-	641	-	0	-	-
Canada	-	-	-	1,400	-	365	-	-
Cayman Islands	-	-	-	12	-	-	-	-
Chile	-	-	-	190	-	-	-	-
China	-	-	-	1	-	-	-	-
Colombia	-	-	-	1	-	-	-	-
Costa Rica	-	-	-	130	-	190	-	-
Denmark	-	-	-	-	-	0	-	-
Dominican Republic	-	-	-	151	-	-	-	-
Ecuador	-	-	-	8	-	221	-	-
Egypt	-	-	-	-	-	-	-	-
El Salvador	-	-	-	0	-	-	-	-
Finland	-	-	-	61	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Ghana	-	-	-	-	-	-	-	-
Gibraltar	-	-	-	-	-	270	-	-
Greece	-	-	-	-	-	-	-	-
Guatemala	-	-	-	156	-	37	-	-
Honduras	-	-	-	28	-	258	-	-
Hong Kong	-	-	-	0	-	-	-	-
India	-	-	-	1	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Ireland	-	-	-	-	-	-	-	-
Israel	-	-	-	334	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Jamaica	-	-	-	110	-	200	-	-
Japan	-	-	-	-	-	-	-	-
Korea, South	-	-	-	0	-	0	-	-
Lebanon	-	-	-	0	-	767	-	-
Mexico	-	-	-	1,961	-	1,486	-	-
Montenegro	-	-	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	-	-
Mozambique	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	2,893	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-
New Zealand	-	-	-	-	-	-	-	-
Nicaragua	-	-	-	15	-	-	-	-
Nigeria	-	-	-	0	-	-	-	-
Norway	-	-	-	60	-	-	-	-
Pakistan	-	-	-	-	-	-	-	-
Panama	-	-	-	643	-	523	-	-
Peru	-	-	-	0	-	-	-	-
Philippines	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	1	-	-	-	-
Romania	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-
Singapore	-	-	-	0	-	3,149	-	-
South Africa	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	0	-	-
Thailand	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	1	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	0	-	-	-	-
United Kingdom	-	-	-	320	-	0	-	-
Venezuela	-	-	-	-	-	-	-	-
Other	-	-	-	401	-	350	-	-
Total	-	-	-	6,917	-	11,338	-	-

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, August 2018
(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	171	0	8	—	1,922	1,922	—	62	62
Australia	0	286	0	36	1	326	458	4	11	15
Bahamas	—	—	2	2	—	1,609	2,089	16	52	67
Bahrain	—	—	—	0	—	0	0	—	0	0
Belgium	—	25	65	481	1	1,024	1,024	—	33	33
Belize	—	—	—	1	—	76	76	—	2	2
Brazil	1	644	—	265	1	10,561	11,210	21	341	362
Canada	97	465	239	317	5	15,411	26,057	343	497	841
Cayman Islands	—	—	1	1	—	132	132	—	4	4
Chile	0	1	0	92	0	5,367	5,367	—	173	173
China	3	1,222	1	20	1	4,035	4,035	—	130	130
Colombia	0	—	0	80	0	2,872	3,941	34	93	127
Costa Rica	0	—	61	17	—	1,624	1,624	—	52	52
Denmark	—	—	—	0	—	0	0	—	0	0
Dominican Republic	1	—	19	18	0	2,517	2,991	15	81	96
Ecuador	0	—	0	238	0	3,574	3,574	—	115	115
Egypt	—	290	—	9	—	300	300	—	10	10
El Salvador	—	—	—	48	—	1,051	1,051	—	34	34
Finland	—	—	0	0	—	61	61	—	2	2
France	0	303	—	1	—	2,894	2,894	—	93	93
Germany	5	0	0	5	0	14	14	—	0	0
Ghana	—	—	—	0	—	0	0	—	0	0
Gibraltar	—	—	—	26	—	2,043	2,043	—	66	66
Greece	—	726	—	0	—	726	1,315	19	23	42
Guatemala	0	165	—	17	—	3,532	3,532	—	114	114
Honduras	—	223	61	9	—	1,826	1,826	—	59	59
Hong Kong	0	—	—	2	0	2	2	—	0	0
India	2	495	1	44	0	3,246	9,319	196	105	301
Indonesia	0	0	1	3	0	2,196	2,196	—	71	71
Ireland	—	—	—	—	0	0	1,178	38	0	38
Israel	0	—	—	3	—	339	339	—	11	11
Italy	0	239	—	29	—	287	3,353	99	9	108
Jamaica	—	—	2	5	0	938	938	—	30	30
Japan	1	2,358	0	13	3	11,886	13,437	50	383	433
Korea, South	0	581	0	3	0	5,910	14,179	267	191	457
Lebanon	—	119	—	0	—	1,197	1,197	—	39	39
Mexico	27	2,548	139	802	10	34,225	34,225	—	1,104	1,104
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	640	—	0	—	3,059	3,059	—	99	99
Mozambique	—	107	—	—	—	107	107	—	3	3
Netherlands	4	299	1	69	0	6,601	8,965	76	213	289
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	44	—	0	—	44	44	—	1	1
Nicaragua	—	—	—	2	—	405	405	—	13	13
Nigeria	—	0	0	81	—	372	372	—	12	12
Norway	—	87	—	1	—	1,186	2,982	58	38	96
Pakistan	0	—	—	0	—	0	0	—	0	0
Panama	0	—	53	29	—	3,718	3,718	—	120	120
Peru	0	—	1	72	0	2,926	2,926	—	94	94
Philippines	0	—	—	4	0	106	106	—	3	3
Portugal	—	—	—	0	—	415	415	—	13	13
Puerto Rico	0	—	1	13	0	132	132	—	4	4
Romania	—	—	—	0	—	0	0	—	0	0
Saudi Arabia	0	91	—	6	—	145	145	—	5	5
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	0	1	2	—	4,681	5,649	31	151	182
South Africa	0	190	0	33	—	548	548	—	18	18
Spain	1	149	—	2	—	1,072	1,243	6	35	40
Switzerland	—	—	—	0	—	4	4	—	0	0
Taiwan	0	—	0	5	0	236	6,382	198	8	206
Thailand	0	—	0	4	0	4	557	18	0	18
Trinidad and Tobago	—	—	—	8	—	15	15	—	0	0
Turkey	0	1,844	—	20	—	2,211	2,211	—	71	71
United Arab Emirates	0	—	1	18	—	380	2,262	61	12	73
United Kingdom	0	44	0	1	0	3,745	8,468	152	121	273
Venezuela	—	—	—	4	—	3,364	3,364	—	109	109
Other	3	704	109	117	4	4,906	6,354	47	161	210
Total	145	15,060	759	3,086	26	164,105	218,332	1,749	5,294	7,043

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

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

Sources: U.S. Census Bureau and EIA estimates.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 2018
(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	305	0	—	1,414	—	2,130	2,130	—	0	0
Australia	133	2,295	—	1	—	1,215	1,215	1	0	1
Bahamas	481	1,033	—	0	—	2,349	2,349	0	0	1
Bahrain	—	—	—	0	—	6	6	—	—	—
Belgium	—	302	—	674	—	1	1	—	0	0
Belize	—	—	—	—	—	417	417	—	0	0
Brazil	3,742	16,027	—	4,211	—	7,787	7,787	0	243	243
Canada	84,053	73,369	—	16,571	—	7,616	7,616	—	6,060	6,060
Cayman Islands	—	161	—	0	—	249	249	0	—	0
Chile	—	7,984	—	1,110	—	1,772	1,772	1	129	129
China	80,060	24,386	—	1,404	—	62	62	—	—	—
Colombia	6,205	97	—	9,965	—	4,947	4,947	0	150	150
Costa Rica	—	1,023	—	19	—	3,691	3,691	0	1,448	1,448
Denmark	3,432	—	—	—	—	—	—	—	—	—
Dominican Republic	973	6,201	—	52	—	2,465	2,465	0	0	0
Ecuador	—	6,585	—	330	—	5,266	5,266	—	522	522
Egypt	—	3,065	—	0	—	—	—	—	—	—
El Salvador	—	1,995	—	2	—	2,660	2,660	—	0	0
Finland	—	—	—	0	—	0	0	0	—	0
France	4,549	2,303	—	176	—	2	2	—	1	1
Germany	—	1	—	25	—	1	1	—	0	0
Ghana	—	629	—	0	—	519	519	—	—	—
Gibraltar	—	411	—	329	—	—	—	—	159	159
Greece	589	0	—	—	—	—	—	—	—	—
Guatemala	—	3,513	—	9	—	7,336	7,336	0	1	1
Honduras	—	2,930	—	6	—	4,258	4,258	0	—	0
Hong Kong	2,385	588	—	2	—	3	3	—	0	0
India	25,317	18,047	—	1,452	—	0	0	1	0	1
Indonesia	—	8,283	—	18	—	1	1	—	—	—
Ireland	1,178	—	—	—	—	1	1	—	0	0
Israel	—	2	—	9	—	2	2	—	—	—
Italy	37,025	236	—	0	—	—	—	—	—	—
Jamaica	—	888	—	1	—	192	192	—	—	—
Japan	7,378	54,535	—	2,441	—	4	4	7	2	9
Korea, South	35,441	31,553	—	1,872	—	1,341	1,341	1	0	1
Lebanon	—	0	—	0	—	—	—	—	—	—
Mexico	—	32,552	—	2,080	—	120,625	120,625	103	2,802	2,904
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	3,656	—	80	—	617	617	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	26,760	14,734	—	2,494	—	2,627	2,627	—	554	554
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	0	—	0	0	0	—	0
Nicaragua	1,430	0	—	192	—	1,154	1,154	—	—	—
Nigeria	—	492	—	1	—	526	526	—	—	—
Norway	10,283	5,072	—	0	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	—	52	—	128	—	5,447	5,447	0	1	1
Peru	814	1,482	—	269	—	4,866	4,866	—	25	25
Philippines	—	1	—	3	—	7	7	—	—	—
Portugal	625	1,942	—	—	—	—	—	—	—	—
Puerto Rico	—	33	—	2	—	23	23	—	2	2
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	—	12	—	1	1	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	7,839	12,859	—	1,099	—	154	154	—	0	0
South Africa	2,064	1,077	—	0	—	1,615	1,615	—	—	—
Spain	4,970	5,953	—	0	—	—	—	—	—	—
Switzerland	1,594	3,360	—	304	—	134	134	—	—	—
Taiwan	22,573	5,291	—	2,066	—	1	1	—	0	0
Thailand	8,091	0	—	17	—	—	—	—	0	0
Trinidad and Tobago	—	2	—	29	—	1	1	—	—	—
Turkey	—	5,501	—	0	—	—	—	—	—	—
United Arab Emirates	10,035	1	—	723	—	5	5	—	—	—
United Kingdom	34,037	11,024	—	307	—	6	6	0	0	0
Venezuela	—	1,604	—	10,965	—	5,878	5,878	14	818	831
Other	15,354	12,096	—	1,002	—	3,258	3,258	4	71	76
Total	439,715	387,226	—	63,866	—	203,238	203,238	132	12,988	13,119

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 2018
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	0	0	0	—	—	—	5,905	713	1,238	—	7,856
Australia	0	0	1	0	—	—	0	—	0	—	1
Bahamas	—	3	1	0	—	—	1,395	206	1,425	—	3,026
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	61	0	0	—	—	—	2,114	201	402	—	2,717
Belize	—	—	—	0	—	—	58	243	64	—	365
Brazil	240	0	8,685	—	—	—	28,285	2,521	1,298	—	32,103
Canada	—	3	5,408	1,508	—	—	4,297	2,159	2,114	—	8,570
Cayman Islands	—	—	0	—	—	—	671	38	55	—	764
Chile	1,644	0	2	3	—	—	24,955	1,395	260	—	26,610
China	0	2	1,259	1	—	—	8	—	8	—	17
Colombia	—	0	732	—	—	—	2,407	1	0	—	2,408
Costa Rica	29	0	2	1	—	—	5,390	—	—	—	5,390
Denmark	—	—	0	—	—	—	—	—	—	—	—
Dominican Republic	—	0	5	—	—	—	2,096	515	1,085	—	3,697
Ecuador	—	0	0	—	—	—	7,483	1,111	1,048	—	9,643
Egypt	—	—	1	—	—	—	1	—	—	—	1
El Salvador	—	—	—	0	—	—	1,830	786	130	—	2,746
Finland	—	—	0	—	—	—	—	—	—	—	—
France	15	2	—	0	—	—	10,900	95	440	—	11,435
Germany	0	0	0	8	—	—	0	—	—	—	0
Ghana	—	—	—	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	3,800	1,252	1,215	—	6,267
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	0	—	—	—	—	6,589	1,655	446	—	8,690
Honduras	—	—	0	—	—	—	1,570	1,845	947	—	4,363
Hong Kong	—	0	0	—	—	—	—	—	—	—	—
India	0	0	2,144	—	—	—	5	—	—	—	5
Indonesia	—	0	0	—	—	—	0	—	—	—	0
Ireland	—	0	0	—	—	—	—	—	—	—	—
Israel	—	0	6	—	—	—	5	—	—	—	5
Italy	—	0	0	—	—	—	353	248	—	—	602
Jamaica	—	—	256	—	—	—	2,436	180	305	—	2,921
Japan	—	7,843	20	0	—	—	4	—	0	—	5
Korea, South	0	1	1,270	—	—	—	9	—	354	—	363
Lebanon	—	0	—	—	—	—	614	—	—	—	614
Mexico	5,881	3	461	41	—	—	70,555	509	196	—	71,260
Montenegro	—	—	—	—	—	—	0	—	—	—	0
Morocco	—	—	—	—	—	—	3,220	—	—	—	3,220
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	1,094	23	—	—	11,594	1,547	1,556	—	14,697
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	0	0	—	—	—	1	—	—	—	1
Nicaragua	—	—	0	0	—	—	257	490	727	—	1,474
Nigeria	—	—	428	—	—	—	—	—	—	—	—
Norway	—	—	97	2	—	—	—	—	36	—	36
Pakistan	—	0	1	—	—	—	—	—	—	—	—
Panama	—	0	0	—	—	—	9,191	867	1,400	—	11,458
Peru	—	0	897	211	—	—	17,951	525	—	—	18,476
Philippines	—	0	1,205	—	—	—	0	—	—	—	0
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	0	2	279	0	—	—	2	3	—	—	5
Romania	—	—	—	—	—	—	320	—	—	—	320
Saudi Arabia	—	0	276	—	—	—	1	—	—	—	1
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	4	449	3	—	—	2,681	114	2,635	—	5,430
South Africa	—	0	0	—	—	—	0	—	0	—	0
Spain	—	0	207	—	—	—	2,436	—	—	—	2,436
Switzerland	—	0	115	39	—	—	683	132	0	—	815
Taiwan	0	0	1	—	—	—	1	—	0	—	1
Thailand	—	0	0	0	—	—	1,218	—	0	—	1,218
Trinidad and Tobago	—	—	0	0	—	—	0	—	0	—	0
Turkey	—	1	—	—	—	—	1	—	—	—	1
United Arab Emirates	—	0	1,052	—	—	—	467	—	—	—	467
United Kingdom	—	0	25	—	—	—	8,815	1	62	—	8,878
Venezuela	968	0	—	—	—	—	8,038	171	496	—	8,705
Other	—	4	1,328	17	—	—	9,617	3,320	5,415	—	18,345
Total	8,838	7,868	27,707	1,857	—	—	260,229	22,843	25,357	—	308,428

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 2018
(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	130	—	—	784	—	957	—	—
Australia	0	—	—	—	—	—	—	—
Bahamas	0	—	—	509	—	4,832	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	0	—	—
Belize	0	—	—	167	—	—	—	—
Brazil	0	—	—	2,232	—	498	—	—
Canada	339	—	—	11,881	—	4,202	—	—
Cayman Islands	0	—	—	166	—	0	—	—
Chile	9	—	—	1,919	—	0	—	—
China	1	—	—	1	—	241	—	—
Colombia	1	—	—	61	—	0	—	—
Costa Rica	0	—	—	1,225	—	369	—	—
Denmark	—	—	—	75	—	0	—	—
Dominican Republic	0	—	—	1,369	—	391	—	—
Ecuador	—	—	—	8	—	2,131	—	—
Egypt	0	—	—	—	—	0	—	—
El Salvador	0	—	—	208	—	—	—	—
Finland	—	—	—	61	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	0	—	—	2	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	1,783	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	66	—	—	940	—	1,008	—	—
Honduras	0	—	—	495	—	1,811	—	—
Hong Kong	—	—	—	0	—	7	—	—
India	—	—	—	1	—	2	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	—	—	—	1,436	—	0	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	800	—	3,333	—	—
Japan	0	—	—	0	—	0	—	—
Korea, South	0	—	—	0	—	280	—	—
Lebanon	—	—	—	1	—	3,806	—	—
Mexico	3	—	—	13,067	—	11,579	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	210	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	101	—	—	1,792	—	7,829	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	70	—	—
Nicaragua	100	—	—	117	—	—	—	—
Nigeria	—	—	—	593	—	—	—	—
Norway	121	—	—	60	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	0	—	—	4,253	—	6,646	—	—
Peru	71	—	—	1,484	—	111	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	4	—	1	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	600	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	0	—	20,162	—	—
South Africa	0	—	—	—	—	0	—	—
Spain	—	—	—	0	—	361	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	0	—	3	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	5	—	—	—	—
Turkey	—	—	—	—	—	—	—	—
United Arab Emirates	2	—	—	0	—	247	—	—
United Kingdom	0	—	—	3,538	—	2,751	—	—
Venezuela	—	—	—	73	—	1,290	—	—
Other	91	—	—	4,864	—	5,007	—	—
Total	1,035	—	—	54,221	—	82,518	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-August 2018
(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	2	561	228	764	0	14,828	15,133	1	61	62
Australia	3	1,890	1	140	3	5,551	5,683	1	23	23
Bahamas	—	—	17	31	0	11,802	12,283	2	49	51
Bahrain	0	—	—	12	—	17	17	—	0	0
Belgium	0	2,050	67	3,128	4	9,005	9,005	—	37	37
Belize	—	—	—	8	—	958	958	—	4	4
Brazil	8	11,060	1	2,434	6	85,535	89,277	15	352	367
Canada	708	5,335	1,444	2,262	49	145,326	229,379	346	598	944
Cayman Islands	—	—	9	9	—	1,358	1,358	—	6	6
Chile	3	1	230	630	0	42,047	42,047	—	173	173
China	24	15,135	18	278	10	42,840	122,900	329	176	506
Colombia	1	1	1	932	3	19,299	25,503	26	79	105
Costa Rica	2	363	465	149	0	14,176	14,176	—	58	58
Denmark	0	673	0	1	—	749	4,181	14	3	17
Dominican Republic	4	1,017	325	221	1	15,748	16,721	4	65	69
Ecuador	1	1,077	1	1,138	0	26,703	26,703	—	110	110
Egypt	—	3,426	0	69	—	6,562	6,562	—	27	27
El Salvador	0	387	0	203	—	8,201	8,201	—	34	34
Finland	0	267	0	4	—	334	334	—	1	1
France	2	1,988	—	443	—	16,366	20,915	19	67	86
Germany	15	29	6	424	1	511	511	—	2	2
Ghana	—	—	0	3	—	1,151	1,151	—	5	5
Gibraltar	—	—	—	26	—	8,976	8,976	—	37	37
Greece	0	3,791	—	25	—	3,815	4,404	2	16	18
Guatemala	1	1,806	0	164	—	23,535	23,535	—	97	97
Honduras	0	1,380	202	89	—	15,534	15,534	—	64	64
Hong Kong	1	249	0	18	2	870	3,254	10	4	13
India	16	11,785	11	1,164	2	34,629	59,946	104	143	247
Indonesia	1	0	9	152	1	8,465	8,465	—	35	35
Ireland	0	499	—	0	1	501	1,679	5	2	7
Israel	0	873	—	274	0	2,607	2,607	—	11	11
Italy	14	4,877	1	68	1	5,799	42,824	152	24	176
Jamaica	—	0	16	781	1	9,220	9,220	—	38	38
Japan	8	13,820	4	118	30	78,838	86,215	30	324	355
Korea, South	2	2,134	10	74	2	38,903	74,344	146	160	306
Lebanon	0	946	—	13	—	5,381	5,381	—	22	22
Mexico	147	17,743	1,376	6,764	130	286,616	286,616	—	1,179	1,179
Montenegro	—	176	—	—	—	176	176	—	1	1
Morocco	—	3,838	1	0	—	11,621	11,621	—	48	48
Mozambique	—	655	—	—	—	655	655	—	3	3
Netherlands	23	2,399	9	578	2	48,957	75,716	110	201	312
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	308	1	7	—	388	388	—	2	2
Nicaragua	0	—	—	34	—	3,072	4,502	6	13	19
Nigeria	—	1	0	705	0	2,746	2,746	—	11	11
Norway	0	853	0	3	—	6,242	16,526	42	26	68
Pakistan	0	0	1	37	0	40	40	—	0	0
Panama	0	—	213	162	0	28,361	28,361	—	117	117
Peru	1	182	1	590	1	28,665	29,479	3	118	121
Philippines	1	1	—	14	2	1,232	1,232	—	5	5
Portugal	0	610	—	1	—	2,552	3,177	3	11	13
Puerto Rico	1	—	1	107	0	461	461	—	2	2
Romania	0	616	—	1	—	937	937	—	4	4
Saudi Arabia	1	200	0	35	2	1,128	1,128	—	5	5
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	1	310	5	843	0	41,319	49,158	32	170	202
South Africa	0	805	1	375	—	3,874	5,938	8	16	24
Spain	3	4,329	0	10	0	13,300	18,270	20	55	75
Switzerland	0	0	0	0	—	4,768	6,362	7	20	26
Taiwan	2	0	3	41	1	7,411	29,985	93	30	123
Thailand	1	482	3	30	2	1,753	9,844	33	7	41
Trinidad and Tobago	0	1	1	55	0	94	94	—	0	0
Turkey	0	16,143	1	114	—	21,760	21,760	—	90	90
United Arab Emirates	0	139	4	422	0	3,061	13,096	41	13	54
United Kingdom	2	1,123	2	9	0	27,667	61,704	140	114	254
Venezuela	0	131	—	64	0	30,508	30,508	—	126	126
Other	8	4,483	403	654	10	51,635	66,992	66	209	274
Total	1,007	142,948	5,092	27,904	267	1,337,139	1,776,854	1,810	5,503	7,312

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

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

Sources: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 2018
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	2,490	-39	-	77	-	-57	-57	0	22	22
Algeria	125	-	-	69	-	-	-	-	4	4
Angola	146	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	183	-32	-	-	-	-34	-34	-	-8	-8
Equatorial Guinea	21	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	420	-	-	-	-	-	-	-	-	-
Kuwait	83	0	-	-	-	0	0	-	-	-
Libya	19	-	-	-	-	-	-	-	-	-
Nigeria	56	-7	-	3	-	-	-	-	7	7
Qatar	-	-	-	0	-	-	-	-	-	-
Saudi Arabia	1,005	0	-	0	-	-	-	-	10	10
United Arab Emirates	-61	-	-	41	-	0	0	-	-	-
Venezuela	462	0	-	-44	-	-23	-23	0	10	10
Non-OPEC	3,761	-1,470	27	362	-	-560	-560	247	484	731
Argentina	28	0	-	0	-	-1	-1	-	-	-
Aruba	-	0	-	-	-	0	0	-	-	-
Australia	-4	0	-	0	-	0	0	0	-	0
Bahamas	-16	-4	-	0	-	-4	-4	0	-	0
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	48	-	-	-	10	31	42
Brazil	169	-69	-	-32	-	0	0	-	33	33
Brunei	65	-	-	-	-	-	-	-	-	-
Cameroon	-	-7	-	-	-	-	-	-	-	-
Canada	3,331	-136	23	-66	-	4	4	103	57	160
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-90	-	0	-	-	-	-	5	5
Colombia	265	0	-	-55	-	-26	-26	-	21	21
Denmark	-	-	-	25	-	-	-	-	-	-
Dominican Republic	-15	-47	-	0	-	-8	-8	0	-	0
Estonia	-	-	-	3	-	-	-	-	-	-
Finland	-	-	-	3	-	-	-	0	14	14
France	-	-1	-	9	-	19	19	-	9	9
Germany	-	0	-	3	-	-	-	0	0	1
Guatemala	-	-22	-	0	-	-34	-34	-	-	-
Honduras	-	-12	-	-	-	-17	-17	-	-	-
India	-196	-80	-	11	-	-	-	14	67	81
Indonesia	57	-71	-	0	-	-	-	-	-	-
Italy	-99	-	-	17	-	20	20	-	11	11
Japan	-50	-274	-	0	-	0	0	0	3	3
Korea, South	-267	-171	-	0	-	1	1	0	0	0
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-10	-	-	4	-	-	-	-	-	-
Mexico	895	-137	1	-8	-	-421	-421	0	-8	-8
Netherlands	-76	-76	-	1	-	-	-	44	14	58
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-58	-32	-	10	-	-	-	1	28	29
Oman	-	-	-	0	-	-	-	-	-	-
Panama	-	0	-	0	-	-38	-38	-	0	0
Portugal	-	-13	-	-	-	9	9	18	19	37
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Russia	90	-	-	315	-	-	-	0	35	35
Spain	-6	-18	-	16	-	-	-	-	29	29
Sweden	-	-11	-	4	-	-	-	-	0	0
Trinidad and Tobago	-	2	-	0	-	0	0	-	-	-
United Kingdom	-115	-57	-	5	-	7	7	53	63	116
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-14	-	-	-	0	0	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-227	-130	3	49	-	-71	-71	4	53	55
Total	6,251	-1,509	27	439	-	-617	-617	246	506	753
Persian Gulf²	1,447	0	-	41	-	0	0	-	10	10

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 2018
(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	-9	0	-16	-	-	-	-10	-9	-16	-	-35
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-9	-9	-8	-	-26
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	0	-	-	-	0
Kuwait	-	-	0	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-3	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-2	-	-	-	24	-	-	-	24
United Arab Emirates	-	0	-12	-	-	-	-	-	-	-	-
Venezuela	-9	-	-	-	-	-	-25	-	-7	-	-33
Non-OPEC	-25	-27	-69	1	14	-	-971	-51	-63	0	-1,085
Argentina	-	-	-	-	-	-	-49	-	-	-	-49
Aruba	-	-	-	-	-	-	-1	-	-	-	-1
Australia	-	0	0	-	-	-	-	-	-	-	-
Bahamas	-	0	-	-	-	-	-8	-	-14	-	-22
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	0	-	0	-	-	-	-10	-3	-	-	-14
Brazil	4	5	9	-	-	-	-170	-4	-9	-	-183
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-23	-4	-	-	47	-6	13	0	54
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	0	0	-	-	-	0	-	-	-	0
Colombia	-	-	0	-	-	-	3	-	-	-	3
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-20	-	-	-	-20
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	0	0	-	2	-	-	-82	-	-	-	-82
Germany	0	0	0	2	-	-	0	-	-	-	0
Guatemala	-	0	1	-	-	-	-41	-5	-	-	-46
Honduras	-	-	-	-	-	-	-7	-4	0	-	-12
India	0	0	-6	-	-	-	0	-	-	-	0
Indonesia	-	0	-	-	-	-	-	-	-	-	-
Italy	-	0	-	-	-	-	-	-1	-	-	-1
Japan	-	-32	0	-	-	-	0	-	-	-	0
Korea, South	-	0	-1	1	-	-	3	-	-	-	3
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-9	-	-	-	0	-	-	-	0
Mexico	-22	0	-3	0	-	-	-269	-1	0	-	-271
Netherlands	-	0	-14	0	-	-	-	-10	-1	-	-11
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-2	-	-	-	-	-	-	-	-
Oman	-	-	-4	-	-	-	0	-	-	-	0
Panama	-	0	0	-	-	-	-21	-4	-17	-	-42
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	-3	-	-	-	0	-	-	-	0
Russia	-	-	-	-	-	-	62	-	-	-	62
Spain	-	-	-1	-	-	-	-10	-	-	-	-10
Sweden	-	-	0	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	0	-	-	-	-	-	-	-	-
United Kingdom	-	-	0	-	-	-	-46	-	-	-	-46
Vietnam	-	0	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-9	-	-3	-	-11
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-13	0	14	-	-343	-13	-32	0	-386
Total	-34	-27	-85	1	14	-	-981	-60	-79	0	-1,119
Persian Gulf²	-	0	-13	-	-	-	24	-	-	-	24

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 2018
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	-	-	-	1	1	104	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-7	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	1	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	0	-	-	-	-
Qatar	-	-	-	0	-	-	-	-
Saudi Arabia	-	-	-	-	1	-	-	-
United Arab Emirates	-	-	-	0	-	-	-	-
Venezuela	-	-	-	0	-	111	-	-
Non-OPEC	-	0	-	-72	7	-232	12	2
Argentina	-	-	-	-6	-	-	-	-
Aruba	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-2	-	-20	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	-	-	-	-21	-	0	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-	0	-	-23	1	56	3	2
Chad	-	-	-	-	-	-	-	-
China	-	-	-	5	-	-	-	-
Colombia	-	-	-	0	-	-	-	-
Denmark	-	-	-	-	-	0	-	-
Dominican Republic	-	-	-	-5	-	-	-	-
Estonia	-	-	-	-	-	11	-	-
Finland	-	-	-	-2	-	-	-	-
France	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-5	-	-1	-	-
Honduras	-	-	-	-1	-	-8	-	-
India	-	-	-	3	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-
Japan	-	-	-	29	1	-	-	-
Korea, South	-	-	-	80	4	0	1	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	-	-	-	-63	1	-25	6	-
Netherlands	-	-	-	-	-	-93	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	-2	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	-	-	-	-21	-	-17	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	0	-	-	-	-
Russia	-	-	-	-	-	14	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	0	-	11	-	-
United Kingdom	-	-	-	-10	-	0	1	-
Vietnam	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-7	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-	0	-	-28	0	-153	1	0
Total	-	0	-	-72	8	-128	12	2
Persian Gulf²	-	-	-	1	1	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, August 2018
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-3	9	-2	0	53	2,543
Algeria	-	-	-	0	-	73	198
Angola	-	-	-	0	-	0	146
Congo (Brazzaville)	-	-	-	-	-	-	-
Ecuador	0	-	0	-8	0	-115	68
Equatorial Guinea	-	-	-	0	-	0	21
Gabon	-	-	0	0	-	0	0
Iran	-	-	-	-	-	-	-
Iraq	-	-	-	0	-	1	420
Kuwait	-	0	0	0	-	0	83
Libya	-	-	-	0	-	0	19
Nigeria	-	0	0	-3	-	-2	54
Qatar	-	-	-	8	-	8	8
Saudi Arabia	0	-3	-	0	-	30	1,035
United Arab Emirates	0	-	0	1	-	30	-30
Venezuela	-	-	9	0	-	21	483
Non-OPEC	-1	-480	19	-66	-1	-2,915	845
Argentina	0	-6	0	0	-	-62	-34
Aruba	-	-	-	0	-	-1	-1
Australia	0	-9	0	-1	0	-11	-15
Bahamas	-	-	0	0	-	-52	-67
Bahrain	-	-	-	6	-	6	6
Belgium	-	-1	-2	-15	0	58	58
Brazil	0	-21	-	-9	0	-283	-113
Brunei	-	-	-	-	-	-	65
Cameroon	-	-	0	0	-	-7	-7
Canada	-1	-13	26	-2	0	61	3,392
Chad	-	-	-	-	-	-	-
China	1	-39	3	-1	0	-116	-116
Colombia	0	-	1	-3	0	-58	207
Denmark	-	-	-	0	-	25	25
Dominican Republic	0	-	-1	-1	0	-81	-96
Estonia	-	-	-	0	-	13	13
Finland	-	-	0	0	-	16	16
France	0	-10	-	0	-	-54	-54
Germany	0	0	0	0	0	6	6
Guatemala	0	-5	-	-1	-	-113	-113
Honduras	-	-7	-2	0	-	-59	-59
India	0	-16	0	-1	0	-9	-205
Indonesia	0	0	0	0	0	-71	-14
Italy	0	-8	-	0	-	39	-60
Japan	0	-76	0	0	0	-350	-400
Korea, South	0	-19	0	2	0	-99	-365
Latvia	-	-	-	0	-	0	0
Lithuania	-	-	-	0	-	0	0
Malaysia	0	0	0	0	0	-5	-15
Mexico	-1	-82	-4	-26	0	-1,063	-169
Netherlands	0	-10	0	-2	0	-146	-222
Netherlands Antilles	-	-	-	-	-	-	-
Norway	-	-3	-	0	-	0	-58
Oman	0	-2	0	0	-	-6	-6
Panama	0	-	-2	-1	-	-120	-120
Portugal	-	-	-	0	-	32	32
Puerto Rico	0	-	0	0	0	-4	-4
Russia	0	-	-	0	-	425	515
Spain	0	-5	2	0	-	13	7
Sweden	0	0	-	0	0	-7	-7
Trinidad and Tobago	-	-	-	0	-	12	12
United Kingdom	0	-1	0	2	0	17	-98
Vietnam	0	0	-	0	0	0	0
Virgin Islands, U.S.	-	-	0	0	-	-32	-32
Yemen	-	-	-	0	-	0	0
Other	0	-147	-2	-13	-1	-829	-1,059
Total	-1	-483	28	-68	-1	-2,862	3,389
Persian Gulf²	0	-3	0	15	-	75	1,522

- = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

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

Sources: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-August 2018
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Natural Gas Liquids	Refinery Olefins	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	2,623	-35	-	102	-	-48	-48	0	35	35
Algeria	83	1	-	87	-	-	-	-	2	2
Angola	112	-	-	0	-	-	-	-	4	4
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	180	-27	-	-1	-	-22	-22	-	-2	-2
Equatorial Guinea	22	-	-	-	-	-	-	-	-	-
Gabon	7	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	595	-	-	2	-	-	-	-	-	-
Kuwait	98	0	-	-	-	0	0	0	-	0
Libya	56	-	-	1	-	-	-	-	-	-
Nigeria	187	-2	-	3	-	-2	-2	-	11	11
Qatar	-	-	-	-4	-	0	0	0	-	0
Saudi Arabia	822	0	-	5	-	0	0	-	1	1
United Arab Emirates	-37	0	-	47	-	0	0	-	-	-
Venezuela	488	-7	-	-42	-	-24	-24	0	19	18
Non-OPEC	3,519	-1,398	25	252	-	-745	-745	194	438	632
Argentina	20	0	-	-6	-	-9	-9	-	2	2
Aruba	-	0	-	0	-	-3	-3	0	0	0
Australia	2	-9	-	0	-	-5	-5	0	0	0
Bahamas	-2	-4	-	0	-	-10	-10	0	0	0
Bahrain	-	-	-	0	-	0	0	-	-	-
Belgium	-	-1	-	37	-	1	1	6	22	27
Brazil	141	-66	-	-8	-	-32	-32	0	15	15
Brunei	8	-	-	-	-	-	-	-	-	-
Cameroon	5	-1	-	2	-	-	-	-	-	-
Canada	3,369	-148	21	-50	-	-19	-19	110	36	146
Chad	22	0	-	-	-	-	-	-	-	-
China	-329	-100	-	-6	-	0	0	-	1	1
Colombia	313	0	-	-39	-	-20	-20	0	15	15
Denmark	-11	-	-	7	-	-	-	0	0	1
Dominican Republic	-4	-26	-	0	-	-10	-10	0	0	0
Estonia	-	-	-	0	-	-	-	-	0	0
Finland	-	-	-	2	-	0	0	0	11	11
France	-19	-9	-	7	-	3	3	10	14	23
Germany	-	0	-	3	-	0	0	0	0	0
Guatemala	7	-14	-	0	-	-30	-30	0	0	0
Honduras	-	-12	-	0	-	-18	-18	0	-	0
India	-104	-74	-	-3	-	2	2	2	67	69
Indonesia	47	-34	-	0	-	0	0	-	-	-
Italy	-151	-1	-	10	-	3	3	0	8	8
Japan	-30	-224	-	-10	-	0	0	0	5	5
Korea, South	-146	-130	-	-7	-	-3	-3	0	9	9
Latvia	-	0	-	0	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	1	1
Malaysia	-13	0	-	2	-	-1	-1	0	0	0
Mexico	681	-134	1	-8	-	-496	-496	0	-3	-3
Netherlands	-110	-61	-	4	-	-7	-7	10	25	35
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	0	-18	-	20	-	0	0	3	18	21
Oman	-	0	-	0	-	-	-	-	-	-
Panama	-	0	-	-1	-	-22	-22	0	0	0
Portugal	-3	-8	-	-	-	3	3	5	27	32
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Russia	67	0	-	251	-	2	2	1	42	43
Spain	-20	-24	-	11	-	1	1	0	46	46
Sweden	-	-8	-	1	-	4	4	0	6	6
Trinidad and Tobago	5	1	-	1	-	0	0	-	-	-
United Kingdom	-86	-45	-	2	-	2	2	46	36	82
Vietnam	3	0	-	0	-	-	-	-	0	0
Virgin Islands, U.S.	-	-3	-	0	-	0	0	-	0	0
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-143	-245	3	30	-	-81	-81	1	35	37
Total	6,142	-1,433	25	354	-	-793	-793	194	473	667
Persian Gulf²	1,479	0	-	50	-	0	0	0	1	1

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-August 2018
(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	-4	0	-7	-	-	-	-46	-7	-9	0	-62	
Algeria	-	-	-	-	-	-	-2	-2	-3	-	-7	
Angola	-	-	-	-	-	-	0	-	-	-	0	
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	
Ecuador	-	0	0	-	-	-	-31	-5	-4	-	-40	
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	
Gabon	-	-	-	-	-	-	-	-	-	-	-	
Iran	-	-	-	-	-	-	-	-	-	-	-	
Iraq	-	0	-	-	-	-	0	-	-	-	0	
Kuwait	-	-	0	-	-	-	-	-	-	-	-	
Libya	-	-	-	-	-	-	0	-	-	-	0	
Nigeria	-	-	-2	-	-	-	-	-	1	-	1	
Qatar	-	-	0	-	-	-	9	-	-	-	9	
Saudi Arabia	-	0	-1	-	-	-	12	-	-	-	12	
United Arab Emirates	-	0	-4	-	-	-	-2	-	-	-	-2	
Venezuela	-4	0	-	-	-	-	-32	-1	-2	0	-34	
Non-OPEC	-27	-28	-106	1	12	-	-883	-83	-76	3	-1,039	
Argentina	0	0	0	-	-	-	-24	-3	-5	-	-32	
Aruba	-	-	-	-	-	-	-1	-	-	-	-1	
Australia	0	0	0	0	-	-	0	-	0	-	0	
Bahamas	-	0	0	0	-	-	-6	-1	-6	-	-12	
Bahrain	-	-	0	-	-	-	-	-	-	-	-	
Belgium	0	0	0	-	-	-	-6	-1	-2	-	-9	
Brazil	1	3	-35	-	-	-	-113	-10	-5	-	-129	
Brunei	-	-	-	-	-	-	-	-	-	-	-	
Cameroon	-	-	-	0	-	-	-	-	-	-	-	
Canada	-	0	-22	-1	-	-	63	-8	8	0	64	
Chad	-	-	-	-	-	-	-	-	-	-	-	
China	0	0	-5	0	-	-	1	-	0	-	1	
Colombia	-	0	-3	-	-	-	-6	0	0	1	-4	
Denmark	-	-	0	-	-	-	-	-	-	-	-	
Dominican Republic	-	0	0	-	-	-	-9	-2	-4	-	-15	
Estonia	-	-	-	-	-	-	-	-	-	-	-	
Finland	-	-	0	-	-	-	-	-	-	-	-	
France	0	0	-	1	-	-	-45	0	-2	-	-47	
Germany	0	0	0	2	-	-	0	-	-	-	0	
Guatemala	-	0	0	-	-	-	-27	-7	-2	-	-36	
Honduras	-	-	0	-	-	-	-6	-8	-4	-	-18	
India	0	0	-9	-	-	-	9	-	-	-	9	
Indonesia	-	0	0	-	-	-	0	-	-	-	0	
Italy	-	0	0	-	-	-	-1	-1	-	-	-2	
Japan	-	-32	0	0	-	-	0	-	0	-	0	
Korea, South	0	0	-5	0	-	-	1	-	-1	-	0	
Latvia	-	0	-	-	-	-	0	-	-	-	0	
Lithuania	-	-	-	-	-	-	-	-	-	-	-	
Malaysia	-	0	-2	-	-	-	1	-	-4	-	-3	
Mexico	-24	0	-2	0	-	-	-289	-2	0	-	-291	
Netherlands	1	1	-5	0	-	-	-46	-6	-6	0	-58	
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-	
Norway	-	-	0	0	-	-	-	-	0	-	0	
Oman	-	-	-2	-	-	-	1	-	-	-	1	
Panama	-	0	0	-	-	-	-38	-4	-6	-	-47	
Portugal	-	-	-	-	-	-	-	-	-	-	-	
Puerto Rico	0	0	-1	0	-	-	0	0	-	-	0	
Russia	1	-	-	-	-	-	11	2	1	1	15	
Spain	-	0	-1	-	-	-	-10	-	-	-	-10	
Sweden	-	0	0	-	-	-	0	-	-	-	0	
Trinidad and Tobago	-	0	0	0	-	-	0	-	0	-	0	
United Kingdom	-	0	0	-	-	-	-36	0	0	-	-37	
Vietnam	-	0	0	-	-	-	0	-	-	-	0	
Virgin Islands, U.S.	-	-	-	-	-	-	-3	-1	-4	-	-8	
Yemen	-	-	-	-	-	-	-	-	-	-	-	
Other	-6	0	-14	-1	12	-	-304	-31	-34	1	-370	
Total	-31	-28	-113	1	12	-	-929	-90	-85	3	-1,101	
Persian Gulf²	-	0	-5	-	-	-	19	-	-	-	19	

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-August 2018
(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	-	-	6	0	37	2	-
Algeria	-	-	-	-	-	0	1	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-7	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	0	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	-	-	-
Kuwait	-	-	-	1	-	-	-	-
Libya	-	-	-	-	-	1	-	-
Nigeria	-	-	-	-2	-	-	1	-
Qatar	0	-	-	0	-	0	-	-
Saudi Arabia	-	-	-	0	0	-2	-	-
United Arab Emirates	0	-	-	0	-	-1	-	-
Venezuela	-	-	-	7	-	46	-	-
Non-OPEC	-2	0	-	-102	15	-157	15	3
Argentina	-1	-	-	-3	-	-2	-	0
Aruba	0	-	-	-2	-	-3	-	-
Australia	0	-	-	-	-	-	-	-
Bahamas	0	-	-	-2	-	-18	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	0	1	-	-
Brazil	0	-	-	-9	1	1	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-1	0	-	-29	3	31	2	2
Chad	-	-	-	-	-	-	-	-
China	1	-	-	12	-	-1	-	-
Colombia	0	-	-	0	-	7	-	-
Denmark	-	-	-	0	-	0	-	-
Dominican Republic	0	-	-	-6	-	-2	-	-
Estonia	-	-	-	-	-	1	-	-
Finland	-	-	-	0	-	-	-	-
France	-	-	-	-	0	1	0	1
Germany	0	-	-	0	0	-	-	-
Guatemala	0	-	-	-4	-	-4	-	-
Honduras	0	-	-	-2	-	-7	-	-
India	-	-	-	8	0	0	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	0	-	-	-	-
Japan	0	-	-	11	2	0	3	-
Korea, South	1	-	-	59	6	-1	0	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	0	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-54	0	-10	7	-
Netherlands	0	0	-	-7	0	-28	0	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	0	-	-	0	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-18	-	-27	-	-
Portugal	-	-	-	-	0	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Russia	-	-	-	0	-	19	-	-
Spain	-	-	-	0	-	0	-	-
Sweden	0	-	-	-	-	1	-	-
Trinidad and Tobago	0	-	-	0	-	19	-	-
United Kingdom	0	-	-	-15	-	-11	1	-
Vietnam	0	-	-	0	-	0	-	-
Virgin Islands, U.S.	0	-	-	-2	-	-14	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-2	0	-	-39	3	-110	2	0
Total	-2	0	-	-96	15	-120	17	3
Persian Gulf²	0	-	-	1	0	-3	-	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-August 2018
(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	3	0	25	2,647
Algeria	0	0	0	0	—	84	167
Angola	—	—	0	0	—	4	117
Congo (Brazzaville)	—	—	—	—	—	—	—
Ecuador	0	-4	0	-5	0	-108	72
Equatorial Guinea	—	—	—	0	—	0	22
Gabon	—	—	0	0	—	0	7
Iran	—	—	—	0	—	0	0
Iraq	0	—	—	0	—	2	598
Kuwait	0	0	0	0	0	1	99
Libya	—	—	0	0	—	1	57
Nigeria	—	0	0	-3	0	4	191
Qatar	0	-1	—	10	—	14	14
Saudi Arabia	0	-1	0	0	0	14	836
United Arab Emirates	0	-1	0	1	0	40	3
Venezuela	0	-1	3	0	0	-36	451
Non-OPEC	0	-568	15	-75	-1	-3,276	243
Argentina	0	1	-1	-3	0	-52	-32
Aruba	—	—	0	0	—	-9	-9
Australia	0	-8	0	-1	0	-23	-21
Bahamas	—	—	0	0	0	-47	-49
Bahrain	0	—	—	3	—	3	3
Belgium	0	-8	0	-12	0	36	36
Brazil	0	-45	0	-10	0	-313	-173
Brunei	—	0	—	0	—	0	8
Cameroon	—	—	0	0	—	1	6
Canada	-1	-19	26	-1	0	3	3,372
Chad	—	—	—	—	—	0	22
China	2	-61	0	-1	0	-158	-487
Colombia	0	1	0	-4	0	-48	265
Denmark	0	-3	0	0	—	5	-6
Dominican Republic	0	-4	-1	-1	0	-65	-69
Estonia	—	—	—	0	—	2	2
Finland	0	-1	0	0	—	11	11
France	0	-8	—	-1	—	-31	-49
Germany	0	0	0	-1	0	4	4
Guatemala	0	-7	0	-1	—	-97	-90
Honduras	0	-6	-1	0	—	-64	-64
India	0	-48	0	-5	0	-52	-156
Indonesia	0	0	0	2	0	-33	14
Italy	0	-20	0	0	0	-2	-152
Japan	0	-57	0	0	0	-303	-334
Korea, South	0	-9	0	12	0	-67	-212
Latvia	0	—	—	0	0	0	0
Lithuania	0	—	—	0	—	1	1
Malaysia	0	-1	0	0	0	-4	-17
Mexico	-1	-73	-6	-28	-1	-1,123	-442
Netherlands	0	-10	0	-2	0	-137	-247
Netherlands Antilles	—	—	—	—	—	—	—
Norway	0	-4	0	0	—	18	18
Oman	0	1	0	0	—	-1	-1
Panama	0	—	-1	-1	0	-117	-117
Portugal	0	-3	—	0	—	25	22
Puerto Rico	0	—	0	0	0	-2	-2
Russia	0	1	0	0	—	332	399
Spain	0	-18	2	0	0	7	-13
Sweden	0	0	0	0	0	3	3
Trinidad and Tobago	0	0	0	0	0	21	27
United Kingdom	0	-4	0	1	0	-23	-109
Vietnam	0	0	0	0	0	0	3
Virgin Islands, U.S.	—	—	0	0	—	-27	-27
Yemen	—	—	—	0	—	0	0
Other	0	-155	-3	-21	0	-950	-1,095
Total	0	-576	18	-72	-1	-3,252	2,890
Persian Gulf²	0	-2	0	14	0	74	1,553

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

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

Sources: U.S. Census Bureau and EIA estimates.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, August 2018
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	11,359	110,588	874,041	22,155	48,722	1,066,865
Refinery	9,312	13,707	49,961	2,499	23,621	99,100
Tank Farms and Pipelines (Includes Cushing, OK)	2,047	96,881	164,069	19,656	21,604	304,257
Cushing, Oklahoma	–	24,987	–	–	–	24,987
Leases	–	–	–	–	–	–
Strategic Petroleum Reserve ¹	–	–	660,011	–	–	660,011
Alaskan In Transit	–	–	–	–	3,497	3,497
Total Stocks, All Oils (excluding Crude Oil)²	158,817	195,991	358,266	20,573	90,999	824,646
Refinery	16,391	50,374	126,789	10,195	51,239	254,988
Bulk Terminal	113,923	106,901	176,226	6,270	34,226	437,546
Pipeline	28,282	36,460	52,915	3,979	4,891	126,527
Natural Gas Processing Plant	221	2,256	2,336	129	643	5,585
Natural Gas Liquids	9,968	62,880	123,761	4,541	5,911	207,061
Refinery	596	4,615	8,087	386	1,564	15,248
Bulk Terminal	8,176	41,471	97,935	1,998	3,695	153,275
Pipeline	975	14,538	15,403	2,028	9	32,953
Natural Gas Processing Plant	221	2,256	2,336	129	643	5,585
Ethane	623	5,734	38,393	520	–	45,270
Refinery	–	–	371	–	–	371
Bulk Terminal	438	2,451	32,371	–	–	35,260
Pipeline	185	2,974	5,429	518	–	9,106
Natural Gas Processing Plant	–	309	222	2	–	533
Propane	6,355	24,365	32,472	1,434	1,897	66,523
Refinery	90	1,522	789	39	99	2,539
Bulk Terminal	5,426	18,510	26,293	582	1,776	52,587
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	105	1,016	373	47	13	1,554
Normal Butane	2,621	21,133	36,355	1,994	3,493	65,596
Refinery	375	2,361	4,926	251	1,052	8,965
Bulk Terminal	2,173	17,153	28,429	1,409	1,913	51,077
Pipeline	19	1,214	1,675	307	–	3,215
Natural Gas Processing Plant	54	405	1,325	27	528	2,339
Isobutane	159	2,290	6,409	252	486	9,596
Refinery	131	420	1,438	82	410	2,481
Bulk Terminal	–	922	3,960	–	–	4,882
Pipeline	18	659	809	156	–	1,642
Natural Gas Processing Plant	10	289	202	14	76	591
Natural Gasoline	210	9,358	10,132	341	35	20,076
Refinery	–	312	563	14	3	892
Bulk Terminal	139	2,435	6,882	7	6	9,469
Pipeline	19	6,374	2,473	281	–	9,147
Natural Gas Processing Plant	52	237	214	39	26	568
Refinery Olefins	129	444	5,512	10	26	6,121
Refinery	129	435	3,566	10	26	4,166
Bulk Terminal	–	9	1,946	–	–	1,955
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Ethylene	–	–	0	–	–	0
Refinery	–	–	0	–	–	0
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Propylene	86	346	3,234	0	9	3,675
Refinery	86	337	1,288	0	9	1,720
Bulk Terminal	–	9	1,946	–	–	1,955
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Butylene	9	50	2,278	10	17	2,364
Refinery	9	50	2,278	10	17	2,364
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Isobutylene	34	48	0	0	0	82
Refinery	34	48	0	0	0	82
Bulk Terminal	–	–	–	–	–	–
Pipeline	–	–	–	–	–	–
Natural Gas Processing Plant	–	–	–	–	–	–
Other Hydrocarbons	–	18	–	–	–	18
Refinery	–	18	–	–	–	18
Oxygenates (excluding Fuel Ethanol)	–	5	1,441	–	–	1,446
Refinery	–	–	–	–	–	–
Bulk Terminal	–	5	1,441	–	–	1,446
Pipeline	–	–	–	–	–	–

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, August 2018
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	—	—	1,079	—	—	1,079
Refinery	—	—	—	—	—	—
Bulk Terminal ³	—	—	1,079	—	—	1,079
Pipeline	—	—	—	—	—	—
Other Oxygenates⁴	—	5	362	—	—	367
Refinery	—	—	—	—	—	—
Bulk Terminal	—	5	362	—	—	367
Pipeline	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	8,890	8,302	5,647	450	4,145	27,434
Refinery	163	155	434	185	187	1,124
Bulk Terminal	8,682	8,147	5,213	261	3,958	26,261
Pipeline	45	—	—	4	—	49
Fuel Ethanol²	7,672	7,588	4,329	358	2,886	22,833
Refinery	158	117	215	96	34	620
Bulk Terminal	7,469	7,471	4,114	258	2,852	22,164
Pipeline	45	—	—	4	—	49
Renewable Diesel Fuel⁵	1,218	714	1,311	92	1,214	4,549
Refinery	5	38	219	89	153	504
Bulk Terminal	1,213	676	1,092	3	1,061	4,045
Pipeline	—	—	—	—	—	—
Other Renewable Fuels	—	—	7	—	45	52
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	7	—	45	52
Pipeline	—	—	—	—	—	—
Unfinished Oils	6,544	13,431	46,432	3,305	19,920	89,632
Naphthas and Lighter	1,857	3,258	10,527	737	3,316	19,695
Refinery	1,258	3,176	9,438	737	2,996	17,605
Bulk Terminal	599	82	1,089	—	320	2,090
Kerosene and Light Gas Oils	664	2,770	8,904	577	3,727	16,642
Refinery	664	2,770	7,272	577	3,589	14,872
Bulk Terminal	—	—	1,632	—	138	1,770
Heavy Gas Oils	3,358	5,189	21,420	1,230	10,196	41,393
Refinery	2,758	5,005	18,714	1,230	10,036	37,743
Bulk Terminal	600	184	2,706	—	160	3,650
Residuum	665	2,214	5,581	761	2,681	11,902
Refinery	665	2,159	5,116	761	2,654	11,355
Bulk Terminal	—	55	465	—	27	547
Motor Gasoline Blending Components²	61,584	46,792	72,074	4,885	27,449	212,784
Refinery	5,220	13,036	28,220	2,788	14,423	63,687
Bulk Terminal	44,264	24,494	25,929	1,245	10,296	106,228
Pipeline	12,100	9,262	17,925	852	2,730	42,869
Reformulated - RBOB	18,110	6,157	10,017	—	13,200	47,484
Refinery	1,241	1,169	1,623	—	5,155	9,188
Bulk Terminal	12,369	3,756	4,500	—	6,346	26,971
Pipeline	4,500	1,232	3,894	—	1,699	11,325
Conventional	43,474	40,635	62,057	4,885	14,249	165,300
Refinery	3,979	11,867	26,597	2,788	9,268	54,499
Bulk Terminal	31,895	20,738	21,429	1,245	3,950	79,257
Pipeline	7,600	8,030	14,031	852	1,031	31,544
CBOB	29,677	33,480	35,194	3,493	7,166	109,010
Refinery	972	5,661	11,669	1,398	2,503	22,203
Bulk Terminal	21,105	20,003	9,613	1,243	3,639	55,603
Pipeline	7,600	7,816	13,912	852	1,024	31,204
GTAB	2,485	—	—	—	—	2,485
Refinery	—	—	—	—	—	—
Bulk Terminal	2,485	—	—	—	—	2,485
Pipeline	—	—	—	—	—	—
Other	11,312	7,155	26,863	1,392	7,083	53,805
Refinery	3,007	6,206	14,928	1,390	6,765	32,296
Bulk Terminal	8,305	735	11,816	2	311	21,169
Pipeline	—	214	119	—	7	340
Aviation Gasoline Blending Components	—	—	46	—	—	46
Refinery	—	—	46	—	—	46
Bulk Terminal	—	—	—	—	—	—
Finished Motor Gasoline	5,067	6,172	8,367	1,521	2,172	23,299
Refinery	49	1,430	3,165	664	879	6,187
Bulk Terminal	2,194	2,646	3,607	594	1,134	10,175
Pipeline	2,824	2,096	1,595	263	159	6,937
Reformulated	25	—	—	—	19	44
Refinery	—	—	—	—	19	19
Bulk Terminal	25	—	—	—	—	25
Pipeline	—	—	—	—	—	—
Reformulated (Blended with Fuel Ethanol)	25	—	—	—	19	44
Refinery	—	—	—	—	19	19
Bulk Terminal	25	—	—	—	—	25
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, August 2018
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	-	-	-	-	-	-
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Conventional	5,042	6,172	8,367	1,521	2,153	23,255
Refinery	49	1,430	3,165	664	860	6,168
Bulk Terminal	2,169	2,646	3,607	594	1,134	10,150
Pipeline	2,824	2,096	1,595	263	159	6,937
Conventional (Blended with Fuel Ethanol)	25	172	-	65	-	262
Refinery	-	-	-	62	-	62
Bulk Terminal	25	172	-	3	-	200
Pipeline	-	-	-	-	-	-
Ed55 and Lower	25	172	-	65	-	262
Refinery	-	-	-	62	-	62
Bulk Terminal	25	172	-	3	-	200
Pipeline	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Refinery	-	-	-	-	-	-
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Conventional (Other)	5,017	6,000	8,367	1,456	2,153	22,993
Refinery	49	1,430	3,165	602	860	6,106
Bulk Terminal	2,144	2,474	3,607	591	1,134	9,950
Pipeline	2,824	2,096	1,595	263	159	6,937
Finished Aviation Gasoline	154	164	377	9	185	889
Refinery	-	101	293	9	107	510
Bulk Terminal	154	63	84	-	78	379
Pipeline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	9,323	7,455	15,268	647	9,092	41,785
Refinery	520	1,774	6,364	259	3,765	12,682
Bulk Terminal	4,713	3,927	3,886	298	4,645	17,469
Pipeline	4,090	1,754	5,018	90	682	11,634
Kerosene	1,506	231	106	2	3	1,848
Refinery	190	225	104	2	1	522
Bulk Terminal	1,249	6	2	-	2	1,259
Pipeline	67	-	-	-	-	67
Distillate Fuel Oil²	40,822	34,704	40,655	3,351	12,505	132,037
Refinery	1,963	6,702	14,611	1,414	5,246	29,936
Bulk Terminal	30,678	19,192	13,070	1,195	5,960	70,095
Pipeline	8,181	8,810	12,974	742	1,299	32,006
15 ppm sulfur and Under	35,919	33,834	34,650	3,158	11,549	119,110
Refinery	1,384	6,162	11,857	1,260	4,507	25,170
Bulk Terminal	26,870	18,983	10,583	1,158	5,843	63,437
Pipeline	7,665	8,689	12,210	740	1,199	30,503
Greater than 15 ppm to 500 ppm sulfur	2,246	291	1,438	140	248	4,363
Refinery	254	146	805	101	248	1,554
Bulk Terminal	1,990	36	533	37	-	2,596
Pipeline	2	109	100	2	-	213
Greater than 500 ppm sulfur	2,657	579	4,567	53	708	8,564
Refinery	325	394	1,949	53	491	3,212
Bulk Terminal	1,818	173	1,954	-	117	4,062
Pipeline	514	12	664	-	100	1,290
Residual Fuel Oil⁶	6,557	1,237	14,720	289	5,009	27,812
Refinery	504	1,077	3,591	289	2,687	8,148
Bulk Terminal	6,053	160	11,129	-	2,314	19,656
Pipeline	-	-	-	-	8	8
Less than 0.31% Sulfur	808	79	741	28	213	1,869
Refinery	94	25	205	28	-	352
Bulk Terminal	714	54	536	-	213	1,517
0.31% to 1.00% Sulfur	781	152	2,486	27	847	4,293
Refinery	97	121	241	27	499	985
Bulk Terminal	684	31	2,245	-	348	3,308
Greater than 1.00% Percent Sulfur	4,968	1,006	11,493	234	3,941	21,642
Refinery	313	931	3,145	234	2,188	6,811
Bulk Terminal	4,655	75	8,348	-	1,753	14,831
Petrochemical Feedstocks	87	572	2,697	-	3	3,359
Refinery	87	572	2,697	-	3	3,359
Naphtha for Petrochemical Feedstock Use	87	428	1,755	-	3	2,273
Other Oils for Petrochemical Feedstock Use	-	144	942	-	-	1,086
Special Naphthas	40	162	833	-	52	1,087
Refinery	23	78	816	-	52	969
Bulk Terminal	17	84	17	-	-	118
Lubricants	1,224	778	8,993	-	1,065	12,060
Refinery	761	321	5,518	-	828	7,428
Bulk Terminal	463	457	3,475	-	237	4,632
Waxes	351	50	261	-	-	662
Refinery	351	50	261	-	-	662
Petroleum Coke	-	1,781	5,824	124	1,617	9,346
Refinery	-	1,781	5,824	124	1,617	9,346
Asphalt and Road Oil	6,546	10,741	4,853	1,419	1,746	25,305
Refinery	465	4,822	2,253	740	484	8,764
Bulk Terminal	6,081	5,919	2,600	679	1,262	16,541

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, August 2018
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Miscellaneous Products	25	72	399	20	99	615
Refinery	25	72	399	20	95	611
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	4	4
Total Stocks, All Oils	170,176	306,579	1,232,307	42,728	139,721	1,891,511

— = No Data Reported.

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

¹ Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

² Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Includes stocks held at fuel ethanol production facilities.

³ Includes stocks held by merchant producers.

⁴ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

⁵ Renewable diesel fuel includes biodiesel and other renewable diesel.

⁶ Sulfur content not available for stocks held by pipelines.

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

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

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, August 2018
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	25	2,218	2,243	13,610	35,874	49,484	1,439
Connecticut	—	—	—	1,227	41	1,268	72
Delaware	—	—	—	619	592	1,211	179
District of Columbia	—	—	—	—	—	—	—
Florida	—	563	563	—	6,935	6,935	—
Georgia	—	273	273	—	2,705	2,705	—
Maine	—	—	—	296	247	543	140
Maryland	—	—	—	1,023	261	1,284	12
Massachusetts	6	—	6	1,753	—	1,753	39
New Hampshire	—	—	—	—	—	—	7
New Jersey	—	749	749	4,853	12,908	17,761	306
New York	19	—	19	589	1,734	2,323	298
North Carolina	—	253	253	—	2,806	2,806	266
Pennsylvania	—	28	28	1,140	4,513	5,653	86
Rhode Island	—	—	—	622	—	622	—
South Carolina	—	130	130	—	1,618	1,618	19
Vermont	—	25	25	—	—	—	6
Virginia	—	151	151	1,488	1,383	2,871	9
West Virginia	—	46	46	—	131	131	—
PAD District 2	—	4,076	4,076	4,925	32,605	37,530	231
Illinois	—	345	345	2,322	4,655	6,977	214
Indiana	—	328	328	933	4,698	5,631	—
Iowa	—	172	172	—	1,500	1,500	—
Kansas	—	342	342	—	2,851	2,851	11
Kentucky	—	316	316	628	1,258	1,886	4
Michigan	—	199	199	30	3,503	3,533	—
Minnesota	—	352	352	—	2,107	2,107	—
Missouri	—	153	153	376	696	1,072	—
Nebraska	—	101	101	—	543	543	—
North Dakota	—	41	41	—	682	682	—
Ohio	—	838	838	18	3,892	3,910	2
Oklahoma	—	485	485	—	2,735	2,735	—
South Dakota	—	71	71	—	317	317	—
Tennessee	—	162	162	—	1,917	1,917	—
Wisconsin	—	171	171	618	1,251	1,869	—
PAD District 3	—	6,772	6,772	6,123	48,026	54,149	106
Alabama	—	196	196	—	1,329	1,329	4
Arkansas	—	152	152	37	779	816	—
Louisiana	—	1,070	1,070	417	12,125	12,542	70
Mississippi	—	1,527	1,527	5	2,065	2,070	—
New Mexico	—	101	101	—	585	585	—
Texas	—	3,726	3,726	5,664	31,143	36,807	32
PAD District 4	—	1,258	1,258	—	4,033	4,033	2
Colorado	—	197	197	—	989	989	—
Idaho	—	249	249	—	107	107	—
Montana	—	337	337	—	1,358	1,358	—
Utah	—	79	79	—	964	964	2
Wyoming	—	396	396	—	615	615	—
PAD District 5	19	1,994	2,013	11,501	13,218	24,719	3
Alaska	—	693	693	—	—	—	2
Arizona	—	73	73	444	314	758	—
California	19	406	425	10,997	6,736	17,733	1
Hawaii	—	1	1	—	1,010	1,010	—
Nevada	—	190	190	9	377	386	—
Oregon	—	141	141	—	1,383	1,383	—
Washington	—	490	490	51	3,398	3,449	—
U.S. Total	44	16,318	16,362	36,159	133,756	169,915	1,781

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, August 2018
(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	28,254	2,244	2,143	32,641	6,557	5,621
Connecticut	934	938	28	1,900	17	—
Delaware	403	144	57	604	336	22
District of Columbia	—	—	—	—	—	—
Florida	2,150	129	—	2,279	1,184	143
Georgia	1,156	—	—	1,156	274	11
Maine	1,201	4	166	1,371	39	—
Maryland	1,270	128	—	1,398	158	3
Massachusetts	932	182	135	1,249	51	—
New Hampshire	152	—	59	211	9	314
New Jersey	10,131	79	758	10,968	3,602	48
New York	3,293	90	143	3,526	221	2,282
North Carolina	1,143	—	1	1,144	—	187
Pennsylvania	2,859	129	480	3,468	418	1,928
Rhode Island	354	283	—	637	—	—
South Carolina	703	—	—	703	91	619
Vermont	42	—	5	47	—	—
Virginia	1,433	130	311	1,874	157	6
West Virginia	98	8	—	106	—	58
PAD District 2	25,145	182	567	25,894	1,237	21,048
Illinois	3,716	—	—	3,716	343	717
Indiana	4,102	—	275	4,377	57	345
Iowa	2,405	1	—	2,406	1	500
Kansas	2,375	—	—	2,375	27	12,448
Kentucky	746	18	—	764	211	257
Michigan	1,525	—	—	1,525	220	5,251
Minnesota	1,670	—	22	1,692	106	316
Missouri	545	17	6	568	—	94
Nebraska	796	—	—	796	—	283
North Dakota	903	1	—	904	35	67
Ohio	2,323	—	80	2,403	92	696
Oklahoma	1,717	81	98	1,896	30	18
South Dakota	593	—	—	593	—	18
Tennessee	749	—	—	749	70	2
Wisconsin	980	64	86	1,130	45	36
PAD District 3	22,440	1,338	3,903	27,681	14,720	27,455
Alabama	1,150	8	28	1,186	319	29
Arkansas	980	—	42	1,022	—	46
Louisiana	4,514	888	1,331	6,733	7,004	1,385
Mississippi	894	263	143	1,300	237	2,732
New Mexico	315	—	—	315	76	3
Texas	14,587	179	2,359	17,125	7,084	23,260
PAD District 4	2,418	138	53	2,609	289	668
Colorado	478	—	—	478	27	18
Idaho	304	—	—	304	—	—
Montana	749	76	—	825	81	20
Utah	481	5	53	539	67	591
Wyoming	406	57	—	463	114	39
PAD District 5	10,350	248	608	11,206	5,001	1,888
Alaska	874	—	66	940	423	3
Arizona	532	—	—	532	—	1,177
California	5,679	248	267	6,194	2,674	514
Hawaii	177	—	269	446	922	53
Nevada	250	—	6	256	—	—
Oregon	943	—	—	943	7	—
Washington	1,895	—	—	1,895	975	141
U.S. Total	88,607	4,150	7,274	100,031	27,804	56,680

— = No Data Reported.

¹ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

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

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

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, August 2018
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	462	355	0	3,060	42,827	7,312	4,191	3,170	26,149
Petroleum Products	18,539	832	0	16,749	35,949	7,614	5,299	104,813	25,519
Natural Gas Liquids	7,372	282	0	2,432	24,002	3,761	565	1,068	7,794
Ethane	5,734	0	-	0	11,170	327	-	0	879
Propane	942	190	0	2,083	7,636	1,853	217	1,068	847
Normal Butane	169	92	0	200	3,172	833	307	0	302
Isobutane	274	0	0	149	739	301	41	0	432
Natural Gasoline	253	0	-	0	1,285	447	-	0	5,334
Refinery Olefins	0	0	-	348	700	-	-	0	0
Ethylene	-	-	-	-	-	-	-	-	-
Propylene	0	0	-	348	700	-	-	0	0
Butylene	-	-	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-	-	-
Unfinished Oils	18	0	-	0	568	0	-	100	590
Motor Gasoline Blending Components	7,840	0	0	1,559	1,773	1,567	0	55,610	8,144
Reformulated - RBOB	0	0	0	88	379	-	0	7,792	4,147
Conventional	7,840	0	0	1,471	1,394	1,567	0	47,818	3,997
CBOB	7,840	0	0	1,471	1,244	1,567	0	47,818	3,110
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	150	-	0	-	887
Renewable Fuels	0	0	0	9,464	5,813	572	4,469	457	0
Fuel Ethanol	0	0	0	9,446	5,500	493	4,211	457	0
Renewable Diesel Fuel ²	0	0	0	18	313	79	257	0	0
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	115	0	0	302	112	245	0	6,117	883
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	115	0	0	302	112	245	0	6,117	883
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	115	0	0	302	112	245	0	6,117	883
Finished Aviation Gasoline	0	0	-	0	0	-	-	99	19
Kerosene-Type Jet Fuel	297	0	0	105	60	807	0	15,909	1,954
Kerosene	16	0	-	0	0	-	-	177	0
Distillate Fuel Oil	2,842	0	0	1,136	817	662	0	24,294	5,337
15 ppm sulfur and under	2,842	0	0	1,136	817	662	0	23,289	5,223
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-	-	1	114
Greater than 500 ppm sulfur	-	0	-	0	0	-	-	1,004	-
Residual Fuel Oil	0	550	-	0	842	-	-	0	95
Petrochemical Feedstocks	0	0	-	-	94	-	-	-	0
Naphtha for Petrochemical Feedstock Use	0	0	-	-	94	-	-	-	0
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-	-	-	-
Special Naphthas	0	0	-	-	0	-	-	-	10
Lubricants	0	0	-	10	0	-	-	413	193
Waxes	-	-	-	-	-	-	-	-	-
Marketable Petroleum Coke	0	0	0	819	1,023	0	0	0	26
Asphalt and Road Oil	39	0	0	574	146	0	265	569	464
Miscellaneous Products	0	0	-	-	0	-	-	-	10
Total	19,001	1,187	0	19,808	78,776	14,926	9,490	107,983	51,668

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, August 2018
(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	204	0	22,949	701	92	0	0	0
Petroleum Products	0	5,810	0	8,706	8,133	1,566	0	25	0
Natural Gas Liquids	0	27	0	7,484	7,921	196	0	0	0
Ethane	0	—	0	1,370	2,514	—	0	0	0
Propane	0	0	0	3,147	2,767	156	0	0	0
Normal Butane	0	0	0	1,381	981	40	0	0	0
Isobutane	0	27	0	593	555	0	0	0	0
Natural Gasoline	0	—	0	993	1,104	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	0	0	0	—	0	0	0
Motor Gasoline Blending Components	0	3,831	0	167	0	743	0	0	0
Reformulated - RBOB	—	2,394	0	0	0	0	0	0	—
Conventional	0	1,437	0	167	0	743	0	0	0
CBOB	0	1,337	0	167	0	743	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	100	—	0	0	0	—	0	—
Renewable Fuels	0	729	0	0	0	0	0	0	0
Fuel Ethanol	0	519	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	210	0	0	0	0	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	419	0	202	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	419	0	202	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	419	0	202	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	277	0	12	0	0	0	0	0
Kerosene	—	—	0	0	0	—	0	0	—
Distillate Fuel Oil	0	850	0	439	0	229	0	0	0
15 ppm sulfur and under	0	850	0	439	0	229	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	0	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	77	64	0	0	25	0
Asphalt and Road Oil	0	97	0	108	149	196	0	0	0
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	6,014	0	31,655	8,835	1,657	0	25	0

— = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, August 2018
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	146	80	299	41,260	7,312	180	25,909	0	-
Petroleum Products	18,325	0	2,571	24,828	7,042	81,846	22,856	0	4,858
Natural Gas Liquids	7,215	0	1,346	22,216	3,761	962	7,737	0	-
Ethane	5,734	0	0	11,170	327	0	879	0	-
Propane	841	0	1,346	6,361	1,853	962	819	0	-
Normal Butane	113	0	0	2,727	833	0	300	0	-
Isobutane	274	0	0	673	301	0	405	0	-
Natural Gasoline	253	0	0	1,285	447	0	5,334	0	-
Motor Gasoline Blending Components	7,840	0	465	1,623	1,567	44,092	7,707	0	3,731
Reformulated - RBOB	0	0	0	379	-	7,792	4,147	-	2,394
Conventional	7,840	0	465	1,244	1,567	36,300	3,560	0	1,337
CBOB	7,840	0	465	1,244	1,567	36,300	3,110	0	1,337
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	450	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	115	0	221	112	245	2,372	521	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	115	0	221	112	245	2,372	521	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	115	0	221	112	245	2,372	521	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	297	0	105	60	807	13,663	1,954	0	277
Kerosene	16	0	0	0	-	21	0	-	-
Distillate Fuel Oil	2,842	0	434	817	662	20,736	4,937	0	850
15 ppm sulfur and under	2,842	0	434	817	662	19,731	4,823	0	850
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	1	114	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,004	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	18,471	80	2,870	66,088	14,354	82,026	48,765	0	4,858

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, August 2018
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	22,949	303	-	0	0
Petroleum Products	0	8,521	7,921	1,174	0	0
Natural Gas Liquids	0	7,484	7,921	-	0	0
Ethane	0	1,370	2,514	-	0	0
Propane	0	3,147	2,767	-	0	0
Normal Butane	0	1,381	981	-	0	0
Isobutane	0	593	555	-	0	0
Natural Gasoline	0	993	1,104	-	0	0
Motor Gasoline Blending Components	0	167	0	743	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	167	0	743	0	0
CBOB	0	167	0	743	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	419	0	202	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	419	0	202	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	419	0	202	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	12	0	0	0	0
Kerosene	0	0	0	-	0	-
Distillate Fuel Oil	0	439	0	229	0	0
15 ppm sulfur and under	0	439	0	229	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	31,470	8,224	1,174	0	0

- = No Data Reported.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, August 2018
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	316	275	-	285	1,567	-
Petroleum Products	18	550	0	2,081	2,523	0
Natural Gas Liquids	-	0	-	0	0	-
Ethane	-	-	-	-	-	-
Propane	-	0	-	0	0	-
Normal Butane	-	-	-	-	-	-
Isobutane	-	-	-	-	-	-
Natural Gasoline	-	-	-	-	-	-
Unfinished Oils	18	0	-	0	568	-
Motor Gasoline Blending Components	0	0	0	1,094	150	0
Reformulated - RBOB	0	-	-	88	-	-
Conventional	0	0	0	1,006	150	0
CBOB	0	0	-	1,006	0	-
GTAB	-	-	-	-	-	-
Other	0	0	0	-	150	0
Renewable Fuels	0	0	0	140	852	0
Fuel Ethanol	0	0	-	140	832	-
Renewable Diesel Fuel ¹	0	0	0	-	20	0
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	0	-	81	0	-
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	0	-	81	0	-
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	0	-	81	0	-
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	-	0	-	0	0	-
Kerosene	-	0	-	0	0	-
Distillate Fuel Oil	0	0	-	702	0	-
15 ppm sulfur and under	0	0	-	702	0	-
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-
Greater than 500 ppm sulfur	-	-	-	-	-	-
Residual Fuel Oil	0	550	-	0	842	-
Less than 0.31 percent sulfur	0	0	-	-	31	-
0.31 to 1.00 percent sulfur	0	309	-	0	0	-
Greater than 1.00 percent sulfur	0	241	-	0	811	-
Petrochemical Feedstocks	0	0	-	-	94	-
Naphtha for Petrochemical Feedstock Use	0	0	-	-	94	-
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-
Special Naphthas	0	0	-	-	0	-
Lubricants	0	0	-	10	0	-
Waxes	-	-	-	-	-	-
Marketable Petroleum Coke	-	-	-	-	-	-
Asphalt and Road Oil	0	0	-	54	17	-
Miscellaneous Products	0	0	-	-	0	-
Total	334	825	0	2,366	4,090	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, August 2018
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	2,990	—	2,990	—	240	—	0	0	0
Petroleum Products	22,660	30	371	22,259	2,520	216	0	0	0
Natural Gas Liquids	21	—	—	21	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	21	—	—	21	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	100	—	100	—	590	—	0	0	0
Motor Gasoline Blending Components	11,518	—	—	11,518	437	100	0	0	0
Reformulated - RBOB	0	—	—	—	0	—	0	0	—
Conventional	11,518	—	—	11,518	437	100	0	0	0
CBOB	11,518	—	—	11,518	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	437	100	—	0	0
Renewable Fuels	457	—	—	457	0	116	0	0	0
Fuel Ethanol	457	—	—	457	0	—	0	0	0
Renewable Diesel Fuel ¹	—	—	—	—	0	116	—	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	3,745	—	—	3,745	362	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	3,745	—	—	3,745	362	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	3,745	—	—	3,745	362	—	0	0	0
Finished Aviation Gasoline	99	30	—	69	19	—	0	0	0
Kerosene-Type Jet Fuel	2,246	—	—	2,246	—	—	0	—	0
Kerosene	156	—	156	—	—	—	0	—	0
Distillate Fuel Oil	3,558	—	—	3,558	400	—	0	0	0
15 ppm sulfur and under	3,558	—	—	3,558	400	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Residual Fuel Oil	0	—	—	—	95	—	0	0	0
Less than 0.31 percent sulfur	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur	0	—	—	—	95	—	0	0	0
Greater than 1.00 percent sulfur	0	—	—	—	0	—	0	0	0
Petrochemical Feedstocks	—	—	—	—	0	—	—	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	10	—	—	0	0
Lubricants	413	—	115	298	193	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	347	—	—	347	404	—	0	0	0
Miscellaneous Products	—	—	—	—	10	—	—	0	0
Total	25,650	30	3,361	22,259	2,760	216	0	0	0

— = No Data Reported.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, August 2018
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	2,476	0	0	4,191
Propane	101	190	0	0	737	1,275	0	217
Propylene	0	0	-	-	348	700	-	-
Normal Butane	56	92	0	0	200	445	0	307
Isobutane	0	0	0	0	149	66	0	41
Fuel Ethanol	0	0	0	0	9,306	4,668	493	4,211
Biodiesel	0	0	0	0	18	293	79	257
Marketable Petroleum Coke	0	0	0	0	819	1,023	0	0
Asphalt and Road Oil	39	0	0	0	520	129	0	265

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	204	0	0	398	92
Propane	85	28	0	0	0	0	0	156
Propylene	0	0	-	-	0	0	0	-
Normal Butane	0	2	0	0	0	0	0	40
Isobutane	0	27	0	27	0	0	0	0
Fuel Ethanol	0	0	0	519	0	0	0	0
Biodiesel	0	0	0	94	0	0	0	0
Marketable Petroleum Coke	0	26	0	0	0	77	64	0
Asphalt and Road Oil	222	60	0	97	0	108	149	196

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	-
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	0	0
Marketable Petroleum Coke	0	0	25	0
Asphalt and Road Oil	0	0	0	0

- = No Data Reported.

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

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, August 2018
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	146	316	0	462
3	80	275	0	355
4	0	-	0	0
5	-	-	0	0
From 2 to				
1	299	285	2,476	3,060
3	41,260	1,567	0	42,827
4	7,312	-	0	7,312
5	-	-	4,191	4,191
From 3 to				
1	180	2,990	0	3,170
2	25,909	240	0	26,149
4	0	-	0	0
5	-	-	204	204
From 4 to				
1	0	0	0	0
2	22,949	0	0	22,949
3	303	0	398	701
5	-	-	92	92
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	-	0	0

- = No Data Reported.

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

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, August 2018
(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	6,230	817	5,413	49,560	57,390	-7,830	43,883	29,523	14,360
Petroleum Products	121,561	19,371	102,190	52,764	65,610	-12,846	44,939	136,142	-91,203
Natural Gas Liquids	3,500	7,654	-4,154	22,650	30,760	-8,110	32,205	8,889	23,316
Ethane	0	5,734	-5,734	7,983	11,497	-3,514	13,684	879	12,805
Propane	3,151	1,132	2,019	4,936	11,789	-6,853	10,593	1,915	8,678
Normal Butane	200	261	-61	1,852	4,512	-2,660	4,245	302	3,943
Isobutane	149	274	-125	1,299	1,230	69	1,294	459	835
Natural Gasoline	0	253	-253	6,580	1,732	4,848	2,389	5,334	-2,945
Refinery Olefins	348	0	348	0	1,048	-1,048	700	0	700
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	348	0	348	0	1,048	-1,048	700	0	700
Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	100	18	82	608	568	40	568	690	-122
Motor Gasoline Blending Components	57,169	7,840	49,329	16,151	4,899	11,252	1,773	67,585	-65,812
Reformulated - RBOB	7,880	0	7,880	4,147	467	3,680	379	14,333	-13,954
Conventional	49,289	7,840	41,449	12,004	4,432	7,572	1,394	53,252	-51,858
CBOB	49,289	7,840	41,449	11,117	4,282	6,835	1,244	52,265	-51,021
GTAB	0	0	-	-	-	-	-	-	-
Other	0	0	-	887	150	737	150	987	-837
Renewable Fuels	9,921	0	9,921	0	20,317	-20,317	5,813	1,186	4,627
Fuel Ethanol	9,903	0	9,903	0	19,650	-19,650	5,500	976	4,523
Renewable Diesel Fuel ²	18	0	18	0	667	-667	313	210	103
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	6,419	115	6,304	1,417	659	758	112	7,000	-6,888
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	6,419	115	6,304	1,417	659	758	112	7,000	-6,888
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	6,419	115	6,304	1,417	659	758	112	7,000	-6,888
Finished Aviation Gasoline	99	0	99	19	0	19	0	118	-118
Kerosene-Type Jet Fuel	16,014	297	15,717	2,263	972	1,291	60	18,140	-18,080
Kerosene	177	16	161	16	0	16	0	177	-177
Distillate Fuel Oil	25,430	2,842	22,588	8,618	2,615	6,003	817	30,481	-29,664
15 ppm sulfur and under	24,425	2,842	21,583	8,504	2,615	5,889	817	29,362	-28,545
Greater than 15 ppm to 500 ppm sulfur	1	0	1	114	0	114	0	115	-115
Greater than 500 ppm sulfur	1,004	0	1,004	0	0	-	0	1,004	-1,004
Residual Fuel Oil	0	550	-550	95	842	-747	1,392	95	1,297
Petrochemical Feedstocks	0	0	-	0	94	-94	94	0	94
Naphtha for Petrochemical Feedstock Use	0	0	-	0	94	-94	94	0	94
Other Oils for Petrochemical Feedstock Use	0	0	-	0	0	-	0	0	-
Special Naphthas	0	0	-	10	0	10	0	10	-10
Lubricants	423	0	423	193	10	183	0	606	-606
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	819	0	819	103	1,842	-1,739	1,111	26	1,086
Asphalt and Road Oil	1,143	39	1,104	611	985	-373	294	1,130	-836
Miscellaneous Products	0	0	-	10	0	10	0	10	-10
Total	127,791	20,188	107,603	102,324	123,000	-20,676	88,822	165,665	-76,843

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, August 2018
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	7,312	23,742	-16,430	4,487	0	4,487
Petroleum Products	7,614	18,405	-10,791	12,675	25	12,650
Natural Gas Liquids	3,761	15,601	-11,840	788	0	788
Ethane	327	3,884	-3,557	0	0	-
Propane	1,853	6,070	-4,217	373	0	373
Normal Butane	833	2,402	-1,569	347	0	347
Isobutane	301	1,148	-847	68	0	68
Natural Gasoline	447	2,097	-1,650	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	1,567	910	657	4,574	0	4,574
Reformulated - RBOB	-	-	-	2,394	0	2,394
Conventional	1,567	910	657	2,180	0	2,180
CBOB	1,567	910	657	2,080	0	2,080
GTAB	-	-	-	-	-	-
Other	0	0	-	100	0	100
Renewable Fuels	572	0	572	5,198	0	5,198
Fuel Ethanol	493	0	493	4,731	0	4,731
Renewable Diesel Fuel ²	79	0	79	467	0	467
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	245	621	-376	202	0	202
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	245	621	-376	202	0	202
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	245	621	-376	202	0	202
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	807	12	795	277	0	277
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	662	668	-6	1,079	0	1,079
15 ppm sulfur and under	662	668	-6	1,079	0	1,079
Greater than 15 ppm to 500 ppm sulfur	0	0	-	0	0	-
Greater than 500 ppm sulfur	0	0	-	0	0	-
Residual Fuel Oil	0	0	-	0	0	-
Petrochemical Feedstocks	-	-	-	0	0	-
Naphtha for Petrochemical Feedstock Use	-	-	-	0	0	-
Other Oils for Petrochemical Feedstock Use	-	-	-	-	-	-
Special Naphthas	-	-	-	0	0	-
Lubricants	0	0	-	0	0	-
Waxes	0	0	-	0	0	-
Marketable Petroleum Coke	0	141	-141	0	25	-25
Asphalt and Road Oil	0	452	-452	557	0	557
Miscellaneous Products	0	0	-	0	0	-
Total	14,926	42,147	-27,220	17,162	25	17,137

- = No Data Reported.

¹ Movements of crude oil, propane, normal butane, isobutane, propylene, ethanol, biodiesel, marketable petroleum coke, and asphalt and road oil include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

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

Appendix A

District Descriptions and Maps

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

PAD District I

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

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

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, 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.

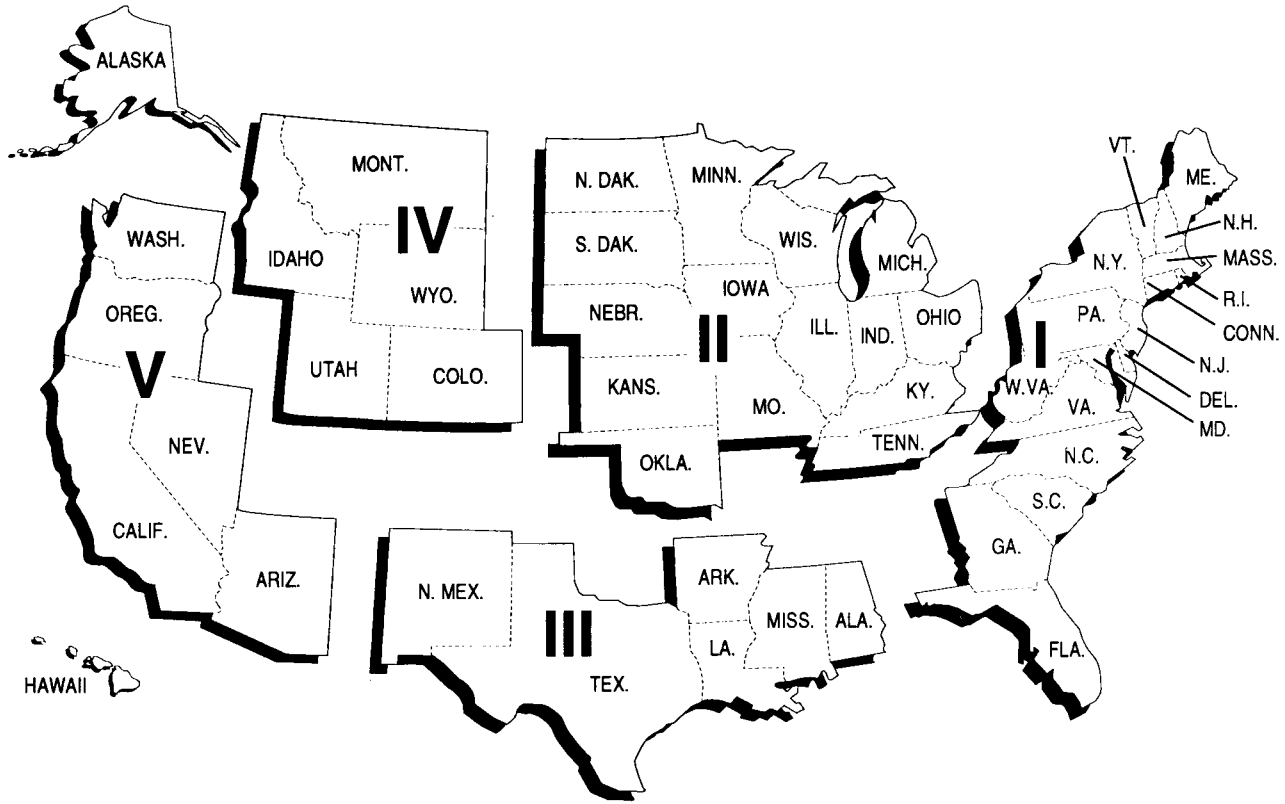
PAD District IV

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

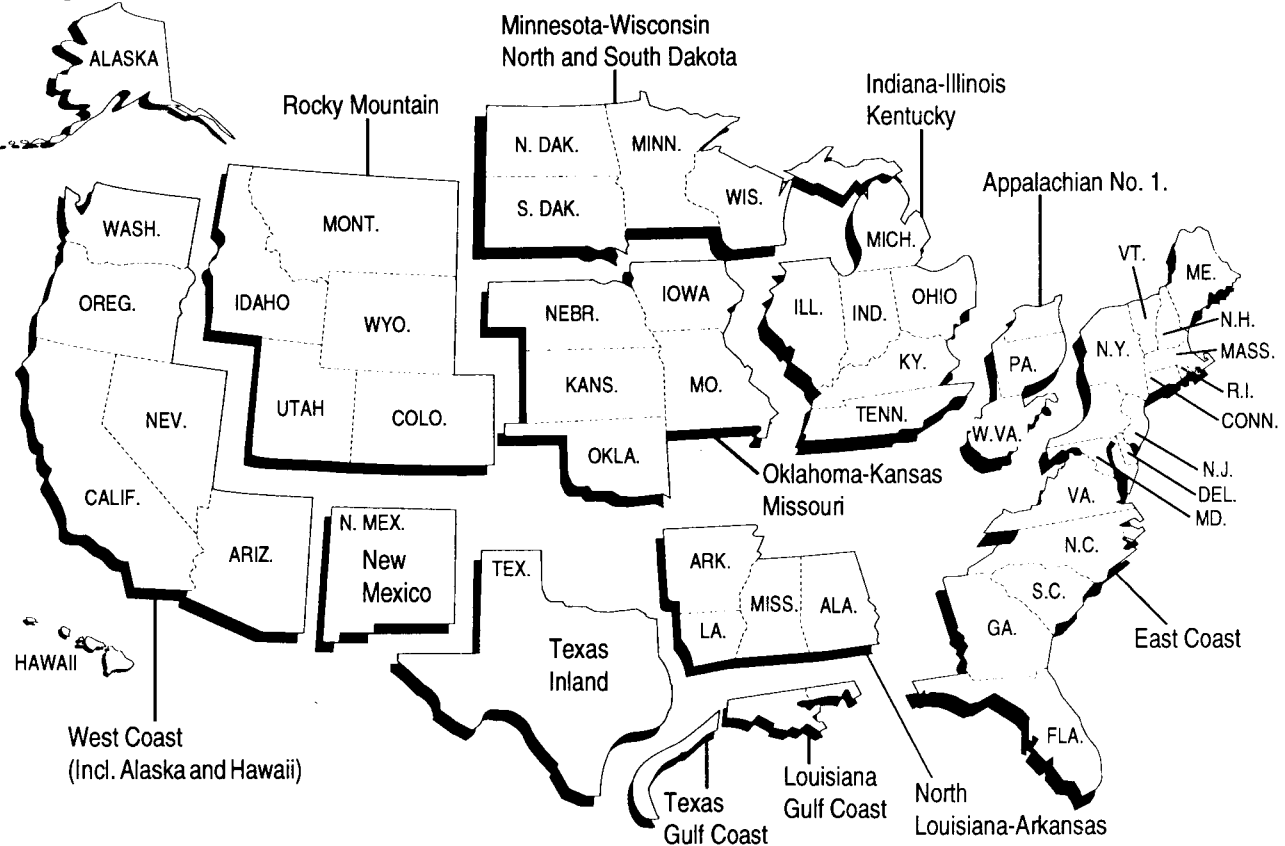
PAD District V

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

Source: U. S. Energy Information Administration

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

State of New York's Strategic Fuels Reserve Program

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

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	88
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised May 2010)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

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

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

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

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

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

feedstocks.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Flexicoking. A thermal cracking process which converts heavy

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

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

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

Examples:

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

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

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

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

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

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

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

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

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

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

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

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

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

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

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

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

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

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

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

Isopentane. See *Natural Gasoline and Isopentane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Reformulated Blendstock for Oxygenate Blending (RBOB).

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

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

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

All Other Motor Gasoline Blending Components.

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

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

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

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

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

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

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

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

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

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

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

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

Normal Butane. See *Butane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Refinery-Grade Butane. See *Butane*.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

to a PAD District.

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

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

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

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

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

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

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

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

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

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

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

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

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

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