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Administration

Petroleum Supply Monthly

with data for April 2019

June 2019



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Preface

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

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

Scope of data

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

Sections

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

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, April 2019
(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	364,872	--	--	210,741	8,784	8,969	490,152	85,276	0	1,117,417
Hydrocarbon Gas Liquids	143,597	-595	24,137	6,116	--	16,328	14,521	55,612	86,794	179,321
Natural Gas Liquids	143,597	-595	16,113	5,442	--	17,305	14,521	55,612	77,119	170,905
Ethane	56,308	--	150	--	--	2,109	--	7,550	46,799	52,089
Propane	46,561	--	8,852	3,695	--	5,205	--	33,230	20,673	52,963
Normal Butane	12,545	--	7,500	1,373	--	8,686	3,460	9,919	-647	36,413
Isobutane	12,343	--	-389	367	--	1,109	6,240	74	4,898	11,123
Natural Gasoline	15,840	-595	--	7	--	196	4,821	4,840	5,395	18,317
Refinery Olefins	--	--	8,024	674	--	-977	--	--	9,675	8,416
Ethylene	--	--	2	--	--	0	--	--	2	0
Propylene	--	--	8,151	554	--	-293	--	--	8,998	7,544
Normal Butylene	--	--	-132	120	--	-602	--	--	590	796
Isobutylene	--	--	3	--	--	-82	--	--	85	76
Other Liquids	--	36,920	--	48,032	4,762	-1,619	74,331	13,321	3,680	337,591
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	36,924	--	1,193	3,015	-64	35,805	5,390	0	32,750
Hydrogen	--	--	--	--	5,990	--	5,990	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,350	--	59	-800	167	--	1,442	0	2,156
Renewable Fuels (including Fuel Ethanol) ...	--	34,574	--	1,130	-2,201	-231	29,785	3,948	0	30,561
Fuel Ethanol ⁵	--	30,951	--	313	97	-93	27,876	3,578	0	23,218
Renewable Fuels Except Fuel Ethanol	--	3,623	--	817	-2,298	-138	1,909	370	0	7,343
Other Hydrocarbons	--	--	--	4	26	0	30	--	0	33
Unfinished Oils	--	--	--	21,121	--	4,146	7,732	5,563	3,680	96,107
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	25,718	1,746	-5,696	30,789	2,367	0	208,704
Reformulated	--	--	--	3,518	6,766	-2,514	12,774	24	0	48,613
Conventional	--	-4	--	22,200	-5,020	-3,182	18,015	2,343	0	160,091
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-5	5	--	0	30
Finished Petroleum Products	--	137	586,666	20,277	309	-5,943	--	100,437	512,894	281,557
Finished Motor Gasoline	--	137	300,305	2,231	-1,843	-108	--	20,247	280,691	21,544
Reformulated	--	--	97,914	--	-5,617	-243	--	--	92,540	39
Conventional	--	137	202,391	2,231	3,774	135	--	20,247	188,151	21,505
Finished Aviation Gasoline	--	--	460	8	--	124	--	--	344	1,193
Kerosene-Type Jet Fuel	--	--	51,827	5,910	--	-658	--	5,903	52,492	40,894
Kerosene	--	--	200	101	--	243	--	4	54	1,968
Distillate Fuel Oil ⁵	--	--	151,614	3,644	2,152	-4,235	--	42,246	119,399	128,200
15 ppm sulfur and under	--	--	142,102	3,514	2,152	-4,465	--	34,393	117,840	113,199
Greater than 15 ppm to 500 ppm sulfur	--	--	3,824	45	--	-299	--	3,953	215	3,835
Greater than 500 ppm sulfur	--	--	5,688	85	--	529	--	3,900	1,344	11,166
Residual Fuel Oil ⁶	--	--	11,640	4,092	--	-791	--	11,444	5,079	27,920
Less than 0.31 percent sulfur	--	--	1,745	631	--	423	--	NA	NA	2,587
0.31 to 1.00 percent sulfur	--	--	1,523	937	--	-32	--	NA	NA	4,501
Greater than 1.00 percent sulfur	--	--	8,372	2,524	--	-1,182	--	NA	NA	20,826
Petrochemical Feedstocks	--	--	9,030	540	--	-198	--	--	9,768	3,188
Naphtha for Petro. Feed. Use	--	--	6,110	426	--	-68	--	--	6,604	2,356
Other Oils for Petro. Feed. Use	--	--	2,920	114	--	-130	--	--	3,164	832
Special Naphthas	--	--	905	376	--	-45	--	--	1,326	1,218
Lubricants	--	--	5,206	1,656	--	-1,165	--	2,979	5,048	11,066
Waxes	--	--	144	143	--	40	--	111	136	730
Petroleum Coke	--	--	24,593	398	--	1,136	--	16,749	7,106	8,589
Marketable	--	--	18,393	398	--	1,136	--	16,749	906	8,589
Catalyst	--	--	6,200	--	--	--	--	--	6,200	--
Asphalt and Road Oil	--	--	8,753	1,177	--	-209	--	720	9,419	34,458
Still Gas	--	--	19,510	--	--	--	--	--	19,510	--
Miscellaneous Products	--	--	2,479	1	--	-77	--	35	2,522	589
Total	508,469	36,462	610,803	285,166	13,854	17,735	579,004	254,646	603,368	1,915,886

-- = 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-April 2019
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	1,428,950	--	--	839,651	37,944	26,484	1,948,038	332,022	0	1,117,417
Hydrocarbon Gas Liquids	562,833	-2,395	67,221	29,703	--	-9,196	67,911	198,488	400,159	179,321
Natural Gas Liquids	562,833	-2,395	34,372	27,379	--	-9,456	67,911	198,488	365,246	170,905
Ethane	224,952	--	564	--	--	2,449	--	31,838	191,229	52,089
Propane	181,726	--	34,167	20,231	--	-10,695	--	118,025	128,794	52,963
Normal Butane	47,538	--	805	5,321	--	-1,322	25,185	28,214	1,587	36,413
Isobutane	48,553	--	-1,164	1,805	--	2,633	25,587	347	20,627	11,123
Natural Gasoline	60,064	-2,395	--	22	--	-2,521	17,139	20,064	23,009	18,317
Refinery Olefins	--	--	32,849	2,324	--	260	--	--	34,913	8,416
Ethylene	--	--	27	--	--	0	--	--	27	0
Propylene	--	--	33,384	1,724	--	598	--	--	34,510	7,544
Normal Butylene	--	--	-551	570	--	-279	--	--	298	796
Isobutylene	--	--	-11	30	--	-59	--	--	78	76
Other Liquids	--	144,928	--	144,172	26,689	-213	251,800	63,616	586	337,591
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	144,947	--	4,019	12,969	1,375	140,367	20,193	0	32,750
Hydrogen	--	--	--	--	25,323	--	25,323	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	9,414	--	236	-2,302	605	--	6,743	0	2,156
Renewable Fuels (including Fuel Ethanol) ...	--	135,533	--	3,771	-10,159	758	114,937	13,450	0	30,561
Fuel Ethanol ⁵	--	122,023	--	564	-2,120	-120	107,911	12,676	0	23,218
Renewable Fuels Except Fuel Ethanol	--	13,510	--	3,207	-8,039	878	7,026	774	0	7,343
Other Hydrocarbons	--	--	--	12	107	12	107	--	0	33
Unfinished Oils	--	--	--	64,130	--	10,251	23,881	29,407	591	96,107
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-19	--	76,023	13,720	-11,838	87,546	14,016	0	208,704
Reformulated	--	-3	--	19,357	32,625	-1,488	53,409	58	0	48,613
Conventional	--	-16	--	56,666	-18,905	-10,350	34,137	13,958	0	160,091
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-1	6	--	-5	30
Finished Petroleum Products	--	401	2,327,584	87,660	-3,700	-12,732	--	396,278	2,028,400	281,557
Finished Motor Gasoline	--	401	1,186,125	8,062	-11,600	-4,188	--	100,072	1,087,104	21,544
Reformulated	--	--	381,825	--	-33,175	-5	--	--	348,655	39
Conventional	--	401	804,300	8,062	21,575	-4,183	--	100,072	738,449	21,505
Finished Aviation Gasoline	--	--	1,439	96	--	237	--	--	1,298	1,193
Kerosene-Type Jet Fuel	--	--	207,592	17,403	--	-692	--	24,829	200,858	40,894
Kerosene	--	--	1,060	101	--	-627	--	354	1,434	1,968
Distillate Fuel Oil ⁵	--	--	605,687	28,886	7,900	-11,806	--	149,825	504,454	128,200
15 ppm sulfur and under	--	--	562,998	27,886	7,900	-10,397	--	117,556	491,625	113,199
Greater than 15 ppm to 500 ppm sulfur	--	--	16,431	470	--	-1,276	--	15,965	2,212	3,835
Greater than 500 ppm sulfur	--	--	26,258	530	--	-133	--	16,304	10,617	11,166
Residual Fuel Oil ⁶	--	--	43,613	18,513	--	-394	--	32,862	29,658	27,920
Less than 0.31 percent sulfur	--	--	7,219	2,423	--	442	--	NA	NA	2,587
0.31 to 1.00 percent sulfur	--	--	5,957	1,986	--	-216	--	NA	NA	4,501
Greater than 1.00 percent sulfur	--	--	30,437	14,104	--	-620	--	NA	NA	20,826
Petrochemical Feedstocks	--	--	35,183	2,084	--	-216	--	--	37,483	3,188
Naphtha for Petro. Feed. Use	--	--	23,623	1,646	--	-38	--	--	25,307	2,356
Other Oils for Petro. Feed. Use	--	--	11,560	438	--	-178	--	--	12,176	832
Special Naphthas	--	--	3,643	1,414	--	-243	--	--	5,300	1,218
Lubricants	--	--	18,941	5,413	--	-2,889	--	13,903	13,340	11,066
Waxes	--	--	545	627	--	54	--	464	654	730
Petroleum Coke	--	--	99,977	724	--	690	--	70,502	29,509	8,589
Marketable	--	--	74,202	724	--	690	--	70,502	3,734	8,589
Catalyst	--	--	25,775	--	--	--	--	--	25,775	--
Asphalt and Road Oil	--	--	34,958	4,333	--	7,413	--	3,293	28,585	34,458
Still Gas	--	--	78,448	--	--	--	--	--	78,448	--
Miscellaneous Products	--	--	10,373	4	--	-71	--	175	10,273	589
Total	1,991,783	142,934	2,394,805	1,101,186	60,933	4,343	2,267,749	990,404	2,429,145	1,915,886

-- = 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, April 2019
(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	12,162	--	--	7,025	293	299	16,338	2,843	0
Hydrocarbon Gas Liquids	4,787	-20	805	204	--	544	484	1,854	2,893
Natural Gas Liquids	4,787	-20	537	181	--	577	484	1,854	2,571
Ethane	1,877	--	5	--	--	70	--	252	1,560
Propane	1,552	--	295	123	--	174	--	1,108	689
Normal Butane	418	--	250	46	--	290	115	331	-22
Isobutane	411	--	-13	12	--	37	208	2	163
Natural Gasoline	528	-20	--	0	--	7	161	161	180
Refinery Olefins	--	--	267	22	--	-33	--	--	323
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	272	18	--	-10	--	--	300
Normal Butylene	--	--	-4	4	--	-20	--	--	20
Isobutylene	--	--	0	--	--	-3	--	--	3
Other Liquids	--	1,231	--	1,601	159	-54	2,478	444	123
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,231	--	40	101	-2	1,194	180	0
Hydrogen	--	--	--	--	200	--	200	--	0
Oxygenates (excluding Fuel Ethanol)	--	78	--	2	-27	6	--	48	0
Renewable Fuels (including Fuel Ethanol)	--	1,152	--	38	-73	-8	993	132	0
Fuel Ethanol ⁵	--	1,032	--	10	3	-3	929	119	0
Renewable Fuels Except Fuel Ethanol	--	121	--	27	-77	-5	64	12	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	704	--	138	258	185	123
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	857	58	-190	1,026	79	0
Reformulated	--	--	--	117	226	-84	426	1	0
Conventional	--	0	--	740	-167	-106	601	78	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	5	19,556	676	10	-198	--	3,348	17,096
Finished Motor Gasoline	--	5	10,010	74	-61	-4	--	675	9,356
Reformulated	--	--	3,264	--	-187	-8	--	--	3,085
Conventional	--	5	6,746	74	126	5	--	675	6,272
Finished Aviation Gasoline	--	--	15	0	--	4	--	--	11
Kerosene-Type Jet Fuel	--	--	1,728	197	--	-22	--	197	1,750
Kerosene	--	--	7	3	--	8	--	0	2
Distillate Fuel Oil ⁵	--	--	5,054	121	72	-141	--	1,408	3,980
15 ppm sulfur and under	--	--	4,737	117	72	-149	--	1,146	3,928
Greater than 15 ppm to 500 ppm sulfur	--	--	127	2	--	-10	--	132	7
Greater than 500 ppm sulfur	--	--	190	3	--	18	--	130	45
Residual Fuel Oil ⁶	--	--	388	136	--	-26	--	381	169
Less than 0.31 percent sulfur	--	--	58	21	--	14	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	51	31	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	279	84	--	-39	--	NA	NA
Petrochemical Feedstocks	--	--	301	18	--	-7	--	--	326
Naphtha for Petro. Feed. Use	--	--	204	14	--	-2	--	--	220
Other Oils for Petro. Feed. Use	--	--	97	4	--	-4	--	--	105
Special Naphthas	--	--	30	13	--	-2	--	--	44
Lubricants	--	--	174	55	--	-39	--	99	168
Waxes	--	--	5	5	--	1	--	4	5
Petroleum Coke	--	--	820	13	--	38	--	558	237
Marketable	--	--	613	13	--	38	--	558	30
Catalyst	--	--	207	--	--	--	--	--	207
Asphalt and Road Oil	--	--	292	39	--	-7	--	24	314
Still Gas	--	--	650	--	--	--	--	--	650
Miscellaneous Products	--	--	83	0	--	-3	--	1	84
Total	16,949	1,215	20,360	9,506	462	591	19,300	8,488	20,112

-- = 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-April 2019
(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	11,908	--	--	6,997	316	221	16,234	2,767	0
Hydrocarbon Gas Liquids	4,690	-20	560	248	--	-77	566	1,654	3,335
Natural Gas Liquids	4,690	-20	286	228	--	-79	566	1,654	3,044
Ethane	1,875	--	--	--	--	20	--	265	1,594
Propane	1,514	--	285	169	--	-89	--	984	1,073
Normal Butane	396	--	7	44	--	-11	210	235	13
Isobutane	405	--	-3	15	--	22	213	3	172
Natural Gasoline	501	-20	--	0	--	-21	143	167	192
Refinery Olefins	--	--	274	19	--	2	--	--	291
Ethylene	--	--	0	--	--	0	--	--	0
Propylene	--	--	278	14	--	5	--	--	288
Normal Butylene	--	--	-5	5	--	-2	--	--	2
Isobutylene	--	--	94	0	--	0	--	--	1
Other Liquids	--	1,208	--	1,201	222	-2	2,098	530	5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,208	--	33	108	11	1,170	168	0
Hydrogen	--	--	--	--	211	--	211	--	0
Oxygenates (excluding Fuel Ethanol)	--	78	--	2	-19	5	--	56	0
Renewable Fuels (including Fuel Ethanol)	--	1,129	--	31	-85	6	958	112	0
Fuel Ethanol ⁵	--	1,017	--	5	-18	-1	899	106	0
Renewable Fuels Except Fuel Ethanol	--	113	--	27	-67	7	59	6	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	534	--	85	199	245	5
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	0	--	634	114	-99	730	117	0
Reformulated	--	0	--	161	272	-12	445	0	0
Conventional	--	0	--	472	-158	-86	284	116	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	19,397	731	-31	-106	--	3,302	16,903
Finished Motor Gasoline	--	3	9,884	67	-97	-35	--	834	9,059
Reformulated	--	--	3,182	--	-276	0	--	--	2,905
Conventional	--	3	6,703	67	180	-35	--	834	6,154
Finished Aviation Gasoline	--	--	12	1	--	2	--	--	11
Kerosene-Type Jet Fuel	--	--	1,730	145	--	-6	--	207	1,674
Kerosene	--	--	9	1	--	-5	--	3	12
Distillate Fuel Oil ⁵	--	--	5,047	241	66	-98	--	1,249	4,204
15 ppm sulfur and under	--	--	4,692	232	66	-87	--	980	4,097
Greater than 15 ppm to 500 ppm sulfur	--	--	137	4	--	-11	--	133	18
Greater than 500 ppm sulfur	--	--	219	4	--	-1	--	136	88
Residual Fuel Oil ⁶	--	--	363	154	--	-3	--	274	247
Less than 0.31 percent sulfur	--	--	60	20	--	4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	50	17	--	-2	--	NA	NA
Greater than 1.00 percent sulfur	--	--	254	118	--	-5	--	NA	NA
Petrochemical Feedstocks	--	--	293	17	--	-2	--	--	312
Naphtha for Petro. Feed. Use	--	--	197	14	--	0	--	--	211
Other Oils for Petro. Feed. Use	--	--	96	4	--	-1	--	--	101
Special Naphthas	--	--	30	12	--	-2	--	--	44
Lubricants	--	--	158	45	--	-24	--	116	111
Waxes	--	--	5	5	--	0	--	4	5
Petroleum Coke	--	--	833	6	--	6	--	588	246
Marketable	--	--	618	6	--	6	--	588	--
Catalyst	--	--	215	--	--	--	--	--	215
Asphalt and Road Oil	--	--	291	36	--	62	--	27	238
Still Gas	--	--	654	--	--	--	--	--	654
Miscellaneous Products	--	--	86	0	--	-1	--	1	86
Total	16,598	1,191	19,957	9,177	508	36	18,898	8,253	20,243

-- = 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, April 2019
(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	1,999	--	--	23,190	5,493	-1,322	-1,501	30,861	0	0	12,654
Hydrocarbon Gas Liquids	16,279	-14	1,400	1,524	-3,633	--	-46	1,591	7,404	6,607	6,278
Natural Gas Liquids	16,279	-14	1,061	1,224	-3,930	--	-79	1,591	7,404	5,704	6,099
Ethane	6,537	--	--	--	--	--	251	--	22	324	550
Propane	5,592	--	615	1,016	2,464	--	-103	--	4,962	4,828	3,467
Normal Butane	1,787	--	461	3	-58	--	-122	926	2,336	-947	1,615
Isobutane	771	--	-15	205	-176	--	-47	399	1	432	195
Natural Gasoline	1,592	-14	--	--	-220	--	-58	266	82	1,068	272
Refinery Olefins	--	--	339	300	--	--	33	--	--	903	179
Ethylene	--	--	2	--	--	--	--	--	--	2	--
Propylene	--	--	349	300	--	--	39	--	--	907	94
Normal Butylene	--	--	-41	--	--	--	-39	--	--	-2	9
Isobutylene	--	--	29	--	--	--	33	--	--	-4	76
Other Liquids	--	898	--	19,401	55,574	5,951	-2,691	83,793	309	413	72,601
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	901	--	252	10,993	-1,334	-76	10,607	281	0	9,458
Hydrogen	--	--	--	--	--	74	--	74	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	901	--	252	10,993	-1,408	-76	10,533	281	0	9,458
Fuel Ethanol	--	697	--	--	10,787	-1,169	-185	10,220	280	0	7,452
Renewable Fuels Except Fuel Ethanol	--	204	--	252	207	-240	109	313	0	0	2,006
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,269	-30	--	-463	1,266	23	413	6,064
Motor Gasoline Blend.Comp. (MGBC)	--	-3	--	17,880	44,611	7,285	-2,152	71,920	5	0	57,079
Reformulated	--	--	--	3,196	6,242	1,748	-2,308	13,493	1	0	18,559
Conventional	--	-3	--	14,684	38,369	5,536	156	58,427	3	0	38,520
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	116,438	9,799	45,527	-5,875	-2,288	--	5,202	162,976	69,690
Finished Motor Gasoline	--	--	99,329	1,891	5,501	-6,116	472	--	36	100,098	3,660
Reformulated	--	--	38,816	--	--	-1,377	-5	--	--	37,444	21
Conventional	--	--	60,513	1,891	5,501	-4,739	477	--	36	62,654	3,639
Finished Aviation Gasoline	--	--	--	1	98	--	0	--	--	99	137
Kerosene-Type Jet Fuel	--	--	2,625	1,782	15,126	--	409	--	671	18,453	8,833
Kerosene	--	--	68	101	92	--	13	--	2	246	1,359
Distillate Fuel Oil ⁶	--	--	9,316	2,874	22,655	241	-2,755	--	1,301	36,539	38,433
15 ppm sulfur and under	--	--	8,948	2,827	20,981	241	-2,928	--	687	35,238	32,347
Greater than 15 ppm to 500 ppm sulfur	--	--	277	45	1	--	-92	--	614	-199	1,681
Greater than 500 ppm sulfur	--	--	91	2	1,673	--	265	--	0	1,501	4,405
Residual Fuel Oil ⁷	--	--	1,235	2,123	--	--	10	--	2,233	1,115	6,422
Less than 0.31 percent sulfur	--	--	503	214	--	--	-52	--	NA	NA	793
0.31 to 1.00 percent sulfur	--	--	406	228	--	--	-7	--	NA	NA	976
Greater than 1.00 percent sulfur	--	--	326	1,681	--	--	69	--	NA	NA	4,653
Petrochemical Feedstocks	--	--	88	2	--	--	-31	--	--	121	114
Naphtha for Petro. Feed. Use	--	--	88	--	--	--	-31	--	--	119	114
Other Oils for Petro. Feed. Use	--	--	--	2	--	--	--	--	--	2	--
Special Naphthas	--	--	21	--	--	--	1	--	--	20	41
Lubricants	--	--	398	178	520	--	-84	--	175	1,005	1,057
Waxes	--	--	11	80	--	--	-10	--	61	40	366
Petroleum Coke	--	--	693	3	739	--	--	--	559	876	--
Marketable	--	--	124	3	739	--	--	--	559	307	--
Catalyst	--	--	569	--	--	--	--	--	--	569	--
Asphalt and Road Oil	--	--	1,142	764	796	--	-316	--	148	2,871	9,236
Still Gas	--	--	1,449	--	--	--	--	--	--	1,449	--
Miscellaneous Products	--	--	63	--	--	--	3	--	15	45	32
Total	18,278	884	117,838	53,914	102,962	-1,246	-6,526	116,245	12,914	169,996	161,223

-- = 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-April 2019
(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	7,496	--	--	83,600	19,563	2,637	999	112,288	9	0	12,654
Hydrocarbon Gas Liquids	63,672	-57	3,092	7,696	-7,842	--	-2,759	7,023	16,764	45,533	6,278
Natural Gas Liquids	63,672	-57	1,774	6,882	-9,091	--	-2,650	7,023	16,764	42,043	6,099
Ethane	25,709	--	--	--	--	--	-293	--	1,612	1,296	550
Propane	21,966	--	2,085	5,891	14,507	--	-2,520	--	11,244	35,725	3,467
Normal Butane	6,770	--	-308	245	1,210	--	195	4,320	3,070	332	1,615
Isobutane	3,093	--	-3	746	-749	--	1	1,726	4	1,356	195
Natural Gasoline	6,134	-57	--	--	-965	--	-33	977	834	3,334	272
Refinery Olefins	--	--	1,318	814	--	--	-109	--	--	3,490	179
Ethylene	--	--	27	--	--	--	--	--	--	27	--
Propylene	--	--	1,292	814	--	--	-27	--	--	3,382	94
Normal Butylene	--	--	-95	--	--	--	-98	--	--	3	9
Isobutylene	--	--	94	--	--	--	16	--	--	78	76
Other Liquids	--	3,699	--	66,428	234,271	25,486	266	328,277	700	641	72,601
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	3,711	--	872	39,423	-286	1,342	41,803	575	0	9,458
Hydrogen	--	--	--	--	--	331	--	331	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	4	--	--	4	0	--
Renewable Fuels (including Fuel Ethanol)	--	3,711	--	872	39,423	-622	1,342	41,472	571	0	9,458
Fuel Ethanol	--	2,872	--	--	38,056	404	871	39,904	557	0	7,452
Renewable Fuels Except Fuel Ethanol	--	839	--	872	1,366	-1,026	471	1,568	13	0	2,006
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	6,112	163	--	859	4,673	102	641	6,064
Motor Gasoline Blend.Comp. (MGBC)	--	-12	--	59,444	194,685	25,772	-1,935	281,801	23	0	57,079
Reformulated	--	--	--	17,734	29,851	10,377	-273	58,229	6	0	18,559
Conventional	--	-12	--	41,710	164,834	15,395	-1,662	223,572	17	0	38,520
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	449,752	52,046	197,785	-25,204	-3,384	--	16,398	661,365	69,690
Finished Motor Gasoline	--	--	384,524	6,208	27,160	-26,176	-220	--	1,143	390,793	3,660
Reformulated	--	--	152,386	--	--	-10,559	-9	--	--	141,836	21
Conventional	--	--	232,138	6,208	27,160	-15,617	-211	--	1,143	248,957	3,639
Finished Aviation Gasoline	--	--	--	22	337	--	7	--	--	352	137
Kerosene-Type Jet Fuel	--	--	10,615	6,669	59,699	--	957	--	1,951	74,075	8,833
Kerosene	--	--	120	101	533	--	-693	--	178	1,269	1,359
Distillate Fuel Oil ⁶	--	--	35,043	26,010	103,571	972	-6,439	--	4,405	167,630	38,433
15 ppm sulfur and under	--	--	31,474	25,309	97,800	972	-5,331	--	2,973	157,912	32,347
Greater than 15 ppm to 500 ppm sulfur	--	--	1,181	470	87	--	-921	--	1,295	1,364	1,681
Greater than 500 ppm sulfur	--	--	2,388	231	5,684	--	-187	--	137	8,353	4,405
Residual Fuel Oil ⁷	--	--	4,946	9,221	-347	--	389	--	5,150	8,281	6,422
Less than 0.31 percent sulfur	--	--	1,669	594	--	--	-108	--	NA	NA	793
0.31 to 1.00 percent sulfur	--	--	1,604	532	--	--	-453	--	NA	NA	976
Greater than 1.00 percent sulfur	--	--	1,673	8,095	-347	--	950	--	NA	NA	4,653
Petrochemical Feedstocks	--	--	241	14	-255	--	34	--	--	-34	114
Naphtha for Petro. Feed. Use	--	--	241	3	--	--	34	--	--	210	114
Other Oils for Petro. Feed. Use	--	--	--	11	-255	--	--	--	--	-244	--
Special Naphthas	--	--	74	1	--	--	-2	--	--	77	41
Lubricants	--	--	1,545	677	1,538	--	-244	--	856	3,148	1,057
Waxes	--	--	39	320	--	--	-10	--	235	134	366
Petroleum Coke	--	--	3,000	20	2,192	--	--	--	2,069	3,143	--
Marketable	--	--	930	20	2,192	--	--	--	2,069	1,073	--
Catalyst	--	--	2,070	--	--	--	--	--	--	2,070	--
Asphalt and Road Oil	--	--	3,976	2,783	3,588	--	2,839	--	359	7,149	9,236
Still Gas	--	--	5,348	--	--	--	--	--	--	5,348	--
Miscellaneous Products	--	--	281	--	-231	--	-2	--	51	1	32
Total	71,168	3,642	452,844	209,770	443,777	2,918	-4,878	447,588	33,871	707,539	161,223

-- = 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, April 2019
(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	67	--	--	773	183	-44	-50	1,029	0	0
Hydrocarbon Gas Liquids	543	0	47	51	-121	--	-2	53	247	220
Natural Gas Liquids	543	0	35	41	-131	--	-3	53	247	190
Ethane	218	--	--	--	--	--	8	--	1	11
Propane	186	--	21	34	82	--	-3	--	--	161
Normal Butane	60	--	15	0	-2	--	-4	31	78	-32
Isobutane	26	--	-1	7	-6	--	-2	13	0	14
Natural Gasoline	53	0	--	--	-7	--	-2	9	3	36
Refinery Olefins	--	--	11	10	--	--	1	--	--	30
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	12	10	10	--	1	--	--	30
Normal Butylene	--	--	-1	--	--	--	-1	--	--	0
Isobutylene	--	--	1	--	--	--	1	--	--	0
Other Liquids	--	30	--	647	1,852	198	-90	2,793	10	14
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	30	--	8	366	-44	-3	354	9	0
Hydrogen	--	--	--	--	--	2	--	2	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	30	--	8	366	-47	-3	351	9	0
Fuel Ethanol ⁶	--	23	--	--	360	-39	-6	341	9	0
Renewable Fuels Except Fuel Ethanol	--	7	--	8	7	-8	4	10	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	42	-1	--	-15	42	1	14
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	596	1,487	243	-72	2,397	0	0
Reformulated	--	--	--	107	208	58	-77	450	0	0
Conventional	--	0	--	489	1,279	185	5	1,948	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,881	327	1,518	-196	-76	--	173	5,433
Finished Motor Gasoline	--	--	3,311	63	183	-204	16	--	1	3,337
Reformulated	--	--	1,294	--	--	-46	0	--	--	1,248
Conventional	--	--	2,017	63	183	-158	16	--	1	2,088
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	88	59	504	--	14	--	22	615
Kerosene	--	--	2	3	3	--	0	--	0	8
Distillate Fuel Oil ⁶	--	--	311	96	755	8	-92	--	43	1,218
15 ppm sulfur and under	--	--	298	94	699	8	-98	--	23	1,175
Greater than 15 ppm to 500 ppm sulfur	--	--	9	2	0	--	-3	--	20	-7
Greater than 500 ppm sulfur	--	--	3	0	56	--	9	--	0	50
Residual Fuel Oil ⁷	--	--	41	71	--	--	0	--	74	37
Less than 0.31 percent sulfur	--	--	17	7	--	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	14	8	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	11	56	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	3	0	--	--	-1	--	--	4
Naphtha for Petro. Feed. Use	--	--	3	--	--	--	-1	--	--	4
Other Oils for Petro. Feed. Use	--	--	--	0	--	--	--	--	--	0
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	6	17	--	-3	--	6	33
Waxes	--	--	0	3	--	--	0	--	2	1
Petroleum Coke	--	--	23	0	25	--	--	--	19	29
Marketable	--	--	4	0	25	--	--	--	19	10
Catalyst	--	--	19	--	--	--	--	--	--	19
Asphalt and Road Oil	--	--	38	25	27	--	-11	--	5	96
Still Gas	--	--	48	--	--	--	--	--	--	48
Miscellaneous Products	--	--	2	--	--	--	0	--	0	2
Total	609	29	3,928	1,797	3,432	-42	-218	3,875	430	5,667

-- = 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-April 2019
(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	62	--	--	697	163	22	8	936	0	0
Hydrocarbon Gas Liquids	531	0	26	64	-65	--	-23	59	140	379
Natural Gas Liquids	531	0	15	57	-76	--	-22	59	140	350
Ethane	214	--	--	--	--	--	-2	--	13	11
Propane	183	--	17	49	121	--	-21	--	--	298
Normal Butane	56	--	-3	2	10	--	2	36	26	3
Isobutane	26	--	0	6	-6	--	0	14	0	11
Natural Gasoline	51	0	--	--	-8	--	0	8	7	28
Refinery Olefins	--	--	11	7	--	--	-1	--	--	29
Ethylene	--	--	0	--	--	--	--	--	--	0
Propylene	--	--	11	7	10	--	0	--	--	28
Normal Butylene	--	--	-1	--	--	--	-1	--	--	0
Isobutylene	--	--	1	--	--	--	0	--	--	1
Other Liquids	--	31	--	554	1,952	212	2	2,736	6	5
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	31	--	7	329	-2	11	348	5	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	7	329	-5	11	346	5	0
Fuel Ethanol ⁶	--	24	--	--	317	3	7	333	5	0
Renewable Fuels Except Fuel Ethanol	--	7	--	7	11	-9	4	13	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	51	1	--	7	39	1	5
Motor Gasoline Blend.Comp. (MGBC) ⁶	--	0	--	495	1,622	215	-16	2,348	0	0
Reformulated	--	--	--	148	249	86	-2	485	0	0
Conventional	--	0	--	348	1,374	128	-14	1,863	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,748	434	1,648	-210	-28	--	137	5,511
Finished Motor Gasoline	--	--	3,204	52	226	-218	-2	--	10	3,257
Reformulated	--	--	1,270	--	--	-88	0	--	--	1,182
Conventional	--	--	1,934	52	226	-130	-2	--	10	2,075
Finished Aviation Gasoline	--	--	--	0	3	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	88	56	497	--	8	--	16	617
Kerosene	--	--	1	1	4	--	-6	--	1	11
Distillate Fuel Oil ⁶	--	--	292	217	863	8	-54	--	37	1,397
15 ppm sulfur and under	--	--	262	211	815	8	-44	--	25	1,316
Greater than 15 ppm to 500 ppm sulfur	--	--	10	4	1	--	-8	--	11	11
Greater than 500 ppm sulfur	--	--	20	2	47	--	-2	--	1	70
Residual Fuel Oil ⁷	--	--	41	77	-3	--	3	--	43	69
Less than 0.31 percent sulfur	--	--	14	5	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	4	--	--	-4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	14	67	-3	--	8	--	NA	NA
Petrochemical Feedstocks	--	--	2	0	-2	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	2	0	--	--	0	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	0	-2	--	--	--	--	-2
Special Naphthas	--	--	1	0	--	--	0	--	--	1
Lubricants	--	--	13	6	13	--	-2	--	7	26
Waxes	--	--	0	3	--	--	0	--	2	1
Petroleum Coke	--	--	25	0	18	--	--	--	17	26
Marketable	--	--	8	0	18	--	--	--	17	9
Catalyst	--	--	17	--	--	--	--	--	--	17
Asphalt and Road Oil	--	--	33	23	30	--	24	--	3	60
Still Gas	--	--	45	--	--	--	--	--	--	45
Miscellaneous Products	--	--	2	--	-2	--	0	--	0	0
Total	593	30	3,774	1,748	3,698	24	-41	3,730	282	5,896

-- = 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, April 2019
(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	65,737	--	--	87,433	-31,348	-5,399	-1,097	112,300	5,220	0	136,772
Hydrocarbon Gas Liquids	30,927	-549	5,627	2,702	-10,799	--	3,732	2,301	7,641	14,234	37,451
Natural Gas Liquids	30,927	-549	4,186	2,425	-10,192	--	3,755	2,301	7,641	13,100	37,038
Ethane	10,775	--	--	--	--	--	-607	--	2,789	4,870	4,932
Propane	10,998	--	2,341	1,549	-7,843	--	2,168	--	89	4,788	11,758
Normal Butane	3,835	--	1,809	782	-1,909	--	2,340	476	101	1,600	8,738
Isobutane	1,857	--	36	87	-72	--	356	1,322	1	229	2,438
Natural Gasoline	3,462	-549	--	7	3,355	--	-502	503	4,661	1,613	9,172
Refinery Olefins	--	--	1,441	277	--	--	-23	--	--	1,134	413
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	1,317	254	--	--	72	--	--	892	370
Normal Butylene	--	--	124	23	--	--	20	--	--	127	43
Isobutylene	--	--	--	--	--	--	-115	--	--	115	0
Other Liquids	--	31,210	--	441	-11,702	-1,005	-2,908	20,289	2,515	-952	69,138
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	31,211	--	85	-21,667	-508	-748	9,066	803	0	9,607
Hydrogen	--	--	--	--	--	1,011	--	1,011	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	0	--	1	0	3
Renewable Fuels (including Fuel Ethanol)	--	31,211	--	85	-21,667	-1,551	-748	8,025	801	0	9,571
Fuel Ethanol	--	28,798	--	--	-20,808	-617	-676	7,451	598	0	8,502
Renewable Fuels Except Fuel Ethanol	--	2,413	--	85	-859	-934	-72	574	203	0	1,069
Other Hydrocarbons	--	--	--	--	--	30	0	30	--	0	33
Unfinished Oils	--	--	--	50	26	--	340	-744	1,432	-952	14,284
Motor Gasoline Blend.Comp. (MGBC)	--	-1	--	306	9,939	-497	-2,500	11,967	280	0	45,247
Reformulated	--	--	--	--	2,393	-179	339	1,875	--	0	6,108
Conventional	--	-1	--	306	7,546	-318	-2,839	10,092	280	0	39,139
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	137	135,486	762	3,329	2,063	390	--	1,402	139,985	68,049
Finished Motor Gasoline	--	137	77,730	--	378	1,114	-288	--	222	79,425	5,822
Reformulated	--	--	10,828	--	--	365	--	--	--	11,193	--
Conventional	--	137	66,902	--	378	749	-288	--	222	68,232	5,822
Finished Aviation Gasoline	--	--	30	3	10	--	-20	--	--	63	179
Kerosene-Type Jet Fuel	--	--	8,537	--	985	--	808	--	39	8,675	8,337
Kerosene	--	--	45	--	--	--	32	--	1	12	158
Distillate Fuel Oil	--	--	33,577	176	4,009	949	112	--	362	38,237	35,026
15 ppm sulfur and under	--	--	33,688	94	3,916	949	163	--	1	38,483	34,045
Greater than 15 ppm to 500 ppm sulfur	--	--	88	--	93	--	-72	--	199	54	482
Greater than 500 ppm sulfur	--	--	-199	82	--	--	21	--	162	-300	499
Residual Fuel Oil ⁶	--	--	1,130	21	-571	--	-158	--	119	619	1,189
Less than 0.31 percent sulfur	--	--	3	--	-33	--	-32	--	NA	NA	50
0.31 to 1.00 percent sulfur	--	--	196	21	--	--	-41	--	NA	NA	228
Greater than 1.00 percent sulfur	--	--	931	--	-538	--	-85	--	NA	NA	911
Petrochemical Feedstocks	--	--	1,010	163	-102	--	17	--	--	1,054	499
Naphtha for Petro. Feed. Use	--	--	648	86	-98	--	11	--	--	625	400
Other Oils for Petro. Feed. Use	--	--	362	77	-4	--	6	--	--	429	99
Special Naphthas	--	--	-41	8	39	--	-16	--	--	22	102
Lubricants	--	--	201	120	125	--	-89	--	207	328	562
Waxes	--	--	26	12	--	--	1	--	31	6	44
Petroleum Coke	--	--	5,051	28	-848	--	0	--	378	3,853	1,957
Marketable	--	--	3,697	28	-848	--	0	--	378	2,499	1,957
Catalyst	--	--	1,354	--	--	--	--	--	--	1,354	--
Asphalt and Road Oil	--	--	3,632	231	-698	--	4	--	42	3,118	14,067
Still Gas	--	--	4,143	--	--	--	--	--	--	4,143	--
Miscellaneous Products	--	--	415	--	3	--	-13	--	2	429	107
Total	96,664	30,798	141,113	91,338	-50,520	-4,341	117	134,890	16,778	153,267	311,410

-- = 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 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-April 2019
(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	258,481	--	--	340,570	-105,556	-26,772	4,670	440,865	21,188	0	136,772
Hydrocarbon Gas Liquids	121,031	-2,213	10,703	12,348	-36,853	--	-12,580	11,336	29,651	76,609	37,451
Natural Gas Liquids	121,031	-2,213	5,501	11,171	-34,231	--	-12,564	11,336	29,651	72,836	37,038
Ethane	42,681	--	--	--	--	--	-259	--	10,537	18,219	4,932
Propane	43,196	--	8,845	8,292	-27,651	--	-8,901	--	368	41,215	11,758
Normal Butane	14,724	--	-25	2,207	-8,464	--	-2,651	3,005	1,097	3,975	8,738
Isobutane	7,288	--	-285	650	-19	--	486	5,702	4	1,442	2,438
Natural Gasoline	13,142	-2,213	--	22	16,087	--	-1,239	2,629	17,664	7,984	9,172
Refinery Olefins	--	--	5,202	1,177	--	--	-16	--	--	3,773	413
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	4,969	910	--	--	15	--	--	3,242	370
Normal Butylene	--	--	188	237	--	--	39	--	--	386	43
Isobutylene	--	--	45	--	--	--	-70	--	--	145	0
Other Liquids	--	122,625	--	2,120	-55,260	-8,526	-2,812	60,605	8,901	-5,734	69,138
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	122,632	--	350	-81,574	-4,464	-14	34,691	2,268	0	9,607
Hydrogen	--	--	--	--	--	4,411	--	4,411	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	5	-1	--	6	0	3
Renewable Fuels (including Fuel Ethanol)	--	122,632	--	350	-81,574	-8,999	-25	30,173	2,262	0	9,571
Fuel Ethanol	--	113,621	--	--	-78,106	-5,197	-177	28,584	1,911	0	8,502
Renewable Fuels Except Fuel Ethanol	--	9,011	--	350	-3,468	-3,802	152	1,589	351	0	1,069
Other Hydrocarbons	--	--	--	--	--	119	12	107	--	0	33
Unfinished Oils	--	--	--	404	-624	--	1,540	-2,243	6,217	-5,734	14,284
Motor Gasoline Blend.Comp. (MGBC)	--	-7	--	1,366	26,938	-4,062	-4,338	28,157	416	0	45,247
Reformulated	--	-3	--	--	5,488	348	-81	5,914	--	0	6,108
Conventional	--	-4	--	1,366	21,450	-4,410	-4,257	22,243	416	0	39,139
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	401	528,692	3,438	5,836	13,161	3,998	--	3,826	543,704	68,049
Finished Motor Gasoline	--	401	298,994	--	-409	9,259	-682	--	532	308,395	5,822
Reformulated	--	--	42,399	--	--	401	--	--	--	42,800	--
Conventional	--	401	256,595	--	-409	8,858	-682	--	532	265,594	5,822
Finished Aviation Gasoline	--	--	146	9	38	--	13	--	--	180	179
Kerosene-Type Jet Fuel	--	--	31,145	--	4,019	--	800	--	233	34,131	8,337
Kerosene	--	--	585	--	20	--	-123	--	3	725	158
Distillate Fuel Oil	--	--	133,595	1,075	10,797	3,902	1,373	--	725	147,271	35,026
15 ppm sulfur and under	--	--	133,490	780	10,309	3,902	1,111	--	2	147,368	34,045
Greater than 15 ppm to 500 ppm sulfur	--	--	507	--	488	--	100	--	403	492	482
Greater than 500 ppm sulfur	--	--	-402	295	--	--	162	--	320	-589	499
Residual Fuel Oil ⁶	--	--	5,102	264	-2,907	--	-91	--	565	1,985	1,189
Less than 0.31 percent sulfur	--	--	191	--	-166	--	-7	--	NA	NA	50
0.31 to 1.00 percent sulfur	--	--	862	125	-75	--	-46	--	NA	NA	228
Greater than 1.00 percent sulfur	--	--	4,049	139	-2,666	--	-38	--	NA	NA	911
Petrochemical Feedstocks	--	--	3,718	654	-360	--	-66	--	--	4,078	499
Naphtha for Petro. Feed. Use	--	--	2,437	331	-286	--	-27	--	--	2,509	400
Other Oils for Petro. Feed. Use	--	--	1,281	323	-74	--	-39	--	--	1,569	99
Special Naphthas	--	--	-5	24	97	--	-81	--	--	197	102
Lubricants	--	--	670	462	554	--	-265	--	735	1,216	562
Waxes	--	--	106	28	--	--	16	--	125	-7	44
Petroleum Coke	--	--	21,394	119	-3,514	--	619	--	518	16,862	1,957
Marketable	--	--	15,730	119	-3,514	--	619	--	518	11,198	1,957
Catalyst	--	--	5,664	--	--	--	--	--	--	5,664	--
Asphalt and Road Oil	--	--	14,985	803	-2,503	--	2,495	--	376	10,415	14,067
Still Gas	--	--	16,457	--	--	--	--	--	--	16,457	--
Miscellaneous Products	--	--	1,800	--	3	--	-10	--	14	1,799	107
Total	379,512	120,813	539,395	358,476	-191,833	-22,137	-6,724	512,806	63,567	614,578	311,410

-- = 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, April 2019
(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	2,191	--	--	2,914	-1,045	-180	-37	3,743	174	0
Hydrocarbon Gas Liquids	1,031	-18	188	90	-360	--	124	77	255	474
Natural Gas Liquids	1,031	-18	140	81	-340	--	125	77	255	437
Ethane	359	--	--	--	--	--	-20	--	93	162
Propane	367	--	78	52	-261	--	72	--	3	160
Normal Butane	128	--	4,223	26	-64	--	78	16	3	53
Isobutane	62	--	1	3	-2	--	12	44	0	8
Natural Gasoline	115	-18	--	0	112	--	-17	17	155	54
Refinery Olefins	--	--	48	9	--	--	-1	--	--	38
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	44	8	-20	--	2	--	--	30
Normal Butylene	--	--	4	1	--	--	1	--	--	4
Isobutylene	--	--	--	--	--	--	-4	--	--	4
Other Liquids	--	1,040	--	15	-390	-34	-97	676	84	-32
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,040	--	3	-722	-17	-25	302	27	0
Hydrogen	--	--	--	--	--	34	--	34	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,040	--	3	-722	-52	-25	268	27	0
Fuel Ethanol	--	960	--	--	-694	-21	-23	248	20	0
Renewable Fuels Except Fuel Ethanol	--	80	--	3	-29	-31	-2	19	7	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	2	1	--	11	-25	48	-32
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	10	331	-17	-83	399	9	0
Reformulated	--	--	--	--	80	-6	11	63	--	0
Conventional	--	0	--	10	252	-11	-95	336	9	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	5	4,516	25	111	69	13	--	47	4,666
Finished Motor Gasoline	--	5	2,591	--	13	37	-10	--	7	2,647
Reformulated	--	--	361	--	--	12	--	--	--	373
Conventional	--	5	2,230	--	13	25	-10	--	7	2,274
Finished Aviation Gasoline	--	--	1	0	0	--	-1	--	--	2
Kerosene-Type Jet Fuel	--	--	285	--	33	--	27	--	1	289
Kerosene	--	--	2	--	--	--	1	--	0	0
Distillate Fuel Oil	--	--	1,119	6	134	32	4	--	12	1,275
15 ppm sulfur and under	--	--	1,123	3	131	32	5	--	0	1,283
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	3	--	-2	--	7	2
Greater than 500 ppm sulfur	--	--	-7	3	--	--	1	--	5	-10
Residual Fuel Oil ⁶	--	--	38	1	-19	--	-5	--	4	21
Less than 0.31 percent sulfur	--	--	0	--	-1	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	1	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	31	--	-18	--	-3	--	NA	NA
Petrochemical Feedstocks	--	--	34	5	-3	--	1	--	--	35
Naphtha for Petro. Feed. Use	--	--	22	3	-3	--	0	--	--	21
Other Oils for Petro. Feed. Use	--	--	12	3	0	--	0	--	--	14
Special Naphthas	--	--	-1	0	1	--	-1	--	--	1
Lubricants	--	--	7	4	4	--	-3	--	7	11
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	168	1	-28	--	0	--	13	128
Marketable	--	--	123	1	-28	--	0	--	13	83
Catalyst	--	--	45	--	--	--	--	--	--	45
Asphalt and Road Oil	--	--	121	8	-23	--	0	--	1	104
Still Gas	--	--	138	--	--	--	--	--	--	138
Miscellaneous Products	--	--	14	--	0	--	0	--	0	14
Total	3,222	1,027	4,704	3,045	-1,684	-145	4	4,496	559	5,109

-- = 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-April 2019
(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	2,154	--	--	2,838	-880	-223	39	3,674	177	0
Hydrocarbon Gas Liquids	1,009	-18	89	103	-307	--	-105	94	247	638
Natural Gas Liquids	1,009	-18	46	93	-285	--	-105	94	247	607
Ethane	356	--	--	--	--	--	-2	--	88	152
Propane	360	--	74	69	-230	--	-74	--	3	343
Normal Butane	123	--	-25	18	-71	--	-22	25	9	33
Isobutane	61	--	-2	5	0	--	4	48	0	12
Natural Gasoline	110	-18	--	0	134	--	-10	22	147	67
Refinery Olefins	--	--	43	10	--	--	0	--	--	31
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	41	8	-22	--	0	--	--	27
Normal Butylene	--	--	2	2	--	--	0	--	--	3
Isobutylene	--	--	0	--	--	--	-1	--	--	1
Other Liquids	--	1,022	--	18	-460	-71	-23	505	74	-48
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,022	--	3	-680	-37	0	289	19	0
Hydrogen	--	--	--	--	--	37	--	37	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	0	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,022	--	3	-680	-75	0	251	19	0
Fuel Ethanol	--	947	--	--	-651	-43	-1	238	16	0
Renewable Fuels Except Fuel Ethanol	--	75	--	3	-29	-32	1	13	3	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	3	-5	--	13	-19	52	-48
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	11	224	-34	-36	235	3	0
Reformulated	--	0	--	--	46	3	-1	49	--	0
Conventional	--	0	--	11	179	-37	-35	185	3	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,406	29	49	110	33	--	32	4,531
Finished Motor Gasoline	--	3	2,492	--	-3	77	-6	--	4	2,570
Reformulated	--	--	353	--	--	3	--	--	--	357
Conventional	--	3	2,138	--	-3	74	-6	--	4	2,213
Finished Aviation Gasoline	--	--	1	0	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	260	--	33	--	7	--	2	284
Kerosene	--	--	5	--	0	--	-1	--	0	6
Distillate Fuel Oil	--	--	1,113	9	90	33	11	--	6	1,227
15 ppm sulfur and under	--	--	1,112	7	86	33	9	--	0	1,228
Greater than 15 ppm to 500 ppm sulfur	--	--	4	--	4	--	1	--	3	4
Greater than 500 ppm sulfur	--	--	-3	--	--	--	1	--	3	-5
Residual Fuel Oil ⁶	--	--	43	2	-24	--	-1	--	5	17
Less than 0.31 percent sulfur	--	--	2	--	-1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	1	-1	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	34	1	-22	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	31	5	-3	--	-1	--	--	34
Naphtha for Petro. Feed. Use	--	--	20	3	-2	--	0	--	--	21
Other Oils for Petro. Feed. Use	--	--	11	3	-1	--	0	--	--	13
Special Naphthas	--	--	0	0	1	--	-1	--	--	2
Lubricants	--	--	6	4	5	--	-2	--	6	10
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	178	1	-29	--	5	--	4	141
Marketable	--	--	131	1	-29	--	5	--	4	93
Catalyst	--	--	47	--	--	--	--	--	--	47
Asphalt and Road Oil	--	--	125	7	-21	--	21	--	3	87
Still Gas	--	--	137	--	--	--	--	--	--	137
Miscellaneous Products	--	--	15	--	0	--	0	--	0	15
Total	3,163	1,007	4,495	2,987	-1,599	-184	-56	4,273	530	5,121

-- = Not Applicable.

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NA = Not Available.

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

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

⁴ 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, April 2019
(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	240,882	--	--	55,336	37,376	16,487	7,049	263,730	79,302	0	890,989
Hydrocarbon Gas Liquids	81,336	-11	15,016	97	25,546	--	12,530	7,732	39,179	62,543	129,964
Natural Gas Liquids	81,336	-11	8,628	--	25,236	--	13,577	7,732	39,179	54,701	122,245
Ethane	35,340	--	150	--	--	--	2,514	--	4,738	41,703	46,113
Propane	24,873	--	4,749	--	8,984	--	3,208	--	27,476	7,922	36,191
Normal Butane	4,766	--	4,223	--	3,337	--	6,238	1,151	6,862	-1,925	23,770
Isobutane	8,415	--	-494	--	1,049	--	889	3,490	71	4,520	7,737
Natural Gasoline	7,942	-11	--	--	-1,599	--	728	3,091	31	2,482	8,434
Refinery Olefins	--	--	6,388	97	--	--	-1,047	--	--	7,842	7,719
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	6,498	--	--	--	-396	--	--	7,204	7,074
Normal Butylene	--	--	-84	97	--	--	-651	--	--	664	645
Isobutylene	--	--	-26	--	--	--	0	--	--	-26	0
Other Liquids	--	3,622	--	20,723	-54,290	2,009	5,137	-46,084	9,934	3,077	135,863
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	3,622	--	119	4,824	4,284	489	8,418	3,942	0	8,812
Hydrogen	--	--	--	--	--	3,529	--	3,529	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,350	--	59	--	-802	167	--	1,440	0	2,153
Renewable Fuels (including Fuel Ethanol)	--	1,272	--	56	4,824	1,562	322	4,889	2,503	0	6,659
Fuel Ethanol	--	557	--	--	4,810	1,951	357	4,547	2,415	0	4,480
Renewable Fuels Except Fuel Ethanol	--	715	--	56	14	-389	-35	342	88	0	2,179
Other Hydrocarbons	--	--	--	4	--	-4	--	--	--	0	--
Unfinished Oils	--	--	--	15,824	4	--	2,695	6,029	4,027	3,077	51,547
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4,780	-59,118	-2,275	1,958	-60,536	1,965	0	75,474
Reformulated	--	--	--	--	-11,012	4,193	677	-7,516	20	0	11,575
Conventional	--	--	--	4,780	-48,106	-6,468	1,281	-53,020	1,945	0	63,899
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-5	5	--	0	30
Finished Petroleum Products	--	--	228,674	3,432	-50,603	1,142	-838	--	83,041	100,443	101,329
Finished Motor Gasoline	--	--	66,727	--	-6,054	324	-494	--	19,583	41,908	8,521
Reformulated	--	--	14,267	--	--	-4,113	-238	--	--	10,392	--
Conventional	--	--	52,460	--	-6,054	4,436	-256	--	19,583	31,515	8,521
Finished Aviation Gasoline	--	--	341	--	-108	--	79	--	--	154	654
Kerosene-Type Jet Fuel	--	--	28,082	--	-17,221	--	-101	--	4,533	6,429	14,772
Kerosene	--	--	78	--	-92	--	207	--	1	-222	434
Distillate Fuel Oil	--	--	86,987	--	-27,680	818	-575	--	37,081	23,619	38,058
15 ppm sulfur and under	--	--	78,585	--	-25,913	818	-714	--	31,910	22,294	31,203
Greater than 15 ppm to 500 ppm sulfur	--	--	3,058	--	-94	--	-98	--	2,996	66	1,360
Greater than 500 ppm sulfur	--	--	5,344	--	-1,673	--	237	--	2,175	1,259	5,495
Residual Fuel Oil ⁷	--	--	5,390	1,422	571	--	126	--	7,391	-134	15,625
Less than 0.31 percent sulfur	--	--	1,060	417	33	--	519	--	NA	NA	1,608
0.31 to 1.00 percent sulfur	--	--	589	455	--	--	220	--	NA	NA	2,980
Greater than 1.00 percent sulfur	--	--	3,741	550	538	--	-613	--	NA	NA	11,037
Petrochemical Feedstocks	--	--	7,931	330	102	--	-183	--	--	8,546	2,572
Naphtha for Petro. Feed. Use	--	--	5,373	295	98	--	-47	--	--	5,813	1,839
Other Oils for Petro. Feed. Use	--	--	2,558	35	4	--	-136	--	--	2,733	733
Special Naphthas	--	--	899	368	-39	--	-37	--	--	1,265	1,042
Lubricants	--	--	4,074	952	-645	--	-908	--	2,274	3,015	8,527
Waxes	--	--	107	8	--	--	49	--	13	53	320
Petroleum Coke	--	--	13,956	352	480	--	1,047	--	11,659	2,082	4,868
Marketable	--	--	10,729	352	480	--	1,047	--	11,659	-1,145	4,868
Catalyst	--	--	3,227	--	--	--	--	--	--	3,227	--
Asphalt and Road Oil	--	--	2,484	--	86	--	11	--	488	2,072	5,589
Still Gas	--	--	10,085	--	--	--	--	--	--	10,085	--
Miscellaneous Products	--	--	1,533	--	-3	--	-59	--	18	1,571	347
Total	322,218	3,611	243,690	79,588	-41,970	19,638	23,878	225,378	211,455	166,064	1,258,145

-- = 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-April 2019
(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	938,716	--	--	224,334	137,295	63,231	10,499	1,043,007	310,070	0	890,989
Hydrocarbon Gas Liquids	318,222	-41	47,563	333	85,349	--	7,534	36,752	145,584	261,556	129,964
Natural Gas Liquids	318,222	-41	21,946	--	83,976	--	7,167	36,752	145,584	234,600	122,245
Ethane	140,899	--	564	--	--	--	2,972	--	19,687	171,146	46,113
Propane	96,621	--	18,556	--	26,172	--	1,988	--	103,138	36,223	36,191
Normal Butane	17,420	--	4,209	--	11,417	--	1,445	12,427	22,299	-3,125	23,770
Isobutane	33,291	--	-1,383	--	3,576	--	2,064	14,543	335	18,542	7,737
Natural Gasoline	29,991	-41	--	--	-9,531	--	-1,302	9,782	124	11,815	8,434
Refinery Olefins	--	--	25,617	333	--	--	367	--	--	26,956	7,719
Ethylene	--	--	--	--	--	--	0	--	--	0	0
Propylene	--	--	26,441	--	--	--	617	--	--	27,197	7,074
Normal Butylene	--	--	-695	333	--	--	-250	--	--	-112	645
Isobutylene	--	--	-129	--	--	--	0	--	--	-129	0
Other Liquids	--	13,982	--	58,611	-217,507	17,411	3,699	-186,663	52,165	3,296	135,863
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	13,982	--	361	22,421	14,383	602	34,155	16,390	0	8,812
Hydrogen	--	--	--	--	--	15,193	--	15,193	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	9,414	--	236	--	-2,314	606	--	6,730	0	2,153
Renewable Fuels (including Fuel Ethanol)	--	4,568	--	113	22,421	1,516	-4	18,962	9,660	0	6,659
Fuel Ethanol	--	1,857	--	--	22,174	2,844	-73	17,527	9,421	0	4,480
Renewable Fuels Except Fuel Ethanol	--	2,711	--	113	247	-1,328	69	1,435	239	0	2,179
Other Hydrocarbons	--	--	--	12	--	-12	--	--	--	0	--
Unfinished Oils	--	--	--	49,287	461	--	6,587	17,127	22,733	3,301	51,547
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	8,963	-240,389	3,028	-3,489	-237,951	13,042	0	75,474
Reformulated	--	--	--	325	-44,576	19,855	-741	-23,700	45	0	11,575
Conventional	--	--	--	8,638	-195,813	-16,828	-2,748	-214,251	12,996	0	63,899
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-1	6	--	-5	30
Finished Petroleum Products	--	--	915,871	13,792	-209,064	-3,155	-10,968	--	330,679	397,734	101,329
Finished Motor Gasoline	--	--	281,255	284	-26,419	-5,872	-3,130	--	93,613	158,765	8,521
Reformulated	--	--	55,474	--	--	-2,214	0	--	--	33,260	--
Conventional	--	--	225,781	284	-26,419	16,342	-3,130	--	93,613	125,505	8,521
Finished Aviation Gasoline	--	--	1,193	59	-375	--	219	--	--	658	654
Kerosene-Type Jet Fuel	--	--	110,170	30	-67,896	--	-665	--	19,498	23,471	14,772
Kerosene	--	--	319	--	-553	--	247	--	164	-645	434
Distillate Fuel Oil	--	--	342,789	407	-117,504	2,717	-5,130	--	126,742	106,797	38,058
15 ppm sulfur and under	--	--	307,105	407	-111,245	2,717	-4,761	--	101,879	101,867	31,203
Greater than 15 ppm to 500 ppm sulfur	--	--	13,303	--	-575	--	-322	--	11,691	1,359	1,360
Greater than 500 ppm sulfur	--	--	22,381	--	-5,684	--	-47	--	13,173	3,571	5,495
Residual Fuel Oil ⁷	--	--	18,658	5,931	3,254	--	-626	--	23,577	4,892	15,625
Less than 0.31 percent sulfur	--	--	4,553	1,491	166	--	708	--	NA	NA	1,608
0.31 to 1.00 percent sulfur	--	--	1,834	512	75	--	441	--	NA	NA	2,980
Greater than 1.00 percent sulfur	--	--	12,271	3,928	3,013	--	-1,775	--	NA	NA	11,037
Petrochemical Feedstocks	--	--	31,212	1,273	615	--	-182	--	--	33,282	2,572
Naphtha for Petro. Feed. Use	--	--	20,933	1,169	286	--	-43	--	--	22,431	1,839
Other Oils for Petro. Feed. Use	--	--	10,279	104	329	--	-139	--	--	10,851	733
Special Naphthas	--	--	3,481	1,389	-97	--	-136	--	--	4,909	1,042
Lubricants	--	--	14,915	3,817	-2,050	--	-2,031	--	10,981	7,732	8,527
Waxes	--	--	400	100	--	--	48	--	83	369	320
Petroleum Coke	--	--	55,063	502	2,509	--	-28	--	53,656	4,446	4,868
Marketable	--	--	41,618	502	2,509	--	-28	--	53,656	-8,999	4,868
Catalyst	--	--	13,445	--	--	--	--	--	--	13,445	--
Asphalt and Road Oil	--	--	9,471	--	-776	--	493	--	2,258	5,944	5,589
Still Gas	--	--	40,600	--	--	--	--	--	--	40,600	--
Miscellaneous Products	--	--	6,345	--	228	--	-47	--	107	6,513	347
Total	1,256,938	13,941	963,434	297,070	-203,926	77,487	10,764	893,096	838,498	662,586	1,258,145

-- = 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, April 2019
(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	8,029	--	--	1,845	1,246	550	235	8,791	2,643	0
Hydrocarbon Gas Liquids	2,711	0	501	3	852	--	418	258	1,306	2,085
Natural Gas Liquids	2,711	0	288	--	841	--	453	258	1,306	1,823
Ethane	1,178	--	5	--	--	--	84	--	158	1,390
Propane	829	--	158	--	299	--	107	--	916	264
Normal Butane	159	--	141	--	111	--	208	38	229	-64
Isobutane	281	--	-16	--	35	--	30	116	2	151
Natural Gasoline	265	0	--	--	-53	--	24	103	1	83
Refinery Olefins	--	--	213	3	--	--	-35	--	--	261
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	217	--	10	--	-13	--	--	240
Normal Butylene	--	--	-3	3	--	--	-22	--	--	22
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	121	--	691	-1,810	67	171	-1,536	331	103
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	121	--	4	161	143	16	281	131	0
Hydrogen	--	--	--	--	--	118	--	118	--	0
Oxygenates (excluding Fuel Ethanol)	--	78	--	2	--	-27	6	--	48	0
Renewable Fuels (including Fuel Ethanol)	--	42	--	2	161	52	11	163	83	0
Fuel Ethanol	--	19	--	--	160	65	12	152	80	0
Renewable Fuels Except Fuel Ethanol	--	24	--	2	0	-13	-1	11	3	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	527	0	--	90	201	134	103
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	159	-1,971	-76	65	-2,018	66	0
Reformulated	--	--	--	--	-367	140	23	-251	1	0
Conventional	--	--	--	159	-1,604	-216	43	-1,767	65	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,622	114	-1,687	38	-28	--	2,768	3,348
Finished Motor Gasoline	--	--	2,224	--	-202	11	-16	--	653	1,397
Reformulated	--	--	476	--	--	-137	-8	--	--	346
Conventional	--	--	1,749	--	-202	148	-9	--	653	1,051
Finished Aviation Gasoline	--	--	11	--	-4	--	3	--	--	5
Kerosene-Type Jet Fuel	--	--	936	--	-574	--	-3	--	151	214
Kerosene	--	--	3	--	-3	--	7	--	0	-7
Distillate Fuel Oil	--	--	2,900	--	-923	27	-19	--	1,236	787
15 ppm sulfur and under	--	--	2,620	--	-864	27	-24	--	1,064	743
Greater than 15 ppm to 500 ppm sulfur	--	--	102	--	-3	--	-3	--	100	2
Greater than 500 ppm sulfur	--	--	178	--	-56	--	8	--	72	42
Residual Fuel Oil ⁷	--	--	180	47	19	--	4	--	246	-4
Less than 0.31 percent sulfur	--	--	35	14	1	--	17	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	20	15	--	--	7	--	NA	NA
Greater than 1.00 percent sulfur	--	--	125	18	18	--	-20	--	NA	NA
Petrochemical Feedstocks	--	--	264	11	3	--	-6	--	--	285
Naphtha for Petro. Feed. Use	--	--	179	10	3	--	-2	--	--	194
Other Oils for Petro. Feed. Use	--	--	85	1	0	--	-5	--	--	91
Special Naphthas	--	--	30	12	-1	--	-1	--	--	42
Lubricants	--	--	136	32	-22	--	-30	--	76	101
Waxes	--	--	4	0	--	--	2	--	0	2
Petroleum Coke	--	--	465	12	16	--	35	--	389	69
Marketable	--	--	358	12	16	--	35	--	389	-38
Catalyst	--	--	108	--	--	--	--	--	--	108
Asphalt and Road Oil	--	--	83	--	3	--	0	--	16	69
Still Gas	--	--	336	--	--	--	--	--	--	336
Miscellaneous Products	--	--	51	--	0	--	-2	--	1	52
Total	10,741	120	8,123	2,653	-1,399	655	796	7,513	7,049	5,535

-- = 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-April 2019
(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	7,823	--	--	1,869	1,144	527	87	8,692	2,584	0
Hydrocarbon Gas Liquids	2,652	0	396	3	711	--	63	306	1,213	2,180
Natural Gas Liquids	2,652	0	183	--	700	--	60	306	1,213	1,955
Ethane	1,174	--	5	--	--	--	25	--	164	1,426
Propane	805	--	155	--	218	--	17	--	859	302
Normal Butane	145	--	-287	--	95	--	12	104	186	-26
Isobutane	277	--	-12	--	30	--	17	121	3	155
Natural Gasoline	250	0	--	--	-79	--	-11	82	1	98
Refinery Olefins	--	--	213	3	--	--	3	--	--	225
Ethylene	--	--	--	--	--	--	0	--	--	0
Propylene	--	--	220	--	11	--	5	--	--	227
Normal Butylene	--	--	-6	3	--	--	-2	--	--	-1
Isobutylene	--	--	-1	--	--	--	0	--	--	-1
Other Liquids	--	117	--	488	-1,813	145	31	-1,556	435	27
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	117	--	3	187	120	5	285	137	0
Hydrogen	--	--	--	--	--	127	--	127	--	0
Oxygenates (excluding Fuel Ethanol)	--	78	--	2	--	-19	5	--	56	0
Renewable Fuels (including Fuel Ethanol)	--	38	--	1	187	13	0	158	80	0
Fuel Ethanol	--	15	--	--	185	24	-1	146	79	0
Renewable Fuels Except Fuel Ethanol	--	23	--	1	2	-11	1	12	2	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	411	4	--	55	143	189	28
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	75	-2,003	25	-29	-1,983	109	0
Reformulated	--	--	--	3	-371	165	-6	-198	0	0
Conventional	--	--	--	72	-1,632	-140	-23	-1,785	108	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,632	115	-1,742	-26	-91	--	2,756	3,314
Finished Motor Gasoline	--	--	2,344	2	-220	-49	-26	--	780	1,323
Reformulated	--	--	462	--	--	-185	0	--	--	277
Conventional	--	--	1,882	2	-220	136	-26	--	780	1,046
Finished Aviation Gasoline	--	--	10	0	-3	--	2	--	--	5
Kerosene-Type Jet Fuel	--	--	918	0	-566	--	-6	--	162	196
Kerosene	--	--	3	--	-5	--	2	--	1	-5
Distillate Fuel Oil	--	--	2,857	3	-979	23	-43	--	1,056	890
15 ppm sulfur and under	--	--	2,559	3	-927	23	-40	--	849	849
Greater than 15 ppm to 500 ppm sulfur	--	--	111	--	-5	--	-3	--	97	11
Greater than 500 ppm sulfur	--	--	187	--	-47	--	0	--	110	30
Residual Fuel Oil ⁷	--	--	155	49	27	--	-5	--	196	41
Less than 0.31 percent sulfur	--	--	38	12	1	--	6	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	4	1	--	4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	102	33	25	--	-15	--	NA	NA
Petrochemical Feedstocks	--	--	260	11	5	--	-2	--	--	277
Naphtha for Petro. Feed. Use	--	--	174	10	2	--	0	--	--	187
Other Oils for Petro. Feed. Use	--	--	86	1	3	--	-1	--	--	90
Special Naphthas	--	--	29	12	-1	--	-1	--	--	41
Lubricants	--	--	124	32	-17	--	-17	--	92	64
Waxes	--	--	3	1	--	--	0	--	1	3
Petroleum Coke	--	--	459	4	21	--	0	--	447	37
Marketable	--	--	347	4	21	--	0	--	447	-75
Catalyst	--	--	112	--	--	--	--	--	--	112
Asphalt and Road Oil	--	--	79	--	-6	--	4	--	19	50
Still Gas	--	--	338	--	--	--	--	--	--	338
Miscellaneous Products	--	--	53	--	2	--	0	--	1	54
Total	10,474	116	8,029	2,476	-1,699	646	90	7,442	6,987	5,522

-- = 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, April 2019
(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	28,075	--	--	10,637	-18,035	-2,458	1,203	17,016	--	0	23,920
Hydrocarbon Gas Liquids	13,171	-11	261	274	-11,858	--	-19	506	65	1,285	3,091
Natural Gas Liquids	13,171	-11	203	274	-11,858	--	-53	506	65	1,261	3,051
Ethane	3,655	--	--	--	--	--	-49	--	--	-98	494
Propane	4,798	--	207	223	-4,056	--	-9	--	0	1,181	1,080
Normal Butane	1,836	--	63	23	-1,594	--	148	153	2	25	823
Isobutane	921	--	-67	28	-870	--	-159	181	--	-10	267
Natural Gasoline	1,961	-11	--	--	-1,536	--	16	172	63	163	387
Refinery Olefins	--	--	58	--	--	--	34	--	--	24	40
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	12	--	--	--	0	--	--	12	1
Normal Butylene	--	--	46	--	--	--	34	--	--	12	39
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	423	--	155	669	-1,307	-660	331	3	266	8,886
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	423	--	12	462	274	58	1,113	0	0	463
Hydrogen	--	--	--	--	--	188	--	188	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	423	--	12	462	86	58	925	0	0	463
Fuel Ethanol	--	423	--	--	408	99	56	874	--	0	382
Renewable Fuels Except Fuel Ethanol	--	0	--	12	54	-13	2	51	0	0	81
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-224	-45	3	266	3,520
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	143	207	-1,581	-494	-737	--	0	4,903
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	207	-1,581	-494	-737	--	0	4,903
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	18,126	221	-577	1,498	-205	--	18	19,456	8,489
Finished Motor Gasoline	--	--	8,989	--	-463	1,482	150	--	1	9,857	1,613
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	8,989	--	-463	1,482	150	--	1	9,857	1,613
Finished Aviation Gasoline	--	--	2	1	--	--	-2	--	--	5	8
Kerosene-Type Jet Fuel	--	--	931	--	806	--	-78	--	--	1,815	731
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	5,735	186	34	16	-324	--	0	6,295	3,560
15 ppm sulfur and under	--	--	5,702	186	34	16	-276	--	0	6,214	3,355
Greater than 15 ppm to 500 ppm sulfur	--	--	50	--	--	--	-30	--	--	80	142
Greater than 500 ppm sulfur	--	--	-17	--	--	--	-18	--	--	1	63
Residual Fuel Oil ⁶	--	--	346	--	--	--	-17	--	7	356	216
Less than 0.31 percent sulfur	--	--	175	--	--	--	-17	--	NA	NA	17
0.31 to 1.00 percent sulfur	--	--	20	--	--	--	0	--	NA	NA	3
Greater than 1.00 percent sulfur	--	--	151	--	--	--	0	--	NA	NA	196
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	7	-7	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	658	--	-295	--	-8	--	--	371	105
Marketable	--	--	447	--	-295	--	-8	--	--	160	105
Catalyst	--	--	211	--	--	--	--	--	--	211	--
Asphalt and Road Oil	--	--	746	33	-658	--	69	--	1	50	2,235
Still Gas	--	--	612	--	--	--	--	--	--	612	--
Miscellaneous Products	--	--	107	1	--	--	5	--	1	102	20
Total	41,246	412	18,387	11,287	-29,800	-2,267	319	17,853	86	21,007	44,386

-- = 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-April 2019
(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	110,212	--	--	43,448	-71,332	-7,555	2,380	72,393	--	0	23,920
Hydrocarbon Gas Liquids	52,465	-41	734	1,958	-44,116	--	-369	2,534	1,402	7,433	3,091
Natural Gas Liquids	52,465	-41	557	1,958	-44,116	--	-372	2,534	1,402	7,259	3,051
Ethane	15,655	--	--	--	--	--	29	--	--	562	494
Propane	18,762	--	870	1,621	-14,463	--	-316	--	2	7,104	1,080
Normal Butane	7,133	--	-287	269	-5,836	--	-120	1,100	6	293	823
Isobutane	3,580	--	-26	68	-3,162	--	0	810	--	-350	267
Natural Gasoline	7,335	-41	--	--	-5,591	--	35	624	1,395	-351	387
Refinery Olefins	--	--	177	--	--	--	3	--	--	174	40
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	15	--	--	--	0	--	--	15	1
Normal Butylene	--	--	183	--	--	--	8	--	--	175	39
Isobutylene	--	--	-21	--	--	--	-5	--	--	-16	0
Other Liquids	--	1,605	--	336	957	-4,017	-752	-1,789	12	1,410	8,886
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,605	--	22	1,228	1,505	-4	4,364	0	0	463
Hydrogen	--	--	--	--	--	784	--	784	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	1,605	--	22	1,228	721	-4	3,580	0	0	463
Fuel Ethanol	--	1,605	--	--	1,029	810	29	3,415	--	0	382
Renewable Fuels Except Fuel Ethanol	--	0	--	22	199	-89	-33	165	0	0	81
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	23	-1,445	12	1,410	3,520
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	314	-271	-5,522	-771	-4,708	0	0	4,903
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-271	-5,522	-771	-4,708	0	0	4,903
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	75,233	622	-3,255	4,769	-487	--	67	77,788	8,489
Finished Motor Gasoline	--	--	35,737	--	-2,297	4,712	0	--	3	38,148	1,613
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	35,737	--	-2,297	4,712	0	--	3	38,148	1,613
Finished Aviation Gasoline	--	--	14	2	--	--	-2	--	--	18	8
Kerosene-Type Jet Fuel	--	--	3,873	--	2,968	--	-83	--	--	6,924	731
Kerosene	--	--	--	--	--	--	-1	--	--	1	1
Distillate Fuel Oil	--	--	24,458	348	-596	57	-884	--	0	25,151	3,560
15 ppm sulfur and under	--	--	24,298	348	-596	57	-802	--	0	24,909	3,355
Greater than 15 ppm to 500 ppm sulfur	--	--	182	--	--	--	-59	--	--	241	142
Greater than 500 ppm sulfur	--	--	-22	--	--	--	-23	--	--	1	63
Residual Fuel Oil ⁶	--	--	1,495	97	--	--	-20	--	31	1,581	216
Less than 0.31 percent sulfur	--	--	779	--	--	--	-8	--	NA	NA	17
0.31 to 1.00 percent sulfur	--	--	88	--	--	--	-5	--	NA	NA	3
Greater than 1.00 percent sulfur	--	--	628	97	--	--	-7	--	NA	NA	196
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	1	--	--	--	--	28	-27	--
Waxes	--	--	--	--	--	--	--	--	1	-1	--
Petroleum Coke	--	--	2,907	--	-1,165	--	-89	--	0	1,831	105
Marketable	--	--	2,060	--	-1,165	--	-89	--	0	984	105
Catalyst	--	--	847	--	--	--	--	--	--	847	--
Asphalt and Road Oil	--	--	3,882	170	-2,165	--	588	--	3	1,296	2,235
Still Gas	--	--	2,522	--	--	--	--	--	--	2,522	--
Miscellaneous Products	--	--	345	4	--	--	4	--	2	343	20
Total	162,677	1,564	75,967	46,364	-117,746	-6,803	772	73,138	1,482	86,632	44,386

-- = 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, biogases, 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, April 2019
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	936	--	--	355	-601	-82	40	567	--	0
Hydrocarbon Gas Liquids	439	0	9	9	-395	--	-1	17	2	43
Natural Gas Liquids	439	0	7	9	-395	--	-2	17	2	42
Ethane	122	--	--	--	--	--	-2	--	--	-3
Propane	160	--	7	7	-135	--	0	--	0	39
Normal Butane	61	--	2	1	-53	--	5	5	0	1
Isobutane	31	--	-2	1	-29	--	-5	6	--	0
Natural Gasoline	65	0	--	--	-51	--	1	6	2	5
Refinery Olefins	--	--	2	--	--	--	1	--	--	1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	2	--	--	--	1	--	--	0
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	14	--	5	22	-44	-22	11	0	9
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	15	9	2	37	0	0
Hydrogen	--	--	--	--	--	6	--	6	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	--	--	--	--	--
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	15	3	2	31	0	0
Fuel Ethanol	--	14	--	--	14	3	2	29	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	0	2	0	0	2	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	-7	-2	0	9
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	5	7	-53	-16	-25	--	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	7	-53	-16	-25	--	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	604	7	-19	50	-7	--	1	649
Finished Motor Gasoline	--	--	300	--	-15	49	5	--	0	329
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	300	--	-15	49	5	--	0	329
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	31	--	27	--	-3	--	--	61
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	191	6	1	1	-11	--	0	210
15 ppm sulfur and under	--	--	190	6	1	1	-9	--	0	207
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	-1	--	--	3
Greater than 500 ppm sulfur	--	--	-1	--	--	--	-1	--	--	0
Residual Fuel Oil ⁶	--	--	12	--	--	--	-1	--	0	12
Less than 0.31 percent sulfur	--	--	6	--	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	5	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	22	--	-10	--	0	--	--	12
Marketable	--	--	15	--	-10	--	0	--	--	5
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	25	1	-22	--	2	--	0	2
Still Gas	--	--	20	--	--	--	--	--	--	20
Miscellaneous Products	--	--	4	0	--	--	0	--	0	3
Total	1,375	14	613	376	-993	-76	11	595	3	700

-- = 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-April 2019
(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	918	--	--	362	-594	-63	20	603	--	0
Hydrocarbon Gas Liquids	437	0	6	16	-368	--	-3	21	12	62
Natural Gas Liquids	437	0	5	16	-368	--	-3	21	12	60
Ethane	130	--	--	--	--	--	0	--	--	5
Propane	156	--	7	14	-121	--	-3	--	0	59
Normal Butane	59	--	-2	2	-49	--	-1	9	0	2
Isobutane	30	--	0	1	-26	--	0	7	--	-3
Natural Gasoline	61	0	--	--	-47	--	0	5	12	-3
Refinery Olefins	--	--	1	--	--	--	0	--	--	1
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	0	--	--	--	0	--	--	0
Normal Butylene	--	--	2	--	--	--	0	--	--	1
Isobutylene	--	--	0	--	--	--	0	--	--	0
Other Liquids	--	13	--	3	8	-33	-6	-15	0	--
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	13	--	0	10	13	0	36	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	13	--	0	10	6	0	30	0	0
Fuel Ethanol	--	13	--	--	9	7	0	28	--	0
Renewable Fuels Except Fuel Ethanol	--	0	--	0	2	-1	0	1	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	0	-12	0	12
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	3	-2	-46	-6	-39	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-2	-46	-6	-39	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	627	5	-27	40	-4	--	1	648
Finished Motor Gasoline	--	--	298	--	-19	39	0	--	0	318
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	298	--	-19	39	0	--	0	318
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	32	--	25	--	-1	--	--	58
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	204	3	-5	0	-7	--	0	210
15 ppm sulfur and under	--	--	202	3	-5	0	-7	--	0	208
Greater than 15 ppm to 500 ppm sulfur	--	--	2	--	--	--	0	--	--	2
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	12	1	--	--	0	--	0	13
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	--	--	5	1	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	0	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	24	--	-10	--	-1	--	0	15
Marketable	--	--	17	--	-10	--	-1	--	0	8
Catalyst	--	--	7	--	--	--	--	--	--	7
Asphalt and Road Oil	--	--	32	1	-18	--	5	--	0	11
Still Gas	--	--	21	--	--	--	--	--	--	21
Miscellaneous Products	--	--	3	0	--	--	0	--	0	3
Total	1,356	13	633	386	-981	-57	6	609	12	722

-- = 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, April 2019
(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	28,179	--	--	34,145	6,514	1,476	3,315	66,245	754	0	53,082
Hydrocarbon Gas Liquids	1,884	-10	1,833	1,519	744	--	131	2,391	1,323	2,125	2,537
Natural Gas Liquids	1,884	-10	2,035	1,519	744	--	105	2,391	1,323	2,353	2,472
Ethane	1	--	--	--	--	--	--	--	0	1	--
Propane	300	--	940	907	451	--	-59	--	702	1,955	467
Normal Butane	321	--	944	565	224	--	82	754	618	600	1,467
Isobutane	379	--	151	47	69	--	70	848	1	-273	486
Natural Gasoline	883	-10	--	--	--	--	12	789	3	69	52
Refinery Olefins	--	--	-202	--	--	--	26	--	--	-228	65
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	-25	--	--	--	-8	--	--	-17	5
Normal Butylene	--	--	-177	--	--	--	34	--	--	-211	60
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	767	--	7,312	9,748	-886	-497	16,002	561	875	51,104
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	767	--	725	5,387	300	213	6,601	365	0	4,411
Hydrogen	--	--	--	--	--	1,188	--	1,188	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	767	--	725	5,387	-889	213	5,413	364	0	4,411
Fuel Ethanol	--	476	--	313	4,803	-168	355	4,784	285	0	2,402
Renewable Fuels Except Fuel Ethanol	--	291	--	412	584	-721	-142	629	79	0	2,009
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	3,978	--	--	1,798	1,226	79	875	20,692
Motor Gasoline Blend Comp. (MGBC)	--	--	--	2,609	4,361	-1,185	-2,508	8,175	118	0	26,001
Reformulated	--	--	--	322	2,377	1,004	-1,222	4,922	3	0	12,371
Conventional	--	--	--	2,287	1,984	-2,189	-1,286	3,253	115	0	13,630
Aviation Gasoline Blend Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	87,942	6,063	2,323	1,480	-3,002	--	10,775	90,035	34,000
Finished Motor Gasoline	--	--	47,530	340	638	1,353	52	--	405	49,404	1,928
Reformulated	--	--	34,003	--	--	-492	0	--	--	33,511	18
Conventional	--	--	13,527	340	638	1,845	52	--	405	15,893	1,910
Finished Aviation Gasoline	--	--	87	3	--	--	67	--	--	23	215
Kerosene-Type Jet Fuel	--	--	11,652	4,128	304	--	-1,696	--	660	17,120	8,221
Kerosene	--	--	9	--	--	--	-9	--	0	18	16
Distillate Fuel Oil	--	--	15,999	408	982	127	-693	--	3,501	14,708	13,123
15 ppm sulfur and under	--	--	15,179	407	982	127	-710	--	1,795	15,610	12,249
Greater than 15 ppm to 500 ppm sulfur	--	--	351	--	--	--	-7	--	143	215	170
Greater than 500 ppm sulfur	--	--	469	1	--	--	24	--	1,563	-1,117	704
Residual Fuel Oil ⁶	--	--	3,539	526	--	--	-752	--	1,693	3,124	4,468
Less than 0.31 percent sulfur	--	--	4	--	--	--	5	--	NA	NA	119
0.31 to 1.00 percent sulfur	--	--	312	233	--	--	-204	--	NA	NA	314
Greater than 1.00 percent sulfur	--	--	3,223	293	--	--	-553	--	NA	NA	4,029
Petrochemical Feedstocks	--	--	1	45	--	--	-1	--	--	47	3
Naphtha for Petro. Feed. Use	--	--	1	45	--	--	-1	--	--	47	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	26	--	--	--	7	--	--	19	33
Lubricants	--	--	533	406	--	--	-84	--	316	707	920
Waxes	--	--	--	43	--	--	--	--	6	37	--
Petroleum Coke	--	--	4,235	15	-75	--	97	--	4,153	-75	1,659
Marketable	--	--	3,396	15	-75	--	97	--	4,153	-914	1,659
Catalyst	--	--	839	--	--	--	--	--	--	839	--
Asphalt and Road Oil	--	--	749	149	474	--	23	--	40	1,308	3,331
Still Gas	--	--	3,221	--	--	--	--	--	--	3,221	--
Miscellaneous Products	--	--	361	--	--	--	-13	--	0	374	83
Total	30,063	757	89,775	49,039	19,328	2,070	-53	84,638	13,413	93,035	140,723

-- = 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,

biogas, 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-April 2019
(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	114,045	--	--	147,699	20,030	6,402	7,936	279,485	755	0	53,082
Hydrocarbon Gas Liquids	7,443	-43	5,129	7,368	3,462	--	-1,022	10,266	5,086	9,029	2,537
Natural Gas Liquids	7,443	-43	4,594	7,368	3,462	--	-1,037	10,266	5,086	8,509	2,472
Ethane	8	--	--	--	--	--	--	--	1	7	--
Propane	1,181	--	3,811	4,427	1,435	--	-946	--	3,273	8,527	467
Normal Butane	1,491	--	250	2,600	1,673	--	-191	4,333	1,760	112	1,467
Isobutane	1,301	--	533	341	354	--	82	2,806	4	-363	486
Natural Gasoline	3,462	-43	--	--	--	--	18	3,127	48	226	52
Refinery Olefins	--	--	535	--	--	--	15	--	--	520	65
Ethylene	--	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	667	--	--	--	-7	--	--	674	5
Normal Butylene	--	--	-132	--	--	--	22	--	--	-154	60
Isobutylene	--	--	--	--	--	--	0	--	--	0	0
Other Liquids	--	3,017	--	16,677	37,539	-3,664	-614	51,370	1,838	974	51,104
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	--	3,017	--	2,414	18,502	1,831	-551	25,354	960	0	4,411
Hydrogen	--	--	--	--	--	4,604	--	4,604	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	3,017	--	2,414	18,502	-2,775	-551	20,750	958	0	4,411
Fuel Ethanol	--	2,068	--	564	16,847	-982	-770	18,481	786	0	2,402
Renewable Fuels Except Fuel Ethanol	--	949	--	1,850	1,654	-1,793	219	2,269	171	0	2,009
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	8,327	--	--	1,242	5,769	342	974	20,692
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	5,936	19,037	-5,496	-1,305	20,247	535	0	26,001
Reformulated	--	--	--	1,298	9,237	2,044	-393	12,966	6	0	12,371
Conventional	--	--	--	4,638	9,800	-7,540	-912	7,281	529	0	13,630
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	358,036	17,762	8,698	6,729	-1,891	--	45,308	347,808	34,000
Finished Motor Gasoline	--	--	185,615	1,570	1,965	6,477	-156	--	4,780	191,003	1,928
Reformulated	--	--	131,566	--	--	-802	4	--	--	130,760	18
Conventional	--	--	54,049	1,570	1,965	7,280	-160	--	4,780	60,244	1,910
Finished Aviation Gasoline	--	--	86	4	--	--	0	--	--	90	215
Kerosene-Type Jet Fuel	--	--	51,789	10,704	1,210	--	-1,701	--	3,147	62,257	8,221
Kerosene	--	--	36	--	--	--	-57	--	9	84	16
Distillate Fuel Oil	--	--	69,802	1,046	3,732	251	-726	--	17,952	57,605	13,123
15 ppm sulfur and under	--	--	66,631	1,042	3,732	251	-614	--	12,702	59,569	12,249
Greater than 15 ppm to 500 ppm sulfur	--	--	1,258	--	--	--	-74	--	2,577	-1,245	170
Greater than 500 ppm sulfur	--	--	1,913	4	--	--	-38	--	2,674	-719	704
Residual Fuel Oil ⁶	--	--	13,412	3,000	--	--	-46	--	3,539	12,919	4,468
Less than 0.31 percent sulfur	--	--	27	338	--	--	-143	--	NA	NA	119
0.31 to 1.00 percent sulfur	--	--	1,569	817	--	--	-153	--	NA	NA	314
Greater than 1.00 percent sulfur	--	--	11,816	1,845	--	--	250	--	NA	NA	4,029
Petrochemical Feedstocks	--	--	12	143	--	--	-2	--	--	157	3
Naphtha for Petro. Feed. Use	--	--	12	143	--	--	-2	--	--	157	3
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	93	--	--	--	-24	--	--	117	33
Lubricants	--	--	1,811	456	-42	--	-349	--	1,304	1,270	920
Waxes	--	--	--	179	--	--	--	--	20	159	--
Petroleum Coke	--	--	17,613	83	-23	--	188	--	14,258	3,227	1,659
Marketable	--	--	13,864	83	-23	--	188	--	14,258	-522	1,659
Catalyst	--	--	3,749	--	--	--	--	--	--	3,749	--
Asphalt and Road Oil	--	--	2,644	577	1,856	--	998	--	298	3,781	3,331
Still Gas	--	--	13,521	--	--	--	--	--	--	13,521	--
Miscellaneous Products	--	--	1,602	--	--	--	-16	--	1	1,617	83
Total	121,488	2,974	363,165	189,506	69,728	9,467	4,409	341,121	52,987	357,811	140,723

-- = 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, April 2019
(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	939	--	--	1,138	217	49	111	2,208	25	0
Hydrocarbon Gas Liquids	63	0	61	51	25	--	4	80	44	71
Natural Gas Liquids	63	0	68	51	25	--	4	80	44	78
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	31	30	15	--	-2	--	23	65
Normal Butane	11	--	31	19	7	--	3	25	21	20
Isobutane	13	--	5	2	2	--	2	28	0	-9
Natural Gasoline	29	0	--	--	--	--	0	26	0	2
Refinery Olefins	--	--	-7	--	--	--	1	--	--	-8
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	-1	--	--	--	0	--	--	-1
Normal Butylene	--	--	-6	--	--	--	1	--	--	-7
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	26	--	244	325	-30	-17	533	19	29
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	26	--	24	180	10	7	220	12	0
Hydrogen	--	--	--	--	--	40	--	40	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	26	--	24	180	-30	7	180	12	0
Fuel Ethanol	--	16	--	10	160	-6	12	159	10	0
Renewable Fuels Except Fuel Ethanol	--	10	--	14	19	-24	-5	21	3	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	133	--	--	60	41	3	29
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	87	145	-40	-84	273	4	0
Reformulated	--	--	--	11	79	33	-41	164	0	0
Conventional	--	--	--	76	66	-73	-43	108	4	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	2,931	202	77	49	-100	--	359	3,001
Finished Motor Gasoline	--	--	1,584	11	21	45	2	--	14	1,647
Reformulated	--	--	1,133	--	--	-16	0	--	--	1,117
Conventional	--	--	451	11	21	62	2	--	14	530
Finished Aviation Gasoline	--	--	3	0	--	--	2	--	--	1
Kerosene-Type Jet Fuel	--	--	388	138	10	--	-57	--	22	571
Kerosene	--	--	0	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	533	14	33	4	-23	--	117	490
15 ppm sulfur and under	--	--	506	14	33	4	-24	--	60	520
Greater than 15 ppm to 500 ppm sulfur	--	--	12	--	--	--	0	--	5	7
Greater than 500 ppm sulfur	--	--	16	0	--	--	1	--	52	-37
Residual Fuel Oil ⁶	--	--	118	18	--	--	-25	--	56	104
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	10	8	--	--	-7	--	NA	NA
Greater than 1.00 percent sulfur	--	--	107	10	--	--	-18	--	NA	NA
Petrochemical Feedstocks	--	--	0	2	--	--	0	--	--	2
Naphtha for Petro. Feed. Use	--	--	0	2	--	--	0	--	--	2
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	18	14	--	--	-3	--	11	24
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	141	1	-3	--	3	--	138	-3
Marketable	--	--	113	1	-3	--	3	--	138	-30
Catalyst	--	--	28	--	--	--	--	--	--	28
Asphalt and Road Oil	--	--	25	5	16	--	1	--	1	44
Still Gas	--	--	107	--	--	--	--	--	--	107
Miscellaneous Products	--	--	12	--	--	--	0	--	0	12
Total	1,002	25	2,993	1,635	644	69	-2	2,821	447	3,101

-- = 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-April 2019
(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	950	--	--	1,231	167	53	66	2,329	6	0
Hydrocarbon Gas Liquids	62	0	43	61	29	--	-9	86	42	75
Natural Gas Liquids	62	0	38	61	29	--	-9	86	42	71
Ethane	0	--	--	--	--	--	--	--	0	0
Propane	10	--	32	37	12	--	-8	--	27	71
Normal Butane	12	--	2	22	14	--	-2	36	15	1
Isobutane	11	--	4	3	3	--	1	23	0	-3
Natural Gasoline	29	0	--	--	--	--	0	26	0	2
Refinery Olefins	--	--	4	--	--	--	0	--	--	4
Ethylene	--	--	--	--	--	--	--	--	--	--
Propylene	--	--	6	--	--	--	0	--	--	6
Normal Butylene	--	--	-1	--	--	--	0	--	--	-1
Isobutylene	--	--	--	--	--	--	0	--	--	0
Other Liquids	--	25	--	139	313	-31	-5	428	15	8
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	25	--	20	154	15	-5	211	8	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	25	--	20	154	-23	-5	173	8	0
Fuel Ethanol	--	17	--	5	140	-8	-6	154	7	0
Renewable Fuels Except Fuel Ethanol	--	8	--	15	14	-15	2	19	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	69	--	--	10	48	3	8
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	49	159	-46	-11	169	4	0
Reformulated	--	--	--	11	77	17	-3	108	0	0
Conventional	--	--	--	39	82	-63	-8	61	4	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	2,984	148	72	56	-16	--	378	2,898
Finished Motor Gasoline	--	--	1,547	13	16	54	-1	--	40	1,592
Reformulated	--	--	1,096	--	--	-7	0	--	--	1,090
Conventional	--	--	450	13	16	61	-1	--	40	502
Finished Aviation Gasoline	--	--	1	0	--	--	0	--	--	1
Kerosene-Type Jet Fuel	--	--	432	89	10	--	-14	--	26	519
Kerosene	--	--	0	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	582	9	31	2	-6	--	150	480
15 ppm sulfur and under	--	--	555	9	31	2	-5	--	106	496
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	-1	--	21	-10
Greater than 500 ppm sulfur	--	--	16	0	--	--	0	--	22	-6
Residual Fuel Oil ⁶	--	--	112	25	--	--	0	--	29	108
Less than 0.31 percent sulfur	--	--	0	3	--	--	-1	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	13	7	--	--	-1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	98	15	--	--	2	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	15	4	0	--	-3	--	11	11
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	147	1	0	--	2	--	119	27
Marketable	--	--	116	1	0	--	2	--	119	-4
Catalyst	--	--	31	--	--	--	--	--	--	31
Asphalt and Road Oil	--	--	22	5	15	--	8	--	2	32
Still Gas	--	--	113	--	--	--	--	--	--	113
Miscellaneous Products	--	--	13	--	--	--	0	--	0	13
Total	1,012	25	3,026	1,579	581	79	37	2,843	442	2,982

-- = 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, April 2019
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,999	65,737	240,882	28,075	28,179	364,872	12,162
Alaskan	--	--	--	--	--	14,264	475
Lower 48 States	--	--	--	--	--	350,608	11,687
Imports (PAD District of Entry)	23,190	87,433	55,336	10,637	34,145	210,741	7,025
Commercial	23,190	87,433	55,336	10,637	34,145	210,741	7,025
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	5,493	-31,348	37,376	-18,035	6,514	--	--
Adjustments ¹	-1,322	-5,399	16,487	-2,458	1,476	8,784	293
Disposition							
Stock Change ²	-1,501	-1,097	7,049	1,203	3,315	8,969	299
Commercial	--	--	7,587	--	--	9,507	317
SPR	--	--	-538	--	--	-538	-18
Refinery Inputs	30,861	112,300	263,730	17,016	66,245	490,152	16,338
Exports	0	5,220	79,302	--	754	85,276	2,843
Ending Stocks							
Total	12,654	136,772	890,989	23,920	53,082	1,117,417	--
Commercial	12,654	136,772	242,401	23,920	53,082	468,829	--
Refinery	10,549	13,674	50,231	2,722	23,018	100,194	--
Tank Farms and Pipelines	2,105	123,098	192,170	21,198	25,117	363,688	--
Cushing, Oklahoma	--	45,864	--	--	--	45,864	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	4,947	4,947	--
SPR	--	--	648,588	--	--	648,588	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	58.0	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	33.9	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	638	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	23,190	87,433	55,336	10,637	34,145	210,741	7,025
PAD District of Processing	24,780	79,466	63,574	8,018	34,903	210,741	7,025

-- = 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, April 2019
(Thousand Barrels)

PAD District and State	April 2019		January-April 2019	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,999	67	7,496	62
Florida	137	5	569	5
New York	15	1	60	1
Pennsylvania	606	20	2,048	17
Virginia	0	0	1	0
West Virginia	1,241	41	4,818	40
PAD District 2	65,737	2,191	258,481	2,154
Illinois	698	23	2,674	22
Indiana	132	4	531	4
Kansas	2,846	95	11,113	93
Kentucky	49	2	661	6
Michigan	433	14	1,688	14
Missouri	7	0	24	0
Nebraska	186	6	665	6
North Dakota	40,778	1,359	162,251	1,352
Ohio	1,987	66	7,919	66
Oklahoma	18,505	617	70,490	587
South Dakota	97	3	393	3
Tennessee	18	1	72	1
PAD District 3	240,882	8,029	938,716	7,823
Alabama	412	14	1,733	14
Arkansas	395	13	1,559	13
Louisiana	3,621	121	14,516	121
Mississippi	1,506	50	6,038	50
New Mexico	26,490	883	103,499	862
Texas	149,002	4,967	585,614	4,880
Federal Offshore PAD District 3	59,456	1,982	225,757	1,881
PAD District 4	28,075	936	110,212	918
Colorado	14,500	483	58,178	485
Idaho	2	0	10	0
Montana	2,080	69	7,602	63
Utah	3,178	106	12,389	103
Wyoming	8,314	277	32,033	267
PAD District 5	28,179	939	114,045	950
Alaska	14,264	475	58,213	485
South Alaska	462	15	1,827	15
North Slope	13,802	460	56,386	470
Arizona	1	0	3	0
California	13,543	451	54,504	454
Nevada	22	1	84	1
Federal Offshore PAD District 5	349	12	1,240	10
U.S. Total	364,872	12,162	1,428,950	11,908

- = 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, April 2019
(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	13	16,266	16,279	5,161	8,204	17,562	30,927
Natural Gas Liquids	13	16,266	16,279	5,161	8,204	17,562	30,927
Ethane	-	6,537	6,537	1,425	1,584	7,766	10,775
Propane	4	5,588	5,592	2,288	3,361	5,349	10,998
Normal Butane	9	1,778	1,787	488	1,511	1,836	3,835
Isobutane	-	771	771	571	393	893	1,857
Natural Gasoline	-	1,592	1,592	389	1,355	1,718	3,462

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	62,236	4,813	6,161	822	7,304	81,336	13,171	1,884	143,597
Natural Gas Liquids	62,236	4,813	6,161	822	7,304	81,336	13,171	1,884	143,597
Ethane	27,458	2,083	2,391	315	3,093	35,340	3,655	1	56,308
Propane	18,884	1,493	2,040	180	2,276	24,873	4,798	300	46,561
Normal Butane	6,319	-3,010	688	79	690	4,766	1,836	321	12,545
Isobutane	3,594	3,836	406	66	513	8,415	921	379	12,343
Natural Gasoline	5,981	411	636	182	732	7,942	1,961	883	15,840

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	6	259	265	750	131	505	1,386
Natural Gas Liquids	6	259	265	750	131	505	1,386
Ethane	-	-	-	33	1	121	155
Propane	3	123	126	451	62	169	682
Normal Butane	3	52	55	102	25	92	219
Isobutane	-	16	16	91	6	47	144
Natural Gasoline	-	68	68	73	37	76	186

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	142	614	2,057	25	-	2,838	214	228	4,931
Natural Gas Liquids	142	614	2,057	25	-	2,838	214	228	4,931
Ethane	42	224	-	-	-	266	6	-	427
Propane	32	250	40	17	-	339	97	36	1,280
Normal Butane	12	95	1,123	7	-	1,237	43	130	1,684
Isobutane	29	15	202	-	-	246	18	16	440
Natural Gasoline	27	30	692	1	-	750	50	46	1,100

- = 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, April 2019
(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	27,876	2,985	30,861	73,704	15,140	23,456	112,300
Hydrocarbon Gas Liquids	1,591	-	1,591	1,391	126	784	2,301
Natural Gas Liquids	1,591	-	1,591	1,391	126	784	2,301
Normal Butane	926	-	926	257	38	181	476
Isobutane	399	-	399	818	80	424	1,322
Natural Gasoline	266	-	266	316	8	179	503
Other Liquids	77,549	6,244	83,793	13,219	2,657	4,413	20,289
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	9,794	813	10,607	5,801	1,517	1,748	9,066
Hydrogen	63	11	74	671	263	77	1,011
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,731	802	10,533	5,100	1,254	1,671	8,025
Fuel Ethanol	9,490	730	10,220	4,814	1,041	1,596	7,451
Renewable Diesel Fuel ²	241	72	313	286	213	75	574
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	30	-	-	30
Unfinished Oils (net)	1,339	-73	1,266	-957	-141	354	-744
Naphthas and Lighter	753	-50	703	102	-176	34	-40
Kerosene and Light Gas Oils	-926	-	-926	130	-84	159	205
Heavy Gas Oils	1,498	-21	1,477	-1,234	119	246	-869
Residuum	14	-2	12	45	-	-85	-40
Motor Gasoline Blend.Comp. (MGBC)(net)	66,416	5,504	71,920	8,375	1,281	2,311	11,967
Reformulated - RBOB	13,492	1	13,493	-222	1,146	951	1,875
Conventional	52,924	5,503	58,427	8,597	135	1,360	10,092
CBOB	39,371	5,539	44,910	8,790	39	1,035	9,864
GTAB	5,391	-	5,391	-	-	-	-
Other	8,162	-36	8,126	-193	96	325	228
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	107,016	9,229	116,245	88,314	17,923	28,653	134,890

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, April 2019
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	20,404	130,695	103,249	5,327	4,055	263,730	17,016	66,245	490,152
Hydrocarbon Gas Liquids	573	3,781	3,144	50	184	7,732	506	2,391	14,521
Natural Gas Liquids	573	3,781	3,144	50	184	7,732	506	2,391	14,521
Normal Butane	189	690	232	40	—	1,151	153	754	3,460
Isobutane	227	1,637	1,443	7	176	3,490	181	848	6,240
Natural Gasoline	157	1,454	1,469	3	8	3,091	172	789	4,821
Other Liquids	8,817	-37,165	-25,167	7,887	-456	-46,084	331	16,002	74,331
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,191	2,740	2,176	1,082	229	8,418	1,113	6,601	35,805
Hydrogen	10	1,840	1,583	55	41	3,529	188	1,188	5,990
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,181	900	593	1,027	188	4,889	925	5,413	29,785
Fuel Ethanol	2,051	836	504	999	157	4,547	874	4,784	27,876
Renewable Diesel Fuel ²	130	64	89	28	31	342	51	611	1,891
Other Renewable Fuels	—	—	—	—	—	—	—	18	18
Other Hydrocarbons	—	—	—	—	—	—	—	—	30
Unfinished Oils (net)	-505	-2,598	9,733	-587	-14	6,029	-45	1,226	7,732
Naphthas and Lighter	-313	-5,128	560	-145	-15	-5,041	27	598	-3,753
Kerosene and Light Gas Oils	-92	-591	1,870	-14	3	1,176	-314	-2,144	-2,003
Heavy Gas Oils	77	2,311	6,351	-343	-2	8,394	413	2,314	11,729
Residuum	-177	810	952	-85	—	1,500	-171	458	1,759
Motor Gasoline Blend.Comp. (MGBC)(net)	7,120	-37,307	-37,070	7,392	-671	-60,536	-737	8,175	30,789
Reformulated - RBOB	6,312	-7,889	-5,180	—	-759	-7,516	—	4,922	12,774
Conventional	808	-29,418	-31,890	7,392	88	-53,020	-737	3,253	18,015
CBOB	907	-33,233	-31,466	7,432	110	-56,250	-807	1,094	-1,189
GTAB	—	—	—	—	—	—	—	—	5,391
Other	-99	3,815	-424	-40	-22	3,230	70	2,159	13,813
Aviation Gasoline Blend. Comp. (net)	11	—	-6	—	—	5	—	—	5
Total Input	29,794	97,311	81,226	13,264	3,783	225,378	17,853	84,638	579,004

— = 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, April 2019
(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	1,336	64	1,400	4,386	538	703	5,627
Natural Gas Liquids	997	64	1,061	3,334	401	451	4,186
Ethane	-	-	-	-	-	-	-
Propane	589	26	615	1,626	289	426	2,341
Normal Butane	411	50	461	1,609	124	76	1,809
Isobutane	-3	-12	-15	99	-12	-51	36
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	339	-	339	1,052	137	252	1,441
Ethylene	2	-	2	-	-	-	-
Propylene	349	-	349	928	137	252	1,317
Normal Butylene	-41	-	-41	124	-	-	124
Isobutylene	29	-	29	-	-	-	-
Finished Motor Gasoline	92,024	7,305	99,329	51,311	9,918	16,501	77,730
Reformulated	38,728	88	38,816	8,277	1,494	1,057	10,828
Reformulated Blended with Fuel Ethanol	38,728	88	38,816	8,277	1,494	1,057	10,828
Reformulated Other	-	-	-	-	-	-	-
Conventional	53,296	7,217	60,513	43,034	8,424	15,444	66,902
Conventional Blended with Fuel Ethanol	55,471	7,188	62,659	39,670	8,838	14,492	63,000
Ed55 and Lower	55,429	7,188	62,617	39,661	8,811	14,419	62,891
Greater than Ed55	42	-	42	9	27	73	109
Conventional Other	-2,175	29	-2,146	3,364	-414	952	3,902
Finished Aviation Gasoline	-	-	-	-	30	-	30
Kerosene-Type Jet Fuel	2,625	-	2,625	6,695	886	956	8,537
Kerosene	68	-	68	38	-	7	45
Distillate Fuel Oil	8,486	830	9,316	19,295	5,179	9,103	33,577
15 ppm sulfur and under	8,214	734	8,948	19,482	5,115	9,091	33,688
Greater than 15 ppm to 500 ppm sulfur	196	81	277	-9	-	97	88
Greater than 500 ppm sulfur	76	15	91	-178	64	-85	-199
Residual Fuel Oil	1,229	6	1,235	812	193	125	1,130
Less than 0.31 percent sulfur	498	5	503	3	-	-	3
0.31 to 1.00 percent sulfur	405	1	406	117	79	-	196
Greater than 1.00 percent sulfur	326	-	326	692	114	125	931
Petrochemical Feedstocks	88	-	88	975	-	35	1,010
Naphtha for Petro. Feed. Use	88	-	88	648	-	-	648
Other Oils for Petro. Feed. Use	-	-	-	327	-	35	362
Special Naphthas	-	21	21	-55	-	14	-41
Lubricants	195	203	398	-	-	201	201
Waxes	-	11	11	-	-	26	26
Petroleum Coke	674	19	693	3,607	779	665	5,051
Marketable	124	-	124	2,632	613	452	3,697
Catalyst	550	19	569	975	166	213	1,354
Asphalt and Road Oil	491	651	1,142	2,489	839	304	3,632
Still Gas	1,394	55	1,449	2,562	620	961	4,143
Miscellaneous Products	36	27	63	275	113	27	415
Total	108,646	9,192	117,838	92,390	19,095	29,628	141,113
Processing Gain(-) or Loss(+) ¹	-1,630	37	-1,593	-4,076	-1,172	-975	-6,223

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, April 2019
(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	968	7,547	6,431	22	48	15,016	261	1,833	24,137	
Natural Gas Liquids	547	4,311	3,702	20	48	8,628	203	2,035	16,113	
Ethane	7	126	17	-	-	150	-	-	150	
Propane	292	2,175	2,238	2	42	4,749	207	940	8,852	
Normal Butane	281	2,606	1,306	18	12	4,223	63	944	7,500	
Isobutane	-33	-596	141	-	-6	-494	-67	151	-389	
Natural Gasoline	-	-	-	-	-	-	-	-	-	
Refinery Olefins	421	3,236	2,729	2	-	6,388	58	-202	8,024	
Ethylene	-	-	-	-	-	-	-	-	2	
Propylene	427	3,226	2,843	2	-	6,498	12	-25	8,151	
Normal Butylene	-6	36	-114	-	-	-84	46	-177	-132	
Isobutylene	-	-26	-	-	-	-26	-	-	3	
Finished Motor Gasoline	20,073	21,945	13,715	9,248	1,746	66,727	8,989	47,530	300,305	
Reformulated	7,633	6,634	-	-	-	14,267	-	34,003	97,914	
Reformulated Blended with Fuel Ethanol	7,633	6,634	-	-	-	14,267	-	34,003	97,914	
Reformulated Other	-	-	-	-	-	-	-	-	-	
Conventional	12,440	15,311	13,715	9,248	1,746	52,460	8,989	13,527	202,391	
Conventional Blended with Fuel Ethanol	12,620	1,672	4,935	9,983	1,611	30,821	8,716	13,716	178,912	
Ed55 and Lower	12,606	1,672	4,935	9,969	1,611	30,793	8,703	13,713	178,717	
Greater than Ed55	14	-	-	14	-	28	13	3	195	
Conventional Other	-180	13,639	8,780	-735	135	21,639	273	-189	23,479	
Finished Aviation Gasoline	83	126	132	-	-	341	2	87	460	
Kerosene-Type Jet Fuel	1,573	13,757	12,538	214	0	28,082	931	11,652	51,827	
Kerosene	0	34	43	1	-	78	-	9	200	
Distillate Fuel Oil	6,245	40,213	37,343	1,448	1,738	86,987	5,735	15,999	151,614	
15 ppm sulfur and under	6,225	38,463	30,926	1,233	1,738	78,585	5,702	15,179	142,102	
Greater than 15 ppm to 500 ppm sulfur	20	331	2,600	107	-	3,058	50	351	3,824	
Greater than 500 ppm sulfur	-	1,419	3,817	108	-	5,344	-17	469	5,688	
Residual Fuel Oil	298	2,023	2,972	-8	105	5,390	346	3,539	11,640	
Less than 0.31 percent sulfur	219	13	828	-	-	1,060	175	4	1,745	
0.31 to 1.00 percent sulfur	-	150	447	-8	-	589	20	312	1,523	
Greater than 1.00 percent sulfur	79	1,860	1,697	-	105	3,741	151	3,223	8,372	
Petrochemical Feedstocks	148	4,827	2,956	-	-	7,931	-	1	9,030	
Naphtha for Petro. Feed. Use	136	3,485	1,752	-	-	5,373	-	1	6,110	
Other Oils for Petro. Feed. Use	12	1,342	1,204	-	-	2,558	-	-	2,920	
Special Naphthas	61	602	-	236	-	899	-	26	905	
Lubricants	28	1,489	1,620	937	-	4,074	-	533	5,206	
Waxes	-	39	39	29	-	107	-	-	144	
Petroleum Coke	408	8,131	5,248	129	40	13,956	658	4,235	24,593	
Marketable	179	6,343	4,083	124	-	10,729	447	3,396	18,393	
Catalyst	229	1,788	1,165	5	40	3,227	211	839	6,200	
Asphalt and Road Oil	180	662	741	857	44	2,484	746	749	8,753	
Still Gas	597	5,172	4,024	191	101	10,085	612	3,221	19,510	
Miscellaneous Products	110	876	524	11	12	1,533	107	361	2,479	
Total	30,772	107,443	88,326	13,315	3,834	243,690	18,387	89,775	610,803	
Processing Gain(-) or Loss(+) ¹	-978	-10,132	-7,100	-51	-51	-18,312	-534	-5,137	-31,799	

- = 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, April 2019
(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	27,876	2,985	30,861	73,704	15,140	23,456	112,300
Hydrocarbon Gas Liquids	417	-	417	1,155	80	552	1,787
Natural Gas Liquids	417	-	417	1,155	80	552	1,787
Normal Butane	18	-	18	25	-	-	25
Isobutane	399	-	399	818	80	424	1,322
Natural Gasoline	-	-	-	312	-	128	440
Other Liquids	-13,018	131	-12,887	-31,479	-5,540	-9,457	-46,476
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	118	159	277	980	484	219	1,683
Hydrogen	63	11	74	671	263	77	1,011
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	55	148	203	279	221	142	642
Fuel Ethanol	55	122	177	180	151	117	448
Renewable Diesel Fuel ²	-	26	26	99	70	25	194
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	30	-	-	30
Unfinished Oils (net)	1,339	-73	1,266	-1,007	-141	354	-794
Naphthas and Lighter	753	-50	703	102	-176	34	-40
Kerosene and Light Gas Oils	-926	-	-926	130	-84	159	205
Heavy Gas Oils	1,498	-21	1,477	-1,234	119	246	-869
Residuum	14	-2	12	-5	-	-85	-90
Motor Gasoline Blend.Comp. (MGBC)(net)	-14,475	45	-14,430	-31,452	-5,883	-10,030	-47,365
Reformulated - RBOB	-8,810	-	-8,810	-7,473	-207	-	-7,680
Conventional	-5,665	45	-5,620	-23,979	-5,676	-10,030	-39,685
CBOB	-5,280	81	-5,199	-23,734	-5,772	-10,355	-39,861
GTAB	-	-	-	-	-	-	-
Other	-385	-36	-421	-245	96	325	176
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input to Refineries	15,275	3,116	18,391	43,380	9,680	14,551	67,611
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	929	101	1,030	2,457	512	783	3,751
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	917	4,141
Operable Utilization Rate (percent) ³	82.6	102.5	84.2	91.7	93.6	85.4	90.6
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	177	17	194	457	75	140	672
Catalytic Cracking	361	16	376	695	138	212	1,046
Catalytic Hydrocracking	25	-	25	196	56	27	278
Delayed and Fluid Coking	13	-	13	303	67	64	434
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.73	1.63	0.82	1.44	1.75	0.54	1.29
API Gravity, Weighted Average (degrees)	36.77	32.90	36.38	33.52	29.93	39.43	34.22
Operable Capacity (daily average)	1,126	98	1,224	2,678	547	917	4,141
Operating	1,126	98	1,224	2,650	509	917	4,076
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, April 2019
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	20,404	130,695	103,249	5,327	4,055	263,730	17,016	66,245	490,152
Hydrocarbon Gas Liquids	501	3,093	3,139	10	184	6,927	417	2,328	11,876
Natural Gas Liquids	501	3,093	3,139	10	184	6,927	417	2,328	11,876
Normal Butane	134	643	227	—	—	1,004	94	691	1,832
Isobutane	227	1,637	1,443	7	176	3,490	180	848	6,239
Natural Gasoline	140	813	1,469	3	8	2,433	143	789	3,805
Other Liquids	-8,927	-48,066	-28,284	-936	-1,519	-87,732	-4,360	-29,579	-181,034
Hydrogen/Oxygenates/Renewables/									
Other Hydrocarbons	291	1,904	1,864	90	105	4,254	473	1,535	8,222
Hydrogen	10	1,840	1,583	55	41	3,529	188	1,188	5,990
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	281	64	281	35	64	725	285	347	2,202
Fuel Ethanol	219	51	192	34	52	548	251	82	1,506
Renewable Diesel Fuel ²	62	13	89	1	12	177	34	265	696
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	30
Unfinished Oils (net)	-505	-2,416	9,726	-587	-14	6,204	-45	1,226	7,857
Naphthas and Lighter	-313	-5,128	560	-145	-15	-5,041	27	598	-3,753
Kerosene and Light Gas Oils	-92	-409	1,863	-14	3	1,351	-314	-2,144	-1,828
Heavy Gas Oils	77	2,311	6,351	-343	-2	8,394	413	2,314	11,729
Residium	-177	810	952	-85	—	1,500	-171	458	1,709
Motor Gasoline Blend.Comp. (MGBC)(net)	-8,724	-47,554	-39,868	-439	-1,610	-98,195	-4,788	-32,340	-197,118
Reformulated - RBOB	-593	-12,510	-5,180	—	-759	-19,042	—	-24,848	-60,380
Conventional	-8,131	-35,044	-34,688	-439	-851	-79,153	-4,788	-7,492	-136,738
CBOB	-8,032	-31,709	-32,611	-395	-825	-73,572	-4,857	-9,284	-132,773
GTAB	—	—	—	—	—	—	—	—	—
Other	-99	-3,335	-2,077	-44	-26	-5,581	69	1,792	-3,965
Aviation Gasoline Blend. Comp. (net)	11	—	-6	—	—	5	—	—	5
Total Input to Refineries	11,978	85,722	78,104	4,401	2,720	182,925	13,073	38,994	320,994
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	677	4,446	3,559	157	138	8,977	567	2,366	16,691
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,802
Operable Utilization Rate (percent) ³	90.9	88.2	96.3	61.3	101.1	90.9	82.6	82.3	88.8
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	139	618	633	22	29	1,440	94	406	2,806
Catalytic Cracking	178	1,159	980	5	34	2,355	162	577	4,516
Catalytic Hydrocracking	47	523	429	3	18	1,020	22	413	1,758
Delayed and Fluid Coking	23	711	484	24	—	1,241	55	403	2,145
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.57	1.49	1.29	1.62	0.75	1.33	1.19	1.26	1.28
API Gravity, Weighted Average (degrees)	40.06	32.45	32.69	28.82	39.76	33.20	33.96	28.47	32.97
Operable Capacity (daily average)	745	5,042	3,696	256	136	9,876	687	2,875	18,802
Operating	745	4,807	3,696	256	136	9,641	677	2,875	18,492
Idle	—	235	—	—	—	235	10	—	310
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	11,895	11,895

— = 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, April 2019
(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	1,336	64	1,400	4,386	538	703	5,627
Natural Gas Liquids	997	64	1,061	3,334	401	451	4,186
Ethane	-	-	-	-	-	-	-
Propane	589	26	615	1,626	289	426	2,341
Normal Butane	411	50	461	1,609	124	76	1,809
Isobutane	-3	-12	-15	99	-12	-51	36
Natural Gasoline	-	-	-	-	-	-	-
Refinery Olefins	339	-	339	1,052	137	252	1,441
Ethylene	2	-	2	-	-	-	-
Propylene	349	-	349	928	137	252	1,317
Normal Butylene	-41	-	-41	124	-	-	124
Isobutylene	29	-	29	-	-	-	-
Finished Motor Gasoline	550	1,238	1,788	6,612	1,816	2,449	10,877
Reformulated	550	-	550	-	-	-	-
Reformulated Blended with Fuel Ethanol	550	-	550	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,238	1,238	6,612	1,816	2,449	10,877
Conventional Blended with Fuel Ethanol	-	1,194	1,194	1,833	1,527	1,200	4,560
Ed55 and Lower	-	1,194	1,194	1,833	1,527	1,200	4,560
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	44	44	4,779	289	1,249	6,317
Finished Aviation Gasoline	-	-	-	-	30	-	30
Kerosene-Type Jet Fuel	2,625	-	2,625	6,740	886	956	8,582
Kerosene	68	-	68	38	-	7	45
Distillate Fuel Oil	8,215	782	8,997	19,064	5,039	9,051	33,154
15 ppm sulfur and under	7,948	686	8,634	19,251	4,975	9,044	33,270
Greater than 15 ppm to 500 ppm sulfur	160	81	241	-9	-	-5	-14
Greater than 500 ppm sulfur	107	15	122	-178	64	12	-102
Residual Fuel Oil	1,258	6	1,264	812	193	125	1,130
Less than 0.31 percent sulfur	527	5	532	3	-	-	3
0.31 to 1.00 percent sulfur	405	1	406	117	79	-	196
Greater than 1.00 percent sulfur	326	-	326	692	114	125	931
Petrochemical Feedstocks	88	-	88	975	-	35	1,010
Naphtha for Petro. Feed. Use	88	-	88	648	-	-	648
Other Oils for Petro. Feed. Use	-	-	-	327	-	35	362
Special Naphthas	-	21	21	-55	-	14	-41
Lubricants	195	203	398	-	-	201	201
Waxes	-	11	11	-	-	26	26
Petroleum Coke	674	19	693	3,607	779	665	5,051
Marketable	124	-	124	2,632	613	452	3,697
Catalyst	550	19	569	975	166	213	1,354
Asphalt and Road Oil	491	651	1,142	2,439	839	304	3,582
Still Gas	1,394	55	1,449	2,562	620	961	4,143
Miscellaneous Products	36	27	63	275	113	27	415
Total	16,930	3,077	20,007	47,455	10,853	15,524	73,832
Processing Gain(-) or Loss(+) ¹	-1,655	39	-1,616	-4,075	-1,173	-973	-6,221

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, April 2019
(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	968	7,547	6,431	22	48	15,016	261	1,833	24,137
Natural Gas Liquids	547	4,311	3,702	20	48	8,628	203	2,035	16,113
Ethane	7	126	17	-	-	150	-	-	150
Propane	292	2,175	2,238	2	42	4,749	207	940	8,852
Normal Butane	281	2,606	1,306	18	12	4,223	63	944	7,500
Isobutane	-33	-596	141	-	-6	-494	-67	151	-389
Natural Gasoline	-	-	-	-	-	-	-	-	-
Refinery Olefins	421	3,236	2,729	2	-	6,388	58	-202	8,024
Ethylene	-	-	-	-	-	-	-	-	2
Propylene	427	3,226	2,843	2	-	6,498	12	-25	8,151
Normal Butylene	-6	36	-114	-	-	-84	46	-177	-132
Isobutylene	-	-26	-	-	-	-26	-	-	3
Finished Motor Gasoline	2,323	10,223	10,599	409	701	24,255	4,226	2,236	43,382
Reformulated	-	-	-	-	-	-	-	483	1,033
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	483	1,033
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	2,323	10,223	10,599	409	701	24,255	4,226	1,753	42,349
Conventional Blended with Fuel Ethanol	2,165	502	1,848	360	522	5,397	2,566	330	14,047
Ed55 and Lower	2,163	502	1,848	360	522	5,395	2,566	330	14,045
Greater than Ed55	2	-	-	-	-	2	-	-	2
Conventional Other	158	9,721	8,751	49	179	18,858	1,660	1,423	28,302
Finished Aviation Gasoline	83	126	132	-	-	341	2	87	460
Kerosene-Type Jet Fuel	1,573	13,733	12,527	215	-	28,048	883	11,660	51,798
Kerosene	0	59	41	1	-	101	-	1	215
Distillate Fuel Oil	6,178	40,200	37,357	1,421	1,720	86,876	5,773	15,652	150,452
15 ppm sulfur and under	6,158	38,415	30,940	1,206	1,720	78,439	5,740	14,846	140,929
Greater than 15 ppm to 500 ppm sulfur	20	331	2,600	107	-	3,058	50	351	3,686
Greater than 500 ppm sulfur	-	1,454	3,817	108	-	5,379	-17	455	5,837
Residual Fuel Oil	298	2,169	2,977	-8	105	5,541	346	3,535	11,816
Less than 0.31 percent sulfur	219	15	828	-	-	1,062	175	-	1,772
0.31 to 1.00 percent sulfur	-	154	447	-8	-	593	20	312	1,527
Greater than 1.00 percent sulfur	79	2,000	1,702	-	105	3,886	151	3,223	8,517
Petrochemical Feedstocks	148	4,827	2,956	-	-	7,931	-	1	9,030
Naphtha for Petro. Feed. Use	136	3,485	1,752	-	-	5,373	-	1	6,110
Other Oils for Petro. Feed. Use	12	1,342	1,204	-	-	2,558	-	-	2,920
Special Naphthas	61	602	-	236	-	899	-	26	905
Lubricants	28	1,489	1,620	937	-	4,074	-	533	5,206
Waxes	-	39	39	29	-	107	-	-	144
Petroleum Coke	408	8,131	5,248	129	40	13,956	658	4,235	24,593
Marketable	179	6,343	4,083	124	-	10,729	447	3,396	18,393
Catalyst	229	1,788	1,165	5	40	3,227	211	839	6,200
Asphalt and Road Oil	180	662	729	857	44	2,472	746	749	8,691
Still Gas	597	5,172	4,024	191	101	10,085	612	3,221	19,510
Miscellaneous Products	110	876	524	11	12	1,533	107	361	2,479
Total	12,955	95,855	85,204	4,450	2,771	201,235	13,614	44,130	352,818
Processing Gain(-) or Loss(+) ¹	-977	-10,133	-7,100	-49	-51	-18,310	-541	-5,136	-31,824

- = 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, April 2019
(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	1,174	-	1,174	236	46	232	514
Natural Gas Liquids	1,174	-	1,174	236	46	232	514
Normal Butane	908	-	908	232	38	181	451
Isobutane	-	-	-	-	-	-	-
Natural Gasoline	266	-	266	4	8	51	63
Other Liquids	90,567	6,113	96,680	44,698	8,197	13,870	66,765
Oxygenates/Renewables	9,676	654	10,330	4,821	1,033	1,529	7,383
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	9,676	654	10,330	4,821	1,033	1,529	7,383
Fuel Ethanol	9,435	608	10,043	4,634	890	1,479	7,003
Renewable Diesel Fuel ²	241	46	287	187	143	50	380
Other Renewable Fuels	-	-	-	-	-	-	-
Unfinished Oils (net)	-	-	-	50	-	-	50
Naphthas and Lighter	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-	-	-	-	-	-
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	50	-	-	50
Motor Gasoline Blend.Comp. (MGBC)(net)	80,891	5,459	86,350	39,827	7,164	12,341	59,332
Reformulated - RBOB	22,302	1	22,303	7,251	1,353	951	9,555
Conventional	58,589	5,458	64,047	32,576	5,811	11,390	49,777
CBOB	44,651	5,458	50,109	32,524	5,811	11,390	49,725
GTAB	5,391	-	5,391	-	-	-	-
Other	8,547	-	8,547	52	-	-	52
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-
Total Input	91,741	6,113	97,854	44,934	8,243	14,102	67,279

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	72	688	5	40	-	805	89	63	2,645
Natural Gas Liquids	72	688	5	40	-	805	89	63	2,645
Normal Butane	55	47	5	40	-	147	59	63	1,628
Isobutane	-	-	-	-	-	-	1	-	1
Natural Gasoline	17	641	-	-	-	658	29	-	1,016
Other Liquids	17,744	10,901	3,117	8,823	1,063	41,648	4,691	45,581	255,365
Oxygenates/Renewables	1,900	836	312	992	124	4,164	640	5,066	27,583
Oxygenates (excluding Fuel Ethanol)	-	-	-	-	-	-	-	-	-
Methyl Tertiary Butyl Ether (MTBE)	-	-	-	-	-	-	-	-	-
All Other Oxygenates ¹	-	-	-	-	-	-	-	-	-
Renewable Fuels (including Fuel Ethanol)	1,900	836	312	992	124	4,164	640	5,066	27,583
Fuel Ethanol	1,832	785	312	965	105	3,999	623	4,702	26,370
Renewable Diesel Fuel ²	68	51	-	27	19	165	17	346	1,195
Other Renewable Fuels	-	-	-	-	-	-	-	18	18
Unfinished Oils (net)	-	-182	7	-	-	-175	-	-	-125
Naphthas and Lighter	-	-	-	-	-	-	-	-	-
Kerosene and Light Gas Oils	-	-182	7	-	-	-175	-	-	-175
Heavy Gas Oils	-	-	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-	-	50
Motor Gasoline Blend.Comp. (MGBC)(net)	15,844	10,247	2,798	7,831	939	37,659	4,051	40,515	227,907
Reformulated - RBOB	6,905	4,621	-	-	-	11,526	-	29,770	73,154
Conventional	8,939	5,626	2,798	7,831	939	26,133	4,051	10,745	154,753
CBOB	8,939	-1,524	1,145	7,827	935	17,322	4,050	10,378	131,584
GTAB	-	-	-	-	-	-	-	-	5,391
Other	-	7,150	1,653	4	4	8,811	1	367	17,778
Aviation Gasoline Blend. Comp. (net)	-	-	-	-	-	-	-	-	-
Total Input	17,816	11,589	3,122	8,863	1,063	42,453	4,780	45,644	258,010

- = 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, April 2019
(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	91,474	6,067	97,541	44,699	8,102	14,052	66,853
Reformulated	38,178	88	38,266	8,277	1,494	1,057	10,828
Reformulated Blended with Fuel Ethanol	38,178	88	38,266	8,277	1,494	1,057	10,828
Reformulated Other	-	-	-	-	-	-	-
Conventional	53,296	5,979	59,275	36,422	6,608	12,995	56,025
Conventional Blended with Fuel Ethanol	55,471	5,994	61,465	37,837	7,311	13,292	58,440
Ed55 and Lower	55,429	5,994	61,423	37,828	7,284	13,219	58,331
Greater than Ed55	42	-	42	9	27	73	109
Conventional Other	-2,175	-15	-2,190	-1,415	-703	-297	-2,415
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	-	0	-45	-	0	-45
Kerosene	-	-	-	-	-	-	-
Distillate Fuel Oil	271	48	319	231	140	52	423
15 ppm sulfur and under	266	48	314	231	140	47	418
Greater than 15 ppm to 500 ppm sulfur	36	-	36	-	-	102	102
Greater than 500 ppm sulfur	-31	-	-31	-	-	-97	-97
Residual Fuel Oil	-29	-	-29	-	-	-	-
Less than 0.31 percent sulfur	-29	-	-29	-	-	-	-
0.31 to 1.00 percent sulfur	-	-	-	-	-	-	-
Greater than 1.00 percent sulfur	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	-	50	-	-	50
Miscellaneous Products	-	-	-	-	-	-	-
Total Production	91,716	6,115	97,831	44,935	8,242	14,104	67,281
Processing Gain(-) or Loss(+) ¹	25	-2	23	-1	1	-2	-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	17,750	11,722	3,116	8,839	1,045	42,472	4,763	45,294	256,923
Reformulated	7,633	6,634	-	-	-	14,267	-	33,520	96,881
Reformulated Blended with Fuel Ethanol	7,633	6,634	-	-	-	14,267	-	33,520	96,881
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	10,117	5,088	3,116	8,839	1,045	28,205	4,763	11,774	160,042
Conventional Blended with Fuel Ethanol	10,455	1,170	3,087	9,623	1,089	25,424	6,150	13,386	164,865
Ed55 and Lower	10,443	1,170	3,087	9,609	1,089	25,398	6,137	13,383	164,672
Greater than Ed55	12	-	-	14	-	26	13	3	193
Conventional Other	-338	3,918	29	-784	-44	2,781	-1,387	-1,612	-4,823
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	24	11	-1	0	34	48	-8	29
Kerosene	-	-25	2	-	-	-23	-	8	-15
Distillate Fuel Oil	67	13	-14	27	18	111	-38	347	1,162
15 ppm sulfur and under	67	48	-14	27	18	146	-38	333	1,173
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-	-	-	138
Greater than 500 ppm sulfur	-	-35	-	-	-	-35	-	14	-149
Residual Fuel Oil	-	-146	-5	-	-	-151	-	4	-176
Less than 0.31 percent sulfur	-	-2	-	-	-	-2	-	4	-27
0.31 to 1.00 percent sulfur	-	-4	-	-	-	-4	-	-	-4
Greater than 1.00 percent sulfur	-	-140	-5	-	-	-145	-	-	-145
Special Naphthas	-	-	-	-	-	-	-	-	-
Lubricants	-	-	-	-	-	-	-	-	-
Asphalt and Road Oil	-	-	12	-	-	12	-	-	62
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total Production	17,817	11,588	3,122	8,865	1,063	42,455	4,773	45,645	257,985
Processing Gain(-) or Loss(+) ¹	-1	1	0	-2	0	-2	7	-1	25

- = 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, April 2019
(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	9,779	770	10,549	9,236	2,174	2,264	13,674
Petroleum Products	15,241	2,235	17,476	29,886	9,441	10,950	50,277
Hydrocarbon Gas Liquids	697	19	716	2,048	190	876	3,114
Natural Gas Liquids	518	19	537	1,700	176	842	2,718
Ethane	—	—	—	—	—	—	—
Propane	82	2	84	489	32	71	592
Normal Butane	304	2	306	947	97	156	1,200
Isobutane	132	15	147	212	47	213	472
Natural Gasoline	—	—	—	52	—	402	454
Refinery Olefins	179	0	179	348	14	34	396
Ethylene	—	—	—	—	—	—	—
Propylene	94	0	94	305	14	34	353
Normal Butylene	9	0	9	43	0	0	43
Isobutylene	76	0	76	0	0	0	0
Oxygenates/Renewable Fuels/Other Hydrocarbons	159	88	247	75	59	25	159
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	159	88	247	42	59	25	126
Fuel Ethanol	159	84	243	20	46	22	88
Renewable Diesel Fuel ²	—	4	4	22	13	3	38
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	33	—	—	33
Unfinished Oils	4,949	378	5,327	8,800	1,015	4,024	13,839
Naphthas and Lighter	1,103	270	1,373	2,657	218	1,198	4,073
Kerosene and Light Gas Oils	1,010	—	1,010	1,789	360	561	2,710
Heavy Gas Oils	2,042	103	2,145	3,120	433	1,303	4,856
Residuum	794	5	799	1,234	4	962	2,200
Motor Gasoline Blending Components (MGBC)	5,313	238	5,551	8,585	2,671	2,959	14,215
Reformulated - RBOB	1,384	—	1,384	1,105	129	—	1,234
Conventional	3,929	238	4,167	7,480	2,542	2,959	12,981
CBOB	611	171	782	2,664	1,206	1,836	5,706
GTAB	—	—	—	—	—	—	—
Other	3,318	67	3,385	4,816	1,336	1,123	7,275
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	22	22	913	92	237	1,242
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	22	22	913	92	237	1,242
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	22	22	913	92	237	1,242
Finished Aviation Gasoline	—	—	—	—	75	—	75
Kerosene-Type Jet Fuel	540	—	540	1,405	266	298	1,969
Kerosene	150	2	152	114	—	11	125
Distillate Fuel Oil	2,302	245	2,547	4,050	1,448	1,839	7,337
15 ppm sulfur and under	1,682	81	1,763	3,925	1,203	1,596	6,724
Greater than 15 ppm to 500 ppm sulfur	247	145	392	—	9	151	160
Greater than 500 ppm sulfur	373	19	392	125	236	92	453
Residual Fuel Oil	433	21	454	658	238	58	954
Less than 0.31 percent sulfur	116	19	135	47	—	—	47
0.31 to 1.00 percent sulfur	71	2	73	79	44	—	123
Greater than 1.00 percent sulfur	246	—	246	532	194	58	784
Petrochemical Feedstocks	114	—	114	499	—	—	499
Naphtha for Petro. Feed. Use	114	—	114	400	—	—	400
Other Oils for Petro. Feed. Use	—	—	—	99	—	—	99
Special Naphthas	—	17	17	35	—	18	53
Lubricants	447	191	638	—	—	173	173
Waxes	—	366	366	—	—	44	44
Petroleum Coke	—	—	—	434	1,444	79	1,957
Marketable	—	—	—	434	1,444	79	1,957
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	128	625	753	2,190	1,922	303	4,415
Miscellaneous Products	9	23	32	80	21	6	107
Total Stocks, All Oils	25,020	3,005	28,025	39,122	11,615	13,214	63,951

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, April 2019
(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	1,610	28,160	18,906	1,197	358	50,231	2,722	23,018	100,194
Petroleum Products	9,832	59,855	50,627	4,337	1,266	125,917	10,405	49,061	253,136
Hydrocarbon Gas Liquids	2,081	1,852	4,188	13	27	8,161	416	1,144	13,551
Natural Gas Liquids	1,494	1,625	3,065	12	27	6,223	376	1,079	10,933
Ethane	242	—	—	—	—	242	—	—	242
Propane	295	207	309	3	4	818	62	121	1,677
Normal Butane	588	1,165	1,409	6	15	3,183	210	487	5,386
Isobutane	288	232	993	3	5	1,521	80	470	2,690
Natural Gasoline	81	21	354	—	3	459	24	1	938
Refinery Olefins	587	227	1,123	1	0	1,938	40	65	2,618
Ethylene	0	—	—	—	—	0	—	—	0
Propylene	578	38	676	1	0	1,293	1	5	1,746
Normal Butylene	9	189	447	0	0	645	39	60	796
Isobutylene	0	0	0	0	0	0	0	0	76
Oxygenates/Renewable Fuels/Other Hydrocarbons	40	50	300	53	13	456	224	346	1,432
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	40	50	300	53	13	456	224	346	1,399
Fuel Ethanol	34	31	62	33	10	170	146	30	677
Renewable Diesel Fuel ²	6	19	238	20	3	286	78	316	722
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—	—	33
Unfinished Oils	3,073	22,630	15,853	1,227	575	43,358	3,520	19,690	85,734
Naphthas and Lighter	1,270	6,331	2,376	352	189	10,518	896	3,307	20,167
Kerosene and Light Gas Oils	397	3,872	2,354	194	145	6,962	599	3,835	15,116
Heavy Gas Oils	895	10,562	8,364	612	241	20,674	1,538	9,756	38,969
Residuum	511	1,865	2,759	69	—	5,204	487	2,792	11,482
Motor Gasoline Blending Components (MGBC)	2,500	13,228	13,047	264	356	29,395	2,713	13,098	64,972
Reformulated - RBOB	72	1,265	732	—	—	2,069	—	5,006	9,693
Conventional	2,428	11,963	12,315	264	356	27,326	2,713	8,092	55,279
CBOB	1,255	3,708	6,034	175	92	11,264	1,392	2,159	21,303
GTAB	—	—	1	—	—	1	—	—	1
Other	1,173	8,255	6,280	89	264	16,061	1,321	5,933	33,975
Aviation Gasoline Blending Components	19	—	11	—	—	30	—	—	30
Finished Motor Gasoline	59	1,186	1,225	24	—	2,494	727	650	5,135
Reformulated	—	—	—	—	—	—	—	18	18
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	18	18
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	59	1,186	1,225	24	—	2,494	727	632	5,117
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	61	—	61
Ed55 and Lower	—	—	—	—	—	—	61	—	61
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	59	1,186	1,225	24	—	2,494	666	632	5,056
Finished Aviation Gasoline	33	244	183	—	—	460	8	144	687
Kerosene-Type Jet Fuel	375	3,675	2,365	74	—	6,489	278	3,311	12,587
Kerosene	28	5	94	6	—	133	1	2	413
Distillate Fuel Oil	842	6,217	6,712	461	105	14,337	1,565	5,223	31,009
15 ppm sulfur and under	803	5,273	4,873	257	105	11,311	1,392	4,743	25,933
Greater than 15 ppm to 500 ppm sulfur	39	102	658	37	—	836	110	170	1,668
Greater than 500 ppm sulfur	—	842	1,181	167	—	2,190	63	310	3,408
Residual Fuel Oil	101	2,066	1,382	37	80	3,666	216	2,039	7,329
Less than 0.31 percent sulfur	5	—	194	—	—	199	17	—	398
0.31 to 1.00 percent sulfur	—	162	93	37	—	292	3	187	678
Greater than 1.00 percent sulfur	96	1,904	1,095	—	80	3,175	196	1,852	6,253
Petrochemical Feedstocks	117	1,703	730	22	—	2,572	—	3	3,188
Naphtha for Petro. Feed. Use	41	1,105	671	22	—	1,839	—	3	2,356
Other Oils for Petro. Feed. Use	76	598	59	—	—	733	—	—	832
Special Naphthas	105	781	—	145	—	1,031	—	33	1,134
Lubricants	52	2,165	2,285	902	—	5,404	—	676	6,891
Waxes	—	103	144	73	—	320	—	—	730
Petroleum Coke	29	3,523	1,316	—	—	4,868	105	1,659	8,589
Marketable	29	3,523	1,316	—	—	4,868	105	1,659	8,589
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	361	211	701	1,035	88	2,396	612	960	9,136
Miscellaneous Products	17	216	91	1	22	347	20	83	589
Total Stocks, All Oils	11,442	88,015	69,533	5,534	1,624	176,148	13,127	72,079	353,330

— = 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, April 2019

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Hydrocarbon Gas Liquids	4.6	2.2	4.4	6.0	3.5	2.9	5.0
Finished Motor Gasoline ¹	49.7	36.6	48.5	50.0	48.9	49.4	49.8
Finished Aviation Gasoline ²	-	-	-	-	0.2	-	0.0
Kerosene-Type Jet Fuel	9.0	-	8.2	9.2	5.8	4.0	7.6
Kerosene	0.2	-	0.2	0.1	-	0.0	0.0
Distillate Fuel Oil ³	28.1	25.9	27.9	25.8	32.6	37.8	29.3
Residual Fuel Oil	4.3	0.2	3.9	1.1	1.3	0.5	1.0
Naphtha for Petro. Feed. Use	0.3	-	0.3	0.9	-	-	0.6
Other Oils for Petro. Feed. Use	-	-	-	0.5	-	0.2	0.3
Special Naphthas	-	0.7	0.1	-0.1	-	0.1	0.0
Lubricants	0.7	6.9	1.2	-	-	0.8	0.2
Waxes	-	0.4	0.0	-	-	0.1	0.0
Petroleum Coke	2.3	0.7	2.2	4.9	5.1	2.8	4.5
Asphalt and Road Oil	1.7	22.3	3.6	3.3	5.5	1.3	3.2
Still Gas	4.8	1.9	4.5	3.5	4.1	4.0	3.7
Miscellaneous Products	0.1	0.9	0.2	0.4	0.7	0.1	0.4
Processing Gain(-) or Loss(+) ⁴	-5.6	1.3	-5.0	-5.6	-7.7	-4.1	-5.5

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	4.9	5.8	5.6	0.5	1.2	5.5	1.5	2.7	4.8
Finished Motor Gasoline ¹	51.9	42.0	41.2	16.8	50.8	42.0	48.6	46.9	45.1
Finished Aviation Gasoline ²	0.4	0.1	0.1	-	-	0.1	0.0	0.1	0.1
Kerosene-Type Jet Fuel	7.9	10.6	10.9	4.5	-	10.3	5.2	17.0	10.3
Kerosene	0.0	0.1	0.0	0.0	-	0.0	-	0.0	0.0
Distillate Fuel Oil ³	30.7	30.9	32.5	29.6	41.8	31.7	33.5	22.4	29.7
Residual Fuel Oil	1.5	1.7	2.6	-0.2	2.6	2.0	2.0	5.2	2.3
Naphtha for Petro. Feed. Use	0.7	2.7	1.5	-	-	2.0	-	0.0	1.2
Other Oils for Petro. Feed. Use	0.1	1.0	1.1	-	-	0.9	-	-	0.6
Special Naphthas	0.3	0.5	-	4.9	-	0.3	-	0.0	0.2
Lubricants	0.1	1.1	1.4	19.5	-	1.5	-	0.8	1.0
Waxes	-	0.0	0.0	0.6	-	0.0	-	-	0.0
Petroleum Coke	2.1	6.3	4.6	2.7	1.0	5.1	3.8	6.2	4.9
Asphalt and Road Oil	0.9	0.5	0.6	17.9	1.1	0.9	4.4	1.1	1.7
Still Gas	3.0	4.0	3.5	4.0	2.5	3.7	3.6	4.7	3.9
Miscellaneous Products	0.6	0.7	0.5	0.0	0.0	0.6	0.6	0.5	0.5
Processing Gain(-) or Loss(+) ⁴	-4.9	-7.8	-6.2	-1.1	-1.3	-6.7	-3.1	-7.5	-6.3

- = No Data Reported.

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

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

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

⁴ Represents the arithmetic difference between input and production.

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

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

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, April 2019
(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	214	228	1,681	2,123
Connecticut	-	-	-	-
Delaware	-	-	-	-
Florida	-	-	647	647
Georgia	-	-	-	-
Maine	-	-	-	-
Maryland	-	-	-	-
Massachusetts	-	-	-	-
New Hampshire	-	-	-	-
New Jersey	214	226	1,030	1,470
New York	-	-	4	4
North Carolina	-	-	-	-
Pennsylvania	-	-	-	-
Rhode Island	-	-	-	-
South Carolina	-	-	-	-
Vermont	-	2	-	2
Virginia	-	-	-	-
West Virginia	-	-	-	-
PAD District 2	-	21	-	21
Illinois	-	-	-	-
Indiana	-	-	-	-
Michigan	-	1	-	1
Minnesota	-	12	-	12
North Dakota	-	8	-	8
Ohio	-	-	-	-
Wisconsin	-	-	-	-
PAD District 3	417	455	550	1,422
Alabama	-	-	-	-
Louisiana	-	-	-	-
Mississippi	-	-	-	-
New Mexico	-	-	-	-
Texas	417	455	550	1,422
PAD District 4	-	-	-	-
Idaho	-	-	-	-
Montana	-	-	-	-
PAD District 5	-	233	293	526
Alaska	-	-	-	-
California	-	-	293	293
Hawaii	-	-	-	-
Oregon	-	-	-	-
Washington	-	233	-	233
U.S. Total	631	937	2,524	4,092

- = 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, April 2019
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	24,780	79,466	63,574	8,018	34,903	210,741	7,025
Hydrocarbon Gas Liquids	1,524	2,702	97	274	1,519	6,116	204
Natural Gas Liquids	1,224	2,425	—	274	1,519	5,442	181
Ethane	—	—	—	—	—	—	—
Propane	1,016	1,549	—	223	907	3,695	123
Normal Butane	3	782	—	23	565	1,373	46
Isobutane	205	87	—	28	47	367	12
Natural Gasoline	—	7	—	—	—	7	0
Refinery Olefins	300	277	97	—	—	674	22
Ethylene	—	—	—	—	—	—	—
Propylene	300	254	—	—	—	554	18
Normal Butylene	—	23	97	—	—	120	4
Isobutylene	—	—	—	—	—	—	—
Other Liquids	19,401	391	20,773	155	7,312	48,032	1,601
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	252	85	119	12	725	1,193	40
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	59	—	—	59	2
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
Other Oxygenates ³	—	—	59	—	—	59	2
Renewable Fuels (including Fuel Ethanol)	252	85	56	12	725	1,130	38
Fuel Ethanol	—	—	—	—	313	313	10
Biodiesel	252	85	56	12	5	410	14
Other Renewable Diesel Fuel	—	—	—	—	407	407	14
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	4	—	—	4	0
Unfinished Oils ¹	1,269	—	15,874	—	3,978	21,121	704
Naphthas and Lighter	352	—	326	—	208	886	30
Kerosene and Lighter Gas Oils	—	—	38	—	—	38	1
Heavy Gas Oils	917	—	9,647	—	3,770	14,334	478
Residuum	—	—	5,863	—	—	5,863	195
Motor Gasoline Blend.Comp. (MGBC)	17,880	306	4,780	143	2,609	25,718	857
Reformulated - RBOB	3,196	—	—	—	322	3,518	117
Conventional	14,684	306	4,780	143	2,287	22,200	740
CBOB	1,145	97	—	—	389	1,631	54
GTAB	3,246	—	294	—	302	3,842	128
Other	10,293	209	4,486	143	1,596	16,727	558
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	9,799	762	3,432	221	6,063	20,277	676
Finished Motor Gasoline	1,891	—	—	—	340	2,231	74
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	1,891	—	—	—	340	2,231	74
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	1,891	—	—	—	340	2,231	74
Finished Aviation Gasoline	1	3	—	1	3	8	0
Kerosene-Type Jet Fuel	1,782	—	—	—	4,128	5,910	197
Bonded Aircraft Fuel	479	—	—	—	917	1,396	47
Other	1,303	—	—	—	3,211	4,514	150
Kerosene	101	—	—	—	—	101	3
Distillate Fuel Oil	2,874	176	—	186	408	3,644	121
15 ppm sulfur and under	2,827	94	—	186	407	3,514	117
Bonded	—	—	—	—	—	—	—
Other	2,827	94	—	186	407	3,514	117
Greater than 15 ppm to 500 ppm sulfur	45	—	—	—	—	45	2
Bonded	—	—	—	—	—	—	—
Other	45	—	—	—	—	45	2
Greater than 500 ppm to 2000 ppm sulfur	2	21	—	—	1	24	1
Bonded	—	—	—	—	—	—	—
Other	2	21	—	—	1	24	1
Greater than 2000 ppm	—	61	—	—	—	61	2
Bonded	—	—	—	—	—	—	—
Other	—	61	—	—	—	61	2
Residual Fuel Oil	2,123	21	1,422	—	526	4,092	136
Less than 0.31 percent sulfur	214	—	417	—	—	631	21
0.31 to 1.00 percent sulfur	228	21	455	—	233	937	31
Greater than 1.00 percent sulfur	1,681	—	550	—	293	2,524	84
Petrochemical Feedstocks	2	163	330	—	45	540	18
Naphtha for Petro. Feed. Use	—	86	295	—	45	426	14
Other Oils for Petro. Feed. Use	2	77	35	—	—	114	4
Special Naphthas	—	8	368	—	—	376	13
Lubricants	178	120	952	—	406	1,656	55
Waxes	80	12	8	—	43	143	5
Petroleum Coke (Marketable)	3	28	352	—	15	398	13
Asphalt and Road Oil	764	231	—	33	149	1,177	39
Miscellaneous Products	—	—	—	1	—	1	0
Total	55,504	83,321	87,876	8,668	49,797	285,166	9,506

— = 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-April 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	89,392	310,243	256,081	34,936	148,999	839,651	6,997
Hydrocarbon Gas Liquids	7,696	12,348	333	1,958	7,368	29,703	248
Natural Gas Liquids	6,882	11,171	—	1,958	7,368	27,379	228
Ethane	—	—	—	—	—	—	—
Propane	5,891	8,292	—	1,621	4,427	20,231	169
Normal Butane	245	2,207	—	269	2,600	5,321	44
Isobutane	746	650	—	68	341	1,805	15
Natural Gasoline	—	22	—	—	—	22	0
Refinery Olefins	814	1,177	333	—	—	2,324	19
Ethylene	—	—	—	—	—	—	—
Propylene	814	910	—	—	—	1,724	14
Normal Butylene	—	237	333	—	—	570	5
Isobutylene	—	—	—	—	—	30	0
Other Liquids	66,428	1,970	58,761	336	16,677	144,172	1,201
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	872	350	361	22	2,414	4,019	33
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	236	—	—	236	2
Methyl Tertiary Butyl Ether (MTBE)	—	—	81	—	—	81	1
Other Oxygenates ³	—	—	155	—	—	155	1
Renewable Fuels (including Fuel Ethanol)	872	350	113	22	2,414	3,771	31
Fuel Ethanol	—	—	—	—	564	564	5
Biodiesel	872	350	113	22	137	1,494	12
Other Renewable Diesel Fuel	—	—	—	—	1,713	1,713	14
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	12	—	—	12	0
Unfinished Oils ¹	6,112	254	49,437	—	8,327	64,130	534
Naphthas and Lighter	1,642	28	326	—	397	2,393	20
Kerosene and Lighter Gas Oils	—	—	58	—	—	58	0
Heavy Gas Oils	4,470	226	37,606	—	7,885	50,187	418
Residuum	—	—	11,447	—	45	11,492	96
Motor Gasoline Blend Comp. (MGBC)	59,444	1,366	8,963	314	5,936	76,023	634
Reformulated - RBOB	17,734	—	325	—	1,298	19,357	161
Conventional	41,710	1,366	8,638	314	4,638	56,666	472
CBOB	3,141	376	—	—	746	4,263	36
GTAB	8,852	—	593	—	607	10,052	84
Other	29,717	990	8,045	314	3,285	42,351	353
Aviation Gasoline Blend Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	52,046	3,438	13,792	622	17,762	87,660	731
Finished Motor Gasoline	6,208	—	284	—	1,570	8,062	67
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	6,208	—	284	—	1,570	8,062	67
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	6,208	—	284	—	1,570	8,062	67
Finished Aviation Gasoline	22	9	59	2	4	96	1
Kerosene-Type Jet Fuel	6,669	—	30	—	10,704	17,403	145
Bonded Aircraft Fuel	1,479	—	—	—	3,868	5,347	45
Other	5,190	—	30	—	6,836	12,056	100
Kerosene	101	—	—	—	—	101	1
Distillate Fuel Oil	26,010	1,075	407	348	1,046	28,886	241
15 ppm sulfur and under	25,309	780	407	348	1,042	27,886	232
Bonded	—	—	—	—	—	—	—
Other	25,309	780	407	348	1,042	27,886	232
Greater than 15 ppm to 500 ppm sulfur	470	—	—	—	—	470	4
Bonded	—	—	—	—	—	—	—
Other	470	—	—	—	—	470	4
Greater than 500 ppm to 2000 ppm sulfur	231	199	—	—	4	434	4
Bonded	—	—	—	—	—	—	—
Other	231	199	—	—	4	434	4
Greater than 2000 ppm	—	96	—	—	—	96	1
Bonded	—	—	—	—	—	—	—
Other	—	96	—	—	—	96	1
Residual Fuel Oil	9,221	264	5,931	97	3,000	18,513	154
Less than 0.31 percent sulfur	594	—	1,491	—	338	2,423	20
0.31 to 1.00 percent sulfur	532	125	512	—	817	1,986	17
Greater than 1.00 percent sulfur	8,095	139	3,928	97	1,845	14,104	118
Petrochemical Feedstocks	14	654	1,273	—	143	2,084	17
Naphtha for Petro. Feed. Use	3	331	1,169	—	143	1,646	14
Other Oils for Petro. Feed. Use	11	323	104	—	—	438	4
Special Naphthas	1	24	1,389	—	—	1,414	12
Lubricants	677	462	3,817	1	456	5,413	45
Waxes	320	28	100	—	179	627	5
Petroleum Coke (Marketable)	20	119	502	—	83	724	6
Asphalt and Road Oil	2,783	803	—	170	577	4,333	36
Miscellaneous Products	—	—	—	4	—	4	0
Total	215,562	327,999	328,967	37,852	190,806	1,101,186	9,177

— = 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, April 2019
(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	42,351	-	-	4,005	-	-	-	-	515	515
Algeria	1,047	-	-	2,716	-	-	-	-	-	-
Angola	951	-	-	326	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	3,850	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	7,947	-	-	-	-	-	-	-	-	-
Kuwait	1,816	-	-	-	-	-	-	-	-	-
Libya	2,339	-	-	298	-	-	-	-	-	-
Nigeria	3,917	-	-	-	-	-	-	-	194	194
Saudi Arabia	17,055	-	-	120	-	-	-	-	321	321
United Arab Emirates	-	-	-	545	-	-	-	-	-	-
Venezuela	3,429	-	-	-	-	-	-	-	-	-
Non-OPEC	168,390	5,442	674	17,116	-	2,231	2,231	3,518	21,685	25,203
Argentina	1,031	17	-	-	-	-	-	-	52	52
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,569	-	96	96	10	529	539
Brazil	2,454	-	-	354	-	-	-	-	1,441	1,441
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	658	-	-	290	-	-	-	-	-	-
Canada	116,425	5,356	577	274	-	453	453	2,202	2,011	4,213
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	146	146
Colombia	11,568	-	-	208	-	-	-	-	538	538
Denmark	771	-	-	-	-	-	-	-	-	-
Egypt	461	-	-	864	-	30	30	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	562	562
France	-	-	-	128	-	596	596	-	128	128
Germany	-	-	-	499	-	7	7	2	-	2
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	141	-	-	-	-	3,929	3,929
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	156	-	-	-	-	1,317	1,317
Korea, South	-	-	-	-	-	-	-	-	314	314
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	19,547	-	-	-	-	-	-	-	330	330
Netherlands	-	-	-	689	-	271	271	342	2,139	2,481
Norway	1,458	-	-	836	-	38	38	7	995	1,002
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	1,479	1,479
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	5,464	-	-	9,228	-	-	-	-	1,053	1,053
Spain	-	-	-	183	-	-	-	-	2,518	2,518
Sweden	-	-	-	986	-	-	-	-	325	325
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	1,001	-	-	-	-	-	-	-	-	-
United Kingdom	3,289	-	-	-	-	434	434	955	681	1,636
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	4,263	69	97	711	-	306	306	0	1,198	1,198
Total	210,741	5,442	674	21,121	-	2,231	2,231	3,518	22,200	25,718
Persian Gulf³	26,818	-	-	665	-	-	-	-	321	321

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, April 2019
(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	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	59	313	410	407	-	3,514	45	24	61	3,644
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	59	313	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	118	-	-	2,482	45	24	61	2,612
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	1,032	-	-	-	1,032
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	236	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	56	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	0	0	407	-	0	0	0	0	0
Total	-	59	313	410	407	-	3,514	45	24	61	3,644
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, April 2019
(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	—	—	—	—	—	—	—	20	20
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	20	20
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	101	8	—	5,910	376	631	937	2,504	4,072
Argentina	—	—	—	—	—	214	226	—	440
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	200	200
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	37	—	—	1	1
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	8	—	612	88	—	256	669	925
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	101	—	—	—	—	—	—	680	680
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	74	22	—	—	4	4
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	4,192	84	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	45	—	—	308	308
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	417	—	635	1,052
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	1,032	100	0	455	7	462
Total	101	8	—	5,910	376	631	937	2,524	4,092
Persian Gulf³	—	—	—	—	—	—	—	20	20

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, April 2019
(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	-	-	-	-	-	99	-	4,639	46,990	1,412	155	1,566
Algeria	-	-	-	-	-	-	-	2,716	3,763	35	91	125
Angola	-	-	-	-	-	-	-	326	1,277	32	11	43
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	3,850	128	-	128
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	7,947	265	-	265
Kuwait	-	-	-	-	-	-	-	-	1,816	61	-	61
Libya	-	-	-	-	-	-	-	298	2,637	78	10	88
Nigeria	-	-	-	-	-	-	-	194	4,111	131	6	137
Saudi Arabia	-	-	-	-	-	-	-	441	17,496	569	15	583
United Arab Emirates	-	-	-	-	-	99	-	664	664	-	22	22
Venezuela	-	-	-	-	-	-	-	-	3,429	114	-	114
Non-OPEC	426	114	143	398	1,177	1,557	1	69,786	238,176	5,613	2,326	7,939
Argentina	-	-	-	137	-	2	-	648	1,679	34	22	56
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	200	200	-	7	7
Bahrain	-	-	-	-	-	132	-	132	132	-	4	4
Belgium	-	-	-	-	-	3	-	2,207	2,207	-	74	74
Brazil	-	-	-	-	-	-	-	2,205	4,659	82	74	155
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	290	948	22	10	32
Canada	86	79	64	36	903	222	1	16,627	133,052	3,881	554	4,435
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	44	-	-	-	-	190	190	-	6	6
Colombia	-	-	-	-	39	-	-	2,598	14,166	386	87	472
Denmark	-	-	-	-	-	-	-	-	771	26	-	26
Egypt	-	-	-	-	-	-	-	894	1,355	15	30	45
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	562	562	-	19	19
France	-	35	-	-	-	35	-	922	922	-	31	31
Germany	-	-	24	-	-	29	-	797	797	-	27	27
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	1	-	4,171	4,171	-	139	139
Indonesia	-	-	-	-	-	36	-	36	36	-	1	1
Italy	34	-	-	-	-	3	-	1,511	1,511	-	50	50
Korea, South	-	-	1	-	65	234	-	4,890	4,890	-	163	163
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	3	-	-	-	-	3	3	-	0	0
Mexico	163	-	-	-	-	-	-	846	20,393	652	28	680
Netherlands	-	-	-	-	-	-	-	3,441	3,441	-	115	115
Norway	-	-	-	-	-	-	-	1,876	3,334	49	63	111
Oman	-	-	-	204	-	-	-	204	204	-	7	7
Portugal	-	-	-	-	-	-	-	1,479	1,479	-	49	49
Qatar	-	-	-	-	-	364	-	364	364	-	12	12
Russia	-	-	-	-	-	185	-	11,518	16,982	182	384	566
Spain	-	-	1	-	170	-	-	2,928	2,928	-	98	98
Sweden	-	-	-	9	-	1	-	1,321	1,321	-	44	44
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	1,001	33	-	33
United Kingdom	55	-	-	-	-	40	-	2,165	5,454	110	72	182
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	88	0	6	12	0	270	0	4,761	9,024	141	156	300
Total	426	114	143	398	1,177	1,656	1	74,425	285,166	7,025	2,481	9,506
Persian Gulf³	-	-	-	-	-	595	-	1,601	28,419	894	53	947

- = 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-April 2019
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Natural Gas Liquids	Refinery Olefins	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	203,732	-	-	13,025	-	81	81	-	4,077	4,077
Algeria	3,765	-	-	8,692	-	-	-	-	-	-
Angola	1,523	-	-	326	-	-	-	-	-	-
Congo (Brazzaville)	3,735	-	-	173	-	-	-	-	-	-
Ecuador	19,385	-	-	-	-	-	-	-	-	-
Equatorial Guinea	959	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	41,587	-	-	-	-	-	-	-	-	-
Kuwait	9,350	-	-	-	-	-	-	-	-	-
Libya	5,769	-	-	503	-	-	-	-	-	-
Nigeria	13,516	-	-	360	-	-	-	-	840	840
Saudi Arabia	75,085	-	-	1,004	-	81	81	-	1,931	1,931
United Arab Emirates	-	-	-	1,922	-	-	-	-	-	-
Venezuela	29,058	-	-	45	-	-	-	-	1,306	1,306
Non-OPEC	635,919	27,379	2,324	51,105	-	7,981	7,981	19,357	52,589	71,946
Argentina	4,334	145	-	-	-	-	-	-	451	451
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	202	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	6,338	-	166	166	10	789	799
Brazil	8,667	-	-	837	-	-	-	-	6,195	6,195
Brunei	1,439	-	-	-	-	-	-	-	-	-
Cameroon	658	-	-	494	-	-	-	-	-	-
Canada	456,408	26,473	1,991	2,002	-	2,086	2,086	10,394	7,386	17,780
Chad	949	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	146	146
Colombia	44,307	-	-	430	-	-	-	-	1,540	1,540
Denmark	1,494	-	-	-	-	-	-	-	70	70
Egypt	1,608	-	-	1,475	-	30	30	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	1,723	1,723
France	-	-	-	335	-	2,297	2,297	-	857	857
Germany	-	-	-	1,101	-	7	7	2	50	52
Guatemala	543	-	-	-	-	-	-	-	-	-
India	-	-	-	597	-	-	-	-	7,071	7,071
Indonesia	-	-	-	-	-	-	-	-	513	513
Italy	-	-	-	836	-	150	150	-	2,353	2,353
Korea, South	-	-	-	-	-	918	918	-	771	771
Latvia	-	-	-	-	-	-	-	-	69	69
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	289	-	-	-	-	-	-
Mexico	75,540	-	67	-	-	-	-	-	665	665
Netherlands	-	-	-	2,122	-	440	440	4,563	3,058	7,621
Norway	5,415	309	-	2,908	-	136	136	7	1,473	1,480
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	3,978	3,978
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	14,061	-	-	23,602	-	252	252	-	3,261	3,261
Spain	-	-	-	1,587	-	-	-	-	3,894	3,894
Sweden	-	191	-	1,400	-	158	158	-	325	325
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	4,870	-	-	-	-	-	-	-	-	-
United Kingdom	5,849	192	-	627	-	1,035	1,035	4,381	1,823	6,204
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	9,777	69	266	3,923	-	306	306	0	4,128	4,128
Total	839,651	27,379	2,324	64,130	-	8,062	8,062	19,357	56,666	76,023
Persian Gulf³	126,022	-	-	2,926	-	81	81	-	1,931	1,931

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-April 2019
(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	-	-	-	-	-	-	1,999	-	-	-	1,999
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	312	-	-	-	312
Saudi Arabia	-	-	-	-	-	-	1,193	-	-	-	1,193
United Arab Emirates	-	-	-	-	-	-	200	-	-	-	200
Venezuela	-	-	-	-	-	-	294	-	-	-	294
Non-OPEC	81	155	564	1,494	1,713	-	25,887	470	434	96	26,887
Argentina	81	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	501	-	-	-	501
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	143	-	-	-	-	-	-	-
Brazil	-	155	564	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	499	-	-	13,503	194	434	96	14,227
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	279	-	-	-	279
Colombia	-	-	-	-	-	-	2,601	-	-	-	2,601
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	121	-	-	-	-	-	-	-
Germany	-	-	-	446	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	6,477	-	-	-	6,477
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	115	-	-	89	-	-	-	89
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	2,071	-	-	-	2,071
Russia	-	-	-	-	-	-	366	276	-	-	642
Spain	-	-	-	170	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	1,713	-	0	0	0	0	0
Total	81	155	564	1,494	1,713	-	27,886	470	434	96	28,886
Persian Gulf³	-	-	-	-	-	-	3,464	-	-	-	3,464

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-April 2019
(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	—	—	—	851	—	—	—	3,112	3,112
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	18	—	—	—	—	—
Kuwait	—	—	—	101	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	20	—	—	—	—	—
Saudi Arabia	—	—	—	618	—	—	—	679	679
United Arab Emirates	—	—	—	—	—	—	—	20	20
Venezuela	—	—	—	94	—	—	—	2,413	2,413
Non-OPEC	101	96	—	16,552	1,414	2,423	1,986	10,992	15,401
Argentina	—	—	—	—	—	594	523	—	1,117
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	562	562
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	9	226	—	—	1	1
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	19	—	2,242	290	—	951	2,805	3,756
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	275	—	—	—	—	—
Colombia	101	—	—	—	—	—	—	1,457	1,457
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	237	197	—	—	4	4
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	10,422	301	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	6	82	749	—	2,464	3,213
Netherlands	—	77	—	—	—	—	—	845	845
Norway	—	—	—	—	—	—	—	244	244
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	484	—	—	—	—	—
Russia	—	—	—	—	—	742	—	1,557	2,299
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	2,877	318	338	512	767	1,617
Total	101	96	—	17,403	1,414	2,423	1,986	14,104	18,513
Persian Gulf³	—	—	—	1,221	—	—	—	699	699

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-April 2019
(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	—	—	—	—	31	324	—	23,500	227,232	1,698	196	1,894
Algeria	—	—	—	—	—	—	—	8,692	12,457	31	72	104
Angola	—	—	—	—	—	—	—	326	1,849	13	3	15
Congo (Brazzaville)	—	—	—	—	—	—	—	173	3,908	31	1	33
Ecuador	—	—	—	—	—	—	—	—	19,385	162	—	162
Equatorial Guinea	—	—	—	—	—	—	—	—	959	8	—	8
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	18	41,605	347	0	347
Kuwait	—	—	—	—	—	—	—	101	9,451	78	1	79
Libya	—	—	—	—	—	—	—	503	6,272	48	4	52
Nigeria	—	—	—	—	—	—	—	1,532	15,048	113	13	125
Saudi Arabia	—	—	—	—	—	—	—	5,506	80,591	626	46	672
United Arab Emirates	—	—	—	—	—	324	—	2,466	2,466	—	21	21
Venezuela	—	—	—	—	31	—	—	4,183	33,241	242	35	277
Non-OPEC	1,646	438	627	724	4,302	5,089	4	238,035	873,954	5,299	1,984	7,283
Argentina	—	—	—	271	—	9	—	2,074	6,408	36	17	53
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	202	202	—	2	2
Bahamas	—	—	—	—	—	—	—	1,063	1,063	—	9	9
Bahrain	—	—	—	—	—	279	—	279	279	—	2	2
Belgium	—	—	—	—	—	25	—	7,471	7,471	—	62	62
Brazil	—	9	—	—	—	—	—	7,996	16,663	72	67	139
Brunei	—	—	—	—	—	—	—	—	1,439	12	—	12
Cameroon	—	—	—	—	—	—	—	494	1,152	5	4	10
Canada	331	334	209	194	3,647	902	4	76,986	533,394	3,803	642	4,445
Chad	—	—	—	—	—	—	—	—	949	8	—	8
China	—	—	247	—	—	—	—	947	947	—	8	8
Colombia	—	—	—	—	39	—	—	6,168	50,475	369	51	421
Denmark	—	—	—	—	—	—	—	70	1,564	12	1	13
Egypt	—	—	—	—	—	—	—	1,505	3,113	13	13	26
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	1,738	1,738	—	14	14
France	—	92	—	—	—	62	—	3,764	3,764	—	31	31
Germany	—	—	42	—	—	78	—	1,726	1,726	—	14	14
Guatemala	—	—	—	—	—	—	—	—	543	5	—	5
India	—	—	—	—	—	1	—	14,584	14,584	—	122	122
Indonesia	—	—	1	—	—	267	—	781	781	—	7	7
Italy	34	—	—	—	—	92	—	3,467	3,467	—	29	29
Korea, South	—	—	2	—	130	1,478	—	14,226	14,226	—	119	119
Latvia	—	—	—	—	—	—	—	69	69	—	1	1
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	33	—	65	—	—	387	387	—	3	3
Mexico	698	—	—	—	—	—	—	4,731	80,271	630	39	669
Netherlands	—	—	—	—	—	27	—	11,132	11,132	—	93	93
Norway	—	—	—	—	—	—	—	5,077	10,492	45	42	87
Oman	—	—	—	204	—	—	—	204	204	—	2	2
Portugal	—	—	—	—	—	—	—	3,978	3,978	—	33	33
Qatar	—	—	—	—	—	1,278	—	3,833	3,833	—	32	32
Russia	—	—	—	—	—	203	—	30,259	44,320	117	252	369
Spain	—	—	4	—	421	—	—	6,076	6,076	—	51	51
Sweden	—	—	—	13	—	3	—	2,376	2,376	—	20	20
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	4,870	41	—	41
United Kingdom	182	—	—	24	—	96	—	8,360	14,209	49	70	118
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	401	3	89	18	0	274	0	16,012	25,789	82	132	213
Total	1,646	438	627	724	4,333	5,413	4	261,535	1,101,186	6,997	2,179	9,177
Persian Gulf³	—	—	—	—	—	1,881	—	12,203	138,225	1,050	102	1,152

— = 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, April 2019
(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	7,871	-	-	-	-	-	-	-	515	515
Algeria	1,047	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	1,309	-	-	-	-	-	-	-	-	-
Nigeria	2,327	-	-	-	-	-	-	-	194	194
Saudi Arabia	3,188	-	-	-	-	-	-	-	321	321
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	16,909	1,224	300	1,269	-	1,891	1,891	3,196	14,169	17,365
Argentina	-	-	-	-	-	-	-	-	52	52
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	96	96	10	400	410
Brazil	-	-	-	-	-	-	-	-	1,441	1,441
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	7,596	1,224	300	-	-	419	419	2,202	1,496	3,698
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	230	230
Denmark	771	-	-	-	-	-	-	-	-	-
Egypt	341	-	-	-	-	30	30	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	250	250
France	-	-	-	128	-	596	596	-	128	128
Germany	-	-	-	59	-	7	7	2	-	2
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	1,962	1,962
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	68	-	-	-	-	1,015	1,015
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	292	-	271	271	20	1,711	1,731
Norway	1,458	-	-	-	-	38	38	7	967	974
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	839	839
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	1,389	-	-	639	-	-	-	-	1,053	1,053
Spain	-	-	-	83	-	-	-	-	1,899	1,899
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	2,035	-	-	-	-	434	434	955	281	1,236
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	3,319	0	0	0	-	0	0	0	445	445
Total	24,780	1,224	300	1,269	-	1,891	1,891	3,196	14,684	17,880
Persian Gulf³	3,188	-	-	-	-	-	-	-	321	321

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, April 2019
(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	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	252	-	-	2,827	45	2	-	2,874
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	16	-	-	1,795	45	2	-	1,842
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	1,032	-	-	-	1,032
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	236	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	-	0
Total	-	-	-	252	-	-	2,827	45	2	-	2,874
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, April 2019
(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	—	—	—	—	—	—	—	20	20
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	20	20
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	101	1	—	1,782	—	214	228	1,661	2,103
Argentina	—	—	—	—	—	214	226	—	440
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	200	200
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	1	1
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	1	—	612	—	—	2	592	594
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	101	—	—	—	—	—	—	563	563
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	74	—	—	—	4	4
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	1,096	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	294	294
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	—	0	0	7	7
Total	101	1	—	1,782	—	214	228	1,681	2,123
Persian Gulf³	—	—	—	—	—	—	—	20	20

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, April 2019
(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	-	-	-	-	-	19	-	554	8,425	262	18	281
Algeria	-	-	-	-	-	-	-	-	1,047	35	-	35
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	1,309	44	-	44
Nigeria	-	-	-	-	-	-	-	194	2,521	78	6	84
Saudi Arabia	-	-	-	-	-	-	-	321	3,509	106	11	117
United Arab Emirates	-	-	-	-	-	19	-	39	39	-	1	1
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	2	80	3	764	159	-	30,170	47,079	564	1,006	1,569
Argentina	-	-	-	-	-	-	-	492	492	-	16	16
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	200	200	-	7	7
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	2	-	508	508	-	17	17
Brazil	-	-	-	-	-	-	-	1,442	1,442	-	48	48
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	2	52	-	555	99	-	9,414	17,010	253	314	567
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	1	-	-	-	-	1	1	-	0	0
Colombia	-	-	-	-	39	-	-	1,965	1,965	-	66	66
Denmark	-	-	-	-	-	-	-	-	771	26	-	26
Egypt	-	-	-	-	-	-	-	30	371	11	1	12
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	250	250	-	8	8
France	-	-	-	-	-	8	-	860	860	-	29	29
Germany	-	-	24	-	-	18	-	346	346	-	12	12
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	1	-	2,041	2,041	-	68	68
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	1	-	1,084	1,084	-	36	36
Korea, South	-	-	1	-	-	28	-	1,125	1,125	-	38	38
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	2,294	2,294	-	76	76
Norway	-	-	-	-	-	-	-	1,012	2,470	49	34	82
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	839	839	-	28	28
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	1,986	3,375	46	66	113
Spain	-	-	1	-	170	-	-	2,153	2,153	-	72	72
Sweden	-	-	-	2	-	1	-	3	3	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	1,670	3,705	68	56	124
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	1	1	0	1	-	455	3,774	111	14	124
Total	-	2	80	3	764	178	-	30,724	55,504	826	1,024	1,850
Persian Gulf³	-	-	-	-	-	19	-	360	3,548	106	12	118

- = 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, April 2019
(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	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	79,466	2,425	277	-	-	-	-	-	306	306
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	78,969	2,425	277	-	-	-	-	-	306	306
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	497	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	-	0	0
Total	79,466	2,425	277	-	-	-	-	-	306	306
Persian Gulf³	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, April 2019
(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	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	85	-	-	94	-	21	61	176
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	85	-	-	94	-	21	61	176
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	85	-	-	94	-	21	61	176
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, April 2019
(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	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	3	-	-	8	-	21	-	21
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	3	-	-	8	-	21	-	21
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	0	-	0
Total	-	3	-	-	8	-	21	-	21
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, April 2019
(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	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	86	77	12	28	231	120	-	3,855	83,321	2,649	129	2,777
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	86	77	12	21	231	119	-	3,847	82,816	2,632	128	2,761
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	497	17	-	17
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	1	-	1	1	-	0	0
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	7	-	-	-	7	7	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	0	1	-1
Total	86	77	12	28	231	120	-	3,855	83,321	2,649	129	2,777
Persian Gulf³	-	-	-	-	-	1	-	1	1	-	0	0

- = 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, April 2019
(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	15,462	-	-	2,875	-	-	-	-	-	-
Algeria	-	-	-	1,586	-	-	-	-	-	-
Angola	-	-	-	326	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	394	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	4,319	-	-	-	-	-	-	-	-	-
Kuwait	1,244	-	-	-	-	-	-	-	-	-
Libya	-	-	-	298	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	6,076	-	-	120	-	-	-	-	-	-
United Arab Emirates	-	-	-	545	-	-	-	-	-	-
Venezuela	3,429	-	-	-	-	-	-	-	-	-
Non-OPEC	48,112	-	97	12,999	-	-	-	-	4,780	4,780
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	1,569	-	-	-	-	-	-
Brazil	-	-	-	270	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	658	-	-	290	-	-	-	-	-	-
Canada	15,452	-	-	50	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	74	74
Colombia	9,857	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	120	-	-	864	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	312	312
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	440	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	141	-	-	-	-	1,967	1,967
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	302	302
Korea, South	-	-	-	-	-	-	-	-	4	4
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	18,245	-	-	-	-	-	-	-	330	330
Netherlands	-	-	-	397	-	-	-	-	325	325
Norway	-	-	-	806	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	640	640
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	1,651	-	-	7,326	-	-	-	-	-	-
Spain	-	-	-	100	-	-	-	-	294	294
Sweden	-	-	-	249	-	-	-	-	325	325
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	875	-	-	-	-	-	-	-	-	-
United Kingdom	1,254	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	-	97	497	-	-	-	-	207	207
Total	63,574	-	97	15,874	-	-	-	-	4,780	4,780
Persian Gulf³	11,639	-	-	665	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, April 2019
(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	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	59	-	56	-	-	-	-	-	-	-
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	59	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	56	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	-	-	-	-	-	-	-
Total	-	59	-	56	-	-	-	-	-	-	-
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, April 2019
(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	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	368	417	455	550	1,422
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	37	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	80	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	117	117
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	22	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	84	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	45	-	-	92	92
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	417	-	341	758
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	100	0	455	0	455
Total	-	-	-	-	368	417	455	550	1,422
Persian Gulf³	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, April 2019
(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	-	-	-	-	-	80	-	2,955	18,417	515	99	614
Algeria	-	-	-	-	-	-	-	1,586	1,586	-	53	53
Angola	-	-	-	-	-	-	-	326	326	-	11	11
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	394	13	-	13
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	4,319	144	-	144
Kuwait	-	-	-	-	-	-	-	-	1,244	41	-	41
Libya	-	-	-	-	-	-	-	298	298	-	10	10
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	120	6,196	203	4	207
United Arab Emirates	-	-	-	-	-	80	-	625	625	-	21	21
Venezuela	-	-	-	-	-	-	-	-	3,429	114	-	114
Non-OPEC	295	35	8	352	-	872	-	21,347	69,459	1,604	712	2,315
Argentina	-	-	-	137	-	2	-	139	139	-	5	5
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	132	-	132	132	-	4	4
Belgium	-	-	-	-	-	1	-	1,570	1,570	-	52	52
Brazil	-	-	-	-	-	-	-	366	366	-	12	12
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	290	948	22	10	32
Canada	-	-	-	-	-	-	-	130	15,582	515	4	519
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	74	74	-	2	2
Colombia	-	-	-	-	-	-	-	117	9,974	329	4	332
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	864	984	4	29	33
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	312	312	-	10	10
France	-	35	-	-	-	27	-	62	62	-	2	2
Germany	-	-	-	-	-	11	-	451	451	-	15	15
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	2,130	2,130	-	71	71
Indonesia	-	-	-	-	-	36	-	36	36	-	1	1
Italy	34	-	-	-	-	2	-	339	339	-	11	11
Korea, South	-	-	-	-	-	206	-	294	294	-	10	10
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	3	-	-	-	-	3	3	-	0	0
Mexico	163	-	-	-	-	-	-	630	18,875	608	21	629
Netherlands	-	-	-	-	-	-	-	722	722	-	24	24
Norway	-	-	-	-	-	-	-	806	806	-	27	27
Oman	-	-	-	204	-	-	-	204	204	-	7	7
Portugal	-	-	-	-	-	-	-	640	640	-	21	21
Qatar	-	-	-	-	-	363	-	363	363	-	12	12
Russia	-	-	-	-	-	-	-	8,084	9,735	55	269	325
Spain	-	-	-	-	-	-	-	450	450	-	15	15
Sweden	-	-	-	-	-	-	-	574	574	-	19	19
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	875	29	-	29
United Kingdom	55	-	-	-	-	40	-	95	1,349	42	3	45
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	43	0	5	11	-	52	-	1,470	1,470	0	52	51
Total	295	35	8	352	-	952	-	24,302	87,876	2,119	810	2,929
Persian Gulf³	-	-	-	-	-	575	-	1,240	12,879	388	41	429

- = 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, April 2019
(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	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	8,018	274	-	-	-	-	-	-	143	143
Canada	8,018	274	-	-	-	-	-	-	143	143
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	8,018	274	-	-	-	-	-	-	143	143
PAD District 5										
OPEC	19,018	-	-	1,130	-	-	-	-	-	-
Algeria	-	-	-	1,130	-	-	-	-	-	-
Angola	951	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	3,456	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	3,628	-	-	-	-	-	-	-	-	-
Kuwait	572	-	-	-	-	-	-	-	-	-
Libya	1,030	-	-	-	-	-	-	-	-	-
Nigeria	1,590	-	-	-	-	-	-	-	-	-
Saudi Arabia	7,791	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	15,885	1,519	-	2,848	-	340	340	322	2,287	2,609
Argentina	1,031	17	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	2,454	-	-	84	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	6,390	1,433	-	224	-	34	34	-	66	66
China	-	-	-	-	-	-	-	-	72	72
Colombia	1,711	-	-	208	-	-	-	-	308	308
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	214	-	306	306	-	299	299
Korea, South	-	-	-	-	-	-	-	-	310	310
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	805	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	322	103	425
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	737	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	219	219
United Kingdom	-	-	-	-	-	-	-	-	400	400
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	3,494	69	-	1,381	-	0	0	0	510	510
Total	34,903	1,519	-	3,978	-	340	340	322	2,287	2,609
Persian Gulf³	11,991	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, April 2019
(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	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	12	-	-	186	-	-	-	186
Canada	-	-	-	12	-	-	186	-	-	-	186
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	12	-	-	186	-	-	-	186
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	313	5	407	-	407	-	1	-	408
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	313	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	5	-	-	407	-	1	-	408
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	407	-	0	-	0	-	0
Total	-	-	313	5	407	-	407	-	1	-	408
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, April 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	1	-	-	-	-	-	-	-
Canada	-	1	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	-	-
Total	-	1	-	-	-	-	-	-	-
PAD District 5									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	3	-	4,128	-	-	233	293	526
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	3	-	-	-	-	233	77	310
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	608	-	-	-	-	-
Korea, South	-	-	-	3,096	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	216	216
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	120	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	304	-	-	0	0	0
Total	-	3	-	4,128	-	-	233	293	526
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, April 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
PAD District 4												
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	33	-	1	650	8,668	267	22	289
Canada	-	-	-	-	33	-	1	650	8,668	267	22	289
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	-	0	0	0	0	0	0
Total	-	-	-	-	33	-	1	650	8,668	267	22	289
PAD District 5												
OPEC	-	-	-	-	-	-	-	1,130	20,148	634	38	672
Algeria	-	-	-	-	-	-	-	1,130	1,130	-	38	38
Angola	-	-	-	-	-	-	-	-	951	32	-	32
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	3,456	115	-	115
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	3,628	121	-	121
Kuwait	-	-	-	-	-	-	-	-	572	19	-	19
Libya	-	-	-	-	-	-	-	-	1,030	34	-	34
Nigeria	-	-	-	-	-	-	-	-	1,590	53	-	53
Saudi Arabia	-	-	-	-	-	-	-	-	7,791	260	-	260
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	45	-	43	15	149	406	-	13,764	29,649	530	459	988
Argentina	-	-	-	-	-	-	-	17	1,048	34	1	35
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	397	2,851	82	13	95
Brunei	-	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	15	84	4	-	2,586	8,976	213	86	299
China	-	-	43	-	-	-	-	115	115	-	4	4
Colombia	-	-	-	-	-	-	-	516	2,227	57	17	74
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	1,427	1,427	-	48	48
Korea, South	-	-	-	-	65	-	-	3,471	3,471	-	116	116
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	216	1,021	27	7	34
Netherlands	-	-	-	-	-	-	-	425	425	-	14	14
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	527	527	-	18	18
Sweden	-	-	-	-	-	-	-	737	737	-	25	25
Taiwan	45	-	-	-	-	-	-	264	264	-	9	9
United Kingdom	-	-	-	-	-	-	-	400	400	-	13	13
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	402	-	2,666	6,160	117	88	204
Total	45	-	43	15	149	406	-	14,894	49,797	1,163	496	1,660
Persian Gulf³	-	-	-	-	-	-	-	-	11,991	400	-	400

- = 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-April 2019
(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	33,836	-	-	1,207	-	81	81	-	4,077	4,077
Algeria	3,765	-	-	802	-	-	-	-	-	-
Angola	572	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	3,735	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	2,032	-	-	-	-	-	-	-	-	-
Nigeria	10,977	-	-	360	-	-	-	-	840	840
Saudi Arabia	12,755	-	-	-	-	81	81	-	1,931	1,931
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	45	-	-	-	-	1,306	1,306
Non-OPEC	55,556	6,882	814	4,905	-	6,127	6,127	17,734	37,633	55,367
Argentina	-	-	-	-	-	-	-	-	52	52
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	166	166	10	660	670
Brazil	546	-	-	-	-	-	-	-	5,591	5,591
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	204	-	-	-	-	-	-
Canada	27,260	6,307	814	324	-	1,740	1,740	10,394	5,345	15,739
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	3,835	-	-	-	-	-	-	-	940	940
Denmark	1,494	-	-	-	-	-	-	-	-	-
Egypt	987	-	-	-	-	30	30	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	1,411	1,411
France	-	-	-	128	-	2,297	2,297	-	441	441
Germany	-	-	-	222	-	7	7	2	-	2
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	4,640	4,640
Indonesia	-	-	-	-	-	-	-	-	513	513
Italy	-	-	-	68	-	150	150	-	2,051	2,051
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	69	69
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	292	-	440	440	3,265	2,561	5,826
Norway	5,415	192	-	-	-	136	136	7	1,123	1,130
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	3,089	3,089
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	6,677	-	-	2,041	-	252	252	-	3,261	3,261
Spain	-	-	-	1,062	-	-	-	-	3,275	3,275
Sweden	-	191	-	-	-	158	158	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	3,219	-	-	-	-	751	751	4,056	1,067	5,123
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	6,123	192	0	564	-	0	0	0	1,544	1,544
Total	89,392	6,882	814	6,112	-	6,208	6,208	17,734	41,710	59,444
Persian Gulf³	12,755	-	-	-	-	81	81	-	1,931	1,931

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-April 2019
(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	-	-	-	-	-	-	1,706	-	-	-	1,706
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	312	-	-	-	312
Saudi Arabia	-	-	-	-	-	-	1,193	-	-	-	1,193
United Arab Emirates	-	-	-	-	-	-	200	-	-	-	200
Venezuela	-	-	-	-	-	-	1	-	-	-	1
Non-OPEC	-	-	-	872	-	-	23,603	470	231	-	24,304
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	501	-	-	-	501
Belgium	-	-	-	143	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	105	-	-	11,308	194	231	-	11,733
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	279	-	-	-	279
Colombia	-	-	-	-	-	-	2,601	-	-	-	2,601
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	121	-	-	-	-	-	-	-
Germany	-	-	-	446	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	6,477	-	-	-	6,477
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	2,071	-	-	-	2,071
Russia	-	-	-	-	-	-	366	276	-	-	642
Spain	-	-	-	57	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	-	0
Total	-	-	-	872	-	-	25,309	470	231	-	26,010
Persian Gulf³	-	-	-	-	-	-	3,464	-	-	-	3,464

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-April 2019
(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	—	—	—	833	—	—	—	1,912	1,912
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	101	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	20	—	—	—	—	—
Saudi Arabia	—	—	—	618	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	20	20
Venezuela	—	—	—	94	—	—	—	1,892	1,892
Non-OPEC	101	22	—	5,836	1	594	532	6,183	7,309
Argentina	—	—	—	—	—	594	523	—	1,117
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	562	562
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	9	—	—	—	1	1
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	4	—	2,236	1	—	9	2,247	2,256
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	275	—	—	—	—	—
Colombia	101	—	—	—	—	—	—	1,340	1,340
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	237	—	—	—	4	4
Indonesia	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	2,595	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	126	126
Netherlands	—	18	—	—	—	—	—	610	610
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	484	—	—	—	—	—
Russia	—	—	—	—	—	—	—	938	938
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	286	286
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	0	0	0	69	69
Total	101	22	—	6,669	1	594	532	8,095	9,221
Persian Gulf³	—	—	—	1,203	—	—	—	20	20

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-April 2019
(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	—	—	—	—	31	54	—	9,901	43,737	282	83	364
Algeria	—	—	—	—	—	—	—	802	4,567	31	7	38
Angola	—	—	—	—	—	—	—	—	572	5	—	5
Congo (Brazzaville)	—	—	—	—	—	—	—	—	3,735	31	—	31
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	101	101	—	1	1
Libya	—	—	—	—	—	—	—	—	2,032	17	—	17
Nigeria	—	—	—	—	—	—	—	1,532	12,509	91	13	104
Saudi Arabia	—	—	—	—	—	—	—	3,823	16,578	106	32	138
United Arab Emirates	—	—	—	—	—	54	—	274	274	—	2	2
Venezuela	—	—	—	—	31	—	—	3,369	3,369	—	28	28
Non-OPEC	3	11	320	20	2,752	623	—	116,269	171,825	463	969	1,432
Argentina	—	—	—	—	—	—	—	1,169	1,169	—	10	10
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	1,063	1,063	—	9	9
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	20	—	999	999	—	8	8
Brazil	—	—	—	—	—	—	—	5,601	6,147	5	47	51
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	204	204	—	2	2
Canada	—	11	181	3	2,292	413	—	44,159	71,419	227	368	595
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	59	—	—	—	—	613	613	—	5	5
Colombia	—	—	—	—	39	—	—	5,021	8,856	32	42	74
Denmark	—	—	—	—	—	—	—	—	1,494	12	—	12
Egypt	—	—	—	—	—	—	—	30	1,017	8	0	8
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	1,411	1,411	—	12	12
France	—	—	—	—	—	24	—	3,011	3,011	—	25	25
Germany	—	—	42	—	—	50	—	769	769	—	6	6
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	1	—	11,359	11,359	—	95	95
Indonesia	—	—	1	—	—	—	—	514	514	—	4	4
Italy	—	—	—	—	—	5	—	2,274	2,274	—	19	19
Korea, South	—	—	2	—	—	86	—	2,683	2,683	—	22	22
Latvia	—	—	—	—	—	—	—	69	69	—	1	1
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	126	126	—	1	1
Netherlands	—	—	—	—	—	1	—	7,187	7,187	—	60	60
Norway	—	—	—	—	—	—	—	1,458	6,873	45	12	57
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	3,089	3,089	—	26	26
Qatar	—	—	—	—	—	—	—	2,555	2,555	—	21	21
Russia	—	—	—	—	—	18	—	7,152	13,829	56	60	115
Spain	—	—	3	—	421	—	—	4,818	4,818	—	40	40
Sweden	—	—	—	2	—	3	—	640	640	—	5	5
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	3	—	—	8	—	—	—	6,077	9,296	27	51	77
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	32	7	0	2	—	2,218	8,341	51	18	72
Total	3	11	320	20	2,783	677	—	126,170	215,562	745	1,051	1,796
Persian Gulf³	—	—	—	—	—	54	—	6,753	19,508	106	56	163

— = 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-April 2019
(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	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	310,243	11,171	1,177	254	-	-	-	-	1,366	1,366
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	475	-	-	-	-	-	-	-	-	-
Brunei	417	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	307,893	11,171	1,177	254	-	-	-	-	1,366	1,366
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	1,458	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	-	-	-	-	0	0
Total	310,243	11,171	1,177	254	-	-	-	-	1,366	1,366
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-April 2019
(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	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	350	-	-	780	-	199	96	1,075
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	350	-	-	780	-	199	96	1,075
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	350	-	-	780	-	199	96	1,075
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-April 2019
(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	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	9	-	-	24	-	125	139	264
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	9	-	-	24	-	125	139	264
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	0	-	0	0	0
Total	-	9	-	-	24	-	125	139	264
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-April 2019
(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	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	331	323	28	119	803	462	-	17,756	327,999	2,585	148	2,733
Argentina	-	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	475	4	-	4
Brunei	-	-	-	-	-	-	-	-	417	3	-	3
Cameroon	-	-	-	-	-	-	-	-	-	-	-	-
Canada	331	323	28	108	803	458	-	17,741	325,634	2,566	148	2,714
Chad	-	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	1,458	12	-	12
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	4	-	4	4	-	0	0
Russia	-	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	11	-	-	-	11	11	-	0	0
Syria	-	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	0	0	0	-	0	0	0	0	0
Total	331	323	28	119	803	462	-	17,756	327,999	2,585	148	2,733
Persian Gulf³	-	-	-	-	-	4	-	4	4	-	0	0

- = 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-April 2019
(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	86,383	-	-	9,854	-	-	-	-	-	-
Algeria	-	-	-	6,014	-	-	-	-	-	-
Angola	-	-	-	326	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	173	-	-	-	-	-	-
Ecuador	1,457	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	29,662	-	-	-	-	-	-	-	-	-
Kuwait	5,158	-	-	-	-	-	-	-	-	-
Libya	-	-	-	503	-	-	-	-	-	-
Nigeria	949	-	-	-	-	-	-	-	-	-
Saudi Arabia	20,596	-	-	1,004	-	-	-	-	-	-
United Arab Emirates	-	-	-	1,834	-	-	-	-	-	-
Venezuela	28,561	-	-	-	-	-	-	-	-	-
Non-OPEC	169,698	-	333	39,583	-	284	284	325	8,638	8,963
Argentina	242	-	-	-	-	-	-	-	399	399
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	6,338	-	-	-	-	-	-
Brazil	3,632	-	-	753	-	-	-	-	604	604
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	658	-	-	290	-	-	-	-	-	-
Canada	57,647	-	-	539	-	-	-	-	-	-
Chad	949	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	74	74
Colombia	27,200	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	70	70
Egypt	621	-	-	1,475	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	312	312
France	-	-	-	207	-	-	-	-	111	111
Germany	-	-	-	879	-	-	-	-	50	50
Guatemala	543	-	-	-	-	-	-	-	-	-
India	-	-	-	308	-	-	-	-	2,431	2,431
Indonesia	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	680	-	-	-	-	302	302
Korea, South	-	-	-	-	-	-	-	-	303	303
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	69,851	-	67	-	-	-	-	-	665	665
Netherlands	-	-	-	1,830	-	-	-	-	394	394
Norway	-	-	-	2,878	-	-	-	-	322	322
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	889	889
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	2,864	-	-	19,541	-	-	-	-	-	-
Spain	-	-	-	525	-	-	-	-	294	294
Sweden	-	-	-	663	-	-	-	-	325	325
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	2,793	-	-	-	-	-	-	-	-	-
United Kingdom	2,630	-	-	278	-	284	284	325	49	374
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	68	-	266	2,399	-	0	0	0	1,044	1,044
Total	256,081	-	333	49,437	-	284	284	325	8,638	8,963
Persian Gulf³	55,416	-	-	2,838	-	-	-	-	-	-

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-April 2019
(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	-	-	-	-	-	-	293	-	-	-	293
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	293	-	-	-	293
Non-OPEC	81	155	-	113	-	-	114	-	-	-	114
Argentina	81	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	155	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	-	-	-	114	-	-	-	114
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	113	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	0	-	-	-	0
Total	81	155	-	113	-	-	407	-	-	-	407
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-April 2019
(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	-	-	-	18	-	-	-	1,200	1,200
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	18	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	679	679
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	521	521
Non-OPEC	-	59	-	12	1,389	1,491	512	2,728	4,731
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	226	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-
Canada	-	-	-	6	265	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	117	117
Denmark	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-
India	-	-	-	-	197	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	301	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	6	82	749	-	1,513	2,262
Netherlands	-	59	-	-	-	-	-	235	235
Norway	-	-	-	-	-	-	-	244	244
Oman	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	742	-	619	1,361
Spain	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-
Other	-	0	-	0	318	0	512	0	512
Total	-	59	-	30	1,389	1,491	512	3,928	5,931
Persian Gulf³	-	-	-	18	-	-	-	679	679

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-April 2019
(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	—	—	—	—	—	270	—	11,635	98,018	720	97	817
Algeria	—	—	—	—	—	—	—	6,014	6,014	—	50	50
Angola	—	—	—	—	—	—	—	326	326	—	3	3
Congo (Brazzaville)	—	—	—	—	—	—	—	173	173	—	1	1
Ecuador	—	—	—	—	—	—	—	—	1,457	12	—	12
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	18	29,680	247	0	247
Kuwait	—	—	—	—	—	—	—	—	5,158	43	—	43
Libya	—	—	—	—	—	—	—	503	503	—	4	4
Nigeria	—	—	—	—	—	—	—	—	949	8	—	8
Saudi Arabia	—	—	—	—	—	—	—	1,683	22,279	172	14	186
United Arab Emirates	—	—	—	—	—	270	—	2,104	2,104	—	18	18
Venezuela	—	—	—	—	—	—	—	814	29,375	238	7	245
Non-OPEC	1,169	104	100	502	—	3,547	—	61,251	230,949	1,414	510	1,925
Argentina	—	—	—	271	—	9	—	760	1,002	2	6	8
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	279	—	279	279	—	2	2
Belgium	—	—	—	—	—	5	—	6,343	6,343	—	53	53
Brazil	—	9	—	—	—	—	—	1,747	5,379	30	15	45
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	290	948	5	2	8
Canada	—	—	—	—	—	—	—	924	58,571	480	8	488
Chad	—	—	—	—	—	—	—	—	949	8	—	8
China	—	—	32	—	—	—	—	106	106	—	1	1
Colombia	—	—	—	—	—	—	—	117	27,317	227	1	228
Denmark	—	—	—	—	—	—	—	70	70	—	1	1
Egypt	—	—	—	—	—	—	—	1,475	2,096	5	12	17
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	15	—	327	327	—	3	3
France	—	92	—	—	—	38	—	448	448	—	4	4
Germany	—	—	—	—	—	28	—	957	957	—	8	8
Guatemala	—	—	—	—	—	—	—	—	543	5	—	5
India	—	—	—	—	—	—	—	2,936	2,936	—	24	24
Indonesia	—	—	—	—	—	267	—	267	267	—	2	2
Italy	34	—	—	—	—	87	—	1,105	1,105	—	9	9
Korea, South	—	—	—	—	—	1,368	—	1,972	1,972	—	16	16
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	32	—	—	—	—	32	32	—	0	0
Mexico	698	—	—	—	—	—	—	3,780	73,631	582	32	614
Netherlands	—	—	—	—	—	26	—	2,544	2,544	—	21	21
Norway	—	—	—	—	—	—	—	3,444	3,444	—	29	29
Oman	—	—	—	204	—	—	—	204	204	—	2	2
Portugal	—	—	—	—	—	—	—	889	889	—	7	7
Qatar	—	—	—	—	—	1,274	—	1,274	1,274	—	11	11
Russia	—	—	—	—	—	—	—	20,902	23,766	24	174	198
Spain	—	—	1	—	—	—	—	933	933	—	8	8
Sweden	—	—	—	—	—	—	—	988	988	—	8	8
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	2,793	23	—	23
United Kingdom	179	—	—	16	—	96	—	1,227	3,857	22	10	32
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	258	3	35	11	—	55	—	4,911	4,979	1	41	42
Total	1,169	104	100	502	—	3,817	—	72,886	328,967	2,134	607	2,741
Persian Gulf³	—	—	—	—	—	1,823	—	5,358	60,774	462	45	506

— = 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-April 2019
(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	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	34,936	1,958	-	-	-	-	-	-	314	314
Canada	34,936	1,958	-	-	-	-	-	-	314	314
Qatar	-	-	-	-	-	-	-	-	-	-
Other	0	0	-	-	-	-	-	-	0	0
Total	34,936	1,958	-	-	-	-	-	-	314	314
PAD District 5										
OPEC	83,513	-	-	1,964	-	-	-	-	-	-
Algeria	-	-	-	1,876	-	-	-	-	-	-
Angola	951	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	17,928	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	11,925	-	-	-	-	-	-	-	-	-
Kuwait	4,192	-	-	-	-	-	-	-	-	-
Libya	3,737	-	-	-	-	-	-	-	-	-
Nigeria	1,590	-	-	-	-	-	-	-	-	-
Saudi Arabia	41,734	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	88	-	-	-	-	-	-
Venezuela	497	-	-	-	-	-	-	-	-	-
Non-OPEC	65,486	7,368	-	6,363	-	1,570	1,570	1,298	4,638	5,936
Argentina	4,092	145	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	202	-	-	-	-	-	-
Brazil	4,014	-	-	84	-	-	-	-	-	-
Brunei	1,022	-	-	-	-	-	-	-	-	-
Canada	28,672	7,037	-	885	-	346	346	-	361	361
China	-	-	-	-	-	-	-	-	72	72
Colombia	13,272	-	-	430	-	-	-	-	600	600
Finland	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	504	-	306	306	-	1,293	1,293
Korea, South	-	-	-	-	-	918	918	-	468	468
Malaysia	-	-	-	289	-	-	-	-	-	-
Mexico	4,231	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	1,298	103	1,401
Oman	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	189	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	737	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	219	219
United Kingdom	-	-	-	349	-	-	-	-	707	707
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	10,183	186	-	2,694	-	0	0	0	815	815
Total	148,999	7,368	-	8,327	-	1,570	1,570	1,298	4,638	5,936
Persian Gulf³	57,851	-	-	88	-	-	-	-	-	-

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-April 2019
(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	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	22	-	-	348	-	-	-	348
Canada	-	-	-	22	-	-	348	-	-	-	348
Qatar	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	22	-	-	348	-	-	-	348
PAD District 5											
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	564	137	1,713	-	1,042	-	4	-	1,046
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	564	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	22	-	-	953	-	4	-	957
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	115	-	-	89	-	-	-	89
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	1,713	-	0	-	0	-	0
Total	-	-	564	137	1,713	-	1,042	-	4	-	1,046
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-April 2019
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			Total
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	
PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	2	-	-	-	-	-	97	97
Canada	-	2	-	-	-	-	-	97	97
Qatar	-	-	-	-	-	-	-	-	-
Other	-	0	-	-	-	-	-	0	0
Total	-	2	-	-	-	-	-	97	97
PAD District 5									
OPEC	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-
Non-OPEC	-	4	-	10,704	-	338	817	1,845	3,000
Argentina	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-
Canada	-	4	-	-	-	-	817	322	1,139
China	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-
Japan	-	-	-	934	-	-	-	-	-
Korea, South	-	-	-	7,827	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	825	825
Netherlands	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	505	505
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	395	-	338	-	-	338
Sweden	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	190	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-
Other	-	0	-	1,358	-	0	0	193	193
Total	-	4	-	10,704	-	338	817	1,845	3,000
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-April 2019
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
PAD District 4												
OPEC	-	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	-	170	1	4	2,916	37,852	291	24	315
Canada	-	-	-	-	170	1	4	2,916	37,852	291	24	315
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	0	0	0	0	0	0	0	0
Total	-	-	-	-	170	1	4	2,916	37,852	291	24	315
PAD District 5												
OPEC	-	-	-	-	-	-	-	1,964	85,477	696	16	712
Algeria	-	-	-	-	-	-	-	1,876	1,876	-	16	16
Angola	-	-	-	-	-	-	-	-	951	8	-	8
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	17,928	149	-	149
Iran	-	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	11,925	99	-	99
Kuwait	-	-	-	-	-	-	-	-	4,192	35	-	35
Libya	-	-	-	-	-	-	-	-	3,737	31	-	31
Nigeria	-	-	-	-	-	-	-	-	1,590	13	-	13
Saudi Arabia	-	-	-	-	-	-	-	-	41,734	348	-	348
United Arab Emirates	-	-	-	-	-	-	-	88	88	-	1	1
Venezuela	-	-	-	-	-	-	-	-	497	4	-	4
Non-OPEC	143	-	179	83	577	456	-	39,843	105,329	546	332	878
Argentina	-	-	-	-	-	-	-	145	4,237	34	1	35
Aruba	-	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	202	202	-	2	2
Brazil	-	-	-	-	-	-	-	648	4,662	33	5	39
Brunei	-	-	-	-	-	-	-	-	1,022	9	-	9
Canada	-	-	-	83	382	30	-	11,246	39,918	239	94	333
China	-	-	156	-	-	-	-	228	228	-	2	2
Colombia	-	-	-	-	-	-	-	1,030	14,302	111	9	119
Finland	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	22	-	-	-	-	3,059	3,059	-	25	25
Korea, South	-	-	-	-	130	24	-	9,571	9,571	-	80	80
Malaysia	-	-	1	-	65	-	-	355	355	-	3	3
Mexico	-	-	-	-	-	-	-	825	5,056	35	7	42
Netherlands	-	-	-	-	-	-	-	1,401	1,401	-	12	12
Oman	-	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	694	694	-	6	6
Qatar	-	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	2,446	2,446	-	20	20
Sweden	-	-	-	-	-	-	-	737	737	-	6	6
Taiwan	143	-	-	-	-	-	-	552	552	-	5	5
United Kingdom	-	-	-	-	-	-	-	1,056	1,056	-	9	9
Vietnam	-	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	0	0	402	-	5,648	15,831	85	46	131
Total	143	-	179	83	577	456	-	41,807	190,806	1,242	348	1,590
Persian Gulf³	-	-	-	-	-	-	-	88	57,939	482	1	483

- = 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, April 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	0	5,220	79,302	-	754	85,276	2,843
Hydrocarbon Gas Liquids	7,404	7,641	39,179	65	1,323	55,612	1,854
Natural Gas Liquids	7,404	7,641	39,179	65	1,323	55,612	1,854
Ethane	22	2,789	4,738	-	0	7,550	252
Propane	4,962	89	27,476	0	702	33,230	1,108
Normal Butane	2,336	101	6,862	2	618	9,919	331
Isobutane	1	1	71	-	1	74	2
Natural Gasoline	82	4,661	31	63	3	4,840	161
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Normal Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	309	2,515	9,934	3	561	13,321	444
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	281	803	3,942	0	365	5,390	180
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	0	1	1,440	-	1	1,442	48
Methyl Tertiary Butyl Ether (MTBE)	0	0	906	-	-	906	30
Other Oxygenates	0	1	534	-	1	536	18
Renewable Fuels (including Fuel Ethanol) ...	281	801	2,503	0	364	3,948	132
Fuel Ethanol	280	598	2,415	-	285	3,578	119
Biodiesel	0	203	88	0	79	370	12
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	23	1,432	4,027	3	79	5,563	185
Naphthas and Lighter	11	1,427	3,783	-	72	5,293	176
Kerosene and Light Gas Oils	12	5	243	3	7	270	9
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	5	280	1,965	-	118	2,367	79
Reformulated	1	-	20	-	3	24	1
Conventional	3	280	1,945	-	115	2,343	78
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	5,202	1,402	83,041	18	10,775	100,437	3,348
Finished Motor Gasoline	36	222	19,583	1	405	20,247	675
Reformulated	-	-	-	-	-	-	-
Conventional	36	222	19,583	1	405	20,247	675
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	671	39	4,533	-	660	5,903	197
Kerosene	2	1	1	-	0	4	0
Distillate Fuel Oil	1,301	362	37,081	0	3,501	42,246	1,408
15 ppm sulfur and under	687	1	31,910	0	1,795	34,393	1,146
Greater than 15 ppm to 500 ppm sulfur	614	199	2,996	-	143	3,953	132
Greater than 500 ppm sulfur	0	162	2,175	-	1,563	3,900	130
Residual Fuel Oil	2,233	119	7,391	7	1,693	11,444	381
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	175	207	2,274	7	316	2,979	99
Waxes	61	31	13	0	6	111	4
Petroleum Coke	559	378	11,659	-	4,153	16,749	558
Asphalt and Road Oil	148	42	488	1	40	720	24
Miscellaneous Products	15	2	18	1	0	35	1
Total	12,914	16,778	211,455	86	13,413	254,646	8,488

- = 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-April 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	9	21,188	310,070	-	755	332,022	2,767
Hydrocarbon Gas Liquids	16,764	29,651	145,584	1,402	5,086	198,488	1,654
Natural Gas Liquids	16,764	29,651	145,584	1,402	5,086	198,488	1,654
Ethane	1,612	10,537	19,687	-	1	31,838	265
Propane	11,244	371	103,997	2	3,300	118,025	984
Normal Butane	3,096	1,088	22,485	6	1,775	28,214	235
Isobutane	4	4	338	-	4	347	3
Natural Gasoline	834	17,664	124	1,395	48	20,064	167
Refinery Olefins	-	-	-	-	-	-	-
Ethylene	-	-	-	-	-	-	-
Propylene	-	-	-	-	-	-	-
Normal Butylene	-	-	-	-	-	-	-
Isobutylene	-	-	-	-	-	-	-
Other Liquids	700	8,901	52,165	12	1,838	63,616	530
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	575	2,268	16,390	0	960	20,193	168
Hydrogen	-	-	-	-	-	-	-
Oxygenates (excluding Fuel Ethanol)	4	6	6,730	0	2	6,743	56
Methyl Tertiary Butyl Ether (MTBE)	0	0	3,899	-	0	3,899	32
Other Oxygenates	4	6	2,831	0	2	2,844	24
Renewable Fuels (including Fuel Ethanol) ...	571	2,262	9,660	0	958	13,450	112
Fuel Ethanol	557	1,911	9,421	-	786	12,676	106
Biodiesel	13	351	239	0	171	774	6
Other Renewable Diesel	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-
Other Hydrocarbons	-	-	-	-	-	-	-
Unfinished Oils	102	6,217	22,733	12	342	29,407	245
Naphthas and Lighter	51	6,181	22,063	1	321	28,617	238
Kerosene and Light Gas Oils	51	37	670	10	21	790	7
Heavy Gas Oils	-	-	-	-	-	-	-
Residuum	-	-	-	-	-	-	-
Motor Gasoline Blend.Comp. (MGBC)	23	416	13,042	0	535	14,016	117
Reformulated	6	-	45	-	6	58	0
Conventional	17	416	12,996	0	529	13,958	116
Aviation Gasoline Blend. Comp.	-	-	-	-	-	-	-
Finished Petroleum Products	16,398	3,826	330,679	67	45,308	396,278	3,302
Finished Motor Gasoline	1,143	532	93,613	3	4,780	100,072	834
Reformulated	-	-	-	-	-	-	-
Conventional	1,143	532	93,613	3	4,780	100,072	834
Finished Aviation Gasoline	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	1,951	233	19,498	-	3,147	24,829	207
Kerosene	178	3	164	-	9	354	3
Distillate Fuel Oil	4,405	725	126,742	0	17,952	149,825	1,249
15 ppm sulfur and under	2,973	2	101,879	0	12,702	117,556	980
Greater than 15 ppm to 500 ppm sulfur	1,295	403	11,691	-	2,577	15,965	133
Greater than 500 ppm sulfur	137	320	13,173	-	2,674	16,304	136
Residual Fuel Oil	5,150	565	23,577	31	3,539	32,862	274
Naphtha for Petro. Feed. Use	-	-	-	-	-	-	-
Other Oils for Petro. Feed. Use	-	-	-	-	-	-	-
Special Naphthas	-	-	-	-	-	-	-
Lubricants	856	735	10,981	28	1,304	13,903	116
Waxes	235	125	83	1	20	464	4
Petroleum Coke	2,069	518	53,656	0	14,258	70,502	588
Asphalt and Road Oil	359	376	2,258	3	298	3,293	27
Miscellaneous Products	51	14	107	2	1	175	1
Total	33,871	63,567	838,498	1,482	52,987	990,404	8,253

- = 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, April 2019
(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	13	—	—	399	—	285	285	—	—	—
Australia	647	584	—	2	—	0	0	—	—	—
Bahamas	—	21	—	0	—	103	103	—	0	0
Bahrain	—	—	—	0	—	—	—	—	—	—
Belgium	—	0	—	2	—	—	—	—	—	—
Belize	—	—	—	—	—	—	—	—	—	—
Brazil	1,720	2,893	—	603	—	1,289	1,289	—	310	310
Canada	17,668	7,838	—	1,447	—	464	464	—	395	395
Cayman Islands	—	47	—	—	—	193	193	—	—	—
Chile	420	713	—	8	—	235	235	—	—	—
China	1,871	1	—	2	—	4	4	—	—	—
Colombia	1,118	43	—	1,650	—	325	325	0	—	0
Costa Rica	—	96	—	0	—	300	300	—	—	—
Denmark	1,375	—	—	—	—	—	—	—	—	—
Dominican Republic	498	1,673	—	—	—	243	243	—	1	1
Ecuador	—	1,217	—	0	—	263	263	—	265	265
Egypt	—	—	—	—	—	—	—	—	—	—
El Salvador	—	237	—	0	—	359	359	0	—	0
Finland	—	—	—	—	—	—	—	—	—	—
France	—	674	—	25	—	0	0	—	—	—
Germany	618	111	—	6	—	2	2	—	—	—
Ghana	—	—	—	—	—	0	0	—	—	—
Gibraltar	—	—	—	—	—	—	—	—	—	—
Greece	448	0	—	—	—	—	—	—	—	—
Guatemala	—	419	—	0	—	966	966	0	236	236
Honduras	—	64	—	—	—	333	333	—	—	—
Hong Kong	—	—	—	0	—	—	—	—	—	—
India	11,768	2,783	—	9	—	—	—	—	—	—
Indonesia	630	5,082	—	0	—	—	—	—	—	—
Ireland	1,229	—	—	—	—	—	—	—	—	—
Israel	—	1	—	—	—	—	—	—	—	—
Italy	1,138	—	—	—	—	—	—	—	—	—
Jamaica	—	80	—	—	—	148	148	—	0	0
Japan	1,992	10,922	—	301	—	0	0	2	—	2
Korea, South	10,668	2,120	—	33	—	9	9	0	—	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	3,906	—	402	—	13,073	13,073	20	1,135	1,155
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,866	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	9,135	1,994	—	336	—	2	2	—	—	—
New Zealand	—	—	—	0	—	—	—	—	—	—
Nicaragua	397	—	—	—	—	161	161	—	—	—
Nigeria	—	351	—	—	—	—	—	—	—	—
Norway	588	519	—	63	—	1	1	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	3,958	0	—	—	—	658	658	—	0	0
Peru	407	—	—	0	—	691	691	—	—	—
Philippines	—	0	—	0	—	—	—	—	—	—
Portugal	—	981	—	—	—	—	—	—	—	—
Puerto Rico	—	15	—	0	—	1	1	—	0	0
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	—	0	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	2,173	0	—	25	—	—	—	—	—	—
South Africa	—	120	—	0	—	5	5	—	—	—
Spain	1,000	1,039	—	—	—	—	—	—	0	0
Switzerland	—	—	—	—	—	—	—	—	—	—
Taiwan	4,563	1,136	—	13	—	—	—	—	0	0
Thailand	980	0	—	1	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	0	—	0	0	—	—	—
Turkey	—	516	—	—	—	—	—	0	—	0
United Arab Emirates	2,977	—	—	0	—	—	—	—	—	—
United Kingdom	4,562	2,768	—	1	—	1	1	—	0	0
Venezuela	—	1	—	—	—	11	11	1	—	1
Other	715	2,781	—	235	—	122	122	1	1	2
Total	85,276	55,612	—	5,563	—	20,247	20,247	24	2,343	2,367

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, April 2019
(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	—	—	—	—	—	—	1,121	—	—	—	1,121
Australia	0	—	0	—	—	—	—	—	—	—	—
Bahamas	—	—	0	—	—	—	565	—	296	—	861
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	0	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	0	59	—	—	59
Brazil	—	0	974	—	—	—	2,488	251	471	—	3,211
Canada	—	0	739	341	—	—	615	342	178	—	1,135
Cayman Islands	—	—	—	—	—	—	93	—	—	—	93
Chile	212	—	1	—	—	—	2,249	—	250	—	2,499
China	0	0	0	—	—	—	1	—	—	—	1
Colombia	—	—	127	—	—	—	1,723	—	—	—	1,723
Costa Rica	—	0	0	—	—	—	540	—	—	—	540
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	0	—	—	—	509	162	—	—	671
Ecuador	—	—	0	—	—	—	1,049	265	—	—	1,314
Egypt	—	—	0	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	1,266	268	—	—	1,535
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	0	—	—	—	—	2,732	297	—	—	3,029
Germany	—	0	0	0	—	—	0	—	—	—	0
Ghana	—	—	—	—	—	—	0	—	—	—	0
Gibraltar	—	—	—	—	—	—	50	275	—	—	325
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	1,453	348	81	—	1,883
Honduras	—	—	—	—	—	—	1	137	130	—	268
Hong Kong	—	—	0	—	—	—	—	—	—	—	—
India	—	—	812	—	—	—	0	—	—	—	0
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Ireland	—	—	0	—	—	—	—	—	—	—	—
Israel	—	0	1	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—
Jamaica	—	—	62	—	—	—	125	—	18	—	143
Japan	—	534	1	—	—	—	—	—	—	—	—
Korea, South	—	0	202	—	—	—	701	—	—	—	701
Lebanon	—	—	—	—	—	—	—	—	—	—	—
Mexico	694	1	79	0	—	—	10,667	—	63	—	10,730
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	1	—	—	477	—	—	—	477
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	170	27	—	—	0	—	275	—	275
New Zealand	—	—	—	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	—	—	363	—	—	363
Nigeria	—	—	90	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	—	—	—	—	1,461	19	536	—	2,016
Peru	—	—	87	—	—	—	1,984	—	—	—	1,984
Philippines	—	0	181	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	1	—	—	—	0	70	—	—	70
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	40	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	0	0	—	—	—	0	—	1,045	—	1,045
South Africa	—	—	0	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	350	248	—	—	598
Switzerland	—	—	7	—	—	—	—	—	—	—	—
Taiwan	—	0	1	—	—	—	—	—	—	—	—
Thailand	—	—	0	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	20	238	—	—	258
Turkey	—	—	—	—	—	—	0	—	—	—	0
United Arab Emirates	—	—	2	—	—	—	—	—	—	—	—
United Kingdom	—	—	0	—	—	—	1,423	—	—	—	1,423
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Other	—	1	1	1	—	—	730	611	557	—	1,895
Total	906	536	3,578	370	—	—	34,393	3,953	3,900	—	42,246

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, April 2019
(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	—	—	—	104	—	—	—	—
Australia	—	—	—	—	—	—	—	—
Bahamas	—	—	—	98	—	134	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	24	—	—	—	—
Brazil	—	—	—	73	—	112	—	—
Canada	1	—	—	1,266	—	1,188	—	—
Cayman Islands	0	—	—	45	—	0	—	—
Chile	1	—	—	435	—	0	—	—
China	0	—	—	—	—	0	—	—
Colombia	—	—	—	—	—	0	—	—
Costa Rica	0	—	—	70	—	—	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	1	—	—	356	—	—	—	—
Ecuador	—	—	—	—	—	427	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	0	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	0	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	322	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	—	—	—	152	—	33	—	—
Honduras	0	—	—	37	—	454	—	—
Hong Kong	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	174	—	818	—	—
Japan	0	—	—	—	—	—	—	—
Korea, South	—	—	—	0	—	0	—	—
Lebanon	—	—	—	—	—	915	—	—
Mexico	0	—	—	1,805	—	2,837	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	1,596	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	0	—	—	32	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	0	—	—	637	—	1,118	—	—
Peru	0	—	—	205	—	—	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	—	—	—	0	—	—	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	0	—	—	0	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	818	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	0	—	0	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	1	—	—	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	—	—	—
United Kingdom	—	—	—	0	—	—	—	—
Venezuela	—	—	—	0	—	0	—	—
Other	1	—	—	389	—	672	—	—
Total	4	—	—	5,903	—	11,444	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, April 2019
(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	—	1	40	—	1,952	1,965	0	65	65
Australia	0	259	1	36	1	883	1,530	22	29	51
Bahamas	—	—	1	4	0	1,223	1,223	—	41	41
Bahrain	—	—	—	—	—	0	0	—	0	0
Belgium	0	530	0	425	1	958	958	—	32	32
Belize	—	—	—	1	—	84	84	—	3	3
Brazil	1	1,206	—	256	0	10,929	12,649	57	364	422
Canada	84	1,097	91	286	6	16,378	34,046	589	546	1,135
Cayman Islands	—	—	0	1	—	379	379	—	13	13
Chile	1	1	76	71	—	4,251	4,671	14	142	156
China	3	348	2	16	1	378	2,250	62	13	75
Colombia	0	—	1	85	0	3,956	5,074	37	132	169
Costa Rica	0	181	27	15	0	1,230	1,230	—	41	41
Denmark	—	—	—	—	—	—	1,375	46	—	46
Dominican Republic	0	373	68	17	—	3,404	3,902	17	113	130
Ecuador	0	176	—	49	—	3,711	3,711	—	124	124
Egypt	—	—	100	1	—	102	102	—	3	3
El Salvador	0	—	0	36	—	2,167	2,167	—	72	72
Finland	—	—	—	1	—	1	1	—	0	0
France	0	173	—	23	—	3,926	3,926	—	131	131
Germany	1	0	0	3	—	124	742	21	4	25
Ghana	—	—	0	0	—	0	0	—	0	0
Gibraltar	—	—	—	—	—	646	646	—	22	22
Greece	—	151	—	0	—	151	600	15	5	20
Guatemala	0	480	—	16	—	4,184	4,184	—	139	139
Honduras	0	249	43	14	—	1,461	1,461	—	49	49
Hong Kong	0	—	0	2	0	2	2	—	0	0
India	0	2,540	0	69	0	6,214	17,982	392	207	599
Indonesia	0	0	1	1	—	5,084	5,713	21	169	190
Ireland	—	55	—	0	—	55	1,284	41	2	43
Israel	0	—	—	2	0	4	4	—	0	0
Italy	0	959	—	0	—	960	2,098	38	32	70
Jamaica	—	—	0	7	0	1,432	1,432	—	48	48
Japan	1	2,804	1	13	4	14,583	16,575	66	486	553
Korea, South	0	0	2	4	0	3,071	13,740	356	102	458
Lebanon	—	—	—	1	—	916	916	—	31	31
Mexico	12	935	252	1,044	18	36,943	36,943	—	1,231	1,231
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	566	—	0	—	2,910	2,910	—	97	97
Mozambique	—	170	—	—	—	170	170	—	6	6
Netherlands	3	278	2	103	0	4,787	13,922	305	160	464
New Zealand	0	—	—	1	—	1	1	—	0	0
Nicaragua	—	—	—	4	—	560	957	13	19	32
Nigeria	—	—	0	82	—	523	523	—	17	17
Norway	—	42	—	1	—	625	1,213	20	21	40
Pakistan	0	—	—	0	0	0	0	—	0	0
Panama	—	—	39	20	—	4,488	8,447	132	150	282
Peru	0	—	—	51	0	3,018	3,425	14	101	114
Philippines	0	—	—	2	0	183	183	—	6	6
Portugal	—	—	—	—	—	981	981	—	33	33
Puerto Rico	0	—	0	11	—	99	99	—	3	3
Romania	—	277	—	1	0	278	278	—	9	9
Saudi Arabia	0	2	0	3	—	45	45	—	1	1
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	2	2	0	1,893	4,066	72	63	136
South Africa	0	118	—	48	—	291	291	—	10	10
Spain	—	409	—	3	—	2,049	3,048	33	68	102
Switzerland	0	—	—	0	—	7	7	—	0	0
Taiwan	0	—	0	5	0	1,156	5,719	152	39	191
Thailand	0	0	0	2	0	3	982	33	0	33
Trinidad and Tobago	—	0	—	4	—	264	264	—	9	9
Turkey	0	1,262	—	15	—	1,794	1,794	—	60	60
United Arab Emirates	0	110	1	19	—	131	3,109	99	4	104
United Kingdom	0	34	0	3	—	4,231	8,793	152	141	293
Venezuela	—	3	—	6	—	23	23	—	1	1
Other	5	961	9	54	4	7,118	7,831	24	237	258
Total	111	16,749	720	2,979	35	169,370	254,646	2,843	5,646	8,488

— = 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-April 2019
(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	13	1	-	1,171	-	883	883	-	-	-
Australia	647	1,144	-	2	-	457	457	1	-	1
Bahamas	-	175	-	0	-	297	297	0	1	1
Bahrain	-	-	-	0	-	-	-	-	-	-
Belgium	127	677	-	350	-	-	-	-	0	0
Belize	-	-	-	-	-	27	27	-	78	78
Brazil	4,272	5,925	-	2,786	-	6,355	6,355	-	1,691	1,691
Canada	59,445	32,087	-	6,282	-	2,720	2,720	-	3,356	3,356
Cayman Islands	-	47	-	-	-	382	382	-	0	0
Chile	2,789	2,364	-	32	-	1,106	1,106	-	-	-
China	9,104	1,340	-	1,463	-	5	5	-	-	-
Colombia	2,640	148	-	4,810	-	2,290	2,290	0	319	319
Costa Rica	-	457	-	11	-	2,097	2,097	-	-	-
Denmark	2,314	0	-	-	-	-	-	0	0	0
Dominican Republic	1,498	6,685	-	1,251	-	1,510	1,510	0	61	62
Ecuador	-	4,370	-	26	-	3,203	3,203	-	798	798
Egypt	-	1,978	-	-	-	-	-	-	1	1
El Salvador	-	926	-	1	-	1,367	1,367	0	0	1
Finland	-	-	-	0	-	1	1	-	-	-
France	4,983	2,568	-	79	-	1	1	-	0	0
Germany	3,611	112	-	28	-	2	2	-	0	0
Ghana	-	-	-	0	-	0	0	-	-	-
Gibraltar	-	-	-	-	-	-	-	-	-	-
Greece	448	0	-	-	-	-	-	-	-	-
Guatemala	-	1,778	-	8	-	4,200	4,200	0	760	760
Honduras	-	1,321	-	3	-	2,637	2,637	-	542	542
Hong Kong	-	0	-	0	-	-	-	-	-	-
India	35,772	13,087	-	19	-	0	0	1	-	1
Indonesia	630	9,969	-	18	-	-	-	-	-	-
Ireland	4,934	-	-	0	-	-	-	-	-	-
Israel	-	1	-	7	-	-	-	-	-	-
Italy	11,491	234	-	0	-	-	-	-	-	-
Jamaica	-	182	-	0	-	910	910	-	2	2
Japan	8,574	41,141	-	2,178	-	1	1	4	0	5
Korea, South	42,415	10,569	-	888	-	150	150	1	0	1
Lebanon	-	-	-	-	-	-	-	-	-	-
Mexico	-	17,622	-	1,476	-	58,624	58,624	45	5,894	5,938
Montenegro	-	-	-	-	-	-	-	-	-	-
Morocco	-	4,424	-	-	-	-	-	-	-	-
Mozambique	-	-	-	-	-	-	-	-	-	-
Netherlands	36,676	5,404	-	2,407	-	463	463	-	-	-
New Zealand	-	2	-	0	-	0	0	-	-	-
Nicaragua	1,195	-	-	-	-	546	546	-	-	-
Nigeria	-	351	-	0	-	-	-	-	-	-
Norway	3,825	3,443	-	122	-	1	1	-	-	-
Pakistan	-	-	-	-	-	-	-	-	-	-
Panama	6,493	1	-	2	-	2,851	2,851	-	61	61
Peru	1,200	224	-	8	-	2,657	2,657	-	102	102
Philippines	-	486	-	1	-	-	-	-	-	-
Portugal	-	1,256	-	-	-	-	-	-	-	-
Puerto Rico	-	50	-	5	-	7	7	-	0	0
Romania	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	4	-	3	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-	-	-
Singapore	9,001	1,965	-	329	-	320	320	-	50	50
South Africa	325	120	-	0	-	5	5	0	-	0
Spain	2,868	4,936	-	0	-	480	480	-	0	0
Switzerland	-	289	-	0	-	-	-	-	-	-
Taiwan	20,379	3,913	-	642	-	0	0	-	0	0
Thailand	16,624	0	-	1	-	-	-	-	-	-
Trinidad and Tobago	-	1	-	0	-	258	258	-	240	240
Turkey	-	1,882	-	0	-	-	-	1	-	1
United Arab Emirates	5,438	1	-	1	-	2	2	0	-	0
United Kingdom	26,770	6,506	-	1	-	5	5	-	0	0
Venezuela	-	268	-	2,039	-	1,474	1,474	4	0	4
Other	5,521	6,054	-	957	-	1,778	1,778	1	2	1
Total	332,022	198,488	-	29,407	-	100,072	100,072	58	13,958	14,016

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-April 2019
(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	—	—	2,974	—	139	—	3,114
Australia	0	0	0	—	—	—	0	—	—	—	0
Bahamas	—	1	0	—	—	—	1,554	—	1,047	—	2,602
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	20	0	0	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	0	172	41	—	213
Brazil	—	0	4,316	0	—	—	17,427	1,104	2,137	—	20,668
Canada	—	1	2,163	581	—	—	616	1,411	351	—	2,378
Cayman Islands	—	—	—	—	—	—	345	—	—	—	345
Chile	837	—	4	—	—	—	10,810	—	250	—	11,060
China	0	1	1	—	—	—	5	299	—	—	304
Colombia	—	—	517	—	—	—	5,333	—	—	—	5,333
Costa Rica	—	0	1	—	—	—	2,605	—	—	—	2,605
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	1	—	—	—	1,059	1,300	800	—	3,159
Ecuador	—	0	0	—	—	—	2,102	1,367	—	—	3,469
Egypt	—	—	0	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	1,272	1,172	—	—	2,444
Finland	—	—	0	—	—	—	—	—	—	—	—
France	—	1	31	—	—	—	5,883	591	—	—	6,474
Germany	0	0	0	5	—	—	1	—	—	—	1
Ghana	—	—	—	—	—	—	2	—	—	—	2
Gibraltar	—	—	—	—	—	—	50	275	2,531	—	2,855
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	2,221	2,726	327	—	5,274
Honduras	—	0	—	—	—	—	1,100	863	638	—	2,601
Hong Kong	—	0	0	0	—	—	—	—	—	—	—
India	0	0	1,895	1	—	—	26	—	—	—	26
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Ireland	—	0	0	—	—	—	—	—	—	—	—
Israel	—	0	1	—	—	—	0	—	—	—	0
Italy	—	—	0	—	—	—	66	—	—	—	66
Jamaica	—	0	228	—	—	—	520	71	296	—	886
Japan	—	2,832	56	—	—	—	1	24	—	—	25
Korea, South	—	0	792	—	—	—	713	—	—	—	713
Lebanon	—	—	0	—	—	—	0	—	—	—	0
Mexico	2,782	2	286	7	—	—	35,020	495	360	—	35,875
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	4	—	—	1,103	—	—	—	1,103
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	274	139	—	—	3,386	—	1,910	—	5,296
New Zealand	—	—	—	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	—	168	633	210	—	1,011
Nigeria	—	—	174	—	—	—	—	—	—	—	—
Norway	0	—	50	—	—	—	247	—	—	—	247
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	—	0	—	—	—	3,693	558	1,648	—	5,899
Peru	—	0	433	30	—	—	8,000	—	—	—	8,000
Philippines	—	0	633	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	1	4	—	—	—	2	71	—	—	72
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	1	111	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	1	2	1	—	—	138	50	1,792	—	1,980
South Africa	—	—	0	—	—	—	0	—	—	—	0
Spain	—	—	133	—	—	—	957	248	—	—	1,204
Switzerland	—	—	228	6	—	—	0	—	4	—	4
Taiwan	0	0	2	—	—	—	0	—	—	—	0
Thailand	—	0	0	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	0	—	—	—	309	788	240	—	1,337
Turkey	—	—	—	—	—	—	1	—	—	—	1
United Arab Emirates	—	—	75	—	—	—	0	—	—	—	0
United Kingdom	—	0	1	—	—	—	3,973	—	—	—	3,973
Venezuela	259	—	—	—	—	—	275	—	—	—	275
Other	1	3	264	—	—	—	3,599	1,747	1,583	—	6,931
Total	3,899	2,844	12,676	774	—	—	117,556	15,965	16,304	—	149,825

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-April 2019
(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	—	—	—	282	—	—	—	—
Australia	—	—	—	—	—	1	—	—
Bahamas	—	—	—	276	—	2,036	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	57	—	—	—	—
Brazil	0	—	—	502	—	320	—	—
Canada	183	—	—	4,789	—	3,859	—	—
Cayman Islands	0	—	—	137	—	0	—	—
Chile	2	—	—	1,417	—	0	—	—
China	0	—	—	0	—	1	—	—
Colombia	0	—	—	177	—	1	—	—
Costa Rica	10	—	—	733	—	0	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	1	—	—	1,377	—	247	—	—
Ecuador	0	—	—	8	—	1,496	—	—
Egypt	—	—	—	—	—	—	—	—
El Salvador	0	—	—	118	—	—	—	—
Finland	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	0	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	943	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	1	—	—	678	—	232	—	—
Honduras	0	—	—	249	—	1,095	—	—
Hong Kong	0	—	—	—	—	—	—	—
India	—	—	—	0	—	66	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	333	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	0	—	—	641	—	2,414	—	—
Japan	0	—	—	0	—	64	—	—
Korea, South	—	—	—	0	—	0	—	—
Lebanon	—	—	—	0	—	1,897	—	—
Mexico	145	—	—	6,629	—	7,202	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	4,261	—	—
New Zealand	0	—	—	—	—	—	—	—
Nicaragua	0	—	—	32	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	0	—	—	—	—	—	—	—
Panama	0	—	—	2,269	—	3,467	—	—
Peru	1	—	—	836	—	0	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	1	—	1	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	0	—	—	3	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	0	—	—	—	—	1,841	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	0	—	—	0	—	1	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	759	—	—	—	—
Turkey	1	—	—	0	—	—	—	—
United Arab Emirates	0	—	—	—	—	0	—	—
United Kingdom	0	—	—	325	—	370	—	—
Venezuela	—	—	—	17	—	0	—	—
Other	9	—	—	2,184	—	1,047	—	—
Total	354	—	—	24,829	—	32,862	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-April 2019
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	1	83	2	180	0	5,716	5,730	0	48	48
Australia	2	737	1	81	2	2,428	3,076	5	20	26
Bahamas	0	—	10	12	0	5,410	5,410	—	45	45
Bahrain	0	—	—	1	—	1	1	—	0	0
Belgium	0	1,435	0	1,695	4	4,182	4,309	1	35	36
Belize	—	—	—	5	—	380	380	—	3	3
Brazil	3	5,366	—	1,904	2	49,838	54,110	36	415	451
Canada	330	2,016	468	1,007	32	62,250	121,696	495	519	1,014
Cayman Islands	—	—	2	5	—	919	919	—	8	8
Chile	1	1	172	336	0	17,333	20,122	23	144	168
China	9	3,936	4	82	2	7,149	16,253	76	60	135
Colombia	1	238	2	406	1	14,242	16,881	22	119	141
Costa Rica	0	181	155	51	0	6,301	6,301	—	53	53
Denmark	—	345	—	0	—	345	2,660	19	3	22
Dominican Republic	1	727	391	72	0	15,483	16,981	12	129	142
Ecuador	0	914	0	352	0	14,636	14,636	—	122	122
Egypt	—	851	100	77	—	3,008	3,008	—	25	25
El Salvador	0	180	0	101	—	5,138	5,138	—	43	43
Finland	—	293	0	3	—	297	297	—	2	2
France	1	632	—	95	—	9,883	14,865	42	82	124
Germany	5	275	2	13	0	444	4,056	30	4	34
Ghana	—	—	0	1	—	3	3	—	0	0
Gibraltar	—	—	—	—	—	3,798	3,798	—	32	32
Greece	—	426	—	1	—	427	875	4	4	7
Guatemala	0	1,745	—	77	—	14,753	14,753	—	123	123
Honduras	0	522	128	60	—	9,159	9,159	—	76	76
Hong Kong	1	—	0	9	0	11	11	—	0	0
India	3	14,781	4	473	1	30,358	66,130	298	253	551
Indonesia	0	0	4	109	0	10,100	10,730	5	84	89
Ireland	—	231	—	0	—	231	5,165	41	2	43
Israel	0	625	0	64	0	1,033	1,033	—	9	9
Italy	1	2,159	0	29	—	2,489	13,980	96	21	116
Jamaica	0	—	0	30	0	5,293	5,293	—	44	44
Japan	15	7,173	3	33	14	53,540	62,115	71	446	518
Korea, South	1	650	3	12	1	13,781	56,196	353	115	468
Lebanon	—	390	—	2	—	2,290	2,290	—	19	19
Mexico	68	6,293	1,422	4,389	106	148,865	148,865	—	1,241	1,241
Montenegro	—	—	—	—	—	—	—	—	—	—
Morocco	—	1,873	1	0	—	7,406	7,406	—	62	62
Mozambique	—	292	—	—	—	292	292	—	2	2
Netherlands	8	1,396	7	333	1	19,989	56,665	306	167	472
New Zealand	0	121	—	3	—	127	127	—	1	1
Nicaragua	—	—	—	17	—	1,607	2,802	10	13	23
Nigeria	—	—	33	392	—	950	950	—	8	8
Norway	—	385	—	2	—	4,250	8,075	32	35	67
Pakistan	1	0	—	0	0	1	1	—	0	0
Panama	0	271	110	78	0	15,010	21,503	54	125	179
Peru	0	368	0	240	0	12,898	14,098	10	107	117
Philippines	0	0	0	7	1	1,128	1,128	—	9	9
Portugal	0	212	—	0	—	1,468	1,468	—	12	12
Puerto Rico	0	0	24	50	—	215	215	—	2	2
Romania	0	931	—	1	0	932	932	—	8	8
Saudi Arabia	0	98	0	21	0	242	242	—	2	2
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	0	148	71	0	6,711	15,712	75	56	131
South Africa	0	269	0	231	—	627	952	3	5	8
Spain	1	1,350	0	9	0	8,114	10,981	24	68	92
Switzerland	0	—	—	0	—	528	528	—	4	4
Taiwan	1	0	1	21	1	4,582	24,961	170	38	208
Thailand	0	122	1	16	1	141	16,765	139	1	140
Trinidad and Tobago	0	0	0	31	0	2,627	2,627	—	22	22
Turkey	0	4,764	—	54	—	6,703	6,703	—	56	56
United Arab Emirates	0	772	1	279	0	1,132	6,570	45	9	55
United Kingdom	1	636	1	7	0	11,826	38,595	223	99	322
Venezuela	—	18	—	20	—	4,374	4,374	—	36	36
Other	9	3,419	93	253	6	22,987	28,507	47	192	237
Total	464	70,502	3,293	13,903	175	658,381	990,404	2,767	5,487	8,253

— = 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, April 2019
(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	1,312	-52	-	133	-	-9	-9	0	8	8
Algeria	35	-	-	91	-	-	-	-	-	-
Angola	32	-	-	11	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Ecuador	128	-41	-	0	-	-9	-9	-	-9	-9
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	265	-	-	0	-	-	-	-	-	-
Kuwait	61	-	-	-	-	-	-	-	-	-
Libya	78	-	-	10	-	-	-	-	-	-
Nigeria	131	-12	-	-	-	-	-	-	6	6
Saudi Arabia	569	0	-	4	-	-	-	-	11	11
United Arab Emirates	-99	-	-	18	-	-	-	-	-	-
Venezuela	114	0	-	-	-	0	0	0	-	0
Non-OPEC	2,870	-1,620	22	385	-	-591	-591	116	654	770
Argentina	34	1	-	-13	-	-10	-10	-	2	2
Aruba	-	-	-	-	-	0	0	-	-	-
Australia	-22	-19	-	0	-	0	0	-	-	-
Bahamas	-	-1	-	0	-	-3	-3	-	0	0
Bahrain	-	-	-	0	-	-	-	-	-	-
Belgium	-	0	-	52	-	3	3	0	18	18
Brazil	24	-96	-	-8	-	-43	-43	-	38	38
Brunei	-	-	-	-5	-	-	-	-	-	-
Cameroon	22	-	-	10	-	-	-	-	-	-
Canada	3,292	-83	19	-39	-	0	0	73	54	127
Chad	-	-	-	-	-	-	-	-	-	-
China	-62	0	-	0	-	0	0	-	5	5
Colombia	348	-1	-	-48	-	-11	-11	0	18	18
Denmark	-20	-	-	-	-	-	-	-	-	-
Dominican Republic	-17	-53	-	-	-	-8	-8	-	0	0
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	19	19
France	-	-22	-	3	-	20	20	-	4	4
Germany	-21	-4	-	16	-	0	0	0	-	0
Guatemala	-	-14	-	0	-	-32	-32	0	-8	-8
Honduras	-	-2	-	-	-	-11	-11	-	-	-
India	-392	-93	-	4	-	-	-	-	131	131
Indonesia	-21	-169	-	0	-	-	-	-	-	-
Italy	-38	-	-	5	-	-	-	-	44	44
Japan	-66	-364	-	-3	-	10	10	0	10	10
Korea, South	-356	-71	-	-1	-	0	0	0	10	10
Latvia	-	-	-	0	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	0	0	-	-	-
Mexico	652	-130	-	-13	-	-436	-436	-1	-27	-28
Netherlands	-305	-66	-	12	-	9	9	11	71	83
Norway	29	-17	-	26	-	1	1	0	33	33
Oman	-	-	-	0	-	-	-	-	-	-
Panama	-132	0	-	-	-	-22	-22	-	0	0
Portugal	-	-33	-	-	-	-	-	-	49	49
Puerto Rico	-	-1	-	0	-	0	0	-	0	0
Qatar	-	-	-	-	-	-	-	-	-	-
Russia	182	-	-	308	-	0	0	-	35	35
Spain	-33	-35	-	6	-	-	-	-	84	84
Sweden	-	-29	-	31	-	-	-	-	11	11
Trinidad and Tobago	33	0	-	0	-	0	0	-	-	-
United Kingdom	-42	-92	-	0	-	14	14	32	23	55
Vietnam	-	-	-	0	-	-	-	-	-	-
Virgin Islands, U.S.	-	-11	-	-	-	0	0	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-219	-215	3	42	-	-72	-72	1	30	30
Total	4,182	-1,672	22	519	-	-601	-601	116	662	778
Persian Gulf²	795	0	-	22	-	-	-	-	11	11

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, April 2019
(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	-	-	-	-35	-9	-	-	-44
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	0	-	-	-	-35	-9	-	-	-44
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-3	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-1	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	0	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-30	-16	-104	1	14	-	-994	-121	-129	2	-1,243
Argentina	-	-	-	-	-	-	-37	-	-	-	-37
Aruba	-	-	0	-	-	-	0	-	-	-	0
Australia	0	-	0	-	-	-	-	-	-	-	-
Bahamas	-	-	0	-	-	-	-19	-	-10	-	-29
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	0	-	-	-	-	-	-	-	-
Brazil	-	2	-22	-	-	-	-83	-8	-16	-	-107
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-25	-7	-	-	62	-10	-5	2	49
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	0	-	-	-	0
Colombia	-	-	-4	-	-	-	-23	-	-	-	-23
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-17	-5	-	-	-22
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	0	-	-	-	-	-91	-10	-	-	-101
Germany	-	0	0	8	-	-	0	-	-	-	0
Guatemala	-	-	-	-	-	-	-48	-12	-3	-	-63
Honduras	-	-	-	-	-	-	0	-5	-4	-	-9
India	-	-	-27	-	-	-	0	-	-	-	0
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-18	0	-	-	-	-	-	-	-	-
Korea, South	-	0	-7	-	-	-	-23	-	-	-	-23
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	-	-	-	-	-	-	-	-	-
Mexico	-23	0	-3	0	-	-	-356	-	-2	-	-358
Netherlands	-	0	-6	-1	-	-	0	-	-9	-	-9
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	0	-	-18	-	0
Panama	-	-	-	-	-	-	-49	-1	-18	-	-67
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	-2	-	-	-2
Qatar	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	2	-	-	-12	-8	-	-	-20
Sweden	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-1	-8	-	-	-9
United Kingdom	-	-	0	-	-	-	-47	-	-	-	-47
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-16	-	-16
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-10	-1	14	-	-250	-52	-46	0	-350
Total	-30	-16	-109	1	14	-	-1,029	-130	-129	2	-1,287
Persian Gulf²	-	-	-1	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, April 2019
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	0	-	-14	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-14	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	0	-	-
Nigeria	-	-	-	-	-	-	-	-
Saudi Arabia	0	-	-	0	-	-	-	-
United Arab Emirates	0	-	-	-	-	1	-	-
Venezuela	-	-	-	0	-	0	-	-
Non-OPEC	3	0	-	0	13	-231	14	4
Argentina	-	-	-	-3	-	15	-	-
Aruba	0	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-3	-	2	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	-	-	-	-2	1	-4	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	0	0	-	-22	3	-9	3	3
Chad	-	-	-	-	-	-	-	-
China	0	-	-	-	-	0	-	-
Colombia	3	-	-	-	-	23	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-12	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	1
Germany	-	-	-	-	-	0	-	-
Guatemala	-	-	-	-5	-	-1	-	-
Honduras	0	-	-	-1	-	-15	-	-
India	-	-	-	2	1	0	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	1	-
Japan	0	-	-	20	3	-	1	-
Korea, South	-	-	-	140	3	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-60	2	-84	5	-
Netherlands	-	-	-	-	-	-53	-	-
Norway	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-21	-	-37	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	0	-	-	-	-
Qatar	-	-	-	-	-	-	-	-
Russia	-	-	-	0	-	35	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Trinidad and Tobago	0	-	-	0	-	-	-	-
United Kingdom	-	-	-	0	-	-	2	-
Vietnam	-	-	-	0	-	0	-	-
Virgin Islands, U.S.	-	-	-	-11	-	-14	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-22	0	-89	2	0
Total	3	0	-	0	13	-245	14	4
Persian Gulf²	0	-	-	0	-	1	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, April 2019
(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	-10	0	-2	-	7	1,319
Algeria	-	-	-	0	-	91	125
Angola	-	-	-	0	-	11	43
Congo (Brazzaville)	-	-	-	-	-	-	-
Ecuador	0	-6	-	-2	-	-124	5
Equatorial Guinea	-	-	-	0	-	0	0
Gabon	-	-	-	0	-	0	0
Iran	-	-	-	-	-	-	-
Iraq	-	-	-	0	-	0	265
Kuwait	-	-	0	0	-	0	60
Libya	-	-	-	0	-	10	88
Nigeria	-	-	0	-3	-	-11	120
Saudi Arabia	0	0	0	0	-	13	582
United Arab Emirates	0	-4	0	3	-	18	-81
Venezuela	-	0	-	0	-	-1	114
Non-OPEC	1	-535	15	-42	-1	-3,172	-302
Argentina	0	5	0	-1	-	-43	-10
Aruba	-	-	0	0	-	0	0
Australia	0	-9	0	-1	0	-29	-51
Bahamas	-	-	0	0	0	-34	-34
Bahrain	-	-	-	4	-	4	4
Belgium	0	-18	0	-14	0	42	42
Brazil	0	-40	-	-9	0	-291	-266
Brunei	-	-	-	0	-	-5	-5
Cameroon	-	-	-	-	-	10	32
Canada	-1	-35	27	-2	0	8	3,300
Chad	-	-	-	0	0	0	0
China	1	-12	0	-1	0	-6	-69
Colombia	0	-	1	-3	0	-45	303
Denmark	-	-	-	-	-	-	-20
Dominican Republic	0	-12	-2	-1	-	-111	-128
Estonia	-	-	-	-	-	-	-
Finland	-	-	-	0	-	19	19
France	0	-6	-	0	-	-100	-100
Germany	1	0	0	1	-	22	2
Guatemala	0	-16	-	-1	-	-139	-139
Honduras	0	-8	-1	0	-	-49	-49
India	0	-85	0	-2	0	-68	-460
Indonesia	0	0	0	1	-	-168	-189
Italy	0	-32	-	0	-	18	-20
Japan	0	-93	0	0	0	-434	-500
Korea, South	0	0	2	8	0	61	-295
Latvia	-	-	-	0	0	0	0
Lithuania	-	0	-	0	-	0	0
Malaysia	0	-	-	0	0	0	0
Mexico	0	-31	-8	-35	-1	-1,203	-552
Netherlands	0	-9	0	-3	0	-45	-349
Norway	-	-1	-	0	-	42	71
Oman	-	5	-	0	-	5	5
Panama	-	-	-1	-1	-	-150	-282
Portugal	-	-	-	-	-	17	17
Puerto Rico	0	-	0	0	-	-3	-3
Qatar	-	0	-	12	-	12	12
Russia	0	-	-	6	-	384	566
Spain	0	-14	6	0	-	29	-4
Sweden	-	-1	-	0	0	12	12
Trinidad and Tobago	-	0	-	0	-	-9	25
United Kingdom	0	-1	0	1	-	-69	-111
Vietnam	-	-	0	0	-	0	0
Virgin Islands, U.S.	-	-	0	0	-	-50	-50
Yemen	-	-	-	0	-	0	0
Other	0	-122	-9	-1	0	-806	-1,026
Total	1	-545	15	-44	-1	-3,165	1,017
Persian Gulf²	0	-4	0	19	-	47	842

- = 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-April 2019
(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	1,652	-42	-	91	-	-38	-38	0	27	27
Algeria	31	-	-	72	-	-	-	-	-	-
Angola	13	-	-	3	-	-	-	-	-	-
Congo (Brazzaville)	31	-	-	-	-	-	-	-	-	-
Ecuador	162	-36	-	0	-	-27	-27	-	-7	-7
Equatorial Guinea	8	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	347	-	-	0	-	-	-	-	-	-
Kuwait	78	-	-	-	-	0	0	-	-	-
Libya	48	-	-	4	-	-	-	-	-	-
Nigeria	113	-3	-	3	-	-	-	-	7	7
Saudi Arabia	626	0	-	8	-	1	1	-	16	16
United Arab Emirates	-45	0	-	16	-	0	0	0	-	0
Venezuela	242	-2	-	-17	-	-12	-12	0	11	11
Non-OPEC	2,578	-1,384	19	198	-	-728	-728	161	329	489
Argentina	36	1	-	-10	-	-7	-7	-	4	4
Aruba	-	0	-	0	-	-1	-1	-	-	-
Australia	-5	-10	-	2	-	-4	-4	0	-	0
Bahamas	-	-1	-	0	-	-2	-2	0	0	0
Bahrain	-	-	-	0	-	-	-	-	-	-
Belgium	-1	-6	-	50	-	1	1	0	7	7
Brazil	37	-49	-	-16	-	-53	-53	-	38	38
Brunei	12	-	-	-3	-	-	-	-	-	-
Cameroon	5	-	-	4	-	-	-	-	-	-
Canada	3,308	-47	17	-36	-	-5	-5	87	34	120
Chad	8	-	-	-	-	-	-	-	-	-
China	-76	-11	-	-12	-	0	0	-	1	1
Colombia	347	-1	-	-36	-	-19	-19	0	10	10
Denmark	-7	0	-	-	-	-	-	0	1	1
Dominican Republic	-12	-55	-	-10	-	-13	-13	0	-1	-1
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	0	-	0	0	-	14	14
France	-42	-21	-	2	-	19	19	-	7	7
Germany	-30	-1	-	9	-	0	0	0	0	0
Guatemala	5	-15	-	0	-	-35	-35	0	-6	-6
Honduras	-	-11	-	0	-	-22	-22	-	-5	-5
India	-298	-109	-	5	-	0	0	0	59	59
Indonesia	-5	-83	-	0	-	-	-	-	4	4
Italy	-96	-2	-	7	-	1	1	-	20	20
Japan	-71	-343	-	-14	-	3	3	0	11	11
Korea, South	-353	-88	-	-7	-	6	6	0	6	6
Latvia	-	-	-	0	-	0	0	-	1	1
Lithuania	-5	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	2	-	0	0	-	-	-
Mexico	630	-147	1	-12	-	-489	-489	0	-44	-44
Netherlands	-306	-45	-	-2	-	0	0	38	25	64
Norway	13	-26	-	23	-	1	1	0	12	12
Oman	-	-	-	-3	-	-	-	-	-	-
Panama	-54	0	-	0	-	-24	-24	-	-1	-1
Portugal	-	-10	-	-	-	-	-	-	33	33
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Qatar	-	-	-	0	-	0	0	-	-	-
Russia	117	-	-	197	-	2	2	-	27	27
Spain	-24	-41	-	13	-	-4	-4	-	32	32
Sweden	-	-11	-	11	-	1	1	-	3	3
Trinidad and Tobago	41	0	-	0	-	-2	-2	-	-2	-2
United Kingdom	-174	-53	-	5	-	9	9	37	15	52
Vietnam	-12	-	-	0	-	0	0	-	-	-
Virgin Islands, U.S.	-	-9	-	-	-	-3	-3	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-410	-190	1	29	-	-88	-88	-1	24	22
Total	4,230	-1,426	19	289	-	-767	-767	161	356	517
Persian Gulf²	1,005	0	-	24	-	1	1	0	16	16

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-April 2019
(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	-2	0	-3	-	-	-	-3	-13	-	-	-16
Algeria	-	-	-	-	-	-	-	-2	-	-	-2
Angola	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	0	0	-	-	-	-18	-11	-	-	-29
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	0	-	-	-	0
Nigeria	-	-	-1	-	-	-	3	-	-	-	3
Saudi Arabia	-	0	-1	-	-	-	10	-	-	-	10
United Arab Emirates	-	-	-1	-	-	-	2	-	-	-	2
Venezuela	-2	-	-	-	-	-	0	-	-	-	0
Non-OPEC	-30	-22	-98	6	14	-	-744	-116	-132	1	-991
Argentina	1	-	0	0	-	-	-25	-	-1	-	-26
Aruba	-	-	0	-	-	-	-1	-	-	-	-1
Australia	0	0	0	-	-	-	0	-	-	-	0
Bahamas	-	0	0	-	-	-	-9	-	-9	-	-18
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	0	0	0	1	-	-	-	-	-	-	-
Brazil	-	1	-31	0	-	-	-145	-9	-18	-	-172
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	0	-	-	-	0
Canada	-	0	-18	-1	-	-	107	-10	1	1	99
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	2	-2	-	-	0
Colombia	-	-	-4	-	-	-	-23	-	-	-	-23
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-9	-11	-7	-	-26
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	0	-	-	-	-	-	-	-	-
France	-	0	0	1	-	-	-49	-5	-	-	-54
Germany	0	0	0	4	-	-	0	-	-	-	0
Guatemala	-	-	-	-	-	-	-19	-23	-3	-	-44
Honduras	-	0	-	-	-	-	-9	-7	-5	-	-22
India	0	0	-16	0	-	-	54	-	-	-	54
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	0	-	-	-	-1	-	-	-	-1
Japan	-	-24	0	-	-	-	0	0	-	-	0
Korea, South	-	0	-7	1	-	-	-5	-	-	-	-5
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	0	0	-	-	-	0	-	0	-	0
Mexico	-23	0	-2	0	-	-	-292	-4	-3	-	-299
Netherlands	-	0	-2	-1	-	-	-28	-	-16	-	-44
Norway	0	-	0	-	-	-	-2	-	-	-	-2
Oman	-	-	-2	-	-	-	0	-	-	-	0
Panama	-	-	0	-	-	-	-31	-5	-14	-	-49
Portugal	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	0	0	-	-	-	0	-1	-	-	-1
Qatar	-	-	-	-	-	-	17	-	-	-	17
Russia	-	0	0	-	-	-	3	2	-	-	5
Spain	-	-	-1	1	-	-	-8	-2	-	-	-10
Sweden	-	-	0	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	0	-	-	-	-3	-7	-2	-	-11
United Kingdom	-	0	0	-	-	-	-33	-	-	-	-33
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-4	-	-7	-	-11
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-8	1	-15	0	14	-	-231	-32	-48	0	-314
Total	-32	-22	-101	6	14	-	-747	-129	-132	1	-1,008
Persian Gulf²	-	0	-2	-	-	-	29	-	-	-	29

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-April 2019
(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	-	-	7	-	13	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-
Ecuador	0	-	-	0	-	-12	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	-	-	-
Kuwait	-	-	-	1	-	-	-	-
Libya	-	-	-	0	-	0	-	-
Nigeria	-	-	-	0	-	-	-	-
Saudi Arabia	0	-	-	5	-	6	-	-
United Arab Emirates	0	-	-	-	-	0	-	-
Venezuela	-	-	-	1	-	20	-	-
Non-OPEC	-2	1	-	-69	12	-133	14	4
Argentina	-	-	-	-2	-	9	-	-
Aruba	0	-	-	-2	-	-	-	-
Australia	-	-	-	-	-	0	-	-
Bahamas	-	-	-	-2	-	-12	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	0	-	-	-4	2	-3	-	0
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	-2	0	-	-21	2	-1	3	3
Chad	-	-	-	-	-	-	-	-
China	0	-	-	2	-	0	-	-
Colombia	1	-	-	-1	-	12	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	0	-	-	-11	-	-2	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	1
Germany	-	-	-	-	-	0	-	-
Guatemala	0	-	-	-6	-	-2	-	-
Honduras	0	-	-	-2	-	-9	-	-
India	-	-	-	2	2	-1	-	-
Indonesia	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	0	-
Japan	0	-	-	8	3	-1	2	0
Korea, South	-	-	-	87	3	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	0	-	-	-	-	-	-	-
Malaysia	0	-	-	-	-	-	-	-
Mexico	-1	-	-	-55	1	-33	6	-
Netherlands	-	1	-	-	-	-28	-	-
Norway	-	-	-	-	-	2	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-14	-	-29	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Qatar	0	-	-	4	-	-	-	-
Russia	-	-	-	0	-	19	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	2	-	-
Trinidad and Tobago	0	-	-	-6	-	-	-	-
United Kingdom	0	-	-	-3	-	-3	2	-
Vietnam	-	-	-	0	-	0	-	-
Virgin Islands, U.S.	-	-	-	-10	-	-5	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-33	-1	-48	1	0
Total	-2	1	-	-62	12	-120	14	4
Persian Gulf²	0	-	-	10	-	6	-	-

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-April 2019
(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	-15	0	-6	0	16	1,669
Algeria	-	-	0	0	-	71	102
Angola	-	-	0	0	-	3	15
Congo (Brazzaville)	-	-	-	-	-	-	33
Ecuador	0	-8	0	-3	0	-122	40
Equatorial Guinea	-	-	-	0	-	0	8
Gabon	-	-	0	0	-	0	0
Iran	-	-	-	-	-	-	-
Iraq	-	-	0	0	-	0	347
Kuwait	-	0	0	0	-	1	79
Libya	-	-	-	0	-	4	52
Nigeria	-	-	0	-3	-	5	117
Saudi Arabia	0	-1	0	0	0	44	670
United Arab Emirates	0	-6	0	0	0	11	-34
Venezuela	-	0	0	0	-	-2	241
Non-OPEC	1	-566	9	-64	-1	-3,323	-745
Argentina	0	2	0	-1	0	-30	6
Aruba	-	-	0	0	-	-4	-4
Australia	0	-6	0	-1	0	-19	-24
Bahamas	0	-	0	0	0	-36	-36
Bahrain	0	-	-	2	-	2	2
Belgium	0	-12	0	-14	0	27	26
Brazil	0	-45	-	-16	0	-349	-312
Brunei	-	-	-	0	-	-3	9
Cameroon	-	-	-	0	-	4	10
Canada	-1	-15	26	-1	0	123	3,431
Chad	-	-	-	0	-	0	8
China	2	-33	0	-1	0	-52	-128
Colombia	0	-2	0	-3	0	-67	280
Denmark	-	-3	-	0	-	-2	-9
Dominican Republic	0	-6	-3	-1	0	-128	-141
Estonia	-	-	-	0	-	0	0
Finland	-	-2	0	0	-	12	12
France	0	-5	-	0	-	-51	-93
Germany	0	-2	0	1	0	11	-19
Guatemala	0	-15	-	-1	-	-123	-118
Honduras	0	-4	-1	0	-	-76	-76
India	0	-123	0	-4	0	-131	-430
Indonesia	0	0	0	1	0	-78	-83
Italy	0	-18	0	1	-	8	-88
Japan	0	-60	0	0	0	-416	-487
Korea, South	0	-5	1	12	0	4	-350
Latvia	-	-	-	0	0	1	1
Lithuania	-	0	-	0	-	0	-5
Malaysia	0	-5	1	0	0	-2	-2
Mexico	-1	-52	-12	-37	-1	-1,201	-572
Netherlands	0	-12	0	-3	0	-74	-379
Norway	-	-3	-	0	-	7	20
Oman	-	1	0	0	-	-4	-4
Panama	0	-2	-1	-1	0	-120	-174
Portugal	0	-2	-	0	-	21	21
Puerto Rico	0	0	0	0	-	-2	-2
Qatar	0	-1	0	11	-	31	31
Russia	0	-	0	2	-	252	369
Spain	0	-11	4	0	0	-17	-41
Sweden	0	-1	-	0	0	5	5
Trinidad and Tobago	0	0	0	0	0	-22	19
United Kingdom	0	-5	0	1	0	-29	-203
Vietnam	0	0	0	0	-	0	-12
Virgin Islands, U.S.	-	-	0	0	-	-38	-38
Yemen	-	-	-	0	-	0	0
Other	1	-119	-6	-11	0	-757	-1,165
Total	1	-581	9	-71	-1	-3,307	923
Persian Gulf²	0	-8	0	13	0	90	1,094

- = 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, April 2019
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	12,654	136,772	890,989	23,920	53,082	1,117,417
Refinery	10,549	13,674	50,231	2,722	23,018	100,194
Tank Farms and Pipelines (Includes Cushing, OK)	2,105	123,098	192,170	21,198	25,117	363,688
Cushing, Oklahoma	-	45,864	-	-	-	45,864
Leases	-	-	-	-	-	-
Strategic Petroleum Reserve ¹	-	-	648,588	-	-	648,588
Alaskan In Transit	-	-	-	-	4,947	4,947
Total Stocks, All Oils (excluding Crude Oil)²	148,569	174,638	367,156	20,466	87,641	798,469
Refinery	17,476	50,277	125,917	10,405	49,061	253,136
Bulk Terminal	102,447	87,323	186,227	5,894	33,260	415,150
Pipeline	28,381	35,652	52,174	3,953	5,092	125,252
Natural Gas Processing Plant	265	1,386	2,838	214	228	4,931
Natural Gas Liquids	6,099	37,038	122,245	3,051	2,472	170,905
Refinery	537	2,718	6,223	376	1,079	10,933
Bulk Terminal	3,716	18,666	96,565	369	1,165	120,481
Pipeline	1,581	14,268	16,619	2,092	-	34,560
Natural Gas Processing Plant	265	1,386	2,838	214	228	4,931
Ethane	550	4,932	46,113	494	-	52,089
Refinery	-	-	242	-	-	242
Bulk Terminal	325	1,715	39,288	-	-	41,328
Pipeline	225	3,062	6,317	488	-	10,092
Natural Gas Processing Plant	-	155	266	6	-	427
Propane	3,467	11,758	36,191	1,080	467	52,963
Refinery	84	592	818	62	121	1,677
Bulk Terminal	2,160	7,392	29,772	96	310	39,730
Pipeline	1,097	3,092	5,262	825	-	10,276
Natural Gas Processing Plant	126	682	339	97	36	1,280
Normal Butane	1,615	8,738	23,770	823	1,467	36,413
Refinery	306	1,200	3,183	210	487	5,386
Bulk Terminal	1,058	6,464	17,298	256	850	25,926
Pipeline	196	855	2,052	314	-	3,417
Natural Gas Processing Plant	55	219	1,237	43	130	1,684
Isobutane	195	2,438	7,737	267	486	11,123
Refinery	147	472	1,521	80	470	2,690
Bulk Terminal	-	1,235	5,185	-	-	6,420
Pipeline	32	587	785	169	-	1,573
Natural Gas Processing Plant	16	144	246	18	16	440
Natural Gasoline	272	9,172	8,434	387	52	18,317
Refinery	-	454	459	24	1	938
Bulk Terminal	173	1,860	5,022	17	5	7,077
Pipeline	31	6,672	2,203	296	-	9,202
Natural Gas Processing Plant	68	186	750	50	46	1,100
Refinery Olefins	179	413	7,719	40	65	8,416
Refinery	179	396	1,938	40	65	2,618
Bulk Terminal	-	17	5,781	-	-	5,798
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Ethylene	-	-	0	-	-	0
Refinery	-	-	0	-	-	0
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Propylene	94	370	7,074	1	5	7,544
Refinery	94	353	1,293	1	5	1,746
Bulk Terminal	-	17	5,781	-	-	5,798
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Normal Butylene	9	43	645	39	60	796
Refinery	9	43	645	39	60	796
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Isobutylene	76	0	0	0	0	76
Refinery	76	0	0	0	0	76
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Natural Gas Processing Plant	-	-	-	-	-	-
Other Hydrocarbons	-	33	-	-	-	33
Refinery	-	33	-	-	-	33
Oxygenates (excluding Fuel Ethanol)	-	3	2,153	-	-	2,156
Refinery	-	-	-	-	-	-
Bulk Terminal	-	3	2,153	-	-	2,156
Pipeline	-	-	-	-	-	-

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, April 2019
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
MTBE	—	—	1,808	—	—	1,808
Refinery	—	—	—	—	—	—
Bulk Terminal ³	—	—	1,808	—	—	1,808
Pipeline	—	—	—	—	—	—
Other Oxygenates⁴	—	3	345	—	—	348
Refinery	—	—	—	—	—	—
Bulk Terminal	—	3	345	—	—	348
Pipeline	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,458	9,571	6,659	463	4,411	30,561
Refinery	247	126	456	224	346	1,399
Bulk Terminal	9,211	9,445	6,203	235	4,065	29,158
Pipeline	—	—	—	4	—	4
Fuel Ethanol²	7,452	8,502	4,480	382	2,402	23,218
Refinery	243	88	170	146	30	677
Bulk Terminal	7,209	8,414	4,310	232	2,372	22,537
Pipeline	—	—	—	4	—	4
Renewable Diesel Fuel⁵	2,006	1,069	2,179	81	1,965	7,299
Refinery	4	38	286	78	316	722
Bulk Terminal	2,002	1,031	1,893	3	1,649	6,577
Pipeline	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	44	44
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	44	44
Pipeline	—	—	—	—	—	—
Unfinished Oils	6,064	14,284	51,547	3,520	20,692	96,107
Naphthas and Lighter	1,373	4,091	11,835	896	3,629	21,824
Refinery	1,373	4,073	10,518	896	3,307	20,167
Bulk Terminal	—	18	1,317	—	322	1,657
Kerosene and Light Gas Oils	1,010	2,710	9,613	599	4,028	17,960
Refinery	1,010	2,710	6,962	599	3,835	15,116
Bulk Terminal	—	—	2,651	—	193	2,844
Heavy Gas Oils	2,882	4,993	24,836	1,538	10,214	44,463
Refinery	2,145	4,856	20,674	1,538	9,756	38,969
Bulk Terminal	737	137	4,162	—	458	5,494
Residuum	799	2,490	5,263	487	2,821	11,860
Refinery	799	2,200	5,204	487	2,792	11,482
Bulk Terminal	—	290	59	—	29	378
Motor Gasoline Blending Components²	57,079	45,247	75,474	4,903	26,001	208,704
Refinery	5,551	14,215	29,395	2,713	13,098	64,972
Bulk Terminal	39,765	21,467	28,014	1,368	10,462	101,076
Pipeline	11,763	9,565	18,065	822	2,441	42,656
Reformulated - RBOB	18,559	6,108	11,575	—	12,371	48,613
Refinery	1,384	1,234	2,069	—	5,006	9,693
Bulk Terminal	13,360	3,116	4,677	—	5,819	26,972
Pipeline	3,815	1,758	4,829	—	1,546	11,948
Conventional	38,520	39,139	63,899	4,903	13,630	160,091
Refinery	4,167	12,981	27,326	2,713	8,092	55,279
Bulk Terminal	26,405	18,351	23,337	1,368	4,643	74,104
Pipeline	7,948	7,807	13,236	822	895	30,708
CBOB	25,106	30,322	33,811	3,579	6,992	99,810
Refinery	782	5,706	11,264	1,392	2,159	21,303
Bulk Terminal	16,376	17,051	9,713	1,365	3,939	48,444
Pipeline	7,948	7,565	12,834	822	894	30,063
GTAB	463	—	1	—	—	464
Refinery	—	—	1	—	—	1
Bulk Terminal	463	—	—	—	—	463
Pipeline	—	—	—	—	—	—
Other	12,951	8,817	30,087	1,324	6,638	59,817
Refinery	3,385	7,275	16,061	1,321	5,933	33,975
Bulk Terminal	9,566	1,300	13,624	3	704	25,197
Pipeline	—	242	402	—	1	645
Aviation Gasoline Blending Components	—	—	30	—	—	30
Refinery	—	—	30	—	—	30
Bulk Terminal	—	—	—	—	—	—
Finished Motor Gasoline	3,660	5,822	8,521	1,613	1,928	21,544
Refinery	22	1,242	2,494	727	650	5,135
Bulk Terminal	1,415	2,558	3,718	688	1,119	9,498
Pipeline	2,223	2,022	2,309	198	159	6,911
Reformulated	21	—	—	—	18	39
Refinery	—	—	—	—	18	18
Bulk Terminal	21	—	—	—	—	21
Pipeline	—	—	—	—	—	—
Reformulated (Blended with Fuel Ethanol)	21	—	—	—	18	39
Refinery	—	—	—	—	18	18
Bulk Terminal	21	—	—	—	—	21
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, April 2019
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Reformulated (Other)	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional	3,639	5,822	8,521	1,613	1,910	21,505
Refinery	22	1,242	2,494	727	632	5,117
Bulk Terminal	1,394	2,558	3,718	688	1,119	9,477
Pipeline	2,223	2,022	2,309	198	159	6,911
Conventional (Blended with Fuel Ethanol)	50	186	—	63	—	299
Refinery	—	—	—	61	—	61
Bulk Terminal	50	186	—	2	—	238
Pipeline	—	—	—	—	—	—
Ed55 and Lower	50	186	—	63	—	299
Refinery	—	—	—	61	—	61
Bulk Terminal	50	186	—	2	—	238
Pipeline	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional (Other)	3,589	5,636	8,521	1,550	1,910	21,206
Refinery	22	1,242	2,494	666	632	5,056
Bulk Terminal	1,344	2,372	3,718	686	1,119	9,239
Pipeline	2,223	2,022	2,309	198	159	6,911
Finished Aviation Gasoline	137	179	654	8	215	1,193
Refinery	—	75	460	8	144	687
Bulk Terminal	137	104	194	—	71	506
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	8,833	8,337	14,772	731	8,221	40,894
Refinery	540	1,969	6,489	278	3,311	12,587
Bulk Terminal	4,330	3,983	3,385	336	4,142	16,176
Pipeline	3,963	2,385	4,898	117	768	12,131
Kerosene	1,359	158	434	1	16	1,968
Refinery	152	125	133	1	2	413
Bulk Terminal	1,207	33	301	—	14	1,555
Pipeline	—	—	—	—	—	—
Distillate Fuel Oil²	38,433	35,026	38,058	3,560	13,123	128,200
Refinery	2,547	7,337	14,337	1,565	5,223	31,009
Bulk Terminal	27,035	20,277	13,438	1,275	6,182	68,207
Pipeline	8,851	7,412	10,283	720	1,718	28,984
15 ppm sulfur and Under	32,347	34,045	31,203	3,355	12,249	113,199
Refinery	1,763	6,724	11,311	1,392	4,743	25,933
Bulk Terminal	22,617	20,109	10,929	1,245	5,891	60,791
Pipeline	7,967	7,212	8,963	718	1,615	26,475
Greater than 15 ppm to 500 ppm sulfur	1,681	482	1,360	142	170	3,835
Refinery	392	160	836	110	170	1,668
Bulk Terminal	1,282	136	383	30	—	1,831
Pipeline	7	186	141	2	—	336
Greater than 500 ppm sulfur	4,405	499	5,495	63	704	11,166
Refinery	392	453	2,190	63	310	3,408
Bulk Terminal	3,136	32	2,126	—	291	5,585
Pipeline	877	14	1,179	—	103	2,173
Residual Fuel Oil⁶	6,422	1,189	15,625	216	4,468	27,920
Refinery	454	954	3,666	216	2,039	7,329
Bulk Terminal	5,968	235	11,959	—	2,423	20,585
Pipeline	—	—	—	—	6	6
Less than 0.31% Sulfur	793	50	1,608	17	119	2,587
Refinery	135	47	199	17	—	398
Bulk Terminal	658	3	1,409	—	119	2,189
0.31% to 1.00% Sulfur	976	228	2,980	3	314	4,501
Refinery	73	123	292	3	187	678
Bulk Terminal	903	105	2,688	—	127	3,823
Greater than 1.00% Percent Sulfur	4,653	911	11,037	196	4,029	20,826
Refinery	246	784	3,175	196	1,852	6,253
Bulk Terminal	4,407	127	7,862	—	2,177	14,573
Petrochemical Feedstocks	114	499	2,572	—	3	3,188
Refinery	114	499	2,572	—	3	3,188
Naphtha for Petrochemical Feedstock Use	114	400	1,839	—	3	2,356
Other Oils for Petrochemical Feedstock Use	—	99	733	—	—	832
Special Naphthas	41	102	1,042	—	33	1,218
Refinery	17	53	1,031	—	33	1,134
Bulk Terminal	24	49	11	—	—	84
Lubricants	1,057	562	8,527	—	920	11,066
Refinery	638	173	5,404	—	676	6,891
Bulk Terminal	419	389	3,123	—	244	4,175
Waxes	366	44	320	—	—	730
Refinery	366	44	320	—	—	730
Petroleum Coke	—	1,957	4,868	105	1,659	8,589
Refinery	—	1,957	4,868	105	1,659	8,589
Asphalt and Road Oil	9,236	14,067	5,589	2,235	3,331	34,458
Refinery	753	4,415	2,396	612	960	9,136
Bulk Terminal	8,483	9,652	3,193	1,623	2,371	25,322

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, April 2019
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Miscellaneous Products	32	107	347	20	83	589
Refinery	32	107	347	20	83	589
Bulk Terminal	-	-	-	-	-	-
Pipeline	-	-	-	-	-	-
Total Stocks, All Oils	161,223	311,410	1,258,145	44,386	140,723	1,915,886

- = 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, April 2019
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	21	1,416	1,437	14,744	30,572	45,316	1,359
Connecticut	—	—	—	919	39	958	14
Delaware	—	—	—	510	692	1,202	137
District of Columbia	—	—	—	—	—	—	—
Florida	—	517	517	—	5,652	5,652	—
Georgia	—	303	303	—	2,036	2,036	—
Maine	—	—	—	277	255	532	59
Maryland	—	—	—	1,576	98	1,674	59
Massachusetts	3	—	3	1,290	—	1,290	20
New Hampshire	—	—	—	—	—	—	—
New Jersey	—	97	97	5,585	11,696	17,281	426
New York	18	—	18	739	1,644	2,383	359
North Carolina	—	188	188	—	1,985	1,985	132
Pennsylvania	—	19	19	1,698	4,315	6,013	82
Rhode Island	—	—	—	687	—	687	—
South Carolina	—	182	182	—	1,008	1,008	23
Vermont	—	50	50	—	—	—	4
Virginia	—	37	37	1,463	1,059	2,522	44
West Virginia	—	23	23	—	93	93	—
PAD District 2	—	3,800	3,800	4,350	31,332	35,682	158
Illinois	—	288	288	2,228	4,681	6,909	136
Indiana	—	274	274	952	3,996	4,948	—
Iowa	—	164	164	—	1,389	1,389	—
Kansas	—	397	397	—	2,528	2,528	11
Kentucky	—	280	280	357	1,343	1,700	4
Michigan	—	172	172	12	2,711	2,723	—
Minnesota	—	404	404	129	3,005	3,134	—
Missouri	—	155	155	169	580	749	—
Nebraska	—	65	65	—	626	626	—
North Dakota	—	64	64	—	866	866	—
Ohio	—	806	806	3	3,597	3,600	7
Oklahoma	—	395	395	—	2,498	2,498	—
South Dakota	—	51	51	—	464	464	—
Tennessee	—	183	183	—	1,884	1,884	—
Wisconsin	—	102	102	500	1,164	1,664	—
PAD District 3	—	6,212	6,212	6,746	50,663	57,409	434
Alabama	—	139	139	—	1,256	1,256	6
Arkansas	—	179	179	20	848	868	—
Louisiana	—	1,187	1,187	732	12,085	12,817	94
Mississippi	—	1,131	1,131	—	2,119	2,119	—
New Mexico	—	19	19	—	576	576	—
Texas	—	3,557	3,557	5,994	33,779	39,773	334
PAD District 4	—	1,415	1,415	—	4,081	4,081	1
Colorado	—	283	283	—	897	897	—
Idaho	—	249	249	—	152	152	—
Montana	—	335	335	—	1,093	1,093	—
Utah	—	93	93	—	1,191	1,191	1
Wyoming	—	455	455	—	748	748	—
PAD District 5	18	1,751	1,769	10,825	12,735	23,560	16
Alaska	—	889	889	—	—	—	14
Arizona	—	57	57	557	271	828	—
California	18	253	271	10,092	6,245	16,337	2
Hawaii	—	—	—	—	949	949	—
Nevada	—	155	155	22	261	283	—
Oregon	—	65	65	—	1,465	1,465	—
Washington	—	332	332	154	3,544	3,698	—
U.S. Total	39	14,594	14,633	36,665	129,383	166,048	1,968

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, April 2019
(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	24,380	1,674	3,528	29,582	6,422	2,370
Connecticut	1,588	33	92	1,713	11	—
Delaware	366	82	26	474	577	16
District of Columbia	—	—	—	—	—	—
Florida	2,252	81	—	2,333	921	51
Georgia	1,056	—	—	1,056	256	12
Maine	917	1	235	1,153	63	—
Maryland	637	126	—	763	272	—
Massachusetts	899	263	208	1,370	35	—
New Hampshire	283	—	104	387	1	57
New Jersey	6,275	265	1,663	8,203	3,345	47
New York	2,948	91	239	3,278	294	167
North Carolina	1,180	—	3	1,183	—	16
Pennsylvania	3,233	334	604	4,171	479	1,885
Rhode Island	731	78	—	809	—	—
South Carolina	669	—	—	669	63	30
Vermont	32	—	8	40	—	—
Virginia	1,162	285	346	1,793	105	3
West Virginia	152	35	—	187	—	86
PAD District 2	26,833	296	485	27,614	1,189	8,666
Illinois	3,844	—	—	3,844	237	559
Indiana	4,238	—	95	4,333	49	266
Iowa	2,295	1	—	2,296	2	452
Kansas	2,061	—	—	2,061	39	5,408
Kentucky	943	17	—	960	184	158
Michigan	1,676	50	—	1,726	250	835
Minnesota	2,096	—	119	2,215	197	115
Missouri	791	68	3	862	—	71
Nebraska	801	—	—	801	—	177
North Dakota	1,019	—	—	1,020	26	56
Ohio	2,218	—	41	2,259	91	435
Oklahoma	1,923	151	110	2,184	22	75
South Dakota	723	—	—	723	—	28
Tennessee	1,061	—	—	1,061	77	1
Wisconsin	1,144	8	117	1,269	15	30
PAD District 3	22,240	1,219	4,316	27,775	15,625	30,929
Alabama	936	6	71	1,013	494	34
Arkansas	1,117	—	11	1,128	—	30
Louisiana	4,623	586	1,535	6,744	7,638	1,786
Mississippi	1,021	368	135	1,524	51	1,531
New Mexico	307	—	—	307	80	4
Texas	14,236	259	2,564	17,059	7,362	27,544
PAD District 4	2,637	140	63	2,840	216	255
Colorado	459	—	—	459	3	26
Idaho	225	—	—	225	—	—
Montana	885	66	—	951	57	34
Utah	599	25	63	687	56	106
Wyoming	469	49	—	518	100	89
PAD District 5	10,634	170	601	11,405	4,462	467
Alaska	1,075	—	52	1,127	81	4
Arizona	557	—	—	557	—	56
California	5,315	164	170	5,649	2,990	160
Hawaii	186	—	374	560	660	85
Nevada	488	—	5	493	—	—
Oregon	973	—	—	973	11	—
Washington	2,040	6	—	2,046	720	162
U.S. Total	86,724	3,499	8,993	99,216	27,914	42,687

— = 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, April 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	355	47	0	3,930	68,470	6,770	6,257	1,965	29,793
Petroleum Products	17,813	273	0	18,289	39,155	7,773	5,529	97,266	20,732
Natural Gas Liquids	7,884	253	0	3,210	28,431	4,277	564	997	6,402
Ethane	5,940	0	—	0	12,753	650	—	0	872
Propane	1,032	112	0	2,628	9,475	1,994	355	980	745
Normal Butane	336	130	0	395	3,113	870	164	13	259
Isobutane	356	11	0	187	1,102	317	45	4	370
Natural Gasoline	220	0	—	0	1,988	446	—	0	4,156
Refinery Olefins	0	0	—	297	310	—	—	0	0
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	0	0	—	297	310	—	—	0	0
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	30	0	—	0	404	—	—	0	400
Motor Gasoline Blending Components	6,693	0	0	1,385	1,647	1,169	0	49,919	7,326
Reformulated - RBOB	0	0	0	106	164	—	0	6,136	2,663
Conventional	6,693	0	0	1,279	1,483	1,169	0	43,783	4,663
CBOB	6,693	0	0	1,279	1,372	1,169	0	43,746	3,774
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	111	—	—	37	889
Renewable Fuels	0	0	0	10,616	5,861	490	4,699	377	0
Fuel Ethanol	0	0	0	10,410	5,519	435	4,444	377	0
Renewable Diesel Fuel ²	0	0	0	207	343	54	255	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	111	0	0	306	227	319	0	5,306	975
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	111	0	0	306	227	319	0	5,306	975
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	111	0	0	306	227	319	0	5,306	975
Finished Aviation Gasoline	0	0	—	0	0	—	—	98	10
Kerosene-Type Jet Fuel	316	0	0	156	0	848	0	15,286	1,661
Kerosene	—	0	—	0	0	—	—	92	—
Distillate Fuel Oil	2,694	0	0	1,079	831	650	0	24,270	3,600
15 ppm sulfur and under	2,694	0	0	1,079	831	650	0	22,596	3,507
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	1	93
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	1,673	—
Residual Fuel Oil	0	0	—	—	571	—	—	—	0
Petrochemical Feedstocks	0	0	—	—	122	—	—	—	20
Naphtha for Petrochemical Feedstock Use	0	0	—	—	98	—	—	—	0
Other Oils for Petrochemical Feedstock Use	0	0	—	—	24	—	—	—	20
Special Naphthas	0	0	—	—	0	—	—	—	39
Lubricants	0	0	—	20	0	—	—	500	145
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	739	366	0	0	0	0
Asphalt and Road Oil	85	20	0	481	385	20	266	421	151
Miscellaneous Products	0	0	—	—	0	—	—	—	3
Total	18,168	320	0	22,219	107,625	14,543	11,786	99,231	50,525

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, April 2019
(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	257	0	23,931	874	0	0	0	0
Petroleum Products	0	5,211	0	12,865	4,411	2,288	0	24	25
Natural Gas Liquids	0	12	0	12,004	3,963	168	0	0	0
Ethane	0	—	0	2,868	1,584	—	0	0	0
Propane	0	0	0	4,832	1,122	96	0	0	0
Normal Butane	0	8	0	2,038	374	52	0	0	0
Isobutane	0	4	0	853	314	20	0	0	0
Natural Gasoline	0	—	0	1,413	569	—	0	0	0
Refinery Olefins	—	—	0	0	0	—	0	0	—
Ethylene	—	—	—	—	—	—	—	—	—
Propylene	—	—	0	0	0	—	0	0	—
Normal Butylene	—	—	—	—	—	—	—	—	—
Isobutylene	—	—	—	—	—	—	—	—	—
Unfinished Oils	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components	0	3,520	0	121	0	841	0	0	0
Reformulated - RBOB	—	2,377	0	0	0	0	0	0	—
Conventional	0	1,143	0	121	0	841	0	0	0
CBOB	0	1,143	0	121	0	841	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	0	684	0	0	0	27	0	24	0
Fuel Ethanol	0	331	0	0	0	27	0	0	0
Renewable Diesel Fuel ²	0	352	0	0	0	0	0	24	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	144	0	638	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	144	0	638	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	144	0	638	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	274	0	12	0	30	0	0	0
Kerosene	—	—	0	—	0	—	0	0	—
Distillate Fuel Oil	0	641	0	275	0	341	0	0	0
15 ppm sulfur and under	0	641	0	275	0	341	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	—	0	0	—	—	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	0	0	—	—	0	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	—	0	0	0	—	0	0	—
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	0	0	0	92	114	114	0	0	25
Asphalt and Road Oil	0	80	0	218	333	128	0	0	0
Miscellaneous Products	—	—	—	0	0	—	—	0	—
Total	0	5,468	0	36,796	5,285	2,288	0	24	25

— = 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, April 2019
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	201	47	253	64,965	6,770	134	29,793	0	-
Petroleum Products	17,044	0	2,976	29,810	7,263	74,472	18,749	0	4,435
Natural Gas Liquids	7,306	0	1,025	27,286	4,277	875	6,296	0	-
Ethane	5,940	0	0	12,753	650	0	872	0	-
Propane	791	0	1,025	8,700	1,994	875	742	0	-
Normal Butane	108	0	0	2,838	870	0	253	0	-
Isobutane	247	0	0	1,007	317	0	273	0	-
Natural Gasoline	220	0	0	1,988	446	0	4,156	0	-
Motor Gasoline Blending Components	6,641	0	852	1,536	1,169	39,167	6,941	0	3,520
Reformulated - RBOB	0	0	0	164	-	6,136	2,663	-	2,377
Conventional	6,641	0	852	1,372	1,169	33,031	4,278	0	1,143
CBOB	6,641	0	852	1,372	1,169	33,031	3,774	0	1,143
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	504	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	111	0	266	157	319	1,106	716	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	111	0	266	157	319	1,106	716	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	111	0	266	157	319	1,106	716	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	316	0	156	0	848	12,492	1,586	0	274
Kerosene	-	0	0	0	-	92	-	-	-
Distillate Fuel Oil	2,670	0	677	831	650	20,740	3,210	0	641
15 ppm sulfur and under	2,670	0	677	831	650	19,066	3,117	0	641
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	1	93	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	1,673	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	-	-	-	-	-	-	-	-	-
Total	17,245	47	3,229	94,775	14,033	74,606	48,542	0	4,435

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, April 2019
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	23,931	325	-	0	0
Petroleum Products	0	12,556	3,963	1,850	0	0
Natural Gas Liquids	0	12,004	3,963	-	0	0
Ethane	0	2,868	1,584	-	0	0
Propane	0	4,832	1,122	-	0	0
Normal Butane	0	2,038	374	-	0	0
Isobutane	0	853	314	-	0	0
Natural Gasoline	0	1,413	569	-	0	0
Motor Gasoline Blending Components	0	121	0	841	0	0
Reformulated - RBOB	0	0	0	0	0	-
Conventional	0	121	0	841	0	0
CBOB	0	121	0	841	0	0
GTAB	-	-	-	-	-	-
Other	-	0	0	-	0	-
Renewable Fuels	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	144	0	638	0	0
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	144	0	638	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	144	0	638	0	0
Finished Aviation Gasoline	-	-	-	-	-	-
Kerosene-Type Jet Fuel	0	12	0	30	0	0
Kerosene	0	-	0	-	0	-
Distillate Fuel Oil	0	275	0	341	0	0
15 ppm sulfur and under	0	275	0	341	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	36,487	4,288	1,850	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, April 2019
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	154	0	-	355	2,932	-
Petroleum Products	106	0	0	1,205	1,755	0
Natural Gas Liquids	-	0	-	0	0	-
Ethane	-	-	-	-	-	-
Propane	-	0	-	0	0	-
Normal Butane	-	-	-	-	-	-
Isobutane	-	-	-	-	-	-
Natural Gasoline	-	-	-	-	-	-
Unfinished Oils	30	0	-	0	404	-
Motor Gasoline Blending Components	52	0	-	533	111	-
Reformulated - RBOB	0	-	-	106	-	-
Conventional	52	0	-	427	111	-
CBOB	52	0	-	427	0	-
GTAB	-	-	-	-	-	-
Other	0	0	-	0	111	-
Renewable Fuels	0	0	0	210	404	0
Fuel Ethanol	0	0	-	210	384	-
Renewable Diesel Fuel ¹	0	0	0	-	20	0
Other Renewable Fuels	-	-	-	-	-	-
Finished Motor Gasoline	0	0	-	40	70	-
Reformulated	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-
Conventional	0	0	-	40	70	-
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-
Conventional Other	0	0	-	40	70	-
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	0	0	-	0	0	-
Kerosene	-	-	-	-	-	-
Distillate Fuel Oil	24	0	-	402	0	-
15 ppm sulfur and under	24	0	-	402	0	-
Greater than 15 ppm to 500 ppm sulfur	-	-	-	-	-	-
Greater than 500 ppm sulfur	-	-	-	-	-	-
Residual Fuel Oil	0	0	-	-	571	-
Less than 0.31 percent sulfur	0	0	-	-	33	-
0.31 to 1.00 percent sulfur	-	-	-	-	-	-
Greater than 1.00 percent sulfur	0	0	-	-	538	-
Petrochemical Feedstocks	0	0	-	-	122	-
Naphtha for Petrochemical Feedstock Use	0	0	-	-	98	-
Other Oils for Petrochemical Feedstock Use	0	0	-	-	24	-
Special Naphthas	0	0	-	-	0	-
Lubricants	0	0	-	20	0	-
Waxes	-	-	-	-	-	-
Marketable Petroleum Coke	-	-	-	-	-	-
Asphalt and Road Oil	0	0	-	0	73	-
Miscellaneous Products	0	0	-	-	0	-
Total	260	0	0	1,560	4,687	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, April 2019
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	1,831	—	1,831	—	0	—	0	0	0
Petroleum Products	22,618	5	245	22,368	1,837	310	0	0	0
Natural Gas Liquids	51	—	—	51	—	—	0	—	0
Ethane	—	—	—	—	—	—	—	—	—
Propane	51	—	—	51	—	—	0	—	0
Normal Butane	—	—	—	—	—	—	—	—	—
Isobutane	—	—	—	—	—	—	—	—	—
Natural Gasoline	—	—	—	—	—	—	—	—	—
Unfinished Oils	0	—	—	—	400	—	0	0	0
Motor Gasoline Blending Components	10,752	—	—	10,752	385	—	0	0	0
Reformulated - RBOB	0	—	—	—	0	—	0	0	—
Conventional	10,752	—	—	10,752	385	—	0	0	0
CBOB	10,715	—	—	10,715	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	37	—	—	37	385	—	0	0	0
Renewable Fuels	377	—	—	377	0	310	0	0	0
Fuel Ethanol	377	—	—	377	0	—	0	0	0
Renewable Diesel Fuel ¹	—	—	—	—	0	310	—	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	4,200	—	—	4,200	259	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	4,200	—	—	4,200	259	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	4,200	—	—	4,200	259	—	0	0	0
Finished Aviation Gasoline	98	5	20	73	10	—	0	0	0
Kerosene-Type Jet Fuel	2,794	—	—	2,794	75	—	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	3,530	—	—	3,530	390	—	0	0	0
15 ppm sulfur and under	3,530	—	—	3,530	390	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	0	—	—	0	0
0.31 to 1.00 percent sulfur	—	—	—	—	—	—	—	—	—
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	—	—	—	—	20	—	—	0	0
Naphtha for Petrochemical Feedstock Use	—	—	—	—	0	—	—	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	20	—	—	0	0
Special Naphthas	—	—	—	—	39	—	—	0	0
Lubricants	500	—	197	303	145	—	0	0	0
Waxes	—	—	—	—	—	—	—	—	—
Marketable Petroleum Coke	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	316	—	28	288	111	—	0	0	0
Miscellaneous Products	—	—	—	—	3	—	—	0	0
Total	24,449	5	2,076	22,368	1,837	310	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, April 2019
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	3,322	573	0	6,257
Propane	241	112	0	0	1,603	775	0	355
Propylene	0	0	-	-	297	310	-	-
Normal Butane	228	130	0	0	395	275	0	164
Isobutane	109	11	0	0	187	95	0	45
Fuel Ethanol	0	0	0	0	10,200	5,135	435	4,444
Biodiesel	0	0	0	0	207	323	54	255
Marketable Petroleum Coke	0	0	0	0	739	366	0	0
Asphalt and Road Oil	85	20	0	0	481	312	20	266

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	257	0	0	549	0
Propane	54	3	0	0	0	0	0	96
Propylene	0	0	-	-	0	0	0	-
Normal Butane	13	6	0	8	0	0	0	52
Isobutane	4	97	0	4	0	0	0	20
Fuel Ethanol	0	0	0	331	0	0	0	27
Biodiesel	0	0	0	42	0	0	0	0
Marketable Petroleum Coke	0	0	0	0	0	92	114	114
Asphalt and Road Oil	105	40	0	80	0	218	333	128

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	24	0
Marketable Petroleum Coke	0	165	0	25
Asphalt and Road Oil	0	0	0	0

- = No Data Reported.

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

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, April 2019
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	201	154	0	355
3	47	0	0	47
4	0	-	0	0
5	-	-	0	0
From 2 to				
1	253	355	3,322	3,930
3	64,965	2,932	573	68,470
4	6,770	-	0	6,770
5	-	-	6,257	6,257
From 3 to				
1	134	1,831	0	1,965
2	29,793	0	0	29,793
4	0	-	0	0
5	-	-	257	257
From 4 to				
1	0	0	0	0
2	23,931	0	0	23,931
3	325	0	549	874
5	-	-	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	-	0	0

- = No Data Reported.

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

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail ¹ Between PAD Districts, April 2019
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	5,895	402	5,493	54,079	85,427	-31,348	69,391	32,015	37,376
Petroleum Products	115,555	18,086	97,469	51,575	70,746	-19,172	43,863	123,209	-79,346
Natural Gas Liquids	4,207	8,137	-3,930	26,290	36,482	-10,192	32,647	7,411	25,236
Ethane	0	5,940	-5,940	9,680	13,403	-3,723	14,337	872	13,465
Propane	3,608	1,144	2,464	6,609	14,452	-7,843	10,709	1,725	8,984
Normal Butane	408	466	-58	2,633	4,542	-1,909	3,617	280	3,337
Isobutane	191	367	-176	1,579	1,651	-72	1,427	378	1,049
Natural Gasoline	0	220	-220	5,789	2,434	3,355	2,557	4,156	-1,599
Refinery Olefins	297	0	297	0	607	-607	310	0	310
Ethylene	0	0	-	-	-	-	0	0	-
Propylene	297	0	297	0	607	-607	310	0	310
Normal Butylene	0	0	-	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-	0	0	-
Unfinished Oils	0	30	-30	430	404	26	404	400	4
Motor Gasoline Blending Components	51,304	6,693	44,611	14,140	4,201	9,939	1,647	60,765	-59,118
Reformulated - RBOB	6,242	0	6,242	2,663	270	2,393	164	11,176	-11,012
Conventional	45,062	6,693	38,369	11,477	3,931	7,546	1,483	49,589	-48,106
CBOB	45,025	6,693	38,332	10,588	3,820	6,768	1,372	48,663	-47,291
GTAB	0	0	-	-	-	-	0	0	-
Other	37	0	37	889	111	778	111	926	-815
Renewable Fuels	10,993	0	10,993	0	21,667	-21,667	5,885	1,061	4,824
Fuel Ethanol	10,787	0	10,787	0	20,808	-20,808	5,519	708	4,810
Renewable Diesel Fuel ²	207	0	207	0	859	-859	366	352	14
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	5,612	111	5,501	1,230	852	378	227	6,281	-6,054
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	5,612	111	5,501	1,230	852	378	227	6,281	-6,054
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	5,612	111	5,501	1,230	852	378	227	6,281	-6,054
Finished Aviation Gasoline	98	0	98	10	0	10	0	108	-108
Kerosene-Type Jet Fuel	15,442	316	15,126	1,989	1,004	985	0	17,221	-17,221
Kerosene	92	0	92	0	0	-	0	92	-92
Distillate Fuel Oil	25,349	2,694	22,655	6,569	2,560	4,009	831	28,511	-27,680
15 ppm sulfur and under	23,675	2,694	20,981	6,476	2,560	3,916	831	26,744	-25,913
Greater than 15 ppm to 500 ppm sulfur	1	0	1	93	0	93	0	94	-94
Greater than 500 ppm sulfur	1,673	0	1,673	0	0	-	0	1,673	-1,673
Residual Fuel Oil	0	0	-	0	571	-571	571	0	571
Petrochemical Feedstocks	0	0	-	20	122	-102	122	20	102
Naphtha for Petrochemical Feedstock Use	0	0	-	0	98	-98	98	0	98
Other Oils for Petrochemical Feedstock Use	0	0	-	20	24	-4	24	20	4
Special Naphthas	0	0	-	39	0	39	0	39	-39
Lubricants	520	0	520	145	20	125	0	645	-645
Waxes	0	0	-	0	0	-	0	0	-
Marketable Petroleum Coke	739	0	739	256	1,105	-848	480	0	480
Asphalt and Road Oil	901	105	796	453	1,152	-698	739	652	86
Miscellaneous Products	0	0	-	3	0	3	0	3	-3
Total	121,450	18,488	102,962	105,654	156,173	-50,520	113,253	155,224	-41,970

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, April 2019
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	6,770	24,805	-18,035	6,514	0	6,514
Petroleum Products	7,798	19,563	-11,765	13,028	213	12,814
Natural Gas Liquids	4,277	16,135	-11,858	744	0	744
Ethane	650	4,452	-3,802	0	0	-
Propane	1,994	6,050	-4,056	451	0	451
Normal Butane	870	2,464	-1,594	224	0	224
Isobutane	317	1,187	-870	69	0	69
Natural Gasoline	446	1,982	-1,536	0	0	-
Refinery Olefins	0	0	-	0	0	-
Ethylene	-	-	-	-	-	-
Propylene	0	0	-	0	0	-
Normal Butylene	0	0	-	0	0	-
Isobutylene	0	0	-	0	0	-
Unfinished Oils	0	0	-	0	0	-
Motor Gasoline Blending Components	1,169	962	207	4,361	0	4,361
Reformulated - RBOB	-	-	-	2,377	0	2,377
Conventional	1,169	962	207	1,984	0	1,984
CBOB	1,169	962	207	1,984	0	1,984
GTAB	-	-	-	0	0	-
Other	0	0	-	0	0	-
Renewable Fuels	490	27	462	5,411	24	5,387
Fuel Ethanol	435	27	408	4,803	0	4,803
Renewable Diesel Fuel ²	54	0	54	608	24	584
Other Renewable Fuels	-	-	-	0	0	-
Finished Motor Gasoline	319	782	-463	638	0	638
Reformulated	-	-	-	0	0	-
Reformulated Blended with Fuel Ethanol	-	-	-	0	0	-
Reformulated Other	-	-	-	-	-	-
Conventional	319	782	-463	638	0	638
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	319	782	-463	638	0	638
Finished Aviation Gasoline	0	0	-	0	0	-
Kerosene-Type Jet Fuel	848	42	806	304	0	304
Kerosene	0	0	-	0	0	-
Distillate Fuel Oil	650	616	34	982	0	982
15 ppm sulfur and under	650	616	34	982	0	982
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	25	320	-295	114	190	-75
Asphalt and Road Oil	20	679	-658	474	0	474
Miscellaneous Products	0	0	-	0	0	-
Total	14,568	44,368	-29,800	19,541	213	19,328

- = 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.

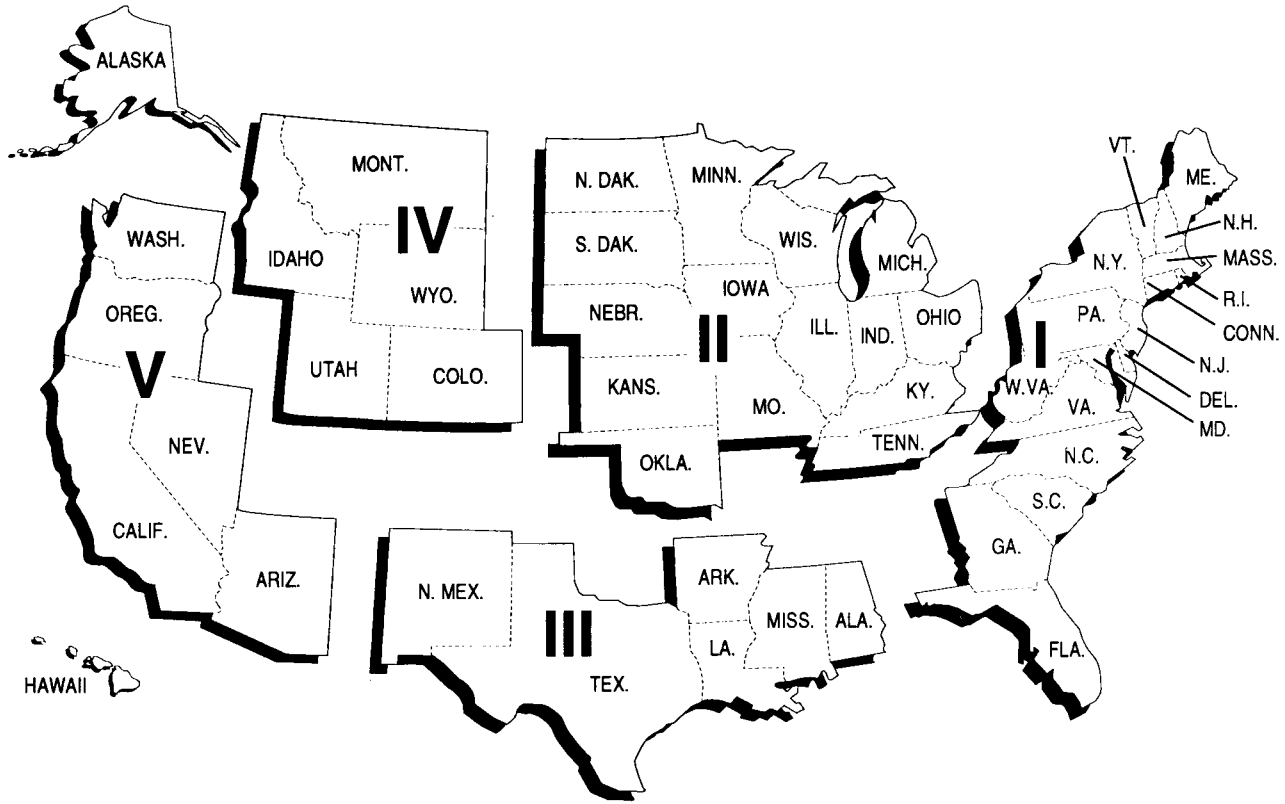
PAD District IV

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

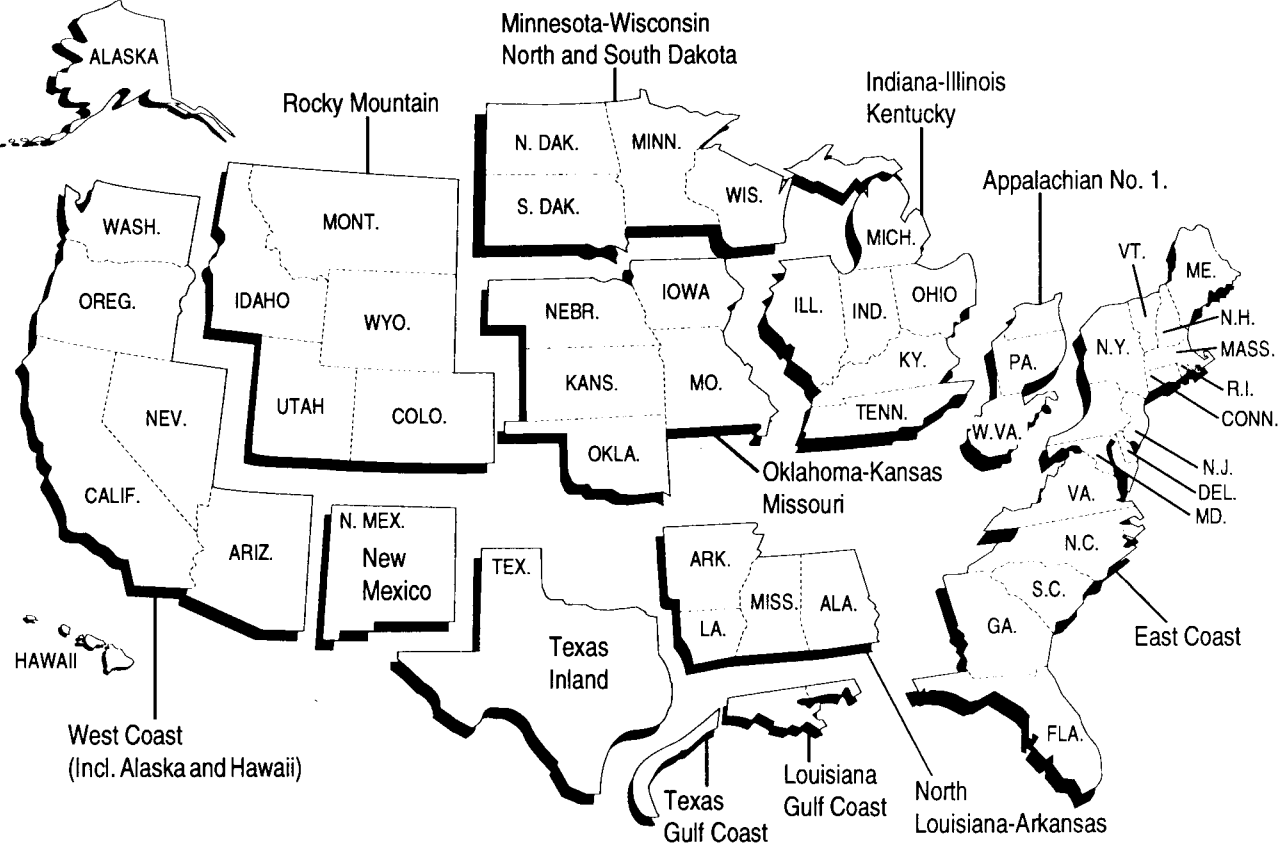
PAD District V

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	87
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised May 2010)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

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

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

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

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

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

feedstocks.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Flexicoking. A thermal cracking process which converts heavy

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

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

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

Examples:

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

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

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

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

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

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

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

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

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

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

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

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

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

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

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

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

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

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

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

Isopentane. See *Natural Gasoline and Isopentane.*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Reformulated Blendstock for Oxygenate Blending (RBOB).

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

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

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

All Other Motor Gasoline Blending Components.

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

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

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

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

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

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

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

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

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

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

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

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

Normal Butane. See *Butane*.

OPEC. An intergovernmental organization whose stated objective is to coordinate and unify petroleum policies of member countries. It was created at the Baghdad Conference on September 10–14, 1960. Current and former members (with years of membership) include Algeria (1969-present), Angola (2007-present), Congo (Brazzaville) (June 2018-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 (1961-2018), 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.